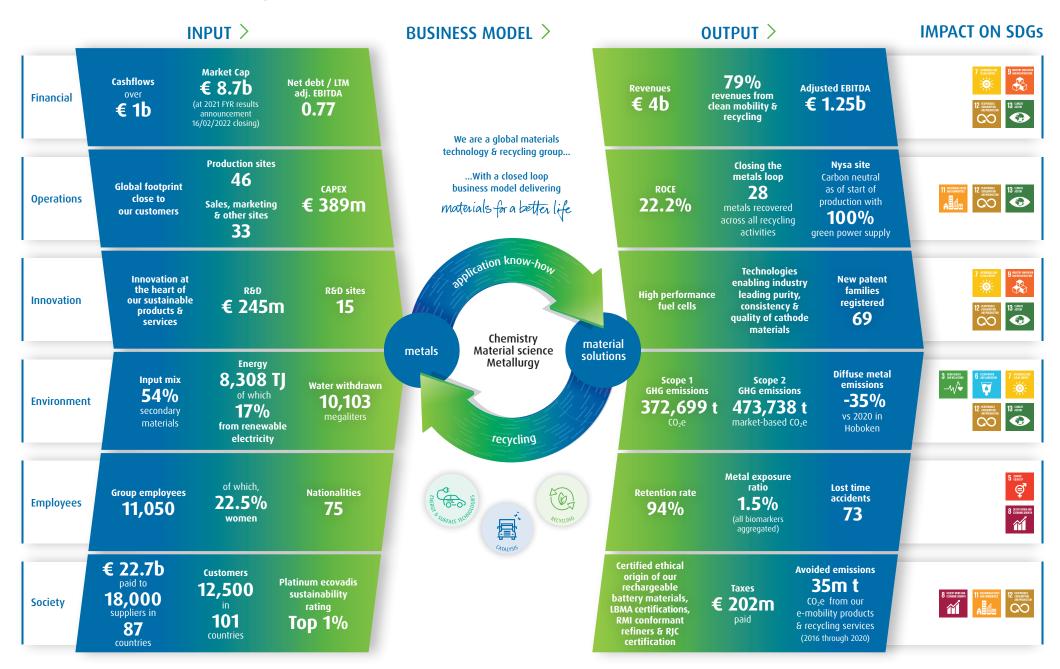


Umicore at a glance





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Consolidated income statement

Thousands of Euros	Notes	2020	2021
Turnover	F9	20,710,116	24,054,439
Other operating income	F9	80,602	176,919
Operating income		20,790,718	24,231,358
Raw materials and consumables	F9	(18,819,323)	(21,644,346)
Payroll and related benefits	F10	(798,481)	(853,140)
Depreciation and impairments	F9	(362,496)	(338,777)
Other operating expenses	F9	(506,587)	(517,313)
Operating expenses		(20,486,887)	(23,353,576)
Income (loss) from other financial assets	F12	761	1,156
RESULT FROM OPERATING ACTIVITIES		304,592	878,938
Financial income	F11	4,044	13,904
Financial expenses	F11	(77,802)	(80,716)
Foreign exchange gains and losses	F11	(30,445)	(23,480)
Share in result of companies accounted for using the equity method	F17	(5,332)	17,347
PROFIT (LOSS) BEFORE INCOME TAX		195,057	805,993
Income taxes	F13	(59,130)	(179,044)
PROFIT (LOSS) FROM CONTINUING OPERATIONS 1:		135,927	626,949
Profit (loss) of the period		135,927	626,949
of which minority share		5,397	7,990
of which Group share		130,530	618,959

(EUR)			
Basic earnings per share from continuing operations	F39	0.54	2.57
Diluted earnings per share from continuing operations	F39	0.54	2.56
Dividend pay-out per share		0.25	0.75

On 30 April 2020 the ordinary shareholders' meeting approved to reduce the dividend for 2019 to \in 0.375 per share, which corresponded to the amount of the interim dividend for 2019 which had been already paid out in the second half of 2019. Therefore, there was no dividend payout in the first half of 2020. The Supervisory Board proposed a gross annual dividend for the financial year 2020 of \in 0.75 per share at the Annual General Meeting on 29 April 2021. Taking into account the interim dividend of \in 0.25 per share paid out on 25 August 2020, a gross amount of \in 0.50 per share was paid out on 5 May 2021 after shareholder approval. Taking into account the interim dividend of \in 0.25 per share paid out on 24 August 2021 and subject to shareholder approval, a gross amount of \in 0.55 per share will be paid out on 4 May 2022.

Consolidated statement of comprehensive income

Thousands of Euros	Notes	2020	2021
Profit (loss) of the period from continuing operations		135,927	626,949
Items in other comprehensive income that will not be reclassified to P&L			
Changes due to remeasurements of post employment benefit obligations		(25,198)	46,007
Changes in deferred taxes directly recognized in other comprehensive income		7,258	(11,838)
Items in other comprehensive income that may be subsequently reclassified to P&L			
Changes in financial assets at FV through OCI reserves		(4,193)	43
Changes in cash flow hedge reserves		17,321	65,732
Changes in deferred taxes directly recognized in other comprehensive income		(3,456)	(19,811)
Changes in currency translation differences		(122,257)	86,663
Other comprehensive income from continuing operations	F23	(130,525)	166,796
TOTAL COMPREHENSIVE INCOME FOR THE PERIOD		5,402	793,745
of which Group share		2,952	784,177
of which minority share		2,450	9,568

The deferred tax impact on the consolidated statement of comprehensive income is due to changes in the cash flow hedge reserves for ϵ -19.8 million and in the employee benefit reserves for ϵ -11.8 million.



Consolidated balance sheet

Thousands of Euros	Notes	31/12/2020	31/12/2021
Non-current assets		2,895,694	3,102,769
Intangible assets	F14, F15	346,888	339,848
Property, plant and equipment	F16	2,163,660	2,351,133
Investments accounted for using the equity method	F17	139,839	155,140
Financial assets at fair value through Other Comprehensive Income	F18	8,352	14,120
Loans granted	F18	3,252	2,608
Trade and other receivables	F20	11,765	20,672
Deferred tax assets	F21	221,938	219,248
Current assets		5,445,199	5,942,472
Loans granted	F18	80	169
Inventories	F19	2,718,092	2,869,071
Trade and other receivables	F20	1,677,167	1,832,033
Income tax receivables	F21	39,553	46,762
Cash and cash equivalents	F22	1,010,307	1,194,437
TOTAL ASSETS		8,340,893	9,045,241

Thousands of Euros	Notes	31/12/2020	31/12/2021
Equity of the Group		2,621,856	3,167,274
Group shareholders' equity		2,557,182	3,112,882
Share capital and premiums		1,384,273	1,384,273
Retained earnings		1,749,655	2,151,292
Currency translation differences and other reserves	F23	(367,825)	(196,370)
Treasury shares		(208,921)	(226,313)
Minority interest		64,674	54,392
Non-current liabilities		2,359,901	2,398,400
Provisions for employee benefits	F27	426,356	387,206
Financial debt	F24	1,705,154	1,724,037
Trade and other payables	F25	23,505	47,361
Deferred tax liabilities	F21	22,846	24,294
Provisions	F29, F30	182,040	215,502
Current liabilities		3,359,136	3,479,567
Financial debt	F24	719,177	430,847
Trade and other payables	F25	2,418,929	2,807,966
Income tax payable	F21	160,734	197,488
Provisions	F29, F30	60,296	43,266
TOTAL EQUITY & LIABILITIES		8,340,893	9,045,241

Consolidated statement of changes in equity

			Currency translation &			
Thousands of Euros	Share capital & premiums	Reserves	other reserves	Treasury shares	Minority interest	Total for continuing operations
Balance at the beginning of 2020	1,384,273	1,678,348	(284,453)	(184,701)	66,997	2,660,464
Result of the period	-	130,530	-	-	5,397	135,927
Other comprehensive income for the period	-	-	(127,578)	-	(2,947)	(130,525)
Total comprehensive income for the period	-	130,530	(127,578)	-	2,450	5,402
Changes in share-based payment reserves	-	-	10,108	-	-	10,108
Convertible Bond - conversion rights*	-	-	37,743	-	-	37,743
Capital increase	-	-	-	-	27	27
Dividends	-	(60,141)	-	-	(4,800)	(64,942)
Transfers	-	917	(3,645)	2,727	-	-
Changes in treasury shares	-	-	-	(26,947)	-	(26,947)
Changes in scope	-	-	-	-	-	-
BALANCE AT THE END OF 2020	1,384,273	1,749,655	(367,825)	(208,921)	64,674	2,621,856
Result of the period	-	618,959	-	-	7,990	626,949
Other comprehensive income for the period	-	-	165,218	-	1,578	166,796
Total comprehensive income for the period	-	618,959	165,218	-	9,568	793,745
Changes in share-based payment reserves	-	-	14,255	-	-	14,255
Convertible Bond - conversion rights*	-	-	-	-	-	-
Capital increase	-	-	-	-	-	-
Dividends	-	(180,530)	-	-	(6,008)	(186,538)
Transfers	-	1,137	(5,904)	4,767	-	-
Changes in treasury shares	-	-	-	(22,159)	-	(22,159)
Changes in scope	-	(37,930)	(2,115)	-	(13,841)	(53,885)
BALANCE AT THE END OF 2021	1,384,273	2,151,292	(196,370)	(226,313)	54,392	3,167,274

The legal reserve of €55.0million which is included in the retained earnings is not available for distribution. The share capital of the Group as at 31 December 2021 was composed of 246,400,000 shares with no par value.

*The conversion rights embedded in the € 500 million convertible bond issued on 23 June 2020 were valued at € 37.7 million net of transaction costs and deferred taxes. This value according to IFRS rules will not be remeasured over time, nor at conversion nor at maturity.

The change in scope movements over the year are mainly related to the squeeze-out to acquire the remaining 8.8 % of the shares in Agosi (Allgemeine Gold- und Silberscheideanstalt AG, Germany) for € 53.9 million.



Consolidated statement of cash flow

Thousands of Euros	Notes	2020	2021
Profit (loss) from continuing operations		135,927	626,949
Adjustments for profit of equity companies		5,332	(17,347)
Adjustment for non-cash transactions	F34	449,022	399,936
Adjustments for items to disclose separately or under investing and financing cashflows	F34	116,051	228,573
Change in working capital requirement	F34	(103,756)	167,154
Cashflow generated from operations		602,576	1,405,265
Dividend received		2,026	5,018
Tax paid during the period		(78,955)	(174,990)
Government grants received		2,673	23,287
NET OPERATING CASHFLOW	F34	528,320	1,258,580
Acquisition of property, plant and equipment	F16	(391,475)	(379,572)
Acquisition of intangible assets	F14	(44,060)	(36,854)
Acquisition of new subsidiaries, net of cash acquired	F8	(156)	-
Acquisition in additional shareholdings in subsidiaries		-	(53,870)
Acquisition of financial assets	F18	(1,633)	(5,014)
New loans extended	F18	(752)	(170)
Sub-total acquisitions		(438,076)	(475,480)
Disposal of property, plant and equipment		1,475	1,994
Disposal of intangible assets		6,620	623
Disposal of subsidiaries and associates, net of cash disposed		518	1,417
Sub-total disposals 8,613			4,034
NET CASHFLOW GENERATED BY (USED IN) INVESTING ACTIVITIES	F34	(429,463)	(471,446)

Thousands of Euros	Notes	2020	2021
Capital increase (decrease) minority		27	-
Own shares		(26,947)	(22,159)
Payment of lease liabilities	F24	(19,801)	(19,534)
Interest received		3,392	12,098
Interest paid		(59,689)	(54,510)
New loans and repayments	F24	806,035	(331,718)
Dividends paid to Umicore shareholders		(60,141)	(180,537)
Dividends paid to minority shareholders		(4,800)	(6,007)
NET CASHFLOW GENERATED BY (USED IN) FINANCING ACTIVITIES	F34	638,076	(602,367)
Effect of exchange rate fluctuations		25,466	(20,081)
TOTAL NET CASHFLOW OF THE PERIOD		762,399	164,686
Net cash and cash equivalents at the beginning of the period for continuing operations	F22	239,230	1,001,630
Net cash and cash equivalents at the end of the period for			
continuing operations	F22	1,001,630	1,166,316
of which cash and cash equivalents		1,010,307	1,194,437
of which bank overdrafts		(8,678)	(28,122)

Notes of the financial statements

The company's consolidated financial statements and the management report prepared in accordance with article 3:33 of the Belgian Companies and Associations Code set forth in the sections labelled About us through Management Responsibility Statement(p. 75) for the year ended 31 December 2021 were authorized for issue by the Supervisory Board on 11 March 2022. They have been prepared in accordance with the legal and regulatory requirements applicable to the consolidated financial statements of Belgian companies. They include those of the company, its subsidiaries and its interests in companies accounted for using the equity method.

F1 Basis of preparation

The Group presents its annual consolidated financial statements in accordance with all International Financial Reporting Standards (IFRS) adopted by the European Union (EU).

The consolidated financial statements are presented in thousands of euros, rounded to the nearest thousand, and have been prepared on a historical cost basis, except for those items that are measured at fair value.

Umicore is a Société Anonyme - Naamloze vennootschap company with its registered office in Brussels, Belgium at Rue du Marais 31 (Broekstraat 31) B - 1000 Brussels (Belgium) and has following LEI code 529900F3AIQECS8ZSV61.

Umicore operates its business from Belgium. UmicoreNV-SA is the ultimate parent company of the Umicore aroup.

Umicore group did not change his name compared to previous year.

Umicore is a global materials technology and recycling group. It focuses on application areas where its expertise in materials science, chemistry and metallurgy makes a real difference. Its activities are organised in three business groups: Catalysis, Energy & Surface Technologies and Recycling. Each business group is divided into market-focused business units offering materials and solutions that are at the cutting edge of new technological developments and essential to everyday life. Umicore generates the majority of its revenues and dedicates most of its R&D efforts to clean mobility materials and recycling. Umicore's overriding goal of sustainable value creation is based on an ambition to develop, produce and recycle materials in a way that fulfils its mission: materials for a better life. Umicore's industrial and commercial operations as well as R&D activities are located across the world to best serve its global customer base.

F2 Accounting policies

2.1 Principles of consolidation and segmentation

2.1.1 Subsidiaries

Subsidiaries are all entities (including structured entities) over which the Group has control.

The Group controls an entity when the Group is exposed to, or has rights to, variable returns from its involvement with the entity and has the ability to affect those returns through its power over the entity. Subsidiaries are fully consolidated from the date on which control is transferred to the Group. They are deconsolidated from the date that control ceases.

Note F5 lists all significant subsidiaries of the company at the closing date.

The Group applies the acquisition method to account for business combinations. The consideration transferred for the acquisition of a subsidiary is the fair values of the assets transferred, the liabilities incurred to the former owners of the acquiree and the equity interests issued by the Group. The consideration transferred includes the fair value of any asset or liability resulting from a contingent consideration arrangement. Identifiable assets acquired and liabilities and contingent liabilities assumed in a business combination are measured initially at their fair values at the acquisition date. The group recognizes any minority interest in the acquiree on an acquisition-by-acquisition basis, either at fair value or at the minority interest's proportionate share of the recognized amounts of acquiree's identifiable net assets. Acquisition-related costs are expensed as incurred.

If the business combination is achieved in stages, the acquisition date carrying value of the acquirer's previously held equity interest in the acquiree is re-measured to fair value at the acquisition date; any gains or losses arising from such re-measurement are recognized in profit or loss.

Any contingent consideration to be transferred by the Group is recognized at fair value at the acquisition date. Subsequent changes to the fair value of the contingent consideration that is deemed to be an asset or liability is recognized in profit or loss. Contingent consideration that is classified as equity is not re-measured, and its subsequent settlement is accounted for within equity.

Inter-company transactions, balances and unrealized gains on transactions between group companies are eliminated. Unrealized losses are also eliminated. When necessary, amounts reported by subsidiaries have been adjusted to conform with the Group's accounting policies. The line "other operating income" and "other financial income" of the income statements include, depending on the nature of the underlying transactions, the currency translation differences due to intercompany transactions to be translated

from the transaction currency into functional currency which may differ from euro for some entities and regions.

IFRS 5 (Non-current Assets Held for Sale and Discontinued Operations) does not specify the treatment for the elimination of inter-company transactions between discontinued and continued operations. As an accounting policy Umicore opts not to eliminate the intercompany transactions within the income statement between the discontinued and continued operations. For the balance sheet presentation however, IFRS 10 (Consolidated Financial Statements) overrides IFRS 5 and requires all intercompany balances to be eliminated including between the discontinued and continued operations.

2.1.2 Changes in ownership interests in subsidiaries without change of control

Transactions with minority interests that do not result in loss of control are accounted for as equity transactions - that is, as transactions with the owners in their capacity as owners.

The difference between fair value of any consideration paid and the relevant share acquired of the carrying value of net assets of the subsidiary is recorded in equity. Gains or losses on disposals to minority interests are also recorded in equity.

2.1.3 Disposal of subsidiaries

When the Group ceases to have control, any retained interest in the entity is remeasured to its fair value at the date when control is lost, with the change in carrying amount recognized in profit or loss. The fair value is the initial carrying amount for the purposes of subsequently accounting for the retained interest as an associate, joint venture or financial asset. In addition, any amounts previously recognized in other comprehensive income in respect of that entity are accounted for as if the Group had directly disposed of the related assets or liabilities. This may mean that amounts previously recognized in other comprehensive income are reclassified to profit or loss.

2.1.4 Associates

Associates are all entities over which the Group has significant influence but not control, generally accompanying a shareholding of between 20% and 50% of the voting rights. Investments in associates are accounted for using the equity method of accounting. Under the equity method, the investment is initially recognized at cost, and the carrying amount is increased or decreased to recognize the investor's share of the profit or loss of the investee after the date of acquisition.

The Group's investment in associates includes goodwill identified on acquisition. If the ownership interest in an associate is reduced but significant influence is retained, only a proportionate share of the amounts previously recognized in other comprehensive income is reclassified to profit or loss where appropriate. The Group's share of post-acquisition profit or loss is recognized in the income statement, and its share of post-acquisition movements in other comprehensive income is recognized in other comprehensive income with a corresponding adjustment to the carrying amount of the investment. When the Group's

share of losses in an associate equals or exceeds its interest in the associate, including any other unsecured receivables, the Group does not recognize further losses, unless it has incurred legal or constructive obligations or made payments on behalf of the associate. The Group determines at each reporting date whether there is any objective evidence that the investment in the associate is impaired. If this is the case, the Group calculates the amount of impairment as the difference between the recoverable amount of the associate and its carrying value and recognizes the amount adjacent to "share of profit/(loss) of associates" in the income statement.

Profits and losses resulting from upstream and downstream transactions between the Group and its associate are recognized in the Group's financial statements only to the extent of unrelated investor's interests in the associates. Unrealized losses are eliminated unless the transaction provides evidence of an impairment of the asset transferred. Accounting policies of associates have been changed where necessary to ensure consistency with the policies adopted by the Group. Dilution gains and losses arising in investments in associates are recognized in the income statement.

2.1.5 loint arrangements

The Group applies IFRS 11 to all joint arrangements. Under IFRS 11 investments in joint arrangements are classified as either joint operations or joint ventures depending on the contractual rights and obligations each investor. The Group has assessed the nature of its joint arrangements and determined them to be joint ventures. Joint ventures are accounted for using the equity method. Under the equity method of accounting, interests in joint ventures are initially recognized at cost and adjusted thereafter to recognize the Group's share of the postacquisition profits or losses and movements in other comprehensive income.

When the Group's share of losses in a joint venture equals or exceeds its interests in the joint ventures (which includes any long-term interests that, in substance, form part of the Group's net investment in the joint ventures), the Group does not recognize further losses, unless it has incurred obligations or made payments on behalf of the joint ventures.

Unrealized gains on transactions between the Group and its joint ventures are eliminated to the extent of the Group's interest in the joint ventures. Unrealized losses are also eliminated unless the transaction provides evidence of an impairment of the asset transferred. Accounting policies of the joint ventures have been changed where necessary to ensure consistency with the policies adopted by the Group.

2.1.6 Segment reporting

Note F7 provides the Company's segment information, in line with IFRS 8. Umicore is organized in business units. Operating segments under IFRS 8 at Umicore are differentiated by their growth drivers in the areas of Catalysis, Energy & Surface Technologies, and Recycling.

The Catalysis segment provides automotive catalysts for gasoline and diesel light and heavyduty diesel applications, including on-road and non-road vehicles. The business group also offers stationary catalysis for industrial emissions control and produces precious metals based compounds and catalysts for use in the pharmaceutical and fine chemicals industries.

The Energy & Surface Technologies segment is focused on products that are found in applications used in the production and storage of clean energy and in a range of applications for surface technologies that bring specific properties and functionalities to end products. All the activities offer a closed loop service for the customers. The Recycling segment treats complex waste streams containing precious and other specialty metals. The operations can recover 20 of these metals from a wide range of input materials ranging from industrial residues to end-of-life materials. Other activities include production of precious metals-based materials that are essential for applications as diverse as high-tech glass production, electrics and electronics.

Corporate covers corporate activities, shared operational functions and the Group's Research, Development & Innovation unit. Umicore's minority share in Element Six Abrasives and legsa is also included in Corporate.

Operating segments are reported in a manner consistent with the internal reporting provided to the supervisory board and the management board.

The segment results, assets and liabilities include items directly attributable to the segment as well as those elements that can reasonably be allocated to a segment.

The pricing of inter-segment sales is based on an arm's length transfer pricing system. In the absence of relevant market price references, 'cost plus' mechanisms are used.

Associate companies are allocated to the business group with the closest fit from a market segment perspective.

2.2 Inflation accounting

For the reported period, there is one subsidiary in the Umicore Group having a functional currency belonging to a hyperinflationary economy in Argentina. However, in view of significance to the Group, this is not material for IAS 29 to be applied.

2.3 Foreign currency translation

Functional currency: items included in the financial statements of each entity in the Group are measured using the currency that best reflects the economic substance of the underlying events and circumstances relevant to that entity. The consolidated financial statements are presented in euros which is the functional currency of the parent. To consolidate the Group and each of its subsidiaries, the financial statements are translated as follows:

- Assets and liabilities at the year-end rate as published by the European Central Bank.
- Income statements at the average exchange rate for the year.
- The components of shareholders' equity at the historical exchange rate.

Exchange differences arising from the translation of the net investment in foreign subsidiaries, joint ventures and associated entities at the period-end exchange rate are recorded as part of the shareholders' equity under "currency translation differences".

When a foreign operation is partially disposed of or sold, exchange differences that were recorded in equity are recognized in the income statement as part of the gain or loss on sale.

Goodwill and fair value adjustments arising on the acquisition of a foreign entity are treated as local currency assets and liabilities of the foreign entity and are translated at the closing rate.

2.4 Foreign currency transactions

Foreign currency transactions are recognized during the period in the functional currency of each entity at exchange rates prevailing at the date of transaction. The date of a transaction is the date at which the transaction first qualifies for recognition. For practical reasons a rate that approximates the actual rate at the date of the transaction is used at some operations, for example, an average rate for the week or the month in which the transactions occur.

Subsequently, monetary assets and liabilities denominated in foreign currencies are translated at the closing rate at the end of the reporting period.

Gains and losses resulting from the settlement of foreign currency transactions, and from the translation of monetary assets and liabilities denominated in foreign currencies, are recognized in the income statement as a financial result.

In order to hedge its exposure to certain foreign exchange risks, the Company has entered into certain forward contracts (see Note F2.21, Financial instruments).

2.5 PROPERTY, PLANT AND EQUIPMENT

Property, plant and equipment is recorded at historical cost, less accumulated depreciation and impairment losses. Cost includes all direct costs and appropriate allocation of indirect costs incurred to bring the asset to working condition for its intended use.

Borrowing costs that are directly attributable to investments are capitalized together with the costs of the assets in accordance with IAS 23. All borrowing costs that cannot be linked directly to an investment are recognized as expenses in the period when incurred.

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The straight-line depreciation method is applied through the estimated useful life of the assets.

Useful life is the period of time over which an asset is expected to be used by the company.

Repair and maintenance costs are expensed in the period in which they are incurred, if they do not increase the future economic benefits of the asset. Otherwise they are classified as separate components of items of property, plant and equipment. Those major components of items of property, plant and equipment that are replaced at regular intervals are accounted for as separate assets as they have useful lives different from those items of property, plant and equipment to which they relate. Umicore's PPE, being complex and highly customized industrial assets, typically do not have an individual resale value if put outside the overall context of the operations. Therefore, no residual value is taken into account when determining the depreciable value.

The typical useful life per main type of property, plant and equipment are as per table below. For material newly acquired or constructed assets, the useful life is separately assessed at the moment of the investment request and can deviate from the above standards.

Management determines the estimated useful lives and related depreciation charges for property, plant and equipment. Management uses standard estimates based on a combination of physical durability and projected product life or industry life cycles. These useful lives could change significantly as a result of technical innovations, market developments or competitor actions. Management will increase the depreciation charge where useful lives are shorter than previously estimated, or it will write-off or write-down technically obsolete or non-strategic assets that have been abandoned or sold.

Land use rights are part of the Property, Plant and Equipment and are typically amortized over the contractual period.

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Land	Non-depreciable
Buildings	
- Industrial buildings	20
- Improvements to buildings	10
- Offices and laboratories	40
Plant, machinery and equipment	10
- Furnaces	7
- Small equipment	5
Furniture and vehicles	
- Vehicles	5
- Mobile handling equipment	7
- Computer equipment	3 - 5
- Furniture and office equipment	5 - 10

2.6 Intangible assets & equity transaction expenses

2.6.1 Equity transaction expenses

Expenses for formation and capital increase are deducted from the share capital.

2.6.2 Goodwill

Goodwill represents the excess of the cost of an acquisition of a subsidiary, associate or jointly controlled entity over the Group's share in the fair value of the identifiable assets and liabilities of the acquired entity at the date of acquisition. Goodwill is recognized at cost less any accumulated impairment losses.

Goodwill from associates and joint ventures is presented in the balance sheet on the line "Investments accounted for under the equity method", together with the investment itself.

To assess impairment, goodwill is allocated to a cash generating unit (CGU). At each balance sheet date, these CGUs are tested for impairment, meaning an analysis is performed to determine whether the carrying amount of goodwill allocated to the CGU is fully recoverable.

If the carrying amount is not fully recoverable, an appropriate impairment loss is recognized in the income statement. These impairment losses are never reversed.

The excess of the Group's interest in the fair value of the net identifiable assets acquired over the cost of acquisition is recognized in the income statement immediately.

2.6.3 Research and development

Research costs related to the prospect of gaining new scientific or technological knowledge and understanding are recognized in the income statement as an incurred expense.

Development costs are defined as costs incurred for the design of new or substantially improved products and for the processes prior to commercial production or use. They are capitalized if, among others, the following conditions are met:

- the intangible asset will give rise to future economic benefits, or in other words, the market potential has been clearly demonstrated.
- the expenditures related to the process or product can be clearly identified and reliably measured.

In case it is difficult to clearly distinguish between research or development costs, the costs are considered as being research. If development costs are capitalized they are amortized using a straight-line method over the period of their expected benefit, in general five years.

2.6.4 CO₂ emission rights

Within the framework of the Kyoto protocol, a third emission trading period started, covering 2013-2020 and the fourth phase started on January 1, 2021 (till 2030). Therefore, the Flemish Government granted emission rights to the Flemish sites of certain companies, including Umicore. Each year, at the end of February, one fifth of these emission rights is put on an official registry account. The release of emission rights to this registry account entails the capitalization in the intangible assets, which is in line with the quidance of the Belgian Accounting Standards Commission. Gains on the recognition of emission rights at fair value are deferred until the certificates are used. Emission rights owned are subject to impairment testing but are not depreciated. If, at a certain closing date, it appears that the closing market price is below the carrying value, a write-down is booked. At each closing date, the Group estimates the actual use of rights for the period and recognizes a provision for the rights that will have to be restituted to the Government. The charge related to the impairment loss or the recognition of provisions are fully compensated in the income statement by the release of deferred revenue. Historically, Umicore owns the required rights to ensure its normal operating activities.

2.6.5 Other intangible assets

All the following types are recorded at historical cost, less accumulated amortization and impairment losses:

- Concessions, patents, licenses: are amortized over the period of their legal protection with a minimum of 5% (in general over 5 years).
- Customer portfolios: are typically amortized over a period of five years.
- ERP software is typically amortized over a period of ten years.
- Smaller software is typically amortized over a period of five years.

In case of an earn-out component, a remeasurement is foreseen, adapting the carrying amount of the asset and the amortization accordingly.

Umicore has currently no intangible asset with an indefinite useful live.

2.7 Lease

IFRS 16 sets out the principles for the recognition, measurement, presentation, and disclosure of leases and requires lessees to account for all leases under a single on-balance sheet model, similar to the accounting for finance leases under IAS 17. At the commencement date of a lease, lessees recognize a lease liability (i.e. a liability to make lease payments), and a right-of-use asset (i.e. an asset representing the right to use the underlying asset over the lease term).

The lease liabilities are recognized at the present value of the remaining lease payments (see note F24) in non-current liabilities (including the current portion of the lease liabilities) which is considered immaterial in view of the financial statements as a whole.

The right-of-use asset is depreciated over the term of the lease (see note F16). Interest expense is recognized on the lease liability (see note F11). The lease liability is remeasured upon the occurrence of certain events (e.g., a change in the lease term or a change in future lease payments resulting from a change in index). Such remeasurements of the lease liability will generally be recognized as an adjustment to the right-of-use asset.

The Group applies the lease recognition exemptions for short-term leases and leases for which the underlying asset is of low value. The Group elects, by class of underlying asset, not to separate non-lease components from lease components and instead accounts for each lease component and any associated non-lease component as one single lease component.

The Group leases metals to and from third parties for specified periods for which the Group receives or pays fees. Metal lease contracts are typically concluded for less than one year.

The metal leases from and to third parties are still reported as off-balance sheet commitments, as not in the scope of IFRS 16.

2.8 Financial assets at fair value through oci, loans and non-current receivables All movements in financial assets at fair value through OCI, loans and receivables are accounted for at trade date.

Financial assets at fair value through OCI are carried at fair value. Unrealized gains and losses from changes in the fair value of such assets are recognized in equity as financial assets at fair value through OCI reserves (Other Comprehensive Income). When the assets are sold or impaired, the accumulated fair value adjustments are also included in the OCI. Financial assets are derecognized when the rights to receive cash flows from the investments have expired or have been transferred and the Group has transferred substantially all risks and rewards of ownership.

Loans and receivables are carried at amortized cost less any impairment.

All write-downs are recorded on a separate account and are netted with the carrying amounts when all chances of recovery are depleted. Own shares are deducted from equity.

2.9 Inventory

Inventories are classified as:

- 1. Base products (gross values)
 - a. Permanently tied up metal inventories (not hedged)
 - b. Commercially available metal inventories (hedged)
 - c. Other base products inventories (not hedged)
- 2. Consumables (gross values)
- 3. Write down and impairments
- 4. Advances paid
- 5. Contracts in progress

Inventories are carried at cost. Cost comprises direct purchase or manufacturing costs and an appropriate allocation of overheads.

Base products (gross values) are mostly metal-containing products on which Umicore is exposed to price fluctuation risks. Most of these inventories follow Umicore's metal accounting rules and are classified in two inventory categories that reflect their specific nature and business use: the permanently tied up metal inventories and the commercially available metal inventories. The latter inventories are subject to an active and systematic hedging process to minimize the effects of market price fluctuations on the financial performance of the Group. Conversely, the permanently tied up metal inventories are typically not hedged. Next to these categories, the other base product inventories consist of materials used in the manufacturing processes to obtain the marketable basis products. These inventories are also typically not hedged. More details on the hedging mechanisms can be found in note F3.

Individualized or weighted average valuation is applied on the initial at cost valuation per category of inventory complemented with the following fair value principles:

• On the permanently tied up metal inventories: In view of their permanent nature, Umicore opted to apply the measurement and recognition rules of Property, Plant and Equipment (IAS 16) and Impairment of Assets (IAS 36). The valuation is based on the "historical cost less any accumulated depreciation and accumulated impairment" principle. As the inventories are considered to have an unlimited useful life, no depreciations are applied. Instead they are subject to Umicore's annual impairment testing of the CGUs carrying these inventories. Any impairments booked are classified under the caption Write downs & Impairments.

- On the commercially available metal inventories: These inventories are economically hedged. For the part of the inventory where Umicore obtained IFRS 9 Fair Value hedge accounting, Umicore applies the mark-to-market valuation principles. When IFRS 9 Fair Value hedge accounting cannot be obtained (see note F2.21.1 transactional risks - fair value hedging), LOCOM (lower of cost or net realizable value, meaning the estimated selling price less the estimated costs of completion and the estimated cost necessary to make the sale) is applied.
- On the other Base products, LOCOM and slow moving principles are applied. Any write-downs booked are classified under the caption Write downs & Impairments.

Consumables (gross values) are products that are not used in a direct way in the manufacturing processes (for example: packaging material). They are valued using the weighted-average cost method and are submitting to LOCOM. Any write-downs booked are classified under the caption Write downs & Impairments

Write-downs & Impairments are any impairments or write downs booked on the Base products and Consumables are captured under this line item.

Advances paid are down-payments on transactions with suppliers for which the physical delivery has not yet taken place and are booked at nominal value.

Contracts in progress are valued using the percentage-of-completion method.

2.10 Trade and other receivables

Trade and other receivables are measured at amortized cost, i.e. at the net present value of the receivable amount. Unless the impact of discounting is material, the nominal value is taken. Receivables are written down for irrecoverable amounts. All write-downs are recorded on a separate account and are netted with the carrying amounts when all chances of recovery are depleted.

Trade receivables of which substantially all the risks and rewards have been transferred are derecognized from the balance sheet. The positive fair value of derivative financial instruments is included under this heading.

Trade and other receivables are subject to an impairment methodology, referred to as the Expected Credit Loss (ECL) model, measuring the expected credit losses based on shared credit risk characteristics. Umicore has established an allowance matrix based on different customer and sector ratings, ageing balances, macro-economic and regional factors and historical loss patterns.

The Group may undertake certain linked contracts to sell or buy metal and commit to repurchase or sell the metal in the future. An asset representing the metal which the Group has committed to sell or a liability representing the obligation to repurchase the metal are recognized in trade and other receivables or

trade and other payables, respectively. Accordingly, principal cash flows in respect of sale and repurchase agreements are shown as cash flows from operating activities in the cash flow statement rather than cash flows from financing activities as long the financing is short term in time and the underlying transactions are not rolled over. Consistently interest paid and received are shown as cash flows from operating activities and presented as other income in the income statement in line with lease and factoring fees. No revenues are recognized in respect of the sale leg or costs are recognized in respect of the purchase leg if it regards the same metals and quantities engaged with the same party.

2.11 Cash and cash equivalents

Cash includes cash-in-hand and cash with banks. Cash equivalents are short-term, highly liquid investments that are readily convertible into known amounts of cash, have maturity dates of three months or less and are subject to an insignificant risk of change in value.

These items are carried in the balance sheet at nominal value or amortized cost. Bank overdrafts are included in the current liabilities on the balance sheet.

2.12 Impairment of non-financial assets

Property, plant and equipment and other non-current assets, including intangible assets and financial assets not held for trading, are reviewed for impairment whenever events or changes in circumstances indicate that the carrying amount may not be recoverable. If any such indication exists, the recoverable amount of the asset is estimated.

The recoverable amount is the higher of an asset's net selling price and value in use. To estimate the recoverable amount of individual assets the company often determines the recoverable amount of the cash-generating unit (CGU) to which the asset belongs.

Whenever the carrying amount of an asset exceeds its recoverable value, an impairment loss is recognized as an expense immediately.

A reversal of impairment losses is recognized when there is an indication that the impairment losses recognized for the asset or for the CGU no longer exist or have decreased. An impairment loss is reversed only to the extent that the asset's carrying amount does not exceed the carrying amount that would have been determined, net of depreciation or amortization, if no impairment loss had been recognized.

2.13 Share capital and retained earnings

A. Repurchase of share capital: When the company purchases some of its own shares, the consideration paid, including any attributable transaction costs net of income taxes, is deducted from the total shareholders' equity as treasury shares. No gain or loss shall be recognized in profit or loss on the purchase, sale, issue or cancellation of own shares. When such shares are subsequently sold or reissued, any consideration received is included in shareholders' equity.

B. Incremental costs directly attributable to the issue of new shares are shown in equity as a deduction from the proceeds of the issue, net of tax.

C. Dividends of the parent company payable on ordinary shares are only recognized as a liability following approval by the shareholders.

2.14 Minority interests

Minority interests include a proportion of the fair value of identifiable assets and liabilities recognized upon acquisition of a subsidiary that is attributable to third parties, together with the appropriate proportion of subsequent profits and losses.

In the income statement, the minority share in the Group's profit or loss is presented separately from the Group's consolidated result.

2.15 Provisions

Provisions are recognized in the balance sheet when:

- There is a present obligation (legal or constructive) as a result of a past event.
- It is probable that an outflow of resources will be required to settle the obligation.
- A reliable estimate can be made on the amount of the obligation.

A constructive obligation is an obligation that derives from company actions where, by an established pattern of past practice or published policies, the company has indicated that it will accept certain responsibilities and, as a result, the company has created a valid expectation that it will discharge those responsibilities.

The amount recognized as a provision is the best estimate of the expenditure required to settle the present obligation at the end of the reporting period and taking into account the probability of the possible outcome of the event. Where the effect of the time value of money is material, the amount of a provision is the present value of the expenditure expected to be required to settle the obligation. The result of the yearly discounting of the provision, if any, is accounted for as a financial result.

The main types of provision are the following:

2.15.1 Provisions for employee benefits (See note F2.16 - Employee benefits) 2.15.2 Environmental obligations

Environmental provisions are based on legal and constructive obligations from past events, in accordance with the company's environmental approach and applicable legal requirements.

The full amount of the estimated obligation is recognized at the moment the event occurs.

When the obligation is production/activity related, the provision is recognized gradually depending on normal usage/production level.

2.15.3 Other Provisions

These include provisions for litigation, onerous contracts, warranties, exposure to equity investments and restructuring. A provision for restructuring is recognized when the company has approved a detailed and formal restructuring plan and the restructuring has either commenced or has been announced publicly before the end of the reporting period. Any restructuring provision only includes the direct expenditure arising from the restructuring which is necessarily entailed and is not associated with the ongoing activities of the Company.

2.16 Employee benefits

2.16.1 Short-term employee benefits

These include wages, salaries and social security contributions, paid annual leave and sick leave, bonuses and non-monetary benefits, and are taken as an expense in the relevant period.

All company managers are eligible for bonuses that are based on indicators including personal performance and key financial targets. The amount of the bonus is recognized as an expense, based on an estimation made at the end of the reporting period.

2.16.2 Post-employment benefits (pensions, medical care)

The company has various pension and medical care schemes in accordance with the conditions and practices of the countries it operates in. The schemes are generally funded through payments to insurance companies or trustee-administered funds.

2.16.2.1 Defined benefit plans

The company has accounted for all legal and constructive obligations both under the formal terms of defined benefit plans and under the company's informal practices.

The amount presented in the balance sheet is based on actuarial calculations (using the projected unit credit method) and represents the present value of the defined benefit obligations netted with the fair value of the plan assets.

The past service costs are immediately recognized in the income statement since IAS 19 revised.

All remeasurements as a result of changes in the actuarial assumptions of post-employment defined benefit plans are recognized through other comprehensive income (OCI) in the period in which they occur and are disclosed in the statement of comprehensive income as post-employment benefit reserves.

In Belgium, in line with the Belgian legislation applicable to 2nd pillar pension plans (so-called "Law Vandenbroucke"), all Belgian Defined Contribution plans, for which the legal minimum quaranteed return is applicable have to be considered under IFRS as Defined Benefit plans. Liabilities and costs of these plans are therefore calculated following the Projected Unit Credit Method.

In Germany two defined contribution pension plans exist which are externally financed via the "Pensionskasse Degussa" (PKD) or the support fund "Unterstützungskasse Degussa" (RUK).The PKD and RUK plans secure only the inflation and quaranteed interest rate adjustments of the benefits. In recent years, due to the low interest rate environment, there is a risk of shortfalls in the self-funding at the DKP and RUK to honor these adjustments. In case of such shortfalls the PKD and RUK would call upon Umicore to contribute the extra funding required. For this reason, the inflation and guaranteed interest rate adjustments for the PKD and RUK plans are recognized as defined benefit obligation plans under IFRS. Management applied a best estimate simplified method to calculate the shortfall risk and recognized this as an additional obligation.

2.16.2.2 Defined contribution plans

The company pays contributions to publicly or privately administered insurance plans.

The payments are recognized as expenses as they fall due and as such are included in personnel costs.

2.16.3 Other long-term employee benefits (jubilee premiums)

These benefits are accrued for their expected costs over the period of employment using an accounting methodology similar to that for defined benefit pension plans. These obligations are in general valued annually by independent qualified actuaries. All remeasurements as a result of changes in the actuarial assumptions are immediately recognized in the income statement.

2.16.4 Termination benefits (pre-retirement plans, other termination obligations)

These benefits arise as a result of the company's decision to terminate an employee's employment before the normal retirement date or of an employee's decision to accept voluntary redundancy in exchange for those benefits. When they are reasonably predictable in accordance with the conditions and practices of the countries the company operates in, future obligations are also recognized.

These benefits are accrued for their expected costs over the period of employment, using an accounting methodology similar to that for defined benefit pension plans. In general, these obligations are valued annually by independent qualified actuaries. All remeasurements as a result of changes in the actuarial assumptions are immediately recognized in the income statement.

2.16.5 Equity and equity-related compensation benefits (share-based payments ifrs 2)

Different stock option and share programs allow company employees and company senior management to acquire or obtain shares of the company.

The option or share exercise price equals the market price of the (underlying) shares at the date of the grant. When the options are exercised, shares are delivered to the beneficiaries from existing own shares. For the share programs, shares are delivered to the beneficiaries from existing own shares. In both cases, the equity is increased by the amount of the proceeds received corresponding to the exercise price.

The options and shares are typically vested at the moment of the grant and their fair value is recognized as an employee benefit expense with a corresponding increase in equity as share based payment reserves. For the options, the expense to be recognized is calculated by an actuary, using a valuation model which takes into account all features of the stock options, the volatility of the underlying stock and an assumed exercise pattern.

As long as the options granted have not been exercised, their value is reported in the Statement of Changes in Equity as 'share based payments reserve'. The value of the options exercised during the period is transferred to 'retained earnings'.

2.16.6 Presentation

The impact of employee benefits on results is booked under operating results in the income statement, except for the interest and discount rate impacts which are classified under financial results.

2.17 Financial liabilities

All movements in financial liabilities are accounted for at trade date.

Borrowings are initially recognized as proceeds received, net of transaction costs.

Subsequently they are carried at amortized cost using the effective interest rate method.

Amortized cost is calculated by taking into account any issue costs, and any discount or premium on issue. Any differences between cost and redemption value are recognized in the income statement upon redemption.

As from 2019, the financial debt also contains the lease liability as per IFRS 16 (see note F2.7).

The convertible bond is considered as a compound instrument. It contains a liability and a equity component. This instrument is convertible into shares at the option of the holder. Each component is, therefore, accounted for separately. The liability element is determined by fair valuing the cash flows excluding any equity component. The residual is assigned to equity. The equity component is not remeasured, nor at conversion nor at maturity. Note, finally, that the convertible bond is a zero coupon instrument.

2.18 Trade and other payables

Trade payables are measured at amortized cost, i.e. at the net present value of the payable amount. Unless the impact of discounting is material, the nominal value is taken.

The Group may undertake certain linked contracts to sell or buy metal and commit to repurchase or sell the metal in the future. An asset representing the metal which the Group has committed to sell or a liability representing the obligation to repurchase the metal are recognized in trade and other receivables or trade and other payables, respectively. Accordingly, principal cash flows in respect of sale and repurchase agreements are shown as cash flows from operating activities in the cash flow statement rather than cash flows from financing activities as long the financing is short term in time and the underlying transactions are not rolled over. Consistently interest paid and received are shown as cash flows from operating activities and presented as other income in the income statement in line with lease and factoring fees. No revenues are recognized in respect of the sale leg or costs are recognized in respect of the purchase leg if it regards the same metals and quantities engaged with the same party.

The negative fair value of derivative financial instruments is included under this heading.

2.19 Income taxes

Taxes on profit or loss of the year include current and deferred tax. Such taxes are calculated in accordance with the tax regulations in effect in each country the company operates in.

Current tax is the expected tax payable on the taxable income of the year, using tax rates enacted at the end of the reporting period, and any adjustment to tax payable (or receivable) in respect of previous years.

The tax payable is determined based on tax laws and regulations that apply in each of the numerous jurisdictions in which the Group operates. The income tax positions taken are considered by the Group to be supportable and are intended to withstand challenge from tax authorities. However, it is accepted that some of the position can be uncertain and include interpretation of complex tax laws.

Tax provisions are recognized where the precise impact of the tax law and regulations on taxes payable with respect to profit arising in those jurisdiction is unclear and could trigger a tax adjustment represented by a future flow of funds to a tax authority or a consequent adjustment to a deferred tax asset. Uncertain tax positions are assessed periodically, implying a detail assessment following the interpretation of IFRIC 23, considering uncertainties individually or collectively, based on which approach provided the best predictions of the resolution of the uncertainties with the tax authorities; assuming that the tax authority will examine the position (if entitled to do so) and will have full knowledge of all the relevant information; and recognizing an Uncertain Tax Position or UTP (or group of UTPs) using either the most likely amount or the expected value, depending on which is thought to give a better prediction of the resolution of each (group of) UTP(s), to reflect the likelihood of an adjustment being realised on examination. The estimation and judgements in relation to uncertain tax positions are reassessed if the facts and circumstances on which those estimates and judgements were based have changed or as a result of new information that affects the initial assessments. In the measurement of the Uncertain tax positions, the Group considers the statute of limitation applicable in each jurisdiction, addionally interest and penalties are included in the assessment.

Deferred taxes are calculated using the liability method on temporary differences arising between the tax base of assets and liabilities and their carrying amounts in the financial statements. These taxes are measured using the rate prevailing at the end of the reporting period or future applicable tax rates formally announced by the government in the country the Company operates in.

Deferred tax assets are only recognized to the extent that it is probable that future taxable profit will be available against which the temporary differences can be utilized.

Deferred tax assets and liabilities are offset and presented net only if they relate to income taxes levied by the same taxation authority on the same taxable entity.

2.20 Revenue recognition

2.20.1 Revenue recognition from contracts with customers

Despite the complexity of several processes within each business unit, the performance obligations are rather straightforward, those being:

- Catalysis: the delivery of the goods in accordance with contract specifications. These specifications have been predefined and validated through samples. This latter is not considered as a significant stream for further analysis under IFRS 15.
- Recycling: the return of the refined metals back to the client in accordance with the contract either in their pure metal content or as part of a (semi)finished product and the sale of metal (including boni) towards the customers.
- Energy and Surface Technologies: the delivery of the products according to specification agreed in the sales order received.

Umicore has carefully considered the satisfaction of the performance obligation and concludes that for sales within Catalysis the revenue is recognized at a point of time when the control transfers to the customer. Despite the products being customized, the considerations for over time have not been met given that the customer does not control the production process nor has the Group the entitlement to be paid prior to delivery of the goods. The control is therefore transferred based upon the usual delivery terms (incoterms) and the customer accepting the goods upon delivery.

For sales within Recycling, the vast majority of revenue is recognized at a point in time when the control of the refined products or metal is back in the hands of the customers (refinery) or in the hands of the customers (sale of metal, including boni), embarked by the delivery.

For sales within Energy and Surface Technologies the revenue is recognized at a point in time when the control is transferred to the customer, this moment being driven by the delivery of the products according to the incoterms.

Some of the contracts do contain commercial discounts and rebates, however frequency is relatively low, and magnitude is not significant. If applicable, these are recognized in the same period the sale is established.

There are no additional warranty agreements sold to clients on top of legal requirements, therefore these are not considered as a separate performance obligation.

Consequently, the transaction price identified within the agreement is allocated in full to the performance obligation.

There are no significant contract balances where either the Group has performed the performance obligation for which no billing occurred yet, or alternatively has received advance payments for which the performance obligation has not been satisfied.

The revenue from contracts with customers is further detailed in note F7 and F9.

The assessment in view of impairment losses is captured under the expected credit loss model as detailed in note F20.

2.20.2 Government grants

A government grant is accounted for in the balance sheet initially as deferred income when there is reasonable assurance that it will be received and that the company will comply with the conditions attached to it. Grants are recognized in the income statement over the period necessary to match them with the costs they are intended to compensate.

2.21 Financial instruments

The company uses derivative financial and commodity instruments primarily to reduce the exposure to adverse fluctuations in foreign exchange rates, commodity prices, interest rates and other market risks. The company uses mainly spot and forward contracts to cover the metal and currency risk, and swaps to hedge the interest rate risk. The operations carried out on the futures markets are not of a speculative nature.

2.21.1 Transactional risks – fair value hedging

Derivative financial and commodity instruments are used for the protection of the fair value of underlying hedged items (assets, liabilities and firm commitments) and are recognized initially at fair value at trade date. The hedged items (physical commitments and commercially available inventory, primarily) are, under Umicore's economical hedging policies, initially valued at fair value by applying mark-to-market.

Where possible Umicore documents hedge accounting according to the criteria set out in IFRS 9. The bottom layer or the net position approach for the fair value hedge on groups of closed portfolios of foreign exchange risk and commodity risk exposures are applied. Under the bottom layer approach, a layer representing the nominal amount of an exposure that has historically been present on a constant and continuous basis is defined. This layer is further split into smaller unit of accounts, sublayers, which are designated as hedged items. The sublayers are then hedged by hedging instruments that are designated as hedging multiples of such sublayers.

Under the net position approach, hedging is applied based on a group of items with offsetting risk positions, the net position being the hedged item hedged by a hedging instrument.

In both approaches, it regards closed hedged portfolios in which items cannot be added, removed or replaced without treating each change as the transition to a new portfolio. In both approaches, the exposures cover a group of both on balance and off balance foreign exchange and commodity positions, that is, either trade payables, inventories and purchase commitments or trade receivables and sales commitments exposed to the variability of foreign currencies or commodity prices.

In the absence of reaching IFRS 9 hedge accounting as the bottom layer or net position criteria are not met or when no market-based derivatives are available, Umicore recognizes the hedged items at cost. Since under Umicore economical hedging policy, all transactional hedging positions are marked to market for operational risk monitoring purposes, this consists in reversing any positive fair value on these hedged items to keep them at cost (in case of inventories) or off-balance (in case of commitments). Hedges in this category are labeled as economical hedges and are not considered speculative instruments.

When there is a consistent practice of trading of commodities through the use of commodity contracts by a dedicated subsidiary or a cash generating unit (CGU) of the Group and by which the entity takes delivery of the underlying commodity to sell it within a short period after delivery for the purpose of generating a profit from short-term fluctuations in price or trading margins, the inventory is valued at fair value through the income statement and the related physical and / or commodity commitments are classified as derivatives and measured at fair value through the income statement.

2.21.2 Structural risks – cash flow hedging

Derivative financial and commodity instruments used for the protection of future cash flows are designated as hedges under cash-flow hedge accounting. The effective portion of changes in the fair value of hedging instruments which qualify as cash flow hedges are recognized in the shareholders equity as hedging reserves until the underlying forecasted or committed transactions occur (i.e. affect the income statement). At that time the recognized gains and losses on the hedging instruments are transferred from equity to the income statement.

When the underlying hedged transactions are no longer probable or the hedges become ineffective, the corresponding hedging instrument will immediately be terminated and all profits or losses including those which were deferred in equity, are immediately recognized in the income statement.

In the absence of obtaining cash-flow hedge accounting at inception as defined under IFRS 9, then the fair value of the related hedging instruments is recognized in the income statement instead of the equity and this prior to the occurrence of the underlying forecasted or committed transactions.

2.21.3 Embedded derivatives

Executory contracts (the "host contract") may sometimes contain embedded derivatives.

Embedded derivatives cause some or all of the cash flows that would otherwise be expected from the host contract, to be modified according to a specified interest rate, financial instrument price, commodity price, foreign exchange rate, or another variable. If it is concluded that such a derivative is not closely related to the host contract, it is separated from the host contract and accounted for under the rules of IFRS 9 (fair value through profit or loss). The host contract is accounted for using the rules applicable to executory contracts, which effectively means that such a contract is not recognized in the balance sheet or profit and loss before delivery on the contract takes place.

2.22 Adjustments

The adjustments to the result relate to restructuring measures, impairment of assets linked to restructuring measures and other income or expenses arising from events or transactions that are clearly distinct from the ordinary activities of the company such as discontinuation of activities and environmental provisions that relate to historical pollution or linked to non-active sites.

F3 Financial risk management

Each of the Group's activities is exposed to a variety of risks that are financial or non-financial in nature but have the potential to impact the financial performance of the Group. Financial risks include changes in metal prices, in foreign currency exchange rates, in certain market-defined commercial conditions, and in interest rates as well as credit and liquidity risks. The Group's overall risk management program seeks to mitigate risks and potential adverse effects on the financial performance of the Group, including through the use of hedging and insurance instruments.



Umicore's currency risk can be split into three distinct categories: structural, transactional and translational risks.

3.1.1 Structural risk

A portion of Umicore's revenues are structurally denominated in US dollar (USD), while many of the related operations are located outside the USD zone (particularly in Europe and Asia).

Any change in the USD exchange rate against the EUR or other currencies which are not pegged to the USD will have an impact on the results.

A large portion of such structural currency exposure derives from US dollar denominated metal prices linked to the recycling and refining operations.

An increasing portion of the structural risk exposure stems from non-metal related revenues denominated in USD such as product premiums and refining charges. This increase is particularly related to the accelerating growth in battery materials activities in Asia.

Next to the sensitivity USD vs EUR, there is also a structural and increasing sensitivity to certain other currency pairs such as the USD and EUR vs the Korean won (KRW), the Chinese yuan (CNY), the Canadian dollar (CAD), the Polish Zloty (PLN) and the Brazilian real (BRL).

Structural currency hedging

Umicore's hedging policy allows for hedging forward its structural currency exposure, either in conjunction with the hedging of structural metal price exposure or in isolation, typically when a currency exchange rate or a metal price denominated in EUR is above its historical average and at a level where attractive margins can be secured.

In relation to the structural risk, the Group assesses the hedge effectiveness through a critical terms match between the hedged item (future probable cash flows) and the hedging instrument including amount and maturity. The Group applies a prudent approach in the application of structural hedging, never up to 100 %, avoiding thereby ineffectiveness arising from difference in maturity between hedged item and hedging instrument or changes in exposure amounts.

At the end of 2021, Umicore had structural currency hedging in place relating to its non-metal related currency sensitivity including the following pairs of currencies: EUR/USD, USD/KRW, USD/CNY, EUR/CNY, EUR/PLN and USD/CAD.

3.1.2 Transactional risk

The company is also subject to transactional risks in respect of currencies, i.e. the risk of currency exchange rates fluctuating between the time the price is fixed with a customer or supplier and the time the transaction is settled. The Group's policy is to hedge the transactional risk to the maximum extent possible, primarily through forward contracts.

In relation to the transactional risk, the Group assesses the hedge effectiveness through a critical terms match between the hedged item (Balance sheet items and commitments) and the hedging instrument including amount and maturity. The Group hedges transactional risks to the maximum extent up to 100 %. Any ineffectiveness can arise from difference in maturity between hedged item and hedging instrument or changes in exposure amounts, but this is not expected to be material.

3.1.3 Translational risk

Umicore is an international company and has foreign operations which do not have the EUR as their functional currency. When the results and the balance sheets of these operations are consolidated into Umicore's Group accounts the translated amount is exposed to variations in the value of such local currencies against the EUR, predominantly the KRW, CNY, USD, BRL and ZAR. While Umicore does not systematically hedge its translational currency exposures, it may enter into ad hoc translational hedges.

3.2 Metal price risk

Umicore's metal price risk can be split into three distinct categories: structural, transactional and inventory risks.

In relation to the structural and transactional risk, for the purpose of assessing our hedge effectiveness we apply a critical terms match between the hedged item and the hedging instrument including in terms of quantity and maturity. Hedge ratio is 100% whereby our sources of ineffectiveness could be a difference in maturity between hedged item and financial instrument or a change in exposure.

3.2.1 Structural risk

Umicore is exposed to structural metal related price risks. Those risks relate mainly to the impact that metal prices have on surplus metals recovered from materials supplied for treatment or any other revenue component that fluctuates with the metal price. Umicore's policy allows hedging of such metal price exposure, typically if forward metal prices expressed in the functional currency of the concerned businesses are above their historical average and at a level where attractive margins can be secured. The extent to which metal price risk can be hedged depends on the availability of hedging instruments and sufficient associated market liquidity.

The Recycling segment recycles platinum, palladium, rhodium, gold and silver and a wide range of other base and specialty metals. In this segment the short-term sensitivity of revenues and operating profits to metals prices is particularly material. However, given the variability of the raw-material feed over



time and the variable duration of the supply contracts negotiated, it is not suitable to provide a fixed sensitivity to any particular metal. In general terms, higher metals prices tend to be earnings enhancing for the Recycling business (and vice versa). Umicore also has a metal price sensitivity in its other business segments (Catalysis, Energy & Surface Technologies) linked primarily to the revenue components that are metal price related and depending on the metals used in these segments. Also, in these cases a higher metal price tends to carry short term benefits for the profitability of each business (and vice versa). However, other commercial conditions which are largely independent of the metal price, such as product premiums, are also significant and independent drivers of revenues and profitability. Finally, sustained high metal prices could in some cases increase other risks such as the risk of substitution or the risk of supply chain disruptions.

Structural metal price hedging

For some metals Umicore hedges part of its forward metal exposure. This hedging is based on documentation demonstrating a high probability of future metal price based cash flows originating from commercial contracts. Umicore hedged part of its forward metal exposure. Over the course of 2021, Umicore entered into additional forward contracts to cover a substantial part of its expected structural price exposure to certain precious metals for 2022, 2023 and 2024. For 2022, based on the respective currently expected exposures, the following lock-ins have been secured: close to two thirds for palladium, more than half for gold, somewhat less than half for silver and close to one third for platinum and rhodium. For 2023, the expected lock-in ratios are: close to a third for gold, silver and palladium and a minor portion for platinum and rhodium. For 2024, only a minor portion was locked-in for the expected gold, silver and palladium exposures. Finally, Umicore also has hedges in place for a portion of its expected lead and copper exposure for 2022 and 2023.

In relation to the structural risk, the Group assesses the hedge effectiveness through a critical terms match between the hedged item (future probable cash flows) and the hedging instrument amongst others amount and maturity. The Group applies a prudent approach in the application of structural hedging, never up to 100 %, avoiding thereby ineffectiveness arising from difference in maturity between hedged item and hedging instrument or changes in exposure amounts.

3.2.2 Transactional risk

The Group faces transactional price risks on metals. The majority of its metal-based transactions use third party metal market references, such as the London Metal Exchange. If the underlying metal price were to be constant, the price Umicore pays for the metal contained in the raw materials purchased would be passed through to the customer as part of the price charged for the product. However, because of the lapse of time between the conversion of purchased raw materials into products and the sale of products, the volatility in the reference metal price creates differences between the price paid for the contained metal and the price received.

Accordingly, there is a transactional exposure to any fluctuations in price between the moment raw materials are purchased (i.e., when the metal is "priced in") and the moment the products are sold (i.e. when the metal is "priced out").

The Group's policy is to hedge the transactional risk to the maximum extent possible, primarily through forward contracts.

In relation to the transactional risk, the Group assesses the hedge effectiveness through a critical terms match between the hedged item (Balance sheet items and commitments) and the hedging instrument amongst others amount and maturity. The Group hedges transactional risks to the maximum extent up to 100 %. Any ineffectiveness of such hedges can arise from difference in maturity between hedged item and hedging instrument or changes in exposure amounts, but this is not expected to be material.

The accelerating growth in battery materials in recent years substantially increased the exposure to specific related metals such as cobalt or nickel. Increasing volumes, the vulnerability to the associated price volatility and in the case of certain metals such as cobalt the absence of a liquid paper forward market result in increased metal risks. For cobalt, Umicore's transactional hedging policy aims to match to a maximum extent the pricing in and pricing out of the contracted metal. Such physical back-to-back hedging allows management of transactional risks related to cobalt in a volatile market.

The Group's economical transactional metal hedging policy prescribes that mark-to-market valuation principles are initially applied on all elements of the transactional hedging position, hedging instruments as well as hedged items. Where possible this happens under IFRS 9 hedge accounting criteria. When IFRS 9 hedge accounting cannot be applied or obtained, Umicore reverses positive mark-to-markets (see note F2.21.1 - Transactional risks - fair value hedging).

3.2.3 Metal inventory risk

The Group faces metal price risks on its permanently tied up metal inventories. This risk is related to the market metal price moving below the carrying value of these inventories.

Umicore tends not to hedge against this risk.

3.3 Interest rate risk

Interest rate risks arise from changes in prevailing market interest rates, which can lead to changes in the fair value of fixed-rate debt instruments and in changes in interest payments for variable-rate debt instruments. This risk is managed by regularly assessing the debt profile of the Group and by entering into interest rate swaps. At the end of December 2021, the Group's gross financial debt stood at € 2,155 million, of which 1,621 million carrying a fixed interest rate. The outstanding interest rate swaps totaled € 40 million and will expire in 2023.

3.4 Credit risk Credit risk and concentration of credit risk

Credit risk is the risk of non-payment by any counterparty in relation to sales of goods or metal lease operations. In order to manage its credit exposure, Umicore has determined a credit policy with credit limit requests, approval procedures, continuous monitoring of the credit exposure and dunning procedure in case of delays. The credit risk resulting from sales is, to a certain extent, covered by credit insurance, letters of credit or similar secure payment means. Umicore entered into several credit insurance agreements with different insurers. One global credit insurance contract has been put in place on a world-wide basis. This contract protects the insured activities against insolvency, political and commercial risks with an individual deductible per invoice of 5% and foresees an indemnification cap set at regional or country levels. Umicore has determined that in a certain number of cases where the cost of credit insurance is disproportionate in relation to the risk to be insured, no such global credit insurance coverage will be sought. For those businesses, characterized by a significant level of customer concentration or by a specific and close relationship with the customers, specific insurance contracts may be set up for a certain period. It should be noted that some sizeable transactions, such as the sales of precious metals by Recycling, have a limited credit risk as payment before delivery is a widely accepted practice. Umicore may further limit selected credit risks by entering into without recourse receivables discounting arrangements or particularly in China by without recourse bank draft discounting. Regarding its risk exposure to financial institutions such as banks and brokers, Umicore is also establishing internal credit lines. Specific limits are set, per financial instrument, covering the various risks to which the Group is exposed when transacting with such counterparties. In accordance with IFRS 9, impairments for expected credit losses on receivables are measured and recognized, applying a simplified approach.

3.5 Liquidity risk

Liquidity risk relates to the ability to service and refinance debt (including notes issued) and to fund operations. The Group manages liquidity risk by maintaining adequate sources of funding, by ensuring a very wide diversification of such funding sources (in terms of instruments, lending banks and other institutions and in terms of geography), by matching as close as possible the maturity profiles of financial assets and liabilities and by staggering the maturities of financing sources. Sources of funding include a.o. operating cash flows, committed and uncommitted bank facilities including Chinese bank draft lines, metal lease lines, commercial paper issuance and long term private debt placements.

Please refer to note F20 and F24 for further details.

3.6 Tax risk

The tax charge included in the financial statements is the Group's best estimate of its tax liability but, until such time as audits by tax authorities are concluded, there is a degree of uncertainty regarding the final tax liability for the period. The Group's policy is to submit tax returns within the statutory time limits and engage tax authorities to ensure that the Group's tax affairs are as current as possible and that any differences in the interpretation of tax legislation and regulation are resolved as quickly as possible. Given the scale and the international nature of the Group's business, VAT, sales tax and intra- Group transfer pricing are an inherent tax risk as it is for other international businesses. Changes in tax laws or in their application with respect to matters such as transfer pricing, VAT, foreign dividends, R&D tax credits and tax deductions, could increase the Group's effective tax rate and adversely affect its net results. Based on these tax risks described, management performed a detailed assessment for uncertain tax positions which resulted in provisions recorded for these uncertainties in line with IFRIC 23.

3.7 Capital risk management

The Group's objectives when managing capital are to safeguard its ability to continue as a going concern, to provide returns for shareholders and benefits for other stakeholders, and to maintain an optimal capital structure to reduce the cost of capital.

In order to maintain or adjust the capital structure, the Group may for example adjust the amount of dividends paid to shareholders, return capital to shareholders, buy back its own shares or issue new shares.

The Group monitors its capital structure primarily on the basis of the gearing ratio and the net financial debt over adjusted EBITDA ratio. The gearing ratio is calculated as net financial debt divided by the sum of net financial debt and total Group equity. Net financial debt is calculated as non-current financial debt plus current financial debt less cash and cash equivalents.

The figures for the presented periods are detailed under the note F24 on Financial Debt.

In an ordinary course of business operating environment, the group aims for a capital structure equivalent to investment-grade credit rating status. The group could consider temporarily exceeding the equivalent level of indebtedness in the case of an extraordinary event, such as for example a major acquisition.

3.8 Strategic and operational risks

Umicore faces certain strategic and operational risks that are not necessarily financial in nature but which have the potential to impact the financial performance of the Group. These include a.o. technology risks, supply risks, the risk of product substitution by customers, security of supply related risks (such as for selected critical metals), operational risks related to critical production installations, information system availability and cyber security risks, risks from legal disputes and proceedings, risks related to metal trading activities, asset impairment risks due to a change in the asset's underlying business context & outlook, etc. In some cases a direct link exists between financial and operational risks. For example, a potential continuity of supply risk for certain critical raw materials or metals due to sudden or extreme physical supply tightness could substantially enhance financial risks and in particular metal price-related risks. In the past, certain metals such as for example rhodium or cobalt showed high price volatility

related to supply tightness considerations. Please refer to the chapter about Managing Risk Effectively for a description of some of these risks and an outline of Umicore's general approach to risk management.

We refer to our note on events after the reporting date (F38) for additional insight over the crisis in Ukraine.

3.9 COVID-19 related risks

The liquidity risks that arose in 2020 related to the Covid-19 pandemic gradually declined during 2021. Consequently, and without hampering the wide diversity of accessible funding of Umicore, the Covid-19 specific short term fundings have not been extended beyond their original expiry dates in 2021. We refer to note F24 for further details. Credit risks were closely monitored and the Group did not face material credit losses.

F4 Critical accounting estimates and judgments

Estimates and judgments used in developing and applying the consolidated entity's financial statements are continually evaluated and are based on historical experience and other factors, including the expectations of future events that may have a financial impact on the entity and that are believed to be reasonable under the circumstances. The resulting accounting estimates will, by definition, seldom equal the related actual results.

Assumptions and estimates are applied when:

- Assessing the need for and measurement of impairment losses.
- Accounting for pension obligations.
- Recognizing and measuring provisions for tax, environmental, warranty and litigation risks, product returns, onerous contracts and restructuring.
- Determining inventory write-downs.
- Assessing the extent to which deferred tax assets will be realized.
- Useful lives of Property, Plant and Equipment and Intangible assets excluding goodwill.

The critical estimates and judgments that have a significant risk of causing a material adjustment to the carrying amounts of assets and liabilities within the next financial year are listed below.

4.1 Impairment testing

The Group performs an impairment test on the carrying value of its cash generating units whenever certain external or internal triggering events suggest a potential impairment risk for such unit. The Group performs annual impairment tests on the goodwill carried by its cash generating units. An impairment loss is recognized when the carrying value exceeds the recoverable amount in a structural way. The recoverable amount is the higher of the fair value less costs to sell and its value in use in accordance with the accounting policy. This value in use is calculated by discounting related future

free cash flows (DCF model) to calculate their present value. These calculations require the use of and are sensitive to estimates and assumptions such as discount rates, exchange rates, commodity prices, future capital requirements and future operating performance. Internal estimates of future business performance are based on an analysis of a combination of factors including: market growth projections, market share estimates, competitive landscape, pricing and cost evolution. Such analysis combines both internally-generated estimates and data from external sources.

As at 31 December 2021, the carrying amount of the goodwill for the consolidated entity was € 158.6 million (€ 156.0 million in 2020). We refer to note F15 Goodwill for more details on the annual goodwill impairment testing.

4.2 Rehabilitation obligations

Provision is made for the anticipated costs of future rehabilitation of industrial sites and surrounding areas to the extent that a legal or constructive obligation exists in accordance with accounting policy 2.15. These provisions include future cost estimates associated with reclamation, plant closures, waste site closures, monitoring, demolition, decontamination, water purification and permanent storage of historical residues. These future cost estimates are discounted to their present value. The calculation of these provision estimates requires assumptions such as application of environmental legislation, plant closure dates, available technologies and engineering cost estimates and specifically related to the Hoboken Green Zone, the purchase cost of houses. A change in any of the assumptions used may have a material impact on the carrying value of rehabilitation provisions. As at 31 December 2021, the carrying amount of rehabilitation provisions was € 109.8 million (€ 108.2 million in 2020). We refer to note F29 Environmental provisions for more details.

4.3 Defined benefit obligations

An asset or liability in respect of defined benefit plan is recognized on the balance sheet in accordance with accounting policy 2.16. The present value of a defined benefit obligation is dependent upon a number of factors that are determined on an actuarial basis.

The consolidated entity determines the appropriate discount rate to be used at the end of each year. The consolidated entity's employee benefit obligations are discussed in more detail in Note F27. At 31 December 2021, a liability with respect to employee benefit obligations of € 387.2 million was recognized (€ 426.4 million in 2020).

4.4 Recovery of deferred tax assets

Deferred tax assets are recognized for deductible temporary differences, unused tax losses and fair value reserves entries only if it is probable that future taxable profits (based on Group operational plans) are available to use those temporary differences and losses. The actual tax results in future periods may differ from the estimate made at the time the deferred taxes are recognized.

Other assumptions and estimates are disclosed in the respective notes relevant to the item where the assumptions or estimates were used for measurement.

4.5 Provisions for other liabilities and charges

The fast growth of Umicore's battery materials sales for transport applications in particular is increasing the Group's exposure to the automotive industry end market. This industry has a practice of applying warranty and recall settlements related to potential product quality events (irrespective of whether any legal obligation exists). In view thereof, Umicore continued in 2021 its dedicated provisioning model for battery materials as introduced in 2018.

Additional significant provisions for other liabilities and charges are related to onerous contracts. An onerous contract provision is recognised when the unavoidable cost of meeting the obligations under the contract exceed the economic benefits expected to be received under it.

As at 31 December 2021, the carrying amount of the provisions for other liabilities and charges amount to € 89.4 million (€ 80.1 million in 2020).

4.6 Provisions for uncertainty over income tax treatments

As mentioned under the note F.2.19, Úmicore makes a detail assessment of all tax uncertainties within the Group as per IFRIC 23. In the measurement of the uncertain tax positions, the Group has considered the statute of limitation taking into account the tax law and regulations that are applied in the correspondent country, resulting in a range of three to eight years. The resolution of the tax positions taken by the Group can take considerable period of time to conclude and, in some cases, it is difficult to predict the outcome. The estimates made reflects where the Group: is involved in routine tax audits; has identified potential tax exposures related to transfer pricing; or is involved in discussions with tax authorities. The estimation of the tax liability and income tax expense includes the corresponding penalties and late payment interests. Most of the uncertain tax positions are measured using the expected value, consisting to the sum of the probability - weighted outcome of a range of potential outcomes, nevertheless the most likely amount has also been used in a limited number of uncertain tax positions. The large majority of the provision for uncertainty over tax treatments is related to various individual uncertainties whether the tax authority will accept a certain applied transfer pricing methodology or to various individual uncertainties related to the deductibility of an amount for tax purposes. Group provision for uncertainty over tax treatments at December 2021 amounting to € 101.1 million (2020 : € 114.9 million) results in a decrease of those liabilities by € 13.8 million. This provision was booked under Income Tax Payable in the consolidated balance sheet. The movement of the year corresponds from remeasurement and roll-forward of existing uncertain tax positions; reversal of uncertain tax position based on mitigation actions taken and on the expiration of the statute of limitation; and the recognition of newly uncertain tax positions. The decrease during the year 2021 mainly corresponds to conclusion of tax audits in Europe mainly related to Transfer Pricing.



F5 Group companies

Below is a list of the main operating companies included in the consolidated financial statements

		% interest in	% interest in
		2020	2021
For continuing o	perations		
Argentina	Umicore Argentina S.A.	100.00	100.00
Australia	Umicore Marketing Services Australia Pty Ltd.	100.00	100.00
Austria	Oegussa GmbH	91.29	100.00
Belgium	Todini (BE 0834.075.185)	100.00	100.00
-	Umicore Financial Services (BE 0428.179.081)	100.00	100.00
-	Umicore Marketing Services Belgium (BE 0402.964.625)	100.00	100.00
-	Umicore Specialty Materials Brugge (BE 0405.150.984)	100.00	100.00
-	Umicore Holding Belgium (BE 0731.571.921)	100.00	100.00
Brazil	Coimpa Industrial Ltda	100.00	100.00
-	Umicore Brasil Ltda	100.00	100.00
-	Clarex S.A.	100.00	100.00
-	Umicore Shokubai Brasil Industrial Ltda	60.00	60.00
-	Umicore Catalisadores Ltda.	100.00	100.00
Canada	Umicore Canada Inc.	100.00	100.00
-	Umicore Autocat Canada Corp.	100.00	100.00
-	Umicore Precious Metals Canada Inc.	100.00	100.00
China	Umicore Marketing Services (Shanghai) Co., Ltd.	100.00	100.00
-	Umicore Marketing Services (Hong Kong) Ltd.	100.00	100.00
-	Umicore Autocat (China) Co. Ltd.	100.00	100.00
-	Umicore Changxin Surface Technology (Jiangmen) Co., Ltd.	80.00	80.00
-	Jiangmen Umicore Changxin New Materials Co., Ltd.	90.00	90.00
-	Umicore Shokubai (China) Co Ltd	60.00	60.00
-	Umicore Platinum Engineered Materials (Suzhou) Co., Ltd.	100.00	100.00
-	Umicore Catalyst (China) Co., Ltd.	100.00	100.00
Denmark	Umicore Denmark ApS	100.00	100.00
Finland	Umicore Finland OY	100.00	100.00

		% interest in	% interest in
		2020	2021
France	Umicore France S.A.S.	100.00	100.00
-	Umicore IR Glass S.A.S.	100.00	100.00
-	Umicore Autocat France S.A.S.	100.00	100.00
-	Umicore Specialty Powders France S.A.S.	100.00	100.00
-	Umicore Marketing Services France S.A.S.	100.00	100.00
-	Todini France S.A.S.	100.00	100.00
Germany	Umicore AG & Co. KG (*)	100.00	100.00
-	Allgemeine Gold- und Silberscheideanstalt AG (**)	91.21	0.00
-	Agosi AG (**)	100.00	100.00
-	Umicore Galvanotechnik GmbH	91.21	100.00
-	Todini Deutschland GmbH	100.00	100.00
-	Umicore Shokubai Germany GmbH	60.00	60.00
Italy	Todini and CO. S.P.A.	100.00	100.00
India	Umicore Autocat India Pvt LTD	100.00	100.00
-	Umicore India Private Limited	100.00	100.00
-	Todini Metals and Chemicals India Private Limited	70.00	70.00
Japan	Umicore Japan KK	100.00	100.00
-	Umicore Shokubai Japan Co Ltd	60.00	60.00
South Korea	Umicore Korea Ltd.	100.00	100.00
-	Umicore Marketing Services Korea Co., Ltd.	100.00	100.00
-	Umicore Catalysis Korea Co.,Ltd. (previously: Ordeg Co, Ltd,)	100.00	100.00
Liechtenstein	Umicore Thin Film Products AG	100.00	100.00
Luxemburg	Umicore International	100.00	100.00
-	Umicore Autocat Luxembourg	100.00	100.00
-	Umicore Shokubai	60.00	60.00
Mexico	Todini Atlántica S.A. de C.V.	70.00	70.00
Netherlands	Schöne Edelmetaal BV	91.21	100.00
Philippines	Umicore Specialty Chemicals Subic Inc.	78.20	78.20
Poland	Umicore Autocat Poland sp. z o.o.	100.00	100.00

		% interest in	% interest in
		2020	2021
-	Todini Europe sp. z o.o.	70.00	70.00
-	Umicore Poland Sp. z o.o.	100.00	100.00
Portugal	Umicore Marketing Services Lusitana Metais Lda	100.00	100.00
South Africa	Umicore Marketing Services Africa (Pty) Ltd.	100.00	100.00
-	Umicore Catalyst South Africa (Pty) Ltd.	65.00	65.00
Spain	Todini Quimica Ibérica, S.L.	100.00	100.00
Sweden	Umicore Autocat Sweden AB	100.00	100.00
Switzerland	Allgemeine Suisse SA	91.21	100.00
Taiwan	Umicore Thin Film Products Taiwan Co Ltd	100.00	100.00
Thailand	Umicore Precious Metals Thailand Ltd.	91.21	100.00
-	Umicore Autocat (Thailand) Co., Ltd.	100.00	100.00
-	Umicore Shokubai (Thailand) Co., Ltd.	60.00	60.00
United Kingdom	Umicore Coating Services Ltd.	100.00	100.00
-	Umicore Marketing Services UK Ltd	100.00	100.00
USA	Umicore USA Inc.	100.00	100.00
-	Umicore Autocat USA Inc.	100.00	100.00
-	Umicore Precious Metals NJ LLC	100.00	100.00
-	Umicore Precious Metal Chemistry USA LLC	100.00	100.00
-	Umicore Precious Metals USA Inc.	100.00	100.00
-	Umicore Optical Materials USA Inc.	100.00	100.00
-	Umicore Shokubai USA Inc	60.00	60.00
-	Palm Commodities International	100.00	100.00
-	Umicore Electrical Materials USA Inc.	100.00	100.00
-	Umicore Catalyst USA, LLC	100.00	100.00

(*) Umicore AG & Co. KG, with its registered office in Hanau, Germany, is exempt from its obligation to prepare, audit and publish annual and consolidated financial statements and a management and group management report in accordance with sections 264b and 291 of the German Commercial Code (HGB).

(**) In 2021, Allgemeine Gold- und Silberscheideanstalt AG was merged with its shareholder Umicore International AG after the acquisition of the remaining 8.8% of minority shares. Umicore International AG was subsequently renamed into Agosi AG.

F6 Foreign currency measurement

For the main currencies applicable within the Group's consolidated entities and investments, the prevailing rates used for translation into the Group's presentation currency (€), are as set out below. All subsidiaries, associates and joint-ventures have as functional currency the currency of the country in which they operate, except for Element Six Abrasives (United Kingdom) where the functional currency is the US dollar.

			CLOSING RATES		AVERAGE RATES
		2020	2021	2020	2021
American Dollar	USD	1.227	1.133	1.142	1.183
UK Pound Sterling	GBP	0.899	0.840	0.890	0.860
Canadian Dollar	CAD	1.563	1.439	1.530	1.483
Swiss Franc	CHF	1.080	1.033	1.071	1.081
Japanese Yen	JPY	126.490	130.380	121.846	129.877
Brazilian Real	BRL	6.377	6.320	5.889	6.381
South African Rand	ZAR	18.022	18.063	18.765	17.477
Chinese Yuan	CNY	8.023	7.195	7.875	7.628
Thai Baht	THB	36.727	37.653	35.708	37.837
Korean Won (100)	KRW	13.360	13.464	13.456	13.541
Polish Zloty	PLN	4.560	4.597	4.443	4.565

F7 Segment information

BUSINESS GROUP INFORMATION 2020

Thousands of Euros	Notes	Catalysis	Energy & Surface Technologies	Recycling	Corporate & Unallocated	Eliminations	Total Continued
Total segment turnover		5,916,870	2,811,050	13,903,640	25,676	(1,947,120)	20,710,116
External turnover		5,783,840	2,750,410	12,150,190	25,676	-	20,710,116
Inter-segment turnover		133,030	60,640	1,753,450	-	(1,947,120)	-
Total segment revenues (excluding metals)		1,364,210	1,045,040	836,000	-	(6,530)	3,238,720
External revenues		1,362,640	1,044,940	831,140	-	-	3,238,720
Inter-segment revenues		1,570	100	4,860	-	(6,530)	-
Operating result	F9	96,338	(41,118)	310,900	(61,528)	-	304,592
Adjusted		153,688	70,422	361,815	(57,894)	-	528,030
Adjustments		(57,350)	(111,539)	(50,915)	(3,634)	-	(223,438)
Equity method companies	F9	-	4,874	-	(10,206)	-	(5,332)
Adjusted		-	4,874	-	3,457	-	8,331
Adjustments		-	-	-	(13,663)	-	(13,663)
EBIT	F9	96,338	(36,244)	310,900	(71,734)	-	299,260
Adjusted		153,688	75,295	361,815	(54,437)	-	536,361
Adjustments		(57,350)	(111,539)	(50,915)	(17,297)	-	(237,101)
Depreciation and amortisation	F9	80,496	110,457	62,949	14,040	-	267,941
Adjusted		80,496	110,457	62,949	14,040	-	267,941
EBITDA	F9	176,834	74,213	373,849	(57,694)	-	567,201
Adjusted		234,184	185,752	424,764	(40,397)	-	804,302
Consolidated total assets		3,447,098	3,376,191	1,643,894	1,568,336	(1,694,627)	8,340,892
Segment assets		3,447,098	3,337,762	1,643,894	1,466,927	(1,694,627)	8,201,054
Investments in associates		-	38,429	-	101,410	-	139,839
Consolidated total liabilities		1,814,687	1,260,177	1,215,316	3,123,485	(1,694,627)	5,719,038
Capital Employed at 31/12 of previous year	F31	1,536,950	2,323,770	405,422	175,849	-	4,441,991
Capital Employed at 30/06	F31	1,560,188	2,189,523	578,205	124,696	-	4,452,611
Capital Employed at 31/12	F31	1,727,443	2,133,138	446,861	149,138	-	4,456,580
Average Capital Employed in first half year	F31	1,548,569	2,256,646	491,813	150,273	-	4,447,301
Average Capital Employed in second half year	F31	1,643,815	2,161,330	512,533	136,917	-	4,454,596
Average Capital Employed in the year	F31	1,596,192	2,208,988	502,173	143,595	-	4,450,948
ROCE	F31	9.63%	3.41%	72.05%	-37.91%	0.00%	12.05%
Capital expenditure	F34	63,798	251,688	71,577	16,105	-	403,169
Total R&D expenditure	F9	138,742	58,269	10,186	15,766	-	222,964
R&D recognized in operating expenses	F9	125,275	43,636	10,186	11,499	-	190,596
R&D capitalized as intangible assets	F34	13,468	14,633	-	4,267	-	32,368

BUSINESS GROUP INFORMATION 2021

Thousands of Euros	Notes	Catalysis	Energy & Surface Technologies	Recycling	Corporate & Unallocated	Eliminations	Total Continued
Total segment turnover		8,154,850	3,533,830	15,609,350	34,849	(3,278,440)	24,054,439
External turnover		7,989,680	3,478,360	12,551,550	34,849	-	24,054,439
Inter-segment turnover		165,170	55,470	3,057,800	-	(3,278,440)	-
Total segment revenues (excluding metals)		1,687,430	1,173,660	1,108,140	-	(5,920)	3,963,310
External revenues		1,685,690	1,173,420	1,104,200	-	-	3,963,310
Inter-segment revenues		1,740	240	3,940	-	(5,920)	-
Operating result	F9	307,811	132,841	528,640	(90,355)	-	878,938
Adjusted		326,365	131,522	572,927	(79,981)	-	950,833
Adjustments		(18,554)	1,319	(44,287)	(10,374)	-	(71,896)
Equity method companies	F9	-	7,659	-	9,688	-	17,347
Adjusted		-	7,659	-	12,884	-	20,543
Adjustments		-	-	-	(3,197)	-	(3,197)
EBIT	F9	307,811	140,500	528,640	(80,668)	-	896,284
Adjusted		326,365	139,181	572,927	(67,097)	-	971,377
Adjustments		(18,554)	1,319	(44,287)	(13,571)	-	(75,092)
Depreciation and amortisation	F9	75,180	122,613	66,921	14,811	-	279,526
Adjusted		75,229	122,613	66,921	14,811	-	279,576
EBITDA	F9	382,991	263,114	595,562	(65,856)	-	1,175,810
Adjusted		401,595	261,795	639,848	(52,286)	-	1,250,952
Consolidated total assets		3,356,473	4,364,500	1,426,498	1,825,075	(1,927,305)	9,045,241
Segment assets		3,356,473	4,316,864	1,426,498	1,717,571	(1,927,305)	8,890,101
Investments in associates		-	47,636	-	107,504	-	155,140
Consolidated total liabilities		1,858,320	2,075,177	973,614	2,898,161	(1,927,305)	5,877,967
Capital Employed at 31/12 of previous year	F31	1,727,443	2,133,138	446,861	149,138	-	4,456,580
Capital Employed at 30/06	F31	1,846,061	2,191,046	236,829	77,507	-	4,351,443
Capital Employed at 31/12	F31	1,551,494	2,275,465	460,723	89,213	-	4,376,895
Average Capital Employed in first half year	F31	1,786,752	2,162,092	341,845	113,323	-	4,404,011
Average Capital Employed in second half year	F31	1,698,778	2,233,255	348,776	83,360	-	4,364,169
Average Capital Employed in the year	F31	1,742,765	2,197,674	345,310	98,341	-	4,384,090
ROCE	F31	18.73%	6.33%	165.92%	-68.23%	0.00%	22.16%
Capital expenditure	F34	70,052	218,674	83,097	16,774	-	388,596
Total R&D expenditure	F9	141,592	63,518	13,164	26,939	-	245,213
R&D recognized in operating expenses	F9	132,726	49,903	13,164	21,590	-	217,383
R&D capitalized as intangible assets	F34	8,867	13,614	-	5,349	-	27,830

GEOGRAPHICAL INFORMATION 2020

Thousands of Euros	Notes	Europe	of which Belgium	Asia-Pacific	North America	South America	Africa	Total
Total segment turnover		11,115,296	156,181	5,016,465	3,881,278	561,411	135,667	20,710,116
Total non current assets		1,389,895	564,209	1,109,045	112,075	45,590	4,726	2,661,333
Capital expenditure	F34	274,403	100,914	104,880	8,829	14,750	306	403,169
Employee compensation & benefits		573,311	317,820	124,557	72,255	20,139	8,220	798,481
Income taxes		44,445	596	1,776	(6,601)	16,447	3,064	59,131

GEOGRAPHICAL INFORMATION 2021

Thousands of Euros	Notes	Europe	of which Belgium	Asia-Pacific	North America	South America	Africa	Total
Total segment turnover		12,676,355	213,003	6,422,284	3,761,205	1,010,605	183,991	24,054,439
Total non current assets		1,487,101	592,688	1,200,470	122,993	51,229	4,283	2,866,076
Capital expenditure	F34	253,053	102,104	108,851	16,984	9,213	496	388,596
Employee compensation & benefits		613,163	329,680	138,417	71,916	21,497	8,147	853,140
Income taxes		88,603	42,066	40,374	17,440	28,557	4,070	179,044

Segment information is presented in respect of the Group's business segments as defined below.

The segment results, assets and liabilities include items directly attributable to the segment as well as those elements that can reasonably be allocated to a segment.

The pricing of inter-segment sales is based on an arm's length transfer pricing system. In the absence of relevant market price references, 'cost plus' mechanisms are used. Segment turnover and revenue (without metals) is taking into account intragroup operations. Those are mainly related to recycling services and sales of refined metal from the recycling segment to the other group segments and are important to assess the performance of the segments concerned.

Since these transactions cannot be considered as external operations, they are eliminated at the Group level, to present a net position.

The Group's business segments have no single external customer that amounts to 10 per cent or more of the Group's revenue.

Umicore determined segments as the accurate level of detail to split the product sales since the underlying business, competences and technologies, application and product characteristics and customer portfolio within each individual segment are similar. Moreover, obtaining information at a more disaggregated level would result in excessive costs and efforts compared to the added value for an external reader of the consolidated financial statements.

BUSINESS GROUPS

The Group is organized into the following reporting segments:

CATALYSIS

The segment in 2021 includes the Automotive Catalysts, Precious Metals Chemistry and Fuel Cell & Stationary Catalysts business units. Catalysis provides automotive catalysts for gasoline and diesel light and heavy-duty diesel applications, including on-road and non-on road vehicles. The business group also offers stationary catalysis for industrial emissions control and produces precious metals-based compounds and catalysts for use in fuel cell applications and in the pharmaceutical and fine chemicals industries.

ENERGY & SURFACE TECHNOLOGIES

The segment includes the Cobalt & Specialty Materials, Electro-Optic Materials, Metal Deposition Solutions and Rechargeable Battery Materials business units. Energy & Surface Technologies' products are found in applications used in the production and storage of clean energy and in a range of applications for surface technologies that bring specific properties and functionalities to end products. All the activities offer a closed loop service for the customers. This segment includes the associates Ganzhou Yi Hao Umicore Industries and Jiangmen Chancsun Umicore Industry.

RECYCLING

The segment consists of the business units Precious Metals Refining, Jewelry & Industrial Metals and Precious Metals Management. Recycling treats complex waste streams containing precious and other specialty metals. The recycling operations can recover 20 of these metals from a wide range of input materials ranging from industrial residues to end-of-life materials.

Other activities include production of precious metals-based materials that are essential for applications as diverse as high-tech glass production, electrics and electronics.

CORPORATE

Corporate covers corporate activities, shared operational functions and the Group's Research, Development & Innovation unit. Umicore's shareholdings in Element Six Abrasives and legsa are also included in Corporate.

In the geographical segment information, the figures presented as non-current assets exclude the amounts for long term investments, non-current loans granted, deferred tax assets and assets for employee benefits as required by IFRS 8. Performance of the segments is reviewed by the chief operating decision maker based on the adjusted EBIT/ operating result. As illustrated in the table above, the difference between the adjusted operating result and the operating result as presented in the Consolidated income statement consists of the adjustments for which definitions are given in the glossary.

Associate companies are allocated to the business group with the closest fit from a market segment perspective.

F8 Business combinations and acquisitions of associates and joint ventures

There were no business combination during the year 2021.

F9 Result from operating activities

Thousands of Euros	2020	2021
Sales	20,565,648	23,901,842
Services	144,468	152,597
Turnover	20,710,116	24,054,439
Re-invoicing of costs to third parties	42,654	61,307
Operating grants	19,865	26,031
Royalties and license fees	6,168	11,264
Emission rights income	5,207	8,945
Insurance recovery	21,580	18,406
Various interests and penalties for late payments	1,167	880
Gains on disposals of assets	2,647	1,057
Translation difference on intercos Elimination	(25,567)	(1,361)
Tax incentive	4,247	5,294
Tax credit	-	39,779
Other	2,633	5,318
Other operating income	80,602	176,919
OPERATING INCOME OF CONTINUING OPERATIONS	20,790,718	24,231,358
Raw materials and consumables used	(18,819,323)	(21,644,346)
Payroll and related benefits	(798,481)	(853,140)
Depreciation of fixed assets	(267,941)	(279,526)
Impairment loss on fixed assets	(87,543)	(48,504)
Inventory and bad debt provisions	(7,013)	(10,747)
Depreciation and impairment results	(362,497)	(338,777
Services and outsourced refining and production costs	(370,526)	(422,798)
Royalties, licence fees, consulting and commissions	(41,606)	(57,820)
Taxes other than income taxes	(19,332)	(22,960)
Provisions (increase/use and reversals)	(74,128)	(13,477)
Capital losses on disposal of assets	(996)	(258)
Other operating expenses	(506,588)	(517,313
OPERATING EXPENSES OF CONTINUING OPERATIONS	(20,486,888)	(23,353,576)

Turnover refers to turnover from customers as per IFRS 15. The further disaggregation is detailed in note F7. As described in the accounting policy 2.20, the revenue from contracts with customers are recognized at a point in time. The increase in turnover in 2021 is mainly related to the increase of metal prices and a volume effect.

Services mainly include the revenues from tolling contracts.

Tax credit in 2021 mainly concerns the tax credit received in Brazil resulting from a landmark ruling by the Brazilian Supreme Court in May of this year covering multiple years.

The increase in raw materials and consumables used is mainly related to the increase of metal prices and a volume effect. Raw materials and consumables used include primarily the value of the purchased metals. Utilities (water, gas and electricity) represent for € 144.2 million in 2021 (€ 99.7 million in 2020) for continuing operations.

The impairment losses of fixed assets have decreased compared to 2020. In 2021, those impairments are mainly related to the decision to stop a development program in Precious Metals Chemistry linked to the semiconductor industry and to impairment of Intellectual Properties linked to the closure of Automotive Catalysts' heavy-duty diesel operations in Frederikssund, Denmark.

The line provisions contains the movements in the environmental provisions and in the provisions for other liabilities and charges which are detailed in the notes F29 and F30.

R&D EXPENDITURE

Thousands of Euros	Notes	2020	2021
R&D recognized in Other operating expenses		190,596	217,383
R&D capitalized as intangible assets	F14	32,368	27,830
TOTAL R&D EXPENDITURE FOR CONTINUING OPERATIONS		222,964	245,213

Total R&D expenditure for continuing operations was € 245.2 million in the fully consolidated companies in 2021 (€ 223.0 million in 2020). The part of the R&D expenditures that is directly recognized in operating expenses amounts to € 217.4 million in 2021 (€ 190.6 million in 2020).

ADJUSTMENTS INCLUDED IN THE RESULT

		2020			2021		
Thousands of Euros	Notes	Total	Adjusted	Adjustments	Total	Adjusted	Adjustments
Turnover		20,710,116	20,710,116		24,054,439	24,054,439	-
Other operating income		80,602	79,494	1,108	176,919	137,133	39,786
Operating income		20,790,718	20,789,611	1,108	24,231,358	24,191,572	39,786
Raw materials and consumables used		(18,819,323)	(18,781,872)	(37,451)	(21,644,346)	(21,644,346)	-
Payroll and related benefits		(798,481)	(798,131)	(350)	(853,140)	(852,147)	(993)
Depreciation and impairment results		(362,496)	(274,435)	(88,062)	(338,777)	(298,187)	(40,590)
of which depreciation and amortisation		(267,941)	(267,941)	-	(279,526)	(279,576)	50
Other operating expenses		(506,587)	(407,485)	(99,102)	(517,313)	(446,256)	(71,057)
Operating expenses		(20,486,887)	(20,261,923)	(224,964)	(23,353,576)	(23,240,935)	(112,641)
Income from other financial investments		761	342	419	1,156	196	959
Result from operating activities		304,592	528,030	(223,438)	878,938	950,833	(71,896)
Net contribution from equity method companies		(5,332)	8,331	(13,663)	17,347	20,543	(3,197)
EBIT		299,260	536,361	(237,101)	896,284	971,377	(75,092)
EBITDA		567,201	804,302	(237,101)	1,175,810	1,250,952	(75,142)
Finance cost	F11	(104,202)	(104,202)	-	(90,292)	(99,586)	9,294
Income taxes	F13	(59,131)	(102,729)	43,598	(179,044)	(196,309)	17,266
Net result		135,927	329,430	(193,503)	626,949	675,482	(48,533)
of which minority shares		5,397	7,023	(1,626)	7,990	7,990	-
of which group shares		130,530	322,407	(191,877)	618,959	667,492	(48,533)

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ADJUSTMENTS PER SEGMENT AND NATURE INCLUDED IN THE RESULT

			2020					2021		
Thousands of Euros	Total	Catalysis	Energy & Surface Technologies	Recycling	Corporate & Unallocated	Total	Catalysis	Energy & Surface Technologies	Recycling	Corporate & Unallocated
Other operating income	1,108	-	1,108	-	-	39,786	30,312	1,877	7,597	-
Operating income	1,108	-	1,108	-	-	39,786	30,312	1,877	7,597	-
Raw materials and consumables used	(37,451)	-	(37,451)	-	-	-	-	-	-	-
Payroll and related benefits	(350)	-	(350)	-	-	(993)	(993)	-	-	-
Depreciation and impairment results	(88,062)	(36,565)	(51,161)	27	(362)	(40,590)	(40,406)	-	(185)	-
Other operating expenses	(99,102)	(20,785)	(23,781)	(50,942)	(3,594)	(71,057)	(7,467)	(1,522)	(51,699)	(10,370)
Operating expenses	(224,964)	(57,350)	(112,743)	(50,915)	(3,957)	(112,641)	(48,866)	(1,522)	(51,883)	(10,370)
Income from other financial investments	419	-	96	-	322	959	-	964	-	(4)
Result from operating activities	(223,438)	(57,350)	(111,539)	(50,915)	(3,634)	(71,896)	(18,554)	1,319	(44,287)	(10,374)
Net contribution from equity method companies	(13,663)	-	-	-	(13,663)	(3,197)	-	-	-	(3,197)
EBIT	(237,101)	(57,350)	(111,539)	(50,915)	(17,297)	(75,092)	(18,554)	1,319	(44,287)	(13,571)
Related to restructuring	(128,190)	(22,702)	(99,960)	-	(5,528)	(33,879)	(31,281)	41	110	(2,749)
Related to environment	(55,788)	-	-	(50,915)	(4,873)	(58,251)	-	-	(48,836)	(9,415)
Related to asset impairments	(45,303)	(28,628)	(8,219)	-	(8,456)	(17,857)	(17,585)	-	-	(272)
Other	(7,820)	(6,020)	(3,360)	-	1,560	34,895	30,312	1,278	4,439	(1,134)

Adjustments had a negative impact of \leqslant 75 million on EBIT of which \leqslant 39 million was already accounted for in the first half. Environmental-related provisions took up \leqslant 58 million of this total with additional provisions for the creation of a green zone neighboring the Hoboken plant accounting for the bulk. This reflects the success of the voluntary offer to purchase neighboring houses. The creation of the green zone is a key building block of the site's plan to further reduce the impact on its neighbors. Taking into account the use of the provision over the period, the total provision for the creation of the green zone as at 31 December 2021 amounted to \leqslant 44 million.

EBIT adjustments also include € 34 million of restructuring charges of which € 23 million have been accounted for in the second half and are mainly related to a decision to stop a development program in Precious Metals Chemistry linked to the semiconductor industry.

Impairment charges took up € 18 million of the total EBIT adjustments and were close to entirely accounted for in the first half and were mostly linked to the closure of Automotive Catalysts' heavy-duty diesel operations in Frederikssund, Denmark as well as the impairment of certain related IP.

A positive EBIT adjustment of \in 40 million was recognized related to a tax credit in Brazil resulting from a landmark ruling by the Brazilian Supreme Court in May of this year covering multiple years.

Including positive adjustments to financial and tax items of \in 9 million and \in 17 million respectively, the total adjustments to the Group's net result over the period corresponded to a negative impact of \in 49 million.



F10 Payroll and related benefits

(798,481)	(853,140
(42,768)	(50,229)
(3,164)	(6,063
(3,486)	(3,628
(4,381)	(3,064
(10,299)	(16,893
(21,438)	(20,581
(97,698)	(108,765
(658,016)	(694,148
(10,108)	(14,255
(7,607)	(10,189
(50,594)	(28,834
(589,707)	(640,870
2020	2021
	(589,707) (50,594) (7,607) (10,108) (658,016) (97,698) (21,438) (10,299) (4,381) (3,486) (3,164)

AVERAGE HEADCOUNT IN CONSOLIDATED COMPANIES

2020	2021
Executives and managerial staff 2,009	2,045
Non managers 8,997	8,910
Total for continuing operations 11,006	10,955

SHARE-BASED PAYMENTS

ousands of Euros	Notes	2020	2021
Date of grant		10-02-2020	11-02-202
Share price at the date of grant (Belgium & Other)	F28	42.05	47.47
Share price at the date of grant (France)	F28	NA	N
Number of stock options granted	F28	1,168,375	1,108,500
Valuation model		Present Econ	omic Value
Assumed volatility (% pa)		25.00	27.50
Risk-free interest rate (% pa)		(0.620)	(0.710
Dividend increase (% pa)		10.00	10.00
Rate of pre-vesting forfeiture (%pa)		NA	N/
Rate of post-vesting leaving (%pa)		7.50	5.00
Minimum gain threshold (% pa)		15.00	15.00
Proportion who exercise given minimum gain achieved (% pa)		100.00	100.00
Fair value per granted instrument determined at the grant date (EUR)		6.46	8.56
otal fair value of options granted		7,548	9,489
52.000 shares granted at 42,05 EUR		2,187	-
10.000 shares granted at 37,33 EUR		373	-
10.000 shares granted at 49,72 EUR		-	497
52.000 shares granted at 47,08 EUR		-	2,448
48.500 shares granted at 37,55 EUR		-	1,821
otal fair value of shares granted		2,560	4,767
ARE-BASED PAYMENTS		10,108	14,255

The Group recognized a share-based payment expense of € 14.3 million during the year for continuing operations.

The part of this expense related to stock options is calculated by an external actuary using the Present Economic Value model which takes into account all features of the stock option plans and the volatility of the underlying stock. This volatility has been determined using the historical volatility of the Group shareholders' return over different averaging periods and different terms. For the calculation of the option value based on the lattice model, weekly steps were introduced, therefore focusing on a weekly term of volatility. The retained volatility assumption was set at 27.5% to reflect the increase of observed volatility. No other market condition has been included in the basis of calculation of fair market value.

The free share part of the expense is valued at the market price of the shares at the grant date. In 2021, shares have been granted mainly to top management resulting in an extra charge of \leq 4.8 million for continuing operations.

The defined contribution plans of the Group in some countries like the USA, Canada, South Africa and Germany are directly recognized in the Consolidated income statement under the line "Contribution to defined contribution plans".

The cash discounts that the authorities give back to Umicore Belgium on the social security contributions, relating to incentives regarding a.o. shift premiums, overtime and R&D are disclosed under the item "Employer's social security".

F11 Finance cost - net

Thousands of Euros	2020	2021
Interest income	3,749	12,962
Interest expenses	(61,659)	(64,460)
Discounting of non-current provisions	(3,146)	(3,046)
Foreign exchange gains and losses	(30,445)	(23,480)
Other financial income	295	942
Other financial expenses	(12,996)	(13,210)
TOTAL OF CONTINUING OPERATIONS	(104,202)	(90,292)

All interest income and expenses are recognized using the effective interest rate method.

The 2021 interest income reached \leq 13.0 million benefiting from the \leq 9.3 million impact related to the interests on the tax credit in Brazil, resulting from a landmark ruling by the Brazilian Supreme Court in May 2021 and covering multiple years. Those related interests have been taken in adjustments (see note F9). The interest expenses amounted to € 64.5 million. Those expenses included € 10.0 million of interest expenses (theoretical phantom interests) on the debt component of the convertible debt (€ 5.2 million in 2020) and € 1.0 million of interests related to leases as per IFRS 16.

The discounting of non-current provisions relates mainly to employee benefits provisions and to a lesser extent to environmental provisions. This amount is influenced by the present value of these liabilities, which in turn is influenced by changes in the discount rate, by the cash-out profile and by the recognition of new non-current liabilities. Most of the discounting results in 2021 were booked in Germany and to a lesser extent in Belgium.

Foreign exchange results, mainly explained by the cost of forward points in hedging instruments, include realized exchange results and the unrealized translation adjustments on monetary items using the closing rate of the period. They also include fair value gains and losses on other currency financial instruments (see Note F33).

Other financial expenses include payment discounts, bank expenses and other financial fees incurred.

F12 Income from other financial investments

Thousands of Euros	2020	2021
Capital gains and losses on disposal of financial investments	517	946
Dividend income	230	210
Interest income from financial assets	14	-
TOTAL FOR CONTINUING OPERATIONS	761	1,156

F13 Income taxes

Thousands of Euros	2020	2021
Income tax expense		
Recognized in the income statement		
Current income tax	(115,672)	(201,870)
Deferred income tax	56,542	22,826
Total tax expense for continuing operations	(59,131)	(179,044)
RELATIONSHIP BETWEEN TAX EXPENSE (INCOME) AND ACCOUNTING PROFIT		
Result from operating activities	304,592	878,938
Financial result	(104,202)	(90,292)
Profit (loss) before income tax of consolidated companies for continuing operations	200,390	788,646
Weighted average theoretical tax rate (%)	25.48	24.77
Income tax calculated at the weighted average theoretical tax rate for continuing operations	(51,055)	(195,312)
Tax effect of :		
Expenses not deductible for tax purposes	(4,383)	(7,395)
Tax-exempted revenues	3,457	303
Dividends from consolidates companies & Associates	(267)	(66)
Gains & Losses taxed at a reduced rate	37	36
Tax incentives and tax holidays	14,563	26,903
Tax computed on other basis	(1,657)	563
Utilisation of previously unrecognized tax losses	4,349	4,130
Write down (or reverse of previous write down) of DTA	6,050	(6,475)
Change in applicable tax rate	(31)	(300)
Other tax credits (excluding R&D tax credits)	958	1,058
Non recoverable foreign withholding taxes	(12,003)	(7,943)
Previous years adjustments	988	(3,299)
Other (including IFRIC 23)	(20,135)	8,753
TAX EXPENSE AT THE EFFECTIVE TAX RATE FOR THE YEAR	(59,129)	(179,044)

The weighted average theoretical tax rate evolved from 25.5% in 2020 to 24.8% in 2021 for the continuing operations. Excluding the impact of adjustments, the adjusted effective tax rate for 2021 was 23.1%. This compares to the 24.2% in 2020.

F14 Intangible assets other than goodwill

Thousands of Euros	Development expenses capitalized	Concessions, patents, licences, etc.	Software	CO2 emission rights	Other intangible assets	Total
At the beginning of previous year						
Gross value	151,880	101,229	149,792	19,213	85,216	507,329
Accumulated amortisation	(98,113)	(46,499)	(122,842)	-	(25,721)	(293,176)
Net book value at the beginning of previous year	53,768	54,730	26,949	19,213	59,494	214,154
. acquisition through business combinations	-	82	40	-	(23)	98
. additions	13,784	50	5,404	-	24,821	44,060
. disposals	-	(2,336)	(3)	(4,009)	(217)	(6,564)
. amortisation charged (included in "Depreciation and impairments")	(12,708)	(9,334)	(8,267)	-	(4,901)	(35,209)
. impairment losses recognized (included in "Depreciation and impairments")	(17,299)	(8,529)	(1,485)	-	-	(27,313)
. emission rights allowances	-	-	-	697	-	697
. translation differences	(450)	(6)	(346)	(3)	(908)	(1,712)
. other movements	1,422	50	4,401	(0)	(3,186)	2,687
At the end of previous year	38,517	34,707	26,694	15,898	75,081	190,897
Gross value	157,704	98,840	150,989	15,898	103,637	527,068
Accumulated amortisation	(119,187)	(64,134)	(124,295)	-	(28,556)	(336,172)
Net book value at the end of previous year	38,517	34,707	26,694	15,898	75,081	190,897
. additions	8,867	842	1,435	8	25,702	36,854
. disposals	(553)	-	(26)	0	(45)	(623)
. amortisation charged (included in "Depreciation and impairments")	(9,424)	(8,890)	(8,119)	-	(4,691)	(31,123)
. impairment losses recognized (included in "Depreciation and impairments")	(5,099)	(17,381)	(274)	-	(214)	(22,968)
. emission rights allowances	-	-	-	1,979	-	1,979
. translation differences	(145)	5	329	(1)	533	722
. other movements	3,843	3,507	8,463	0	(10,287)	5,526
At the end of the year	36,006	12,790	28,503	17,884	86,079	181,263
Gross value	156,213	104,755	158,921	17,884	116,012	553,785
Accumulated amortisation	(120,207)	(91,965)	(130,418)	-	(29,932)	(372,522)
NET BOOK VALUE FOR CONTINUING OPERATIONS	36,006	12,790	28,503	17,884	86,079	181,263

In 2021, additions amounted to \leqslant 36.9 million and mainly contain capitalized expenses in internally generated developments for \leqslant 27.8 million (see note F9), of which \leqslant 19.0 million included in "Other intangible assets" as "Intangible assets under construction". Additions also contain capitalized expenses (studies, project costs, IT) related to the new cathode materials plant in Poland for around \leqslant 4.0 million. Impairment losses are mainly linked to impairment of IP's following the closure of Automotive Catalysts' heavy-duty diesel operations in Frederikssund, Denmark. Net increase of emission right allowances amounts to \leqslant 1.9 million in 2021 (new grants \leqslant 7.8 million and settlement \leqslant -5.9 million). Other movements mainly include the transfer between intangible assets in progress (included under "other intangible assets") and the other categories of intangible assets and transfers from tangible assets. The other

intangible assets category contains intangible assets in progress for \leq 69.2 million (mainly capitalized development costs) but also some business portfolio and customers' list acquired for \leq 16.3 million. There are no pledges on, or restrictions to, the title on intangible assets, other than disclosed in note F35.

F15 Goodwill

Thousands of Euros	31/12/2020	31/12/2021
At the end of the previous year		
Gross value	169,915	165,627
Accumulated impairment losses	(13,210)	(9,637)
Net book value at the end of previous year	156,705	155,990
. acquisition through business combinations	1,499	-
. translation differences	(2,214)	2,595
At the end of the year	155,990	158,585
Gross value	165,627	168,915
Accumulated impairment losses	(9,637)	(10,330)
NET BOOK VALUE FOR CONTINUING OPERATIONS	155,990	158,585

This table includes goodwill related to fully consolidated companies only. Goodwill relating to companies accounted for using the equity method is detailed in note F17.

The change of the period relates only to translation differences.

The goodwill accounted in each of the CGU groups, but summarized by segment, is as follows:

		Energy & Surface		
Thousands of Euros	Catalysis	Technologies	Recycling	Total
31/12/2020	49,999	87,737	18,254	155,990
31/12/2021	49,988	90,264	18,333	158,585

Management tests annually whether goodwill has suffered any impairment in accordance with the accounting policy stated in note F2. Such impairment tests are performed at a cash generating unit level, which may vary in scope from a total business unit to an individual plant but never a full segment scope. The recoverable amounts of cash-generating units to which goodwill is allocated have been determined based on value-in-use calculations by means of discounted cash flow modelling on the basis of the Group's operational plans which typically look forward 5 years, followed by a long term projection. On macroeconomic and external indicators such as currency and metal prices, the testing uses typically prevailing market conditions at the time the plans are drafted. The rates used are typically the ones observed on international exchanges in the last quarter of the year. The 2021 goodwill impairment testing indicated sufficient headroom in the respective cash generating units and hence no goodwill impairments were recognized. The 2021 impairment testing used an average tax rate of 25.0% (unchanged versus

2020) and a weighted average cost of capital post-tax of 7% (unchanged versus 2020) . A uniform WACC rate was applied across cash generating units with unit-specific risk factors considered to be reflected in the underlying cash flow projections. Terminal values were determined on the basis of a perpetual growth rate of on average 2% (same as in 2020). Inflation rates were based on guidance from national and international institutes such as the NBB or ECB.

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F16 Property, plant and equipment

Thousands of Euros	Land and buildings	Plant, machinery and equipment	Furniture and vehicles	Con Other tangible assets	struction in progress and advance payments	Total
At the beginning of previous year without leasing						
Gross value	1,189,490	2,402,378	242,362	15,070	461,369	4,310,669
Accumulated depreciation	(530,148)	(1,553,922)	(166,862)	(13,950)	-	(2,264,881)
Net book value at the beginning of previous year without leasing	659,343	848,457	75,500	1,120	461,369	2,045,788
. acquisition through business combinations	3,510	(798)	548	-	876	4,136
. additions	20,663	32,588	7,852	364	330,009	391,475
. disposals	(10)	(938)	(176)	(20)	(134)	(1,278)
. depreciations (included in "Depreciation and impairments")	(43,501)	(148,434)	(19,154)	(194)	-	(211,282)
. net impairment losses recognized (included in "Depreciation and impairments")	(15,053)	(44,416)	(654)	(312)	-	(60,435)
. translation differences	(18,017)	(20,505)	(2,321)	(54)	(16,266)	(57,164)
. other movements	88,832	154,714	20,807	-	(267,820)	(3,466)
At the end of previous year without leasing	695,767	820,668	82,403	903	508,033	2,107,775
At the beginning of the year without leasing						
Gross value	1,242,294	2,478,662	260,590	23,522	508,033	4,513,101
Accumulated depreciation	(546,526)	(1,657,994)	(178,187)	(22,619)	-	(2,405,326)
Net book value at the beginning of the year without leasing	695,767	820,668	82,403	903	508,033	2,107,775
. additions	76,361	42,349	14,979	16,148	229,435	379,272
. disposals	(446)	(207)	(111)	(312)	(113)	(1,189)
. depreciations (included in "Depreciation and impairments")	(47,462)	(159,613)	(20,906)	(331)	-	(228,312)
. net impairment losses recognized (included in "Depreciation and impairments")	(462)	(24,543)	(743)	312	-	(25,436)
. translation differences	16,705	19,803	600	39	24,674	61,822
. other movements	50,119	183,342	10,746	40	(249,089)	(4,842)
At the end of the financial year without leasing	790,583	881,799	86,969	16,799	512,941	2,289,090
Gross value	1,382,096	2,703,328	276,986	39,340	512,940	4,914,690
Accumulated depreciation	(591,513)	(1,821,529)	(190,017)	(22,540)	-	(2,625,599)
NET BOOK VALUE FOR CONTINUING OPERATIONS WITHOUT LEASING	790,583	881,799	86,970	16,799	512,940	2,289,091

Thousands of Euros	Land and buildings	Plant, machinery and equipment	Furniture and vehicles	Con Other tangible assets	nstruction in progress and advance payments	Total
Gross value		135		500	davance payments	66,152
	47,341		18,175	500		•
Accumulated depreciation	(11,496)	(58)	(5,713)			(17,268)
Net book value at the beginning of previous year for leasing	35,845	77	12,462	500	<u>-</u>	48,884
. additions	17,901	1,034	8,578	144		27,657
. depreciations (included in "Depreciation and impairments")	(12,726)	(724)	(6,765)	(142)	-	(20,357)
. translation differences	(1,133)	(10)	(99)	(0)	-	(1,242)
. transfer	979	(35)	-	-	-	944
At the end of previous year for leasing	40,866	342	14,176	502	<u> </u>	55,886
Leasing at begining of the year						
Gross value	67,193	1,055	24,865	637	-	93,750
Accumulated amortisation	(26,327)	(713)	(10,689)	(135)	-	(37,864)
Net book value at the beginning of the year for leasing	40,865	342	14,176	502	-	55,886
. additions	16,638	1,274	7,662	-	-	25,573
. depreciations (included in "Depreciation and impairments")	(11,907)	(771)	(7,330)	(105)	-	(20,113)
. translation differences	1,336	2	40	0	-	1,378
. transfer	(681)	-	1	-	-	(680)
At the end of the financial year for leasing	46,251	847	14,549	397	-	62,043
Gross value	68,958	2,310	28,436	625	-	100,329
Accumulated amortisation	(22,707)	(1,463)	(13,888)	(228)	-	(38,286)
NET BOOK VALUE FOR LEASING	46,251	847	14,549	397	-	62,044
Tangible asset including leasing						
Gross value	1,451,054	2,705,637	305,423	39,965	512,940	5,015,019
Accumulated amortisation	(614,220)	(1,822,992)	(203,904)	(22,769)	-	(2,663,885)
NET BOOK VALUE FOR CONTINUING OPERATIONS INCLUDING LEASING	836,834	882,646	101,519	17,196	512,940	2,351,134

Capital expenditures totaled € 389 million (including additions on intangible assets but without the capitalized R&D costs as per Umicore's capital expenditures definition), compared with € 403 million the previous year. Energy & Surface Technologies accounted for close to 60 % of the Group's capital expenditures, driven by Rechargeable Battery Materials' European expansion investments. This implies a temporary slow-down in Energy & Surface Technologies' capital expenditures compared to 2020. In Catalysis and Recycling, capital expenditures only slightly increased compared to the low spending levels of 2020. In Catalysis, Automotive Catalysts continued to focus on production footprint optimization investments and targeted capacity expansions. In Recycling, the capital expenditures increase was earmarked for environmental and safety-related investments in Precious Metals Refining.

Impairments on property, plant and equipment are mainly related to a decision to stop a development program in Precious Metals Chemistry linked to the semiconductor industry.

The line 'other movements' mainly includes the transfer between tangible assets in progress and the other categories and to a lesser extent transfer to intangible assets.

There are no pledges on, or restrictions to, the title on property, plant and equipment, other than disclosed in note F35.

F17 Investments accounted for using the equity method

The investments in companies accounted for using the equity method are composed mainly of the following associates and joint ventures:

	Country	Measurement currency	Percentage	Percentage
			2020	2021
For continuing operations				
Associates				
IEQSA	Peru	PEN	40.00	40.00
Ganzhou Yi Hao Umicore Industries	China	CNY	40.00	40.00
Element Six Abrasives	United Kingdom	USD	40.22	40.22
Jiangmen Chancsun Umicore Industry Co.,LTD	China	CNY	40.00	40.00

The elements recognized in Other Comprehensive Income for investments accounted for using the equity method are mainly related to employee benefits reserves and translation reserves.

Investments in associates are accounted for in accordance with the equity method and represent approximately 1.7% of Umicore's consolidated balance sheet total. Umicore has no individual material investments in associates. Considering the objectives of the IFRS 12 disclosure requirements, the most significant associate is Element Six Abrasives, in which Umicore holds 40.22%. Element Six Abrasives is a synthetic diamond materials group, part of De Beers Group, its majority shareholder. The group operates worldwide with primary manufacturing facilities in Ireland, Germany, the UK, the US and South Africa. Element Six Abrasives is on an adjusted results basis a profitable group, generating positive cash flow. The group's functional currency is USD. Umicore is represented in the Board of Directors and the audit committee of Element Six Abrasives. Besides its equity share in this company, Umicore has no other commitments, guarantees or obligations arising from its involvement in this associate. Adjustments and material contingencies, if any, in respect of the financial statements of Element Six Abrasives, are separately disclosed under the relevant captions of Umicore's consolidated financial statements (see note F36 for pending file qualified as contingent liability at Element Six Abrasives and note F9 for adjustments).

Thousands of Euros	Net book value	Goodwill	Total
At the end of previous year	94,683	45,156	139,839
. profit for the year	17,347	-	17,347
. dividends	(4,808)	-	(4,808)
. change in other reserves	(3,114)	-	(3,114)
. translation differences	5,449	427	5,877
AT THE END OF THE YEAR FOR CONTINUING OPERATIONS	109,557	45,583	155,140

Umicore's share in the aggregated balance sheet and profit and loss items of the associates and joint ventures would have been as follows:

Thousands of Euros	31/12/2020	31/12/2021
Assets	214,719	270,781
Liabilities	101,894	143,037
Turnover	195,889	261,159
Net result	(5,332)	17,347

In the above table, there are no more assets and liabilities related to joint ventures.

F18 Financial assets at fair value through oci and loans granted

Financial assets at FV Thousands of Euros through OCI		Loans granted
Non-current financial assets		
At the beginning of previous year	10,897	2,192
. increase	1,633	753
. reversals of impairment losses (included in "Income from other financial instruments")	2	-
. translation differences	(45)	(79)
. fair value recognized in equity	(4,193)	-
. other movements	59	386
At the end of previous year	8,352	3,252
. increase	5,014	39
. translation differences	78	36
. fair value recognized in equity	(43)	-
. other movements	719	(719)
AT THE END OF THE FINANCIAL YEAR FOR CONTINUING OPERATIONS	14,120	2,608
CURRENT FINANCIAL ASSETS		
At the end of the preceding financial year	-	80
. increase	-	132
. translation differences	-	1
. other	-	(44)
AT THE END OF THE FINANCIAL YEAR FOR CONTINUING OPERATIONS		169

In 2021, the movements in non-consolidated entities include, amongst other, the equity investment in a developer of next-generation solid state batteries.

F19 Inventories

Thousands of Euros	31/12/2020	31/12/2021
Analysis of inventories		
Base products - gross value	2,706,918	2,874,788
.Permanently tied up metal inventories (not hedged)	775,213	834,372
.Commercially available metal inventories (hedged) (*)	1,477,096	1,364,202
.Other base products inventories (not hedged)	454,609	676,214
Consumables - gross value	102,163	111,128
Write-downs	(105,715)	(118,279)
Advances paid	7,222	12,059
Contracts in progress	7,503	(10,626)
TOTAL INVENTORIES FOR CONTINUING OPERATIONS	2,718,092	2,869,071

^{*} applying Umicore's transactional metal hedging - see note F2.21.1 and F3.2.2

Inventories have increased by € 151.0 million compared with December 2020. This increase is mainly due to higher metal prices impacting the value of the commercially available metal inventories. The increase of permanently tied up inventories is mainly linked to the battery materials activities, where ramp-up of production capacity and commissioning of new production lines requires higher quantities of permanent metal inventory.

The total gross book value of Umicore's permanently tied-up metal inventories at 31 December 2021 compares to a value of € 3,298 million when applying the 31 December market prices (€ 3,008 million at end December 2020).

As per the accounting policy with regards to permanently tied-up metal inventories (see Chapter 2.9), the permanently tied-up metal inventories are considered to have an unlimited useful life (no depreciations are applied) and are instead subject to Umicore's annual impairment testing of the CGU's carrying these inventories. Applying the LOCOM principle on permanently tied-up metal inventories on 31 December 2021 would have given rise to a non-cash impairment charge of € 0.9 million for the Group.

The change in inventory recognized in Raw Materials and Consumables in the consolidated income statement is a positive amount of \in 76 million (representing the cash movements on inventory balances). The net write-down of inventory recorded in the consolidated income statement in 2021 amounts to € 10 million.

There are no pledges on, or restrictions to, the title on inventories.

F20 Trade and other receivables

Thousands of Euros	Notes	31/12/2020	31/12/2021
Non current			
Cash guarantees and deposits		8,370	9,737
Other receivables maturing > 1 year		2,574	10,217
Assets employee benefits		820	718
TOTAL FOR CONTINUING OPERATIONS		11,764	20,672
Current			
Trade receivables (at cost)		1,366,686	1,394,540
Trade receivables (write down)		(22,319)	(18,771)
Other receivables (at cost)		177,008	243,746
Other receivables (write down)		(207)	(207)
Interest receivable		495	1,439
Fair value receivable financial instruments held for cash-flow hedging	F33	45,091	80,452
Fair value receivable - financial instruments related to FV hedging (IFRS 9 hedge accounting)	F33	21,511	9,868
Fair value receivable - financial instruments related to FV hedging (economic hedging)		1,931	3,977
Deferred charges and accrued income		86,973	116,989
TOTAL FOR CONTINUING OPERATIONS		1,677,167	1,832,033

Compared to 31 December 2020, trade receivables substantially increased driven mainly by higher sales volumes and higher metal prices.

				Overdue be	etween	
Thousands of Euros	Total	Not due	0-30 days	30-60 days	60-90 days	> 90 days
Ageing balance analysis at the beginning of the year						
Trade receivables (w/o doubtful and securitized receivables) - at cost	1,328,476	1,161,303	137,088	21,569	4,384	4,131
Other receivables - at cost	177,007	176,020	-	-	223	765
Loss allowance	14,888	9,412	1,291	334	240	3,611
Expected loss rate	0.99%	0.70%	0.94%	1.55%	5.20%	73.75%
Ageing balance analysis at the end of year						
Trade receivables (w/o doubtful and securitized receivables) - at cost	1,357,690	1,222,865	111,435	12,724	6,021	4,645
Other receivables - at cost	243,746	236,195	2,940	1,186	252	3,173
Loss allowance	16,595	10,006	1,465	270	692	4,162
Expected loss rate	1.04%	0.69%	1.28%	1.94%	11.03%	53.24%

CREDIT RISK - TRADE RECEIVABLES

Thousands of Euros	Trade receivables (write- down)	Other receivables (write-down)	Total
At the beginning of previous year	(22,983)	(207)	(23,190)
. Impairment losses recognized in P&L	(3,943)	342	(3,602)
. Reversal of impairment losses	4,328	-	4,328
. Impairment written off against asset carrying amount	48		48
. Other movements	(408)	(346)	(755)
. Translation differences	639	5	644
At the end of previous year	(22,320)	(207)	(22,526)
At the beginning of the financial year	(22,320)	(207)	(22,526)
. Impairment losses recognized in P&L	(1,761)	-	(1,761)
. Reversal of impairment losses	1,535	-	1,535
. Impairment written off against asset carrying amount	4,564	-	4,564
. Other movements	129	-	129
. Translation differences	(918)	0	(917)
AT THE END OF THE FINANCIAL YEAR FOR CONTINUING OPERATIONS	(18,771)	(207)	(18,978)

The Group applies the IFRS 9 simplified approach to measure expected credit losses which uses a lifetime expected loss allowance for all trade receivables. To measure the expected credit losses, trade receivables have been grouped based on shared credit risk characteristics and the days past due. The expected loss rates are based on historical payment profiles of sales and the corresponding credit losses experienced. The historical loss rates are adjusted to reflect current and forward-looking information on macro-economic factors affecting the ability of the customers to settle the receivables. The Group has identified macro-economic factors, Probability of Default (PD) and Loss Given Default (LGD) to be the most relevant factors, and accordingly adjusts the historical loss rates based on expected changes in these factors.

In principle, Umicore uses credit insurance as a means to mitigate the credit risk related to trade receivables. In 2021, two main credit insurance policies with two different insurers were in place. At closing, € 462 million of the Group's outstanding invoices were covered by a policy where indemnification in case of non-payment amounts to 95% with an indemnification cap set at regional or country level. The other policy covered € 262 million of trade invoices with a global annual deductible of € 5 million, a maximum indemnity per year of € 100 million and an indemnification in case of non-payment of 90%. The Group also managed credit exposure by selling invoices to financial institutions without recourse (€ 410 million end of 2021 compared to € 301 million end of 2020), partly covered by the above credit insurance policies. Under one of these facilities, the carrying amount of receivables sold before the transfer amounts to € 220 million while total carrying amount of the assets that the entity continues to recognize and the related continuing involvement liability equal to € 17.6 million as of 31 December 2021. The latter consist mainly of non-transferred credit risk as well as late payment risk over the relevant portfolio. Other facilities amounted to € 190 million are derecognized in their entirety.

Specifically in China, Umicore reduces credit risk by discounting bank acceptance drafts it receives from its customers without recourse (and hence derecognized) (€ 290 million end of year 2021 compared to € 245 million end of 2020).

Finally, some of our businesses function without credit insurance and instead internal credit limits are set based on available financial information and business knowledge. Theses limits are duly reviewed and approved by management.



F21 Tax assets and liabilities

Thousands of Euros	31/12/2020	31/12/2021
Tax assets and liabilities		
Income tax receivables	39,553	46,762
Deferred tax assets	221,938	219,248
Income tax payable	(160,734)	(197,488)
Deferred tax liabilities	(22,846)	(24,294)

	Asse	ets	Liabilities		abilities	
Thousands of Euros	2020	2021	2020	2021	2020	2021
At the end of preceding financial year	168,927	221,938	(11,461)	(22,846)	157,466	199,092
Deferred tax recognized in the P&L	59,688	18,119	(3,146)	4,707	56,542	22,826
Deferred tax recognized in equity	(12,208)	(23,322)	3,632	(8,156)	(8,576)	(31,478)
Acquisitions through business combination	-	-	(359)	-	(359)	-
Translation adjustments	(6,199)	5,359	218	(84)	(5,981)	5,275
Transfer	11,722	(2,085)	(11,722)	2,085	-	-
Other movements	8	(761)	(8)	-	-	(761)
AT THE END OF FINANCIAL YEAR FOR CONTINUING OPERATIONS	221,938	219,248	(22,846)	(24,294)	199,092	194,954

	Asse	ts	Liabilities		Net	
Thousands of Euros	2020	2021	2020	2021	2020	2021
Deferred tax in respect						
of each type of temporary difference						
Intangible assets	22,144	25,797	(11,043)	(6,392)	11,101	19,405
Goodwill on fully	,		(/ /	(4)44		.,
consolidated companies	-	-	(514)	(556)	(514)	(556)
Property, plant	11 507	11.040	(20.644)	(20.662)	(10.120)	(47.044)
and equipment	11,506	11,848	(29,644)	(29,662)	(18,138)	(17,814)
Long term receivables Inventories	1,371	141	(181)	(470)	1,190	(329)
Trade and other receivables	41,534	77,332	(33,159)	(27,804)	8,375	49,528
Group Shareholder's equity	8,212	15,529 105	(25,600)	(58,640)	(17,388)	(43,111)
Long Term Financial Debt		105	(6,148)	(3,959)	(6,148)	(3,854)
and other payable	11,688	15,743	(18,023)	(24,307)	(6,335)	(8,564)
Provisions		,	(, ,	, , ,		· · · ·
Employee Benefits	89,764	77,506	(8,267)	(7,299)	81,497	70,207
Provisions for Environment	26,150	29,969	(378)	(205)	25,772	29,764
Provisions for other	42.040	22.000	(503)	(450)	42.205	22.224
liabilities and charges	12,968	22,889	(583)	(658)	12,385	22,231
Current Financial Debt	40	1,224	(1,080)	(4,858)	(1,040)	(3,634)
Current Provisions for Environment	1,969	1,969	-	-	1,969	1,969
Current Provisions for Other			(-)	<i>t</i> =\		
Liabilities & Charges	9,952	4,281	(8)	(8)	9,944	4,273
Trade and other payables	67,076	60,570	(1,309)	(877)	65,767	59,693
Total deferred tax due to temporary differences	304,374	344,903	(135,937)	(165,695)	168,437	179,208
Tax losses to						
carry forward	70,257	80,051	-	-	70,257	80,051
Investments deductions	867	650	-	-	867	650
Other	3,389	2,236	-	-	3,389	2,236
Deferred tax assets	(42.050)	(67.404)			(42.050)	(67.404)
not recognized Total tax	(43,858)	(67,191)	-	-	(43,858)	(67,191)
assets/liabilities	335,029	360,649	(135,937)	(165,695)	199,092	194,954
Compensation of assets and liabilities within same entity	(113,091)	(141,401)	113,091	141,401		
NET AMOUNT	221,938	219,248	(22,846)	(24,294)	199,092	194,954
	22.,730	217,240	(22,040)	(24,274)	,072	174,734



Thousands of Furos	2020	2021	2020	2021
Amount of deductible temporary differences, unused tax losses or tax credits for which no deferred tax asset is recognized in the balance sheet	Base	Base	Тах	Тах
Expiration date with no time limit	158,635	249,850	43,858	67,191

The changes of the period in temporary differences are charged to the consolidated income statement except those arising from events that were recognized directly in the consolidated statement of comprehensive income.

The main movements in deferred tax recognized directly in the consolidated statement of comprehensive income are deferred taxes generated by temporary differences included within the lines "Trade and other receivables" (negative by € 8.3 million), "Provisions for employee benefits" (negative by € 12.7 million) and "Trade and other payables" (negative by € 10.7 million).

Deferred tax assets are only recognized to the extent that their utilization is probable, i.e. if a tax benefit is expected in future periods. The Group assesses a recoverability in a range of 5 to 10 years. The actual tax results in future periods may differ from the estimate made at the time the deferred taxes are recognized.

Unrecognized deferred tax assets of € 67.2 million mainly arise from tax losses (€ 61.6 million).

In accordance with IAS 12, a deferred tax liability on untaxed reserves of the Belgian companies, amounting potentially to \leq 37.5 million, has not been recognized as management anticipates that this liability will not be incurred in a foreseeable future.

Group current income tax payable at 31 December 2021 amounting € 197.5 million (2020 : € 160.7 million) include uncertain tax positions of € 101.1 million (€ 114.9 million in 2020).

F22 Net cash and cash equivalents

Thousands of Euros	31/12/2020	31/12/2021
Cash and cash equivalents		
Short-term investments : bank term deposits	373,904	272,965
Short-term investments : term deposits (other)	5	43
Cash-in-hands and bank current accounts	636,397	921,428
Total cash and cash equivalents	1,010,307	1,194,437
Bank overdrafts	8,678	28,122
NET CASH AS IN CASH FLOW STATEMENT FOR CONTINUING OPERATIONS	1,001,629	1,166,315

All cash and cash equivalents are fully available for the Group.

Liquidity risk management implies maintaining sufficient cash and marketable securities, the availability of funding through an adequate amount of committed and uncommitted credit facilities and the ability to close out market positions.

Due to the dynamic nature of the underlying businesses, the Group aims to maintain funding flexibility through committed credit lines. Excess liquidities are invested for very short periods and are spread over a limited number of banks, all enjoying a satisfactory credit rating.

F23 Currency translation differences and other reserves

The detail of the Group's share in currency translation differences and other reserves is as follows:

Thousands of Euros	Conversion rights recognized in equity	Financial assets at FV through OCI reserves	Cash flow hedge(reserves - Commodities		Cash flow hedge	Deferred taxes	Changes in post employment benefits, arising from changes in actuarial assumptions	Share-based payment reserves	Currency translation differences	Total
Balance at the beginning of previous year	-	1,141	(33,865)	5,493	(687)	87,094	(298,028)	37,271	(82,873)	(284,454)
Remeasurements recognized in other comprehensive income	-	(4,198)	(20,951)	7,972	(84)	(513)	(27,632)	-	-	(45,406)
Remeasurements recognized in equity	50,324	-	-	-	-	-	-	10,108	-	60,432
Remeasurements derecognized out of other comprehensive income	-	-	27,054	2,707	-	(8,057)	-	-	-	21,704
Transfer from/to retained earnings	-	-	-	-	-	-	-	(2,737)	-	(2,737)
Other movements	-	-	-	-	-	868	(1,775)	-	-	(908)
Exchange differences	-	5	74	549	-	(204)	2,403	-	(119,284)	(116,457)
BALANCE AT THE END OF PREVIOUS YEAR	50,324	(3,052)	(27,688)	16,721	(771)	79,187	(325,033)	44,642	(202,157)	(367,826)
Balance at the beginning of the year	50,324	(3,052)	(27,688)	16,721	(771)	79,187	(325,033)	44,642	(202,157)	(367,826)
Remeasurements recognized in other comprehensive income	-	2	69,150	(16,354)	(1,971)	(25,487)	48,082	-	-	73,423
Remeasurements recognized in equity	-	-	-	-	-	-	-	14,255	-	14,255
Remeasurements derecognized out of other comprehensive income	-	-	28,949	(14,165)	-	(6,044)	(0)	-	-	8,740
Transfer from/to retained earnings	-	-	-	-	-	-	-	(5,904)	-	(5,904)
Change in scope	-	-	-	-	-	912	(3,026)	-	-	(2,114)
Exchange differences	-	40	393	150	(143)	(176)	(2,107)	-	84,898	83,055
BALANCE AT THE END OF THE YEAR	50,324	(3,009)	70,804	(13,649)	(2,885)	48,392	(282,084)	52,994	(117,259)	(196,370)

The net gains recognized in the OCI regarding cash flow hedges (€ 50.8 million) are the changes in fair value of new cash flow hedging instruments or existing ones at opening but which have not yet expired at year end. The net losses derecognized from OCI (€ 14.8 million) are the fair values of the cash-flow hedging instruments existing at the opening which expired during the year. The total impact incurred at expiration of the cash-flow hedges during the year represents a loss of € 3.6 million, recognized in the income statement. This amount includes the mentioned net losses derecognized from OCI (€ 14.8 million) and the fair value changes incurred in the course of the year on expired existing cash-flow hedges and on new instruments contracted during the year (€ 11.2 million).

New net remeasurements as a result of changes in the actuarial assumptions on the defined post-employment benefit plans have been recognized in OCI for € 48.1 million (refer to Note 27 on Provisions for employee benefits). The 2021 shares and stock option plans have led to a share-based payment reserve increase of € 14.3 million (refer to note F10 on employee benefits). € 5.9 million, linked to exercised options and free shares plans, have been transferred to retained earnings.

The movements on exchange differences are mainly related to the strengthen of the USD, CNY, HKD and BRL compared to EUR. The total exchange differences are mainly impacted by the following currencies: BRL, KRW, PLN, CNY, ZAR, CAD, ARS and USD.

F24 Financial debt

Thousands of Euros	Bank loans	Lease liability	Other loans	Total
Non-current				
At the beginning of previous year	1,101,266	46,262	3,555	1,151,083
. Increase	125,000	27,657	494,360	647,017
. Decrease	-	(19,801)	(304)	(20,105)
. Translation differences	(146)	(1,251)	5	(1,392)
. Transfers	(21,120)		(4)	(21,124)
. Conversion rights recognized in equity	-		(50,324)	(50,324)
At the end of previous year	1,205,000	52,865	447,289	1,705,154
. Increase	-	25,573	32,109	57,682
. Decrease	-	(19,534)	(824)	(20,358)
. Translation differences	-	1,400	(0)	1,400
. Transfers	-	2,588	(22,430)	(19,842)
At the end of the financial year for continuing operations	1,205,000	62,892	456,145	1,724,037
Current portion of long-term financial debts				
At the end of the preceding financial year	21,790	-	158	21,948
. Increase / decrease	(22,144)	-	1,785	(20,359)
. Translation differences	354	-	(40)	314
. Transfers	-	-	18,097	18,097
At the end of the financial year for continuing operations	-	-	20,000	20,000

Thousands of Euros	Short term bank loans Ba	nk overdrafts	Short term loan : commercial paper	Other loans	Total
Current					
At the end of the preceding financial year	554,266	8,678	134,282	4	697,230
. Increase / decrease	(204,601)	19,093	(126,277)	(1,786)	(313,571)
. Transfers	-	-	-	1,745	1,745
. Translation differences	25,055	351	-	38	25,444
At the end of the financial year for continuing operations	374,720	28,122	8,005	1	410,847

Net financial debt at 31 December 2021 stood at € 960.4 million, down compared with € 1,414.0 million at the start of the year.

The financial debt includes the US private debt placements issued in 2019 (€ 390 million; fair value of € 396.4 million) and in 2017 (€ 360 million; fair value € 377.9 million), the Schuldschein issued in 2017 (€ 330 million; fair value € 336.6 million), the European Investment Bank (EIB) loan issued in 2020 (€ 125 million; fair value € 122.0 million) and the convertible bond issued in 2020 (€ 500 million; fair value € 456.1 million).

On December 31, 2021, an amount of € 5 million was outstanding on the French NEU CP program and an amount of € 20 million was outstanding on the French NEU MTN program (out of € 600 million available under each program).

An amount of € 3 million was outstanding on the Belgian Commercial Paper program (out of € 600 million available under the program).

On December 31, 2021, there were no outstanding advances neither under the € 500 million Syndicated Bank Credit Facility renewed in 2021 and maturing in October 2026, nor under the € 495 million Syndicated Bank Credit Facility maturing in April 2025.

The aforementioned Syndicated Bank Credit Facilities and the long term debt instruments require the Company to comply with certain financial covenants. Umicore has not faced any breach of those covenants in 2021 or in previous years.

The long-term debts mainly consist in debt instruments in EUR.

The average interest rate on the average gross debt amounted to 2.23% for full year 2021 (1.91% for full year 2020).

The line "new loans and repayment of loans" in the consolidated statement of cash flow do not include the movements on bank overdrafts and the currency translation differences, nor the theoretical phantom interests on the debt component part of the convertible debt (€10.0 million in 2021) which is non cash.

The net gearing ratio (see definition in Glossary) end of 2021 of 23.3% (35.0% in 2020) and the net financial debt over adjusted EBITDA ratio of 0.77x (compared to 1.76x end of 2020) position the Group well within its targeted capital structure limits.

Thousands of Euros	Type of Interest	Due within 1 year	Due between 1 and 5 years	Due beyond 5 years	Total
Gross Financial debt of previous year					
Lease Liabilities		-	40,478	12,387	52,865
Credit Institutions	Fixed/Floating	584,895	3,190	-	588,085
Commercial Papers	Floating	134,282	-	-	134,282
Schuldschein	Fixed/Floating	-	287,000	43,000	330,000
US Private Placement	Fixed	-	-	750,000	750,000
EIB Loan	Fixed	-	-	125,000	125,000
Convertible Bond	Fixed	-	444,100	-	444,100
TOTAL		779,177	774,768	930,387	2,424,332

Thousands of Euros	Type of Interest	Due within 1 year	Due between 1 and 5 years	Due beyond 5 years	Total
Gross Financial debt of the year					
Lease Liabilities		-	45,209	17,683	62,892
Credit Institutions	Fixed/Floating	402,847	-	-	402,847
Commercial Papers	Floating	28,000	-	-	28,000
Schuldschein	Fixed/Floating	-	287,000	43,000	330,000
US Private Placement	Fixed	-	50,000	700,000	750,000
EIB Loan	Fixed	-	125,000	-	125,000
Convertible Bond	Fixed	-	456,145	-	456,145
TOTAL		430,847	963,354	760,683	2,154,884

Thousands of Euros	EUR	Total
Analysis of long term debts by currencies (including current portion)		
Bank loans	1,205,000	1,205,000
Other loans	476,145	476,145
NON-CURRENT FINANCIAL DEBTS (INCLUDING CURRENT PORTION)	1,681,145	1,681,145
Thousands of Euros	2020	2021
Non current financial debt	1,705,154	1,724,037
Current portion of non current financial debt	21,948	20,000
Current financial debt	697,230	410,847
Cash and cash equivalents	(1,010,307)	(1,194,437)
NET FINANCIAL DEBT	1,414,024	960,447

Gross outstanding debt	
Short term bank loans	17.4%
Long term bank loans	55.9%
Commercial paper	0.4%
Bank overdrafts	1.3%
Lease liability	2.9%
Convertible Bond	21.2%
Other bank facilities	0.9%

Millions of Euros 2020	2021
Net financial debt 1,414.0	960.4
Equity 2,621.9	3,167.3
Total 4,035.9	4,127.7
Gearing ratio (%) 35.0	23.3

F25 Trade debt and other payables

Thousands of Euros	Notes	31/12/2020	31/12/2021
Non-current			
Other long-term debts		5,682	6,540
Investment grants and deferred income from grants		17,823	40,821
Total for continuing operations		23,505	47,361
Current			
Trade payables		1,896,099	2,196,225
Advances received on contracts in progress		32,180	29,851
Tax payable (other than income tax)		38,317	32,885
Payroll and related charges		135,835	168,014
Other amounts payable		39,733	67,708
Dividends payable		11,618	11,612
Accrued interest payable		9,109	10,326
Fair value payable financial instrument held for cash flow hedging	F33	57,957	24,504
Fair value payable - financial instruments related to FV hedging (IFRS 9 hedge accounting)	F33	18,708	31,874
Fair value payable - financial instruments related to FV hedging (economical hedging)		19,589	433
Accrued charges and deferred income		159,784	234,534
Total for continuing operations		2,418,928	2,807,966

Compared to 31 December 2020, trade payables increased, driven mainly by more purchase volumes at higher metal prices with longer payment terms. Trade payables include bank acceptance drafts issued by Umicore in China. Bank acceptance drafts are a commonly used form of payment in China, often preferred by suppliers in view of their transferrability, their use as financing collateral or their ability to be discounted. End of 2021, Umicore issued € 260 million of bank acceptance drafts in China (compared to € 280 million end of 2020). Trade payables end of 2021 include contracted metals to be repurchased for an amount of € 136 million (compared to € 230 million end of 2020). The tax payables (other than income tax) mainly include VAT payables.

Umicore has no global supply chain programme. However, some suppliers have agreements in place with banks through which Umicore is expected to provide confirmation that suppliers invoices are correct and will be settled on the due date. At the end of 2021, such confirmations were provided for a total outstanding payable amount of € 242 million.



F26 Liquidity of the financial liabilities

PREVIOUS FINANCIAL YEAR

Earliest contractual maturity						
Thousands of Euros	< 1 Month	1 to 3 Months	3 Months to 1 Year	1 to 5 Years	> 5 years	Total
Financial debt	274,765	90,870	353,542	774,766	930,387	2,424,330
Current	274,765	90,870	353,542	-	-	719,177
Short term bank loans	231,384	55,590	267,293	-	-	554,266
Bank overdrafts	8,678	-	-	-	-	8,678
Short-term loan: commercial paper	25,000	35,250	74,032	-	-	134,282
Other loans	-	4	-	-	-	4
Current portion of long-term bank loans	9,691	-	12,099	-	-	21,790
Current portion of other long-term loans	13	26	119	-	-	158
Non-current	-	-	-	774,766	930,387	1,705,153
Bank loans	-	-	-	287,000	918,000	1,205,000
Lease liability	-	-	-	40,478	12,387	52,865
Other loans	-	-	-	447,288	0	447,288
TRADE AND OTHER PAYABLES	1,377,057	362,626	659,330	32,008	11,409	2,442,430
Current	1,377,057	362,626	659,330	19,912	-	2,418,925
Trade payables	1,105,279	246,622	544,198	-	-	1,896,099
Advances received on contracts in progress	13,586	18,199	395	-	-	32,180
Tax payable (other than income tax)	35,188	2,591	539	-	-	38,317
Payroll and related charges	38,663	41,765	55,407	-	-	135,835
Other amounts payable	28,760	4,627	6,346	-	-	39,733
Dividends payable	11,618	-	-	-	-	11,618
Accrued interest payable, third parties	6,960	1,653	496	-	-	9,109
Fair value payable financial instrument held for cash flow hedging	471	9,324	28,631	19,527	-	57,953
Fair value payable - financial instruments related to FV hedging (IFRS 9 hedge accounting)	9,405	6,075	2,844	385	-	18,708
Fair value payable - financial instruments related to FV hedging (economical hedging)	6,715	11,827	1,047	-	-	19,589
Accrued charges and deferred income	120,413	19,943	19,428	-	-	159,784
Non-current	-	-	-	12,096	11,409	23,505
Other long-term debts	-	-	-	1,182	4,500	5,682
Investment grants and deferred income from grants	-	-	-	10,914	6,909	17,823



FINANCIAL YEAR

Umicore **Statements** Backcover

Earliest contractual maturity						
(EUR thousand)	< 1 Month	1 to 3 Months	3 Months to 1 Year	1 to 5 Years	> 5 years	Total
Financial debt	252,209	69,764	108,874	963,354	760,683	2,154,884
Current	252,209	69,764	108,874	-	-	430,847
Short term bank loans	216,083	69,764	88,873	-	-	374,720
Bank overdrafts	28,122	-	-	-	-	28,122
Short-term loan: commercial paper	8,005	-	-	-	-	8,005
Other loans	-	-	1	-	-	1
Current portion of other long-term loans	-	-	20,000	-	-	20,000
Non-current	-	-	-	963,354	760,683	1,724,037
Bank loans	-	-	-	462,000	743,000	1,205,000
Lease liability	-	-	-	45,209	17,683	62,892
Other loans	-	-	-	456,145	0	456,145
Trade and other payables	1,868,161	583,445	342,920	48,278	12,522	2,855,327
Current	1,868,161	583,445	342,920	13,439	-	2,807,966
Trade payables	1,539,519	463,937	192,769	-	-	2,196,225
Advances received on contracts in progress	16,545	9,155	4,151	-	-	29,851
Tax payable (other than income tax)	26,481	6,186	218	-	-	32,885
Payroll and related charges	50,943	42,202	74,869	-	-	168,014
Other amounts payable	26,120	27,639	13,949	-	-	67,708
Dividends payable	11,612	-	-	-	-	11,612
Accrued interest payable, third parties	6,777	139	3,410	-	-	10,326
Fair value payable financial instrument held for cash flow hedging	1,949	1,831	10,942	9,782	-	24,504
Fair value payable - financial instruments related to FV hedging (IFRS 9 hedge accounting)	8,974	12,550	6,693	3,657	-	31,874
Fair value payable - financial instruments related to FV hedging (economical hedging)	-	-	433	-	-	433
Accrued charges and deferred income	179,242	19,806	35,487	-	-	234,534
Non-current	•	•	-	34,839	12,522	47,361
Other long-term debts	-	-	-	1,178	5,362	6,540
Investment grants and deferred income from grants	-	-	-	33,661	7,161	40,821

F27 Provisions for employee benefits

The Group has various legal and constructive defined benefit obligations, the vast majority of them being "final pay" plans linked to the Belgian and German operations.

Thousands of Euros	Post- employment benefits, pensions and similar	Post- employment benefits - other	Termination benefits early retirement & similar	Other long-term employee benefits	Total
At the end of the previous year	380,834	2,633	27,087	15,802	426,356
. Increase (included in "Payroll and related benefits")	38,091	252	6,635	2,887	47,864
. Reversal (included in "Payroll and related benefits")	659	-	-	(48)	611
. Use (included in "Payroll and related benefits")	(35,968)	(130)	(5,322)	(1,010)	(42,430)
. Interest and discount rate impacts (included in "Finance cost - Net")	3,092	7	6	93	3,198
. Translation differences	3	(4)	(129)	(10)	(141)
. Transfers	927	-	(689)	(295)	(57)
. Recognized in other comprehensive income	(48,255)	60	(0)	(0)	(48,196)
AT THE END OF THE FINANCIAL YEAR FOR CONTINUING OPERATIONS	339,383	2,817	27,588	17,418	387,206

Thousands of Euros	31/12/2020	Movements 2021	31/12/2021
Belgium	95,573	(18,512)	77,061
Germany	300,743	(20,316)	280,427
Subtotal	396,316	(38,828)	357,488
Other entities	30,040	(322)	29,718
TOTAL FOR CONTINUING OPERATIONS	426,356	(39,150)	387,206

The first table shows the balances and the movements in provisions for employee benefits of the fully consolidated subsidiaries only.

The termination benefits mainly concern some severance pay schemes in Korea and Belgian preretirement plans. Other long-term benefits mainly concern jubilee premium in Belgium and Germany.

The lines "Increase", "Reversal" and "Use" of employee benefits provisions can be linked with the line "Provisions for employee benefits" of the note F10. The amount recognized in other comprehensive income originates mainly from an increase in discount rates on the pension plans. A reconciliation with the note F23 and the consolidated statement of comprehensive income is provided in the tables below.

The defined contribution plans of the Group in some countries like in the USA, Canada, South Africa and Germany are not part of this note as the amounts are directly recognized in the income statement under the line "Contribution to defined contribution plans" (see note F10).

The following disclosure requirements under IAS 19 amended were derived from the reports obtained from external actuaries.

Umicore defined benefit pension schemes for the 2 major countries are the following:

BELGIUM

Characteristics of the Defined Benefit plans Umicore companies in Belgium operate defined benefit plans that provide retirement or long-term employee benefits which are related to salary and age or length of service. These retirement and long term benefit plans represent a defined benefit obligation of € 309.2 million and assets for € 232.1 million. They foresee in lump sum or monthly payments upon retirement or pre-retirement and benefits in case of reaching a number of years of service or in case of death or disability prior to retirement.

The net provisions for pension of € 77.1 million can be broken down in post-employment defined benefit plans (€ 54.0 million of which € 167.3 million is the obligation and € 113.3 million relates to plan assets), termination benefits plan (€ 4.8 million of obligation not funded), jubilee premium (€ 3.5 million, not funded) and post-employment defined contributions plans and bonus saving plans with guaranteed return and therefore treated as Defined Benefit plans (€ 14.8 million of which € 133.6 million is the obligation and € 118.8 million relates to plan assets).

Funding The post-employment plans are externally funded through either insurance companies or a self-administrated institution for occupational retirement provision ("IORP"). For the IORP, the necessary governance processes for risk management are in place. One of the risk measures is to perform on a regular basis a "Continuity Test" in which the consequences of strategic investment policies are analyzed in terms of risk- and-return profiles and solvency measures. A statement of investment principles and funding policy are derived from this. The purpose is to have a well-diversified asset allocation to control the risk.

Fair values of plan assets The fair values of the equity and debt instruments are determined based on quoted market prices in active markets (level 1 fair value classification). The plans hold no direct positions in Umicore shares or bonds, nor do they own any property used by an Umicore entity. Investments are well diversified so that the failure of any single investment would not have a material impact on the overall level of assets.

GFRMANY

Characteristics of the Defined Benefit plans The post-employment benefits are mainly unfunded pension plans of defined benefit type providing retirement, disability and death benefits. All benefit plans are based on final or final average pay excluding the deferred compensation plans. The benefits of the deferred compensation plan are based on annual converted salary and provide a quaranteed interest of 3.0% p.a. (6.0% p.a. for salary conversions before 2014). All post-employment plans represent a defined benefit obligation of € 288.2 million and assets for € 7.8 million.

The net provisions for pension of € 280.4 million mainly includes the Degussa pension defined benefit plans, including the contribution plan where the inflation and interest rate adjustments of the benefits are quaranteed (€ 207.4 million), the closed and open compensation plans (€ 57.4 million), a jubilee premium plan (€ 8.5 million) and other termination benefits (€ 7.1 million).

Funding As mentioned above, the post-employment benefits are mainly unfunded plans. A minor part is funded by pledged reinsurance contracts.

Fair values of plan assets All plan assets relate to pledged insurance contracts and have no quoted market price.

The most significant risks related to the defined benefit plans are:

• Asset volatility: The plan liabilities are calculated using a discount rate set with reference to corporate bond yields; if plan assets underperform this yield, this will create a deficit.

- Changes in bond yields: A decrease in corporate bond yields will increase plan liabilities, although this will be partially offset by an increase in the value of the plan's bond holdings.
- Salary risk: The majority of the plans' benefit obligations are calculated by reference to the future salaries of plan members. As such, any salary increase of plan members higher than expected will lead to higher liabilities.
- Longevity risk: All pension plans beside the new deferred compensation plan as from 2014 provide life annuities which involve the risk of longevity i.e. the risk that the payment period of the pension increases due to the increase in life expectancy. The company uses mortality rates which depend on the year of birth to include this risk in the pension obligation.
- Risk of cash outflow: Since death as active and disability benefits are provided there is a risk of cash outflow before retirement.
- Legislation risks: If the law which define the benefit changes, it can result in a change of the obligations.

Some additional risks are related to Germany only:

- In Germany two defined contribution pension plans exist which are externally financed via the "Pensionskasse Degussa" (PKD) or the support fund "Unterstützungskasse Degussa" (RUK). With respect to the required pension adjustments of pensions paid by these plans, there is a risk that these adjustments cannot be fully borne by the PKD or RUK and therefore can result in additional unfunded pension obligations. This part of the PKD and RUK plans is therefore considered as a Defined Benefit Plan and the risk of the additional obligation expected until end of 2023 has been included in the defined benefit obligation and is yearly reviewed (additional obligation of € 4.8 million for PKD and € 0.7 million for RUK at the end of 2021).
- The closed deferred compensation plan provides a guaranteed interest rate of 6% which increases the risk for a pension cost in addition to the converted salary. The plan was closed at 31 December 2013 and replaced by a plan with no significant risk in this respect.

And some risks are related to Belgium only:

• Because of the Belgian legislation applicable to 2nd pillar pension plans (so-called "Law Vandenbroucke"), all Belgian Defined Contribution plans have to be considered under IFRS as Defined Benefit plans. Law Vandenbroucke states that in the context of defined contribution plans, the employer must quarantee a minimum return of 3.75% on employee contributions and 3.25% on employer contributions. However, shortly before year-end 2015, a change in the Belgian Law was enacted resulting in a decrease of the guaranteed return from 3.25 % to a minimum interest rate defined based upon the Belgian 10-year interest rate but within the range 1.75% – 3.25%. The new rate (currently 1.75%) applies for the years after 2015 on future contributions and also on the accumulated past contributions as at 31 December 2015 if the financing organization does not guarantee a certain result on contributions until retirement age. If the organization does guarantee such a result, the rates



3.25/3.75% still apply on the accumulated past contributions as at 31 December 2015. Because of this minimum guaranteed return, the employer is exposed to a financial risk: further contributions could be required if the return on assets would not be sufficient to reach the minimum benefits to be paid. The Group has plans that are financed through insurance contract as well as one plan financed through an IORP. The related defined benefit obligations have been aggregated with the other obligations for defined benefit plans. The Projected Unit Credit (PUC) methodology has been used. Total defined benefit obligations related to those plans amounts to € 133.6 million as at the end of December 2021 and related plan assets to € 118.8 million.

Thousands of Euros	2020	2021
Change in benefit obligation		
Benefit obligation at beginning of the year	651,685	697,222
Current service cost	34,591	43,641
Interest cost	6,246	5,904
Plan Participants' Contributions	905	843
Remeasurements - changes in demographic assumptions	1,556	(831)
Remeasurements - changes in financial assumptions	29,185	(37,337)
Remeasurements - experience adjustments	2,942	723
Benefits paid from plan/company	(26,873)	(30,537)
Expenses paid	(1,819)	(2,479)
Plan combinations	157	-
Exchange rate changes	(1,353)	818
Thousands of Euros		
Change in plan assets	2020	2021
Change in plan assets Fair value of plan assets at the beginning of the year	2020 259,952	2021
Fair value of plan assets at the beginning of the year	259,952	271,690
Fair value of plan assets at the beginning of the year Expected return on plan assets	259,952 2,349	271,690 2,069
Fair value of plan assets at the beginning of the year Expected return on plan assets Remeasurements on plan assets	259,952 2,349 5,398	271,690 2,069 11,671
Fair value of plan assets at the beginning of the year Expected return on plan assets Remeasurements on plan assets Employer contributions	259,952 2,349 5,398 32,473	271,690 2,069 11,671 37,350
Fair value of plan assets at the beginning of the year Expected return on plan assets Remeasurements on plan assets Employer contributions Member contributions	259,952 2,349 5,398 32,473 905	271,690 2,069 11,671 37,350 843
Fair value of plan assets at the beginning of the year Expected return on plan assets Remeasurements on plan assets Employer contributions Member contributions Benefits paid from plan/company	259,952 2,349 5,398 32,473 905 (26,873)	271,690 2,069 11,671 37,350 843 (30,537)
Fair value of plan assets at the beginning of the year Expected return on plan assets Remeasurements on plan assets Employer contributions Member contributions Benefits paid from plan/company Expenses paid Net transfer in/(out) (including the effect of any business	259,952 2,349 5,398 32,473 905 (26,873) (1,870)	271,690 2,069 11,671 37,350 843 (30,537)

Pension plans mainly in Belgium, Korean, Liechtenstein and Japan are wholly or partly funded with assets covering a substantial part of the obligations. All other plans have no material funding or are unfunded.

Thousands of Euros	2020	2021
Amount recognized in the balance sheet		
Defined benefit obligations	697,222	677,967
Fair value of plan assets	271,690	291,479
Funded Status	425,532	386,488
NET LIABILITY (ASSET)	425,532	386,488
Components of pension costs		
Amounts recognized in profit and loss statement		
Current service cost	34,591	43,641
Interest cost	6,246	5,904
Interest income on plan assets	(2,349)	(2,069)
Remeasurement of Other Long Term Benefits	277	(920)
Administrative expenses and taxes	51	55
Total pension cost recognized in P&L account	38,816	46,611
Amounts recognized in other comprehensive income		
Cumulative remeasurements at opening	270,082	299,829
Remeasurements of the year	28,004	(48,196)
Minorities	37	27
Other movements	1,775	-
Exchange differences	(69)	4
Change in scope	-	3,026
Total recognized in the OCI at subsidiaries	299,829	254,689
Remeasurements at associates and joint ventures	25,202	27,396
TOTAL RECOGNIZED IN THE OCI	325,030	282,084
Remeasurements recognised in Other comprehensive income as per Note F23	(27, 177)	
(w/o Minorities)	(27,632)	48,082
Currency translation differences as per Note F23 (w/o Minorities)	2,403	(2,107)
Reameasurements related to Minorities (including ctd's on Minorities)	32	32
Total Remeasurement shown in OCI	(25,198)	46,007
.Currency translation differences as per Note F23 (w/o Minorities)	(2,403)	2,107
.Currency translation differences related to Minorities	5 (400)	(5) 87
.Remeasurements related to equity companies	(409)	
TOTAL REMEASUREMENTS SHOWN IN NOTE F27	(28,004)	48,196
Remeasurements (recognized in other comprehensive income)		
Effect of changes in demographic assumptions	1,433	(805)
Effect of changes in financial assumptions	29,124	(37,103)
Effect of experience adjustments	2,677	1,404
(Return) on plan assets (excluding interest income)	(5,230)	(11,692)
TOTAL REMEASUREMENTS INCLUDED IN OTHER COMPREHENSIVE INCOME	28,004	(48,196)



The interest cost and return on plan assets as well as the remeasurement impact on the non post-employment benefit plans, are recognized under the finance cost in the income statement (see note F11). All other elements of the expense of the year are classified under the operating result in the "wages, salaries and direct social advantages".

Remeasurements of the year recognized in other comprehensive income originate mainly from a change in discount rates on the pension plans and differences between the expected and actual return on plan assets.

	2020	2021
PRINCIPAL ACTUARIAL ASSUMPTIONS		
Weighted average assumptions to determine benefit obligations year end	at	
Discount rate (%)	0.78	1.17
Rate of compensation increase (%)	2.55	2.62
Rate of price inflation (%)	1.75	1.80
Rate of pension increase (%)	1.30	1.27
Weighted average assumptions used to determine net cost		
Discount rate (%)	0.95	0.78
Rate of compensation increase (%)	2.60	2.55
Rate of price inflation (%)	1.78	1.75
Rate of pension increase (%)	1.30	1.30

	2021	
	Fair value of all plan assets	Fair Value of plan assets with quoted market price
Plan assets		
Cash and cash equivalents	22,062	22,062
Equity instruments	66,269	66,269
Debt instruments	93,787	93,787
Real estate	6,738	6,738
Assets held by insurance company	94,290	80,983
Other	8,333	7,322
TOTAL PLAN ASSETS	291,479	277,161

Assumptions are recommended by the local actuaries in line with the IAS19 revised. The standard reference for the Eurozone is iBOXX AA Index yield and similar indexes are used for the other regions. Mortality tables used are country specific.

Other plan assets are predominantly invested in insurance contracts and bank term deposits. The expected long-term rate of return on assets assumptions is documented for the individual plans as recommended by the local actuaries.

	202	1
	Valuation trend +0,25%	Valuation trend -0,25%
Sensitivity to trend rate assumptions on discount rate		
Present value of defined benefit obligation	640,901	687,587
Weighted average duration of benefit obligation (in years)	13.33	14.92
Sensitivity to trend rate assumptions on inflation rate		
Present value of defined benefit obligation	648,639	622,105
Sensitivity to trend rate assumptions on salary increase rate		
Present value of defined benefit obligation	670,622	652,617
Thousands of Euros	2020	2021

Thousands of Euros	2020	2021
BALANCE SHEET RECONCILIATION		
Balance sheet liability (asset) as of previous year	391,734	425,529
Pension expense recognized in P&L in the financial year	38,816	46,611
Amounts recognized in SoCI	28,004	(48,196)
Employer contributions via funds in the financial year	(20,633)	(25,572)
Employer contributions paid directly in the financial year	(11,840)	(11,771)
Amounts recognized due to plan combinations	233	-
Other	-	(3)
Exchange rate adjustment - (gain)/loss	(785)	(109)
BALANCE SHEET LIABILITY (ASSET) AS OF END OF THE YEAR	425,529	386,489
Provisions for employee benefits in non current liabilites as per Balance Sheet	426,356	387,206
Asset employee benefit in non current asset (note F20)	(820)	(718)
Other	(7)	-
NET OBLIGATION ON BALANCESHEET	425,529	386,488

At 31 December					
Thousands of Euros	2017	2018	2019	2020	2021
Present value of defined benefit obligation	552,021	549,052	651,685	697,222	677,967
Fair value of plan assets	209,774	216,101	259,952	271,690	291,479
Deficit (surplus) in the plan	342,247	332,951	391,733	425,532	386,488
Experience adjustments on plan assets	(5,286)	4,410	(17,138)	(5,398)	(11,671)
Experience adjustments on plan liabilities	4,611	5,967	3,032	2,942	723

Thousands of Euros	2021
EXPECTED CASH FLOWS FOR FOLLOWING YEAR	
Expected employer contributions	36,912
Expected total benefit payments	
Year 1	30,310
Year 2	48,062
Year 3	20,078
Year 4	31,508
Year 5	28,122
Next 5 years	119,823

F28 Stock option plans granted by the company

Plan	Expiry	date Exercise		Number of options still to be exercised
ISOP 2015	09/02/2022	all working days of Euronext Brussels	17.29	39,000
			18.90	2,500
			19.50	3,000
				44,500
ISOP 2016	04/02/2023	all working days of Euronext Brussels	16.63	248,750
				248,750
ISOP 2017	13/02/2024	all working days of Euronext Brussels	25.50	413,500
			27.04	23,750
				437,250
ISOP 2018	08/02/2025	all working days of Euronext Brussels	40.90	973,125
				973,125
ISOP 2019	10/02/2026	all working days of Euronext Brussels	34.08	1,216,000
			36.78	5,000
				1,221,000
ISOP 2020	09/02/2027	all working days of Euronext Brussels	42.05	1,168,375
				1,168,375
ISOP 2021	10/02/2028	all working days of Euronext Brussels	47.08	1,108,500
				1,108,500
TOTAL				5,201,500

ISOP refers to "Incentive Stock Option Plan" (worldwide plan for senior managers and above).

The stock options, which are typically vested at the time of the grant, are foreseen to be settled with treasury shares. Options which have not been exercised before the expiry date elapse automatically.

	202	0	2021		
	Number of share options	Weighted average exercise price	Number of share options	Weighted average exercise price	
DETAILS OF THE SHARE OPTIONS OUTSTANDING DURING THE YEAR					
Outstanding at the beginning of the year	5,641,250	27.42	5,785,190	32.00	
Granted during the year	1,168,375	42.05	1,108,500	47.08	
Exercised during the year	1,024,435	18.25	1,692,190	22.72	
OUTSTANDING AT THE END OF THE YEAR	5,785,190	32.00	5,201,500	38.23	
Exercisable at the end of the year	5,785,190	32.00	5,201,500	38.23	

The options outstanding at the end of the year have a weighted average contractual life until January 2026.

The details concerning the calculation of the fair value of the options granted are detailed under note F10 on Payroll and related Benefits.

F29 Environmental provisions

Thousands of Euros	Provisions for soil clean- up & site rehabilitation environ	Other mental provisions	Total
At the end of previous year	108,238	13,136	121,374
. Increase (included in "Other operating expenses")	58,989	14,377	73,367
. Reversal (included in "Other operating expenses")	(471)	(159)	(630)
. Use (included in "Other operating expenses")	(57,081)	(6,519)	(63,600)
. Discounting (included in "Finance cost -Net")	(152)	-	(152)
. Translation differences	256	-	256
AT THE END OF THE FINANCIAL YEAR FOR CONTINUING OPERATIONS	109,780	20,836	130,615
Of which - Non Current	106,247	11,146	117,393
Of which - Current	3,533	9,689	13,222

Provisions for environmental legal and constructive obligations are recognized and measured by reference to an estimate of the probability of future cash outflows as well as to historical data based on the facts

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and circumstances known at the end of the reporting period. The actual liability may differ from the amounts recognized.

Provisions increased overall by \leq 9.2 million, with additional provisions which are higher than the uses and reversals of existing provisions.

The new provisions for soil and groundwater remediation are mainly related to new provisions taken in Belgium at the Hoboken and Olen sites. In Hoboken, additional provisions for the creation of a green zone neighboring the Hoboken plant have been taken for \leqslant 45.6 million. This reflects the success of the voluntary offer to purchase neighboring houses. The creation of the green zone is a key building block of the site's plan to further reduce the impact on its neighbors. Taking into account the use of the provision over the period (\leqslant 51.2 million), the total provision for the creation of the green zone at December 31 amounted to \leqslant 44.4 million.

Early 2020, the Federal Agency for Nuclear Control issued guiding principles for the permanent remediation and storage of the legacy radioactive material related to Umicore's Olen site in Belgium. Joint working groups have been established, including governmental agencies such as NIRAS/ONDRAF, OVAM, FANC and Umicore to elaborate a roadmap describing the different steps that need to be taken to reach a permanent storage solution. Going forward, the joint working groups will provide updates of the estimated future remediation and storage costs and the dedicated existing environmental provisions. Developing and implementing this detailed roadmap is currently expected to take several years. Umicore will in the meantime continue the monitoring works to guarantee that no risks are emanating from those remnants, neither for the workers on site, nor for the surrounding population.

The movements of the other environmental provisions are mainly related to the need for and adjustment of CO2 emission rights in Belgium.

Management expects the most significant cash outflows on these projects for non-current elements to take place within 10 years.

F30 Provisions for other liabilities and charges

Thousands of Euros	Provisions for reorganisation & restructuring	Provisions for litigation	Provisions for onerous contracts IFRS 9	Provisions for other liabilities and charges	Total
At the end of the previous year	40,856	2,686	19,963	57,454	120,958
. Increase (included in "Other operating expenses")	8,147	84	-	47,396	55,626
. Reversal (included in "Other operating expenses")	(1,530)	-	(20,267)	(247)	(22,045)
. Use (included in "Other operating expenses")	(10,451)	(228)	-	(18,506)	(29,185)
. Translation differences	912	3	305	765	1,984
. Transfers	(2)	(18)	-	6	(14)
. Other movements	823	-	-	-	823
AT THE END OF THE FINANCIAL YEAR FOR CONTINUING OPERATIONS	38,754	2,527	-	86,869	128,148
Of which - Non Current	27,226	801	-	70,081	98,108
Of which - Current	11,529	1,725	-	16,790	30,044

Provisions for reorganization and restructuring and other liabilities and charges are recognized and measured by reference to an estimate of the probability of future outflow of cash as well as to historical data based on the facts and circumstances known at the end of the reporting period. The actual liability may differ from the amounts recognized.

Provisions increased overall by € 7.2 million.

Additional provisions for reorganization and restructuring have been mainly taken for the restructuring initiatives linked to the closure of Automotive catalysts's heavy duty diesel operation in Frederikssund (Denmark) and in Cobalt & Specialty Materials in Belgium. The uses of provision for reorganization and restructuring mainly relate to the execution of the previously announced restructurings in Cobalt & Specialty Materials in Belgium and in the USA and in Catalysis in Denmark and in the USA.

The provisions for litigation are not including the tax provisions related to IFRIC 23 as those are booked under the line Income tax payable.

The provisions for onerous contracts related to IFRS 9 were linked to the introduction of IFRS 9 for fair value hedging. Those provisions were taken when IFRS 9 hedge accounting could not be applied or obtained, Umicore previously offset under IAS 37 principles any material positive mark-to-markets with provisions for onerous contracts and reclassified the negative mark-to-markets under the provisions for onerous contracts. In 2021, Umicore has decided to directly reverse the material positive mark-to-markets and to

abandon the provisions for onerous contracts logic for IFRS 9, resulting in a reversal of last year taken provision. From the provision of € 20.0 million for 2020, € 10.0 million could be reversed in 2021 as hedge accounting was obtained, as explained in note 2.21.1.

Additional other provisions for liabilities and charges include other onerous contracts provisions of € 22.0 million and provisions for warranty and quality recall risks of € 22.7 million that are mainly linked to risks related to automotive end market applications in both Catalysis and Energy & Surface Technologies (the latter referring to the dedicated provisioning model for battery materials introduced in 2018). The use of provisions related to other onerous contract provisions amounts to € 15.4 million in 2021.

No reliable estimation could be made regarding the expected timing of cash outflows related to the non-current part of the provisions for other liabilities and charges.

F31 Capital employed

Thousands of Euros	Notes	31/12/2020	30/06/2021	31/12/2021
Intangible assets	F14,F15	346,888	344,025	339,849
Property, plant and equipment	F16	2,163,661	2,236,527	2,351,134
Investments accounted for under the equity method	F17	139,839	150,052	155,140
Financial assets at FV through OCI	F18	8,352	15,125	14,120
Inventories	F19	2,718,092	3,081,161	2,869,071
Non current receivable (excluding assets employee benefits)	F20	10,945	12,378	19,954
Adjusted current accounts receivable		1,611,461	2,013,295	1,750,174
Income tax receivable		39,553	44,147	46,762
Assets included in capital employed		7,038,790	7,896,710	7,546,203
Non-current trade and other payables	F25	23,505	32,774	47,360
Adjusted current accounts payable		2,360,975	3,149,457	2,783,459
Translation reserves	F23	(202,148)	(149,920)	(117,250)
Non-current provisions	F29,F30	182,040	221,178	215,502
Current provisions	F29,F30	60,296	57,857	43,266
Income tax payable		160,734	236,935	197,488
Liabilities included in capital employed		2,585,401	3,548,280	3,169,825
Capital employed		4,453,389	4,348,430	4,376,378
Eliminations		3,191	3,012	517
CAPITAL EMPLOYED AS PUBLISHED		4,456,580	4,351,443	4,376,895
Average Capital Employed in half year preceding closing date		4,454,596		4,364,169
Average Capital Employed in year preceding closing date		4,450,948		4,384,090
Adjusted EBIT in year preceding closing date	F9	536,361		971,377
ROCE in year preceding closing date		12.05%		22.16%

The adjusted current account receivables included in the "Capital Employed" do not take into account the margin calls (€ 1.4 million at the end of 2021) and the gains booked on the mark-to-market value of strategic hedging instruments (€ 80.5 million in 2021). The adjusted current account payables included in the "Capital Employed" do not take into account the losses booked on the mark-to-market value of strategic hedging instruments (€ 24.5 million at the end of 2021).

Average capital employed for the half years is calculated as the average of the capital employed at the end of the period and at the end of the preceding period. Average capital employed for the year is calculated as the average of the capital employed of both half years.

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F32 Financial instruments by category

AS AT THE END OF PREVIOUS YEAR

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Thousands of Euros	Level	Fair value	Held for trading - economic hedging	Fair value hedge accounting	Cash Flow hedge accounting	Loans, receivables and payables	Financial assets at FV through OCI
ASSETS						3.13 (3.73)	
Financial assets at fair value through Other Comprehensive Income		8,352	-	-	-		8,352
Financial assets at fair value through Other Comprehensive Income - Shares	1	8,352	-	-	-		8,352
Loans granted		3,332	-	-	-	3,332	-
Loans to associates and non consolidated affiliates		3,332	-	-	-	3,332	-
Trade and other receivables		1,688,931	1,931	21,511	45,091	1,620,398	-
Non-current							
Cash guarantees and deposits		8,370	-	-	-	8,370	-
Other receivables maturing in more than 1 year		2,574	-	-	-	2,574	-
Assets employee benefits		820	-	-	-	820	-
Current							
Trade receivables (at cost)		1,366,686	-	-	-	1,366,686	-
Trade receivables (write-down)		(22,319)	-	-	-	(22,319)	-
Other receivables (at cost)		177,008	-	-	-	177,008	-
Other receivables (write-down)		(207)	-	-	-	(207)	-
Interest receivable		495	-	-	-	495	-
Fair value of financial instruments held for cash-flow hedging	2	45,091	-	-	45,091	-	-
Fair value receivable - financial instruments related to FV hedging	2	23,442	1,931	21,511	-	-	-
Deferred charges and accrued income		86,973	-	-	-	86,973	-
Cash and cash equivalents		1,010,306	-	-	-	1,010,306	-
Short-term investments: bank term deposits		373,904	-	-	-	373,904	-
Short-term investments: term deposits (other)		5	-	-	-	5	-
Cash-in-hand and bank current accounts		636,397	-	-	-	636,397	-
TOTAL OF FINANCIAL INSTRUMENTS (ASSETS)		2,710,921	1,931	21,511	45,091	2,634,036	8,352

Carrying amount

Thousands of Euros	Level	Fair value	Held for trading - economic hedging	Fair value hedge accounting	Cash Flow hedge accounting	Loans, receivables and payables	Financial assets at FV through OCI
LIABILITIES							
Financial debt		2,495,431	-	-	-	2,424,331	-
Non-current							
Bank loans		1,276,100	-	-	-	1,205,000	-
Lease liability		52,865	-	-	-	52,865	-
Other loans		447,289	-	-	-	447,289	-
Current							
Short term bank loans		576,056	-	-	-	576,056	-
Bank overdrafts		8,678	-	-	-	8,678	-
Short term loan: commercial paper		134,282	-	-	-	134,282	-
Other loans		162	-	-	-	162	-
Trade and other payables		2,442,433	19,589	18,708	57,957	2,346,180	-
Non-current							
Other long term debts		5,682	-	-	-	5,682	-
Investments grants and deferred income from grants		17,823	-	-	-	17,823	-
Current							
Trade payables		1,896,099	-	-	-	1,896,099	-
Advances received on contracts in progress		32,180	-	-	-	32,180	-
Tax - other than income tax - payable		38,317	-	-	-	38,317	-
Payroll and related charges		135,835	-	-	-	135,835	-
Other amounts payable		39,733	-	-	-	39,733	-
Dividends payable		11,618	-	-	-	11,618	-
Accrued interest payable		9,109	-	-	-	9,109	-
Fair value financial instrument held for cash flow hedging	2	57,957	-	-	57,957	-	-
Fair value payable - financial instruments related to FV hedging	2	38,296	19,589	18,708	-	-	-
Accrued charges and deferred income		159,784	-	-	-	159,784	-
TOTAL OF FINANCIAL INSTRUMENTS (LIABILITIES)		4,937,864	19,589	18,708	57,957	4,770,511	-

AS AT THE END OF THE FINANCIAL YEAR

Carrying amount

			Held for trading -	Fair value	Cash Flow	Loans, receivables	Financial assets at FV
Thousands of Euros	Level	Fair value	economic hedging	hedge accounting	hedge accounting	and payables	through OCI
ASSETS							
Financial assets at fair value through Other Comprehensive Income		14,120	-	-	-	<u>-</u>	14,120
Financial assets at fair value through Other Comprehensive Income - Shares	1	14,120	-	-	-	-	14,120
Loans granted		2,777	-	-	-	2,777	-
Loans to associates and non consolidated affiliates		2,777	-	-	-	2,777	-
Trade and other receivables		1,852,705	3,977	9,868	80,452	1,758,408	-
Non-current							
Cash guarantees and deposits		9,737	-	-	-	9,737	-
Other receivables maturing in more than 1 year		10,217	-	-	-	10,217	-
Assets employee benefits		718	-	-	-	718	-
Current							
Trade receivables (at cost)		1,394,540	-	-	-	1,394,540	-
Trade receivables (write-down)		(18,771)	-	-	-	(18,771)	-
Other receivables (at cost)		243,746	-	-	-	243,746	-
Other receivables (write-down)		(207)	-	-	-	(207)	-
Interest receivable		1,439	-	-	-	1,439	-
Fair value of financial instruments held for cash-flow hedging	2	80,452	-	-	80,452	-	-
Fair value receivable - financial instruments related to FV hedging	2	13,845	3,977	9,868	-	-	-
Deferred charges and accrued income		116,989	-	-	-	116,989	-
Cash and cash equivalents		1,194,436	-	-	-	1,194,436	-
Short-term investments: bank term deposits		272,965	-	-	-	272,965	-
Short-term investments: term deposits (other)		43	-	-	-	43	-
Cash-in-hand and bank current accounts		921,428	-	-	-	921,428	-
TOTAL OF FINANCIAL INSTRUMENTS (ASSETS)		3,064,038	3,977	9,868	80,452	2,955,621	14,120

Carrying amount

Thousands of Euros	Level	Fair value	Held for trading - economic hedging	Fair value hedge accounting	Cash Flow hedge accounting	Loans, receivables and payables	Financial assets at FV through OCI
LIABILITIES							
Financial debt		2,182,852	-	-	-	2,154,884	-
Non-current							
Bank loans		1,232,968	-	-	-	1,205,000	-
Lease liability		62,892	-	-	-	62,892	-
Other loans		456,145	-	-	-	456,145	-
Current							
Short term bank loans		374,720	-	-	-	374,720	-
Bank overdrafts		28,122	-	-	-	28,122	-
Short term loan: commercial paper		8,005	-	-	-	8,005	-
Other loans		20,001	-	-	-	20,001	-
Trade and other payables		2,855,327	433	31,874	24,504	2,798,516	-
Non-current							
Other long term debts		6,540	-	-	-	6,540	-
Investments grants and deferred income from grants		40,821	-	-	-	40,821	-
Current							
Trade payables		2,196,225	-	-	-	2,196,225	-
Advances received on contracts in progress		29,851	-	-	-	29,851	-
Tax - other than income tax - payable		32,885	-	-	-	32,885	-
Payroll and related charges		168,014	-	-	-	168,014	-
Other amounts payable		67,708	-	-	-	67,708	-
Dividends payable		11,612	-	-	-	11,612	-
Accrued interest payable		10,326	-	-	-	10,326	-
Fair value financial instrument held for cash flow hedging	2	24,504	-	-	24,504	-	-
Fair value payable - financial instruments related to FV hedging	2	32,307	433	31,874	-	-	-
Accrued charges and deferred income		234,534	-	-	-	234,534	-
TOTAL OF FINANCIAL INSTRUMENTS (LIABILITIES)		5,038,179	433	31,874	24,504	4,953,400	-

Loans and debt have been issued at market rates which would not create any major differences with effective interest expenses. All categories of financial instruments of Umicore are at fair value except the non-current bank loans for which the carrying amounts differ from the fair value (see note F24). The fair value of financial instruments traded in active market is based on quoted market prices at the end of the reporting period. The fair value of financial instruments that are not traded in an active market is determined using valuation techniques, mainly discounted cash-flow, using market assumptions prevailing at the end of the reporting period. In particular, the fair value of interest rate swaps is calculated as the present value of the estimated future cash flows. The fair value of forward foreign exchange, metal and energy contracts is determined using quoted forward exchange, metal and energy rates at the end of the reporting period. The fair value of financial liabilities is estimated by discounting the future contractual cash flows at the current market interest rate that is available to the Group for similar financial instruments. The carrying value less impairment provision of trade receivables and payables are assumed to approximate their fair values.

32.1 Fair value hierarchy

The Group adopted the amendment to IFRS 7 for financial instruments which are measured in the balance sheet at fair value, with effect from January 2009. This amendment requires disclosures of fair value measurements by level, based on the following fair value measurement hierarchy:

- Level 1: fair value based on quoted prices in active markets for identical assets or liabilities.
- Level 2: fair value based on inputs other than quoted prices that are observable for the asset or liability, either directly or indirectly.
- Level 3: fair value for the asset or liability valuation are based on unobservable inputs.

In the Group, the fair values on financial assets at fair value through OCI are measured as level 1.

All the metal, energy and foreign currency derivatives are measured as level 2.

During the year, there were no transfer between levels in the fair value hierarchy.

32.2 Sensitivity analysis on financial instruments

Umicore is sensitive to commodity prices, foreign currency and interest rate risk on its financial instruments. The fair values of the financial instruments reflect the difference between the contract rates and the closing rates. The sensitivity calculations are performed by stressing the closing rates (being commodity prices, currency exchange rates, electricity and gas prices and interest rates) with 10% up and down. The market values in the stressed scenario's are then compared to the original market values.

32.2.1 Commodity prices

The fair value on financial instruments related to cash flow hedging sales would have been € 14.4 million lower/higher if the metal prices would strengthen/weaken by 10%.

The fair value on financial instruments related to cash flow hedging purchases would have been € 6.5 million higher/lower if the energy prices would strengthen/weaken by 10%. The fair value on financial instruments related to cash flow hedging purchases would have been € 4.7 million higher/lower if the metal prices would strengthen/weaken by 10%.

The fair value on other commodity sales hedge compliant financial instruments would have been € 26.1 million lower/higher and the fair value on other commodity purchases hedge compliant financial instruments would have been € 8.7 million higher/lower if the metal prices would strengthen/weaken by 10%.

The fair value on other commodity sales financial instruments according to economic logic would have been € 5.7 million lower/higher and the fair value on other commodity purchases financial instruments according to economic logic would have been € 5.9 million higher/lower if the metal prices would strengthen/weaken by 10%.

32.2.2 Foreign currency

The fair value of forward currency contracts related to cash flow hedging would have been € 28.7 million higher if the EUR would strengthen against USD by 10% and would have been € 35.1 million lower if the EUR would weaken against USD by 10%.

The fair value of forward currency contracts related to cash flow hedging would have been € 10.6 million lower if the USD would strengthen against KRW by 10% and would have been € 10.6 million higher if the USD would weaken against KRW by 10%.

The fair value of forward currency contracts related to cash flow hedging would have been € 5.7 million higher if the EUR would strengthen against CNY by 10% and would have been € 6.9 million lower if EUR would weaken against CNY by 10%.

The fair value of forward currency contracts related to cash flow hedging would have been € 9.8 million lower if the USD would strengthen against CNY by 10% and would have been € 5.7 million higher if USD would weaken against CNY by 10%.

The fair value of forward currency contracts related to cash flow hedging would have been € 6.4 million lower if the USD would strengthen against BRL by 10% and would have been € 6.4 million higher if USD would weaken against BRL by 10%.

The fair value of forward currency contracts related to cash flow hedging would have been € 2.5 million lower if the USD would strengthen against CAD by 10% and would have been € 3.1 million higher if USD would weaken against CAD by 10%.

The fair value of forward currency contracts related to cash flow hedging would have been € 2.6 million lower if the EUR would strengthen against PLN by 10% and would have been € 3.2 million higher if EUR would weaken against PLN by 10%.

The fair value of other forward currency contracts sold would have been € 40.5 million higher if the EUR would strengthen against USD by 10% and would have been € 49.5 million lower if the EUR would weaken against USD by 10%.

The fair value of other forward currency contracts bought would have been € 9.5 million lower if the EUR would strengthen against USD by 10% and would have been € 11.7 million higher if the EUR would weaken against USD by 10%.

The fair value of net position of current assets and liabilities exposed to USD would have been € 5.5 million lower if the EUR would strengthen against USD by 10% and would have been € 6.8 million higher if the EUR would weaken against USD by 10%.

The fair value of other forward currency contracts sold would have been € 13.0 million higher if the EUR would strengthen against CNY by 10% and would have been € 15.8 million lower if the EUR would weaken against CNY by 10%.

The fair value of net position of current assets and liabilities exposed to CNY would have been € 33.2 million lower if the EUR would strengthen against CNY by 10% and would have been € 40.6 million higher if the EUR would weaken against CNY by 10%.

The fair value of other forward currency contracts sold would have been € 17.3 million higher if the CNY would strengthen against USD by 10% and would have been € 18.2 million lower if the CNY would weaken against USD by 10%.

The fair value of other forward currency contracts bought would have been € 4.3 million lower if the EUR would strengthen against PLN by 10% and would have been € 5.2 million higher if the EUR would weaken against PLN by 10%.

The fair value of net position of current assets and liabilities exposed to PLN would have been € 12.2 million higher if the EUR would strengthen against PLN by 10% and would have been € 14.9 million lower if the EUR would weaken against PLN by 10%.

The fair value of other forward currency contracts sold would have been € 8.1 million higher if the EUR would strengthen against HKD by 10% and would have been € 9.9 million lower if the EUR would weaken against HKD by 10%.

The fair value of net position of current assets and liabilities exposed to HKD would have been € 8.1 million lower if the EUR would strengthen against HKD by 10% and would have been € 9.9 million higher if the EUR would weaken against HKD by 10%.

The fair value of other forward currency contracts sold would have been € 5.5 million higher if the KRW would strengthen against USD by 10% and would have been € 5.5 million lower if the KRW would weaken against USD by 10%.

The fair value of other forward currency contracts bought would have been € 4.2 million higher if the KRW would strengthen against USD by 10% and would have been € 4.2 million lower if the KRW would weaken against USD by 10%.

The fair value of net position of current assets and liabilities exposed to KRW would have been € 9.9 million lower if the EUR would strengthen against KRW by 10% and would have been € 12.1 million higher if the EUR would weaken against KRW by 10%.

32.2.3 Interest rate

The fair value of long term loans would have been € 1 million lower if interest rate levels would increase by 10% and € 1 million higher if interest rate levels would decrease by 10%.

F33 Fair value of financial instruments (derivatives)

Umicore hedges its structural and transactional commodity (metal and energy), currency and interest rate risks using respectively commodity derivatives (mainly quoted on the London Metal Exchange), currency derivatives and Interest Rate Swaps with reputable brokers and banks.

33.1 Financial instruments related to cash-flow hedging

	Notional or Con	tractual amount		Fair value	Change in fair value
Thousands of Euros	31/12/2020	31/12/2021	31/12/2020	31/12/2021	31/12/2021
Forward commodities sales	131,855	156,750	(49,786)	11,241	61,027
Forward commodities purchases	(86,877)	(52,394)	22,099	59,564	37,465
Forward currency contracts sales	641,320	681,471	12,606	(16,315)	(28,921)
Forward currency contracts purchases	(79,688)	(57,804)	2,986	4,621	1,635
Forward IRS contracts	40,000	396,600	(771)	(3,164)	(2,393)
Total fair value impact subsidiaries			(12,866)	55,947	68,813
recognized under trade and other receivables			45,091	80,452	
recognized under trade and other payables			(57,957)	(24,504)	
Total fair value impact associates and					
joint ventures			1,114	(1,953)	
Total			(11,752)	53,995	

The principles and documentation on the hedged risks as well as the timing related to the Group's cash flow hedging operations are included in note F3 Financial risk management.

The fair values of the effective hedging instruments are in the first instance recognized in the fair value reserves recorded in equity and are derecognized when the underlying forecasted or committed transactions occur (see note F23).

The forward commodities sales contracts are set up to hedge primarily the following commodities: gold, silver, palladium, platinum nickel, lead and copper. The forward commodity purchase contracts are set

up to hedge primarily the electricity, gas and fuel oil price risks and the commodity nickel. The forward currency contracts are set up to hedge USD towards EUR, KRW, CNY, BRL and CAD as well as EUR towards PLN and CNY. The terms and conditions of the forward contracts are common market conditions.

Umicore did not face any ineffectiveness on cash flow hedging in P&L in 2020 and 2021.

The fair values of the hedging instruments reflect the difference between the contract rates and the closing rates. The total fair value of financial instruments for cash-flow hedging has a positive impact on the fair value reserves in equity at end of 2021. This positive impact is most significant for commodities purchased, while forward currency contracts offset part of this positive impact. All of the hedging instruments have their maturity within the next three years.

33.2 Financial instruments related to fair value hedging

	Notional or Cont	ractual amount		Fair value	Change in fair value
Thousands of Euros	31/12/2020	31/12/2021	31/12/2020	31/12/2021	31/12/2021
Forward commodities sales (IFRS 9- hedge accounting)	-	259,702	-	(14,858)	(14,858)
Forward commodities sales (economic hedging)	303,729	59,432	(19,549)	1,984	21,533
Forward commodities purchases (IFRS 9-hedge accounting)		(82,064)	-	4,934	4,934
Forward commodities purchases (economic hedging)	(33,687)	(58,194)	1,891	1,560	(331)
Forward currency contracts sales	1,532,188	1,216,640	5,342	(12,232)	(17,575)
Forward currency contracts purchases	(536,554)	(494,154)	(2,539)	150	2,689
Total fair value impact subsidiaries			(14,854)	(18,462)	(3,609)
recognized under trade and other receivables (IFRS 9- hedge accounting)			21,511	9,868	
recognized under trade and other receivables (economic hedging)			1,931	3,977	
recognized under trade and other payables (IFRS 9- hedge accounting)			(18,708)	(31,875)	
recognized under trade and other payables (economic hedging)			(19,589)	(433)	
Total			(14,854)	(18,462)	

The principles and documentation related to the Group's transactional hedging are included in note F3 "Financial Risk Management". Under Umicore's economical hedging policy, financial instruments for currency and commodity hedging are used to protect the fair value of underlying hedged items (assets, liabilities and firm commitments) and are recognized at fair value at closing date. Umicore obtained for the fair value hedging of its currency risk exposures hedge accounting under the criteria of IFRS 9 (see note F2.21.1).

For the fair value hedging of its commodity risk exposures, Umicore did not obtain hedge accounting under the criteria of IFRS 9 for some metals. Hedge accounting principles are accepted for copper, lead and nickel. In the absence of hedge accounting, the financial instruments are measured at fair value as if they were held for trading. However, such instruments are being used to cover existing transactions, considered as hedged items under Umicore transactional hedging risk policy (primarily inventory and firm commitments) and so these commodity hedging instruments held for trading are not speculative in nature.

The fair values are immediately recognized in the income statement under Other Operating income for the commodity instruments and the Net Finance cost for the currency instruments. The adjustments for the hedged items as well as the hedging instruments are recorded in the following caption of the statement of financial position: "trade and other receivables" and "trade and other payables".

The fair values of the hedging instruments reflect the difference between the contract rates and the market closing rates. In view of the intent of the Group policy on transactional hedging, the net impact on operating income of fair value movements on both hedging instruments and hedged items is neutral. The booking of the fair value movements on financial instruments under fair value hedging had a negative impact on the operating income at the end of 2021. Most of the fair values of the hedging instruments are not significant as the closing rates do not materially differ from the strike rates. Only for the commodities sold the fair values are significant. These concern metal hedging instruments of which most have their maturity within the next year. The forward commodities sales contracts are set up to hedge primarily the following commodities: nickel, lead and copper. The forward commodity purchase contracts are set up to hedge primarily nickel, lead and copper. The forward currency contracts are set up to hedge mainly USD towards EUR, KRW, CNY, BRL and CAD as well as EUR towards CNY, HKD, KRW, JPY, THB, DKK and PLN.

The forward contracts following the economic logic are contracts to hedge following commodities: silver, gold, platinum and palladium.

Fair value hedged items and hedging instruments compliant with IFRS 9 hedge accounting

	31/12/20	020	31/12/	/2021			
Thousands of Euros	Fair Value Hedged Items	Fair Value Hedging Instruments	Fair Value Hedged Items	Fair Value Hedging Instruments		Change in Fair Value Hedging Instruments	Ineffectiveness
Transactional metal hedges	14,499	(5,614)	18,905	(12,031)	4,406	(6,417)	(2,011)

The main source of hedge ineffectiveness on the fair value hedging originates from forward curve impacts on the base metals, in particular the negative impact from backwardation curve on copper and nickel. With respect to the fair value currency hedges, the hedged items are mirroring the hedging instruments and are included in various sections of the balance sheet. The total fair value on these transactional currency hedges amounted to a loss of € 12.1 million. The ineffectiveness on currency hedges is immaterial.

AS AT THE END OF PREVIOUS YEAR

	Earliest cont	ractual maturity (u	ındiscounted) - no	tional amounts		Earliest contractual maturity (undiscounted) - fair value				
			3 Months to 1					3 Months to 1		
Thousands of Euros	< 1 Month	1 to 3 Months	Year	1 to 5 Years	Total	< 1 Month	1 to 3 Months	Year	1 to 5 Years	Total
FINANCIAL INSTRUMENTS ASSETS (FAIR VALUE)										
Commodity risk										
Total forward sales (CFH)	-	249	661	743	1,653	-	6	7	(4)	9
Total forward purchases (CFH)	2,719	5,547	35,851	42,760	86,877	1,007	2,081	10,155	8,855	22,099
Total forward purchases (FV economic hedging)	15,741	14,752	-	-	30,493	1,151	780	-	-	1,931
FX Risk										
Forward currency contracts sales (CFH)	32,269	55,116	260,213	204,150	551,748	1,452	2,436	11,856	4,254	19,997
Forward currency contracts purchases (CFH)	3,336	6,807	28,824	33,226	72,194	103	210	1,042	1,632	2,986
Forward currency contracts sales (FV - IFRS 9 Hedge Accounting)	594,604	522,845	173,820	-	1,291,269	6,530	5,360	5,008	-	16,897
Forward currency contracts purchases (FV - IFRS 9 Hedge Accounting)	98,242	10,145	1,786	630	110,803	4,478	124	4	8	4,614
FINANCIAL INSTRUMENTS LIABILITIES (FAIR VALUE)										
Interest Rate Risk										
Interest rate swaps	-	-	-	40,000	40,000	-	-	-	(771)	(771)
Commodity risk										
Total forward sales (CFH)	288	15,247	46,867	67,800	130,202	(13)	(8,268)	(24,383)	(17,131)	(49,795)
Total forward sales (FV economic hedging)	44,004	162,083	97,642	-	303,729	(6,675)	(11,827)	(1,047)	-	(19,549)
Total forward purchases (FV economic hedging)	3,195	-	-	-	3,195	(40)	-	-	-	(40)
FX Risk										
Forward currency contracts sales (CFH)	3,148	8,156	34,112	39,750	85,167	(458)	(927)	(4,381)	(1,626)	(7,391)
Forward currency contracts sales (FV - IFRS 9 Hedge Accounting)	92,962	56,711	91,247	-	240,920	(7,111)	(3,228)	(1,216)	-	(11,555)
Forward currency contracts purchases (FV - IFRS 9 Hedge Accounting)	211,408	144,148	51,452	18,743	425,751	(2,293)	(2,847)	(1,628)	(385)	(7,153)



AS AT THE END OF THE FINANCIAL YEAR

	Earliest cont	ractual maturity (u	ndiscounted) - no	tional amounts	ts		Earliest contractual maturity (undiscounted) - fair value				
			3 Months to 1					3 Months to 1			
Thousands of Euros	< 1 Month	1 to 3 Months	Year	1 to 5 Years	Total	< 1 Month	1 to 3 Months	Year	1 to 5 Years	Total	
Financial Instruments Assets											
Interest Rate Risk											
(Cross-currency) Interest rate swaps	-	-	-	121,600	121,600	-	-	-	47	47	
Commodity risk											
Total forward sales (CFH)	10,140	33,666	43,231	55,937	142,974	191	(254)	(509)	12,444	11,872	
Total forward purchases (CFH)	2,475	4,952	32,113	12,854	52,394	1,515	3,006	43,242	11,801	59,564	
Total forward purchases (FV - IFRS 9 Hedge Accounting)	25,929	30,273	25,862	-	82,064	1,445	1,528	1,961	-	4,934	
Total forward sales (FV economic hedging)	-	43,666	2,592	-	46,258	-	2,224	193	-	2,417	
Total forward purchases (FV economic hedging)	14,932	40,885	2,377	-	58,194	497	1,041	21	-	1,560	
FX Risk											
Forward currency contracts sales (CFH)	32,617	9,338	49,359	23,610	114,924	963	501	2,865	18	4,348	
Forward currency contracts purchases (CFH)	2,475	4,952	34,319	16,058	57,804	337	680	3,287	317	4,621	
Forward currency contracts sales (FV - IFRS 9 Hedge Accounting)	81,149	40,909	25,430	-	147,488	755	306	256	-	1,318	
Forward currency contracts purchases (FV - IFRS 9 Hedge Accounting)	121,549	78,972	47,854	385	248,759	1,419	394	1,801	1	3,616	
Financial Instruments Liabilities											
Interest Rate Risk											
(Cross-currency) Interest rate swaps	-	-	-	275,000	275,000	-	-	-	(3,211)	(3,211)	
Commodity risk											
Total forward sales (CFH)	305	1,870	6,514	5,087	13,776	(55)	(87)	(337)	(152)	(631)	
Total forward sales (FV - IFRS 9 Hedge Accounting)	65,774	94,180	58,764	40,983	259,702	(2,455)	(3,406)	(5,197)	(3,801)	(14,858)	
Total forward sales (FV economic hedging)	-	-	13,174	-	13,174	-	-	(433)	-	(433)	
FX Risk											
Forward currency contracts sales (CFH)	41,509	44,982	256,654	223,401	566,547	(1,894)	(1,744)	(10,605)	(6,420)	(20,663)	
Forward currency contracts sales (FV - IFRS 9 Hedge Accounting)	486,931	351,714	192,287	38,220	1,069,152	(5,800)	(6,746)	(1,148)	144	(13,550)	
Forward currency contracts purchases (FV - IFRS 9 Hedge Accounting)	76,362	115,950	53,083	-	245,394	(720)	(2,398)	(348)	-	(3,466)	

F34 Notes to the cash flow statement

34.1 Definitions

The cash flow statement identifies operating, investing and financing activities for the period.

Umicore uses the indirect method for the operating cash flows. The net profit and loss is adjusted for:

- the effects of non-cash transactions such as provisions, impairment losses, mark to market, etc., and the variance in operating capital requirements.
- items of income or expense associated with investing or financing cash flows.

Thousands of Euros	2020	2021
Adjustments for non cash transactions		
Depreciations	267,941	279,526
(Reversal) Impairment charges	87,543	48,504
Mark to market of inventories and commitments	464	19,764
Exchange difference on long-term loans	(4,169)	4,878
Inventories and bad debt provisions	7,012	10,747
Depreciation on government grants	(199)	(401)
Share-based payments	10,108	14,255
Change in provisions	80,323	22,662
Total	449,023	399,936
Adjustments for items to disclose separately or under investing and financing cash flows		
Tax charge of the period	59,131	179,043
Interest (income) charges	57,910	51,498
(Gain) loss on disposal of fixed assets	(760)	(1,759)
Dividend income	(230)	(210
Total	116,051	228,573
Change in working capital requirement analysis		
Inventories	(255,762)	(150,979)
Trade and other receivables	(237,694)	(171,084
Trade and other payables	531,216	449,647
As in the consolidated balance sheet	37,760	127,584
Non-cash items (*)	17,742	35,113
Items disclosed elsewhere (**)	(37,822)	(52,810)
Impact of business combination	(3,136)	-
Currency translation differences	(118,300)	57,269
As in the consolidated cash flow statement	(103,756)	167,154

- (*) Non-cash items are mainly linked to mark to market of inventories and commitments, strategic and transactional hedging and inventories, impairments in inventories and bad debt provisions.
- (**) Item disclosed elsewhere are mainly due to changes in interest, dividend and tax receivable and payable and government grants.

Thousands of Euros	Net cash and cash equivalent	Loans (w/o bank overdrafts)	Net financial debt
At the end of previous year	1,001,629	2,415,654	1,414,025
Cash flow of the period	164,686	(288,892)	(453,578)
AT THE END OF THE FINANCIAL YEAR	1,166,315	2,126,762	960,447

34.2 Net cash flow generated by operating activities

Operating cash flow after tax from continuing operations is € 1,259 million. The net working capital requirements for continuing operations decreased with € 167.2 million in 2021 compared to 2020. This is a further reduction of \in 137 million compared to end of June 2021 which benefited from some temporary cut-off effects. Working capital came down in all business groups, but most so in Catalysis where it reflects lower precious metal prices and softer volumes in the second half. At current metal prices, working capital in 2022 is expected to increase from the levels of end of 2021.

34.3 Net cash flow used in investing activities

Net cash used in investing activities for continuing operations increased by € 42.0 million in 2021. Capital expenditure for continuing operations reached € 388.6 million (compared to € 403.2 million in 2020) if capitalized R&D costs are excluded as per Umicore's definition of capital expenditures (refer to Glossary). Energy & Surface Technologies accounted for close to 60 % of the Group's capital expenditures, driven by Rechargeable Battery Materials' European expansion investments. This implies a temporary slow-down in Energy & Surface Technologies' capital expenditures compared to 2020 but is expected to result in some capital expenditures spill-over effect into 2022. In Catalysis and Recycling, capital expenditures only slightly increased compared to the low spending levels of 2020. In Catalysis, Automotive Catalysts continued to focus on production footprint optimization investments and targeted capacity expansions. In Recycling, the capital expenditures' increase was earmarked for environmental and safety-related investments in Precious Metals Refining. Capitalized development expenses amounted to € 27.8 million, slightly down versus 2020.

The acquisition of the remaining 8.8 % minority shares in the listed subsidiary Allgemeine Gold- und Silberscheideanstalt AG (Germany) and its subsequent delisting resulted in a cash out of € 53.9 million in the second half.

34.4 Net cash flow used in financing activities

The cash used in financing activities is mainly related to the purchase and use of own shares to cover the exercise of options (€ 22.2 million), the payment of dividends (€ 186.5 million) and of interest (€ 42.4 million) and the reimbursement of the lease liability (€ 19.5 million).

Capital expenditure for continuing operations	403,168	388,596
Capitalized R&D	32,368	27,830
Acquisitions of assets	435,535	416,426
Acquisition of intangible assets	44,060	36,854
Acquisition of tangible assets	391,475	379,572
Thousands of Euros	2020	2021

The effect of exchange rate fluctuations in the statement of cash flow includes the effect of exchange rate fluctuations on cash held on one hand and the currency translation effect on the intercompany loan eliminations on the other hand.

F35 Off-balance sheet rights and commitments

Thousands of Euros	2020	2021
Guarantees constituted by third parties on behalf of the Group	30,999	38,112
Guarantees constituted by the Group on behalf of third parties	6,940	3,112
Guarantees received	68,596	81,102
Goods and titles held by third parties in their own names but at the Group's risk	1,513,704	1,643,975
Commitments to acquire and sell fixed assets	288	4,278
Commercial commitments for commodities purchased (to be received)	701,475	910,182
Commercial commitments for commodities sold (to be delivered)	1,667,126	1,930,639
Goods and titles of third parties held by the Group	4,930,583	5,447,836
Miscellaneous rights and commitments	288	-
TOTAL	8,919,711	10,059,236

35.1 Guarantees constituted by third parties on behalf of the group

These are secured and unsecured quarantees given by third parties to the creditors of the Group guaranteeing that the Group's debts and commitments, actual and potential, will be satisfactorily discharged.

35.2 Guarantees constituted by the group on behalf of third parties

These are guarantees or irrevocable undertakings given by the Group in favor of third parties guaranteeing the satisfactory discharge of debts or of existing or potential commitments by the third party to its creditors.

There are no loan commitments given to third parties.

35.3 Guarantees received

These are pledges and quarantees received quaranteeing the satisfactory discharge of debts and existing and potential commitments of third parties towards the Group, with the exception of quarantees and security in cash.

The guarantees received are mainly related to supplier guarantees backed by bank institutions. Those guarantees are set up to cover the good execution of work by the supplier.

Some quarantees received are related to customer quarantees, received mainly from a customer's mother company on behalf of one of its subsidiaries. A minor part of the received quarantees is related to rent quarantees.

All guarantees are taken at normal market conditions and their fair value is equivalent to the carrying amount. No re-pledge has been done on any of those guarantees.

35.4 Goods and titles held by third parties in their own names but at the group's risk These represent goods and titles included in the Group balance sheet for which the Group bears the risk and takes the profit, but where these goods and titles are not present on the premises of the Group. It concerns mainly inventories leased out to third parties or held under consignment or under tolling agreement by third parties.

35.5 Commercial commitments

These are firm commitments to deliver or receive metals to customers or from suppliers at fixed prices.

35.6 Goods and titles of third parties held by the Group

These are goods and titles held by the Group, but which are not owned by the Group. It concerns mainly third-party inventories leased in or held under consignment or tolling agreements with third parties. It also includes in a much lesser extent some non-metal leases that are not in the scope of IFRS 16 because of lower values or short-term.

The Group leases metals (particularly gold, silver, platinum and palladium) from and to banks and other third parties for specified, mostly short term, periods and for which the Group pays or receives fees. As at 31 December 2021, there was a net lease-in position of € 1,005 million vs. € 846 million at end of 2020. This increase is mainly caused by higher volumes. As detailed in Note F2.7, those metal leases are not under the scope of IFRS 16.

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F36 Contingencies

As previously disclosed, the Group has a pending file that can be qualified as a contingent liability according to the definition of IFRS. A subsidiary of Element Six Abrasives received notice of a local tax assessment for \leqslant 24.9 million to be grossed up with statutory interests, estimated at 31 December 2021 at \leqslant 14.5 million. On March 8th 2022 a court determination was issued ruling in favour of the company's appeal. The local tax authorities have the possibility to appeal within 28 days of the determination. Umicore retains a 40.22 % interest in Element Six Abrasives and accounts for the company using the equity method.

The Group is the also subject of a number of other claims and legal proceedings incidental to the normal conduct of its business. Management does not believe that such claims and proceedings are likely to have a material adverse effect on the financial condition of Umicore.

F37 Related parties

Thousands of Euros	2020	2021
Transactions with joint ventures and associates		
Operating income	100,444	196,699
Operating expenses	(148,888)	(232,041)
Dividends received	(1,796)	(4,808)
Thousands of Furns	2020	2021

Thousands of Euros	2020	2021
Outstanding balances with joint ventures and associates		
Current trade and other receivables	32,685	39,774
Current trade and other payables	38,779	79,573

The transactions with associates and joint ventures are mainly commercial transactions, sales and purchases of goods and services.

There are no transaction with entities held by key management personnel.

Thousands of Euros	2020	2021
Supervisory Board		
Salaries and other compensation	1,022	1,262
Fixed portion	296	296
Variable portion (based on attended meetings)	373	467
Value of the share grant	350	497
Benefit in kind company car chairman	3	3

No variable or other compensation element (apart from attendance-related fees) is associated with directorship. No loan or guarantees have been granted by the company to members of the supervisory board.

Thousands of Euros	2020	2021
Management Board		
Salaries and other benefits	7,522	18,814
Short-term employee benefits	1,496	11,021
Post-employment benefits	1,052	1,044
Other long-term benefits	492	2,027
Share-based payments	4,483	4,721

The data above shows the accounting view of the supervisory board and management board remuneration and differs from the information provided in the remuneration report in the Corporate Governance section.

In the tables above, the employer social security contributions, if applicable, are included in the short-term employee benefits. These do not feature in the remuneration report.

With regards to share-based incentives the share grant figures included in share-based payments above represent the value of the shares granted in 2021 for services rendered in 2020. The remuneration report shows the value of the shares granted in 2022 for services rendered in the reporting year 2021.

The figures related to the undeferred part of the variable remuneration linked to the individual performance for the reference year 2021, included in short-term employee benefits, represent the level of accruals at balance sheet date. The remuneration report features the actual amounts paid with respect to the reference year 2021.

Accruals booked for the deferred parts of the variable cash remuneration for the reference year 2021 are included in the other long-term benefits. The amounts to be paid in 2024 will depend on long-term performance measures and the exact amounts paid will be included in the remuneration report of 2023.

F38 Events after the reporting period

The Supervisory Board will propose a gross annual dividend of € 0.80 per share at the Annual General Meeting on 28 April 2022. This compares to a full dividend of € 0.75 p.s. paid out for the financial year 2020. Taking into account the interim dividend of \in 0.25 per share paid out on 24 August 2021 and subject to shareholder approval, a gross amount of € 0.55 per share will be paid out on 4 May 2022.

In February 2022, Umicore has signed a € 500 million sustainability-linked loan (SLL), tying for the first time the Group's funding costs to its sustainability performance and successfully refinancing its existing € 300 million syndicated credit facility.

In February 2022, Umicore has signed two separate long-term power purchase agreements (PPAs), with ENGIE and Axpo to source renewable electricity from offshore and onshore wind turbines in Belgium. These agreements will cover more than half of the electricity demand from Umicore's Belgian sites and help the Group achieve its objective to be carbon neutral by 2035.

In February 2022, Umicore announced the signing of an agreement with Automotive Cells Company (ACC) on battery recycling services for the needs of ACC pilot plant in Nersac, France.

Related to the contingent liability linked to a tax assessment received by Element Six Abrasives and subsequent appeal, on March 8th 2022 a court determination was issued ruling in favour of the company's appeal. The local tax authorities have the possibility to appeal within 28 days of the determination.

Umicore is closely monitoring the crisis in Ukraine and assessing any resulting implications to its business. It is currently impossible to fully assess the direct or indirect impact of this crisis on Umicore in view of the fast evolving context and the related uncertainties.

Umicore's sales in 2021 into Russia or Ukraine were negligible on Group level and Umicore has no operational presence in Ukraine and no meaningful operational presence in Russia. Russia, however, is a relevant supplier country to Umicore, to certain of its customers and to certain supply chains it serves. In particular, Russia is an important global producer of certain Platinum Group Metals (mostly palladium and to a lesser extent rhodium) and of nickel. Umicore built a diversified supply base for these metals with supply from various countries and is additionally being supplied through its own recycling operations. Any prolonged absence of supply of these metals as a result of the crisis is expected to increase global supply tightness and potentially disrupt supply chains in some of the markets Umicore serves, particularly in the automotive industry, which could impact demand for Umicore's product and services in these markets. This potential metal supply tightness could trigger severe metal price and trading volatility, which could impact the Group's profitability and cash flows.

Finally, the crisis is resulting in a sharp increase in global energy prices, inflating the Group's operational costs and potentially structurally impacting global economic growth if persistent.

Umicore strongly condemns all acts of war and violence and the company and its employees are engaging into humanitarian support initiatives to help to alleviate the human suffering.

F39 Earnings per share

Earnings per share

(EUR)	2020	2021
EPS - basic	0.54	2.57
EPS - diluted	0.54	2.56
Basic adjusted EPS	1.34	2.77

The following earnings figures have been used as the numerator in the calculation of basic and diluted earnings per share:

NUMERATOR ELEMENTS

Thousands of Euros	Notes	2020	2021
Net consolidated profit, Group share	F9		
From continuing operations		130,530	618,959
Adjusted net consolidated profit, Group share	F9	322,407	667,492

The following numbers of shares have been used as the denominator in the calculation of basic and diluted earnings per share:

DENOMINATOR ELEMENTS

	2020	2021
Total shares issued as at 31 December	246,400,000	246,400,000
of which treasury shares	5,733,685	5,200,995
of which shares outstanding	240,666,315	241,199,005
Weighted average number of outstanding shares	240,589,550	240,868,119
Potential dilution due to stock option plans	1,183,525	1,112,044
Adjusted weighted average number of outstanding shares	241,773,075	241,980,163

Total outstanding shares are after deduction of treasury shares, which are held to cover existing stock option plans or are available for resale. The denominator for the calculation of diluted earnings per share takes into account an adjustment for stock options.

During 2021, no new shares were created as a result of the exercise of stock options with linked subscriptions rights. During the year Umicore used 1,692,190 of its treasury shares in the context of the exercise of stock and 110,500 for shares granted. In the course of 2021, Umicore bought back 1,270,000 own shares. On 31 December 2021, Umicore owned 5,200,995 of its own shares representing 2.11 % of the total number of shares issued as at that date.

F40 IFRS developments

There were no new standards, amendments and interpretation to standards issued, and **mandatory** for the first time for the financial year beginning 1 January 2021 with a material impact on the Group's consolidated financial statements.

In case of material, these are developed in the accounting policies section.

A fundamental reform of major interest rate benchmarks is being undertaken globally, including the replacement of some interbank offered rates (IBORs) with alternative nearly risk-free rates (referred to as 'IBOR reform'). The amendments to IFRS 9 and IAS 39 Financial Instruments: Recognition and Measurement provide a number of reliefs, which apply to all hedging relationships that are directly affected by interest rate benchmark reform. A hedging relationship is affected if the reform gives rise to uncertainty about the timing and/or amount of benchmark-based cash flows of the hedged item or the hedging instrument. These amendments have no impact on the consolidated financial statements of the Umicore Group as it does not have any interest rate hedge relationships that are referenced to LIBOR. In 2021, Umicore set up a working group to monitor the IBOR reform and its potential effect across the Group on contracts.

For all other new interpretations and standards not yet mandatory as from 1 January 2021, management has no indications that this will result in a material impact on the Group's consolidated financial statements.

F41 Auditors' remuneration

The world-wide remuneration for the statutory auditor and its affiliated companies totaled € 2.2 million, including an amount of € 1.8 million for the statutory audit missions (€ 0.5 million for the audit of the mother company) and € 0.4 million for non-statutory audit services including audit-related and other attestation services (\in 0.2 million) and other non-audit related services (\in 0.2 million).

Parent company separate summarized financial statements

The annual accounts of Umicore are given below in summarized form.

In accordance with the Companies code, the annual accounts of Umicore, together with the management report and the statutory auditor's report will be deposited with the National Bank of Belgium.

These documents are also available on request at:

UMICORE Rue du Marais 31 B-1000 Brussels (Belgium)

The statutory auditor did not express any reservations in respect of the annual accounts of Umicore.

The legal reserve of \leq 55.0 million which is included in the retained earnings is not available for distribution.

Thousands of E	uros	31/12/2019	31/12/2020	31/12/2021
Summarized ba	lance sheet at 31 December			
1. Assets				
Fixed assets		2,885,295	3,172,625	3,296,290
l.	Formation expenses	6,066	14,685	10,288
II.	Intangible assets	114,726	99,032	99,067
III.	Tangible assets	467,458	452,430	460,546
IV.	Financial assets	2,297,045	2,606,478	2,726,389
Current assets	i	1,748,153	2,060,640	2,169,189
V.	Amounts receivable after more than one year	449,366	476,214	584,998
VI.	Stocks and contracts in progress	534,771	617,346	503,271
VII.	Amounts receivable within one year	519,135	620,119	861,136
VIII.	Investments	184,701	290,395	185,936
IX.	Cash at bank and in hand	2,190	4,565	559
Х.	Deferred charges and accrued income	57,990	52,001	33,289
TOTAL ASSETS		4,633,448	5,233,265	5,465,479
2. Liabilities a	nd shareholders' equity			
Capital and rese	erves	2,268,310	2,177,834	2,428,079
I.	Capital	550,000	550,000	550,000
II.	Share premium account	848,130	848,130	848,130
III.	Revaluation surplus	91	91	91
IV.	Reserves	389,855	414,075	391,090
V.	Result carried forward	262,604	267,163	352,163
Vbis.	Result for the period	209,258	86,475	272,454
VI.	Investments grants	8,372	11,900	14,151
Provisions and	d deferred taxation			
VII.A	Provisions for liabilities and charges	123,600	206,053	198,047
Creditors		2,241,539	2,849,378	2,839,353
VIII.	Amounts payable after more than one year	1,082,864	1,707,729	1,707,589
IX.	Amounts payable within one year	1,076,244	1,063,641	1,040,392
Х.	Accrued charges and deferred income	82,431	78,008	91,372
TOTAL LIABILIT	IES AND SHAREHOLDERS' EQUITY	4,633,449	5,233,265	5,465,479



Thou	sands	of Euros	31/12/2019	31/12/2020	31/12/2021
Inco	me sta	atement			
	I.	Operating income	3,489,297	4,459,290	6,229,378
	II.	Operating charges	(3,494,693)	(4,481,338)	(5,947,989)
	III.	Operating result	(5,396)	(22,048)	281,389
	IV.	Financial income	259,275	201,457	213,675
	V.	Financial charges	(41,210)	(85,500)	(133,578)
	VI.	Result on ordinary activities before taxes	212,669	93,908	361,486
	Χ.	Income taxes	(3,411)	(7,433)	(51,736)
	XI.	Result for the period	209,258	86,475	309,750
	XIII.	Result for the period available	209,258	86,475	309,750
		of Euros tion account	2019	2020	2021
Α.	Profi	t (loss) to be appropriated	588,668	558,337	661,913
	1.	Profit (loss) for the financial year	209,258	86,475	309,750
	2.	Profit (loss) carried forward	379,410	471,862	352,163
С.	Аррі	ropriation to equity	(24 500)		
		oprionent to equity	(26,598)	(24,220)	22,985
	3.	To the reserve for own shares	(26,598)	(24,220)	22,985 22,985
D.		• • •	. , ,		
D.		To the reserve for own shares	(26,598)	(24,220)	22,985
D. F.	Profi	To the reserve for own shares It (loss) to be carried forward (1)	(26,598) 471,862	(24,220) 352,163	22,985 491,957 491,957
	Profi	To the reserve for own shares it (loss) to be carried forward (1) Profit (loss) to be carried forward	(26,598) 471,862 471,862	(24,220) 352,163 352,163	22,985 491,957 491,957
	Profi	To the reserve for own shares it (loss) to be carried forward (1) Profit (loss) to be carried forward it to be distributed (1)	(26,598) 471,862 471,862	(24,220) 352,163 352,163	22,985 491,957

⁽¹⁾ The total amount of these two items will be amended to allow for the amount of the company's own shares held by Umicore on the date of the Annual General Meeting of Shareholders on 28 April 2022; the gross dividend of EUR 0.80 will be proposed.

Tho	usands	of Euros			Number of shares
Statement of capital					
Α.	Share	e capital			
	1.	Issued capital			
		At the end of the preceding financial year		550,000	246,400,000
		At the end of the financial year		550,000	246,400,000
	2.	Structure of the capital			
		2.1.	Categories of shares		
			Ordinary shares	550,000	246,400,000
		2.2.	Registered shares or bearer shares		
			Registered		43,682,308
			Bearer		202,717,692
E.	Auth	orized unissued capital		55,000	

		% capital	Number of shares	Notification date
G.	Shareholder base (1)			
	Family Trust Desmarais, Albert Frère and Groupe Bruxelles Lambert S.A.	15.98	39,363,737	29/06/2021
	BlackRock Investment Management	4.97	12,239,906	17/09/2021
	Baillie Gifford & Co and Baillie Gifford Overseas Ltd.	10.01	24,660,116	29/09/2021
	Others	66.94	164,935,246	31/12/2021
	Own shares held by Umicore	2.11	5,200,995	31/12/2021
		100.00	246,400,000	
	of which free float	100.00	246,400,000	

⁽¹⁾ At 31 December 2021, 5.201.500 options on Umicore shares are still to be exercized. This amount includes 5.201.500 acquisition rights of existing shares held by Umicore.

Management responsibility statement

We hereby certify that, to the best of our knowledge, the Consolidated Financial Statements as of 31 December 2021, prepared in accordance with the International Financial Reporting Standards (IFRS) as adopted by the European Union, and with legal requirements applicable in Belgium, give a true and fair view of the assets, liabilities, financial position and profit or loss of the Group and the undertakings included in the consolidation taken as a whole, and that the management report includes a fair review of the development and performance of the business and the position of the Group and the undertakings included in the consolidation taken as a whole, together with a description of the principal risks and uncertainties that they face.

11 March 2022,

MATHIAS MIEDREICH CHIEF EXECUTIVE OFFICER

FINANCIAL CALENDAR¹

28 APRIL 2022

General meeting of shareholders (financial year 2021)

22 JUNE 2022

Capital Markets Day

29 JULY 2022

Half year results 2022

1 Dates are subject to change. Please check the Umicore website for updates to the financial calendar - umicore.com



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LANGUAGES

This report is available in English and Dutch

ONLINE

Browse the report online or dowload the report in English: https://annualreport.umicore.com/en/2021

in Dutch: https://annualreport.umicore.com/nl/2021

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