

INVESTOR PRESENTATION

Q2 2021 RESULTS

July 27, 2021

Cautionary Note Regarding Forward-Looking Statements: All matters discussed in this presentation, except for any historical data, are forward-looking statements. Forward-looking statements involve risks and uncertainties that could cause actual results to differ materially from those in the forward-looking statements. These include, but are not limited to, economic conditions and trends in the semiconductor industry generally and the timing of the industry cycles specifically, currency fluctuations, corporate transactions, financing and liquidity matters, the success of restructurings, the timing of significant orders, market acceptance of new products, competitive factors, litigation involving intellectual property, shareholders or other issues, commercial and economic disruption due to natural disasters, terrorist activity, armed conflict or political instability, epidemics and other risks indicated in the Company's reports and financial statements. The Company assumes no obligation nor intends to update or revise any forward-looking statements to reflect future developments or circumstances.

› Strong long term growth prospects

- ASM sales primarily driven by wafer fab equipment investments in the most advanced nodes
- ALD is expected to be a key growth market, ASM has leadership positions in ALD
- Driving structurally higher sales in the other product lines

› Healthy profitability

- Gross margin of 48.1% in Q2 was close to last year's margin of 48.3%, slightly below 49.5% in Q1, and again supported by a positive mix
- Operating margin of 28.7%, up from 25.6% last year and down from 31.6% in Q1

› Strong balance sheet

- Solid cash position of €465m at the end of Q1, no debt
- Start of new €100m '21/'22 buyback program on July 28, 2021
- Regular dividend of €2 per share paid over 2020, up 33% year-on-year

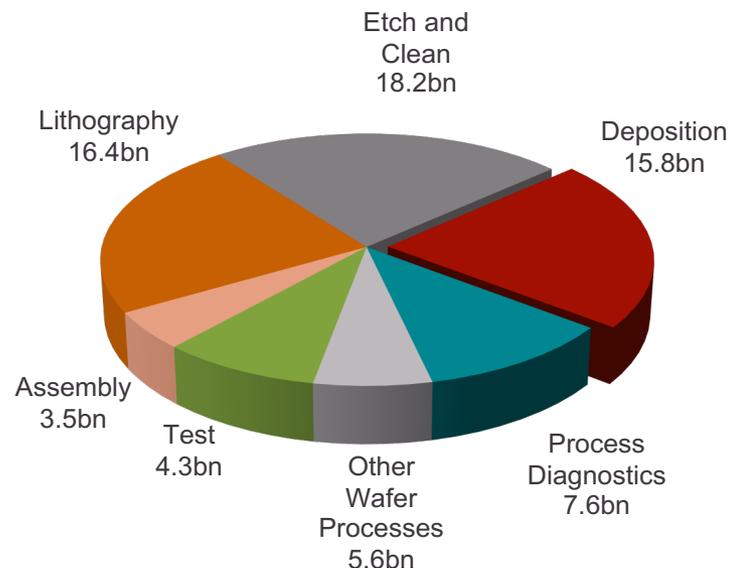
2021 Q2 KEY RESULTS



	Q2 2020	Q1 2021	Q2 2021
New orders	298.0	410.6	515.7
Net sales	341.8	394.0	411.7
Gross profit margin %	48.3%	49.5%	48.1%
Operating result	87.6	124.5	118.4
Operating margin	25.6%	31.6%	28.7%
Normalized result from investments	10.7	13.9	19.3
Amortization intangible assets resulting from the stake sale ASMPT in 2013	(3.3)	(3.0)	(3.0)
Net earnings	74.1	122.5	108.4
Normalized net earnings (excl. amortization intangible assets resulting from the stake sale ASMPT in 2013)	77.4	125.5	111.4

- > ASM is a market leader in ALD
- > Positions in Epitaxy, PECVD and Vertical Furnaces

Equipment market segments 2020 (US\$)



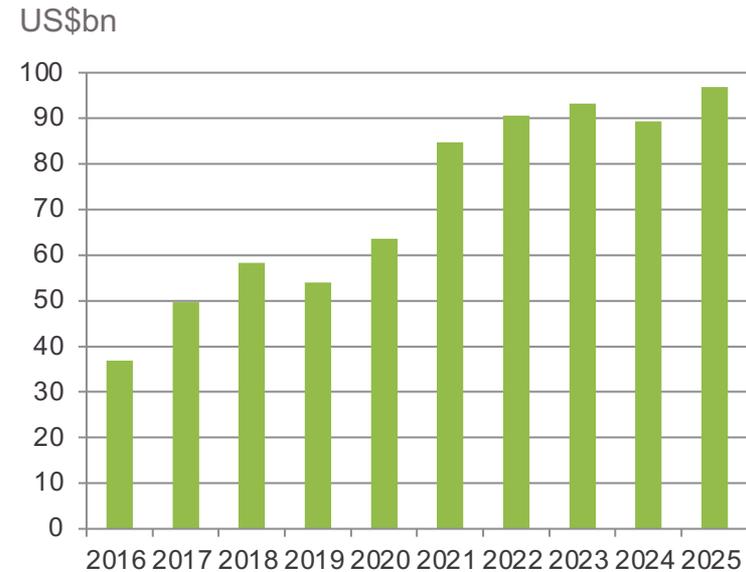
VLSI Research, April 2021

ASM's focus is on deposition equipment

EQUIPMENT MARKET OUTLOOK

- › Gartner expects WFE to increase by 28% in 2021 (July 2021), up from +23% still predicted last April
- › VLSI Research expects WFE to increase by 33% in 2021 (July 2021), up from a previous forecast of +22% last April
- › ASMI's statement on the WFE outlook is as follows: "Based upon the current market developments, the wafer fab equipment (WFE) market is expected to grow by a high twenties to low thirties percentage in 2021."

Wafer Fab Equipment spending

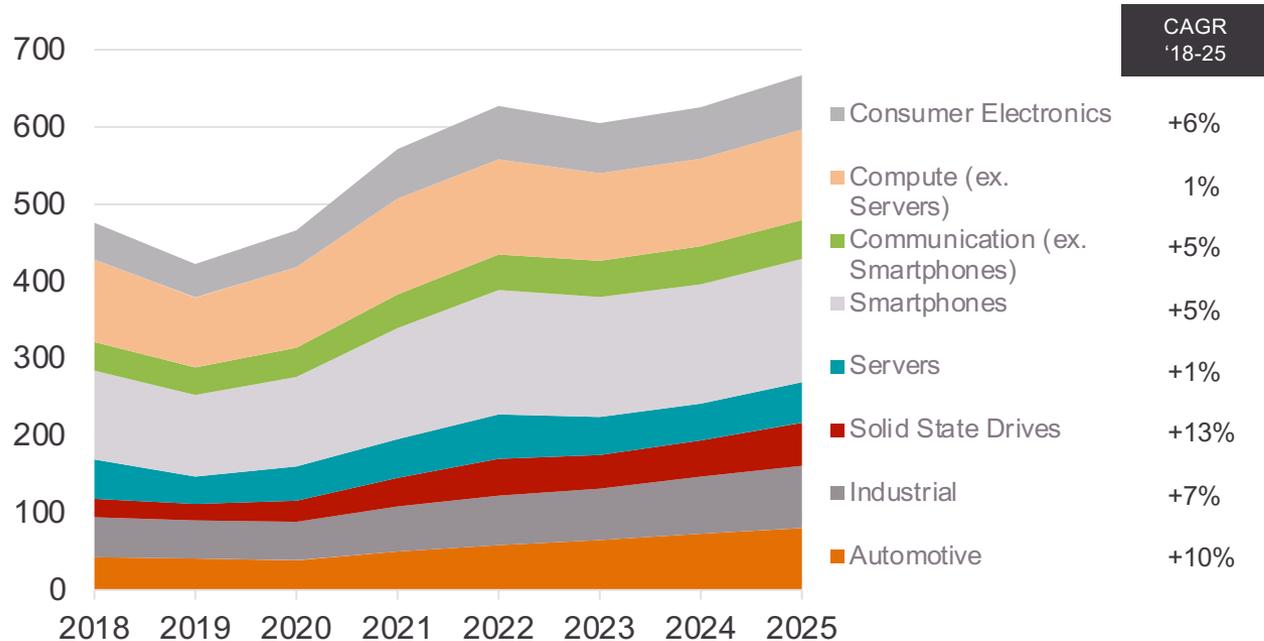


VLSI Research, July 2021

VLSI expects WFE to increase +33% in 2021, Gartner +28% in 2021

SEMICONDUCTOR MARKET GROWTH DRIVERS

Semiconductor sales by key application (in US\$bn)

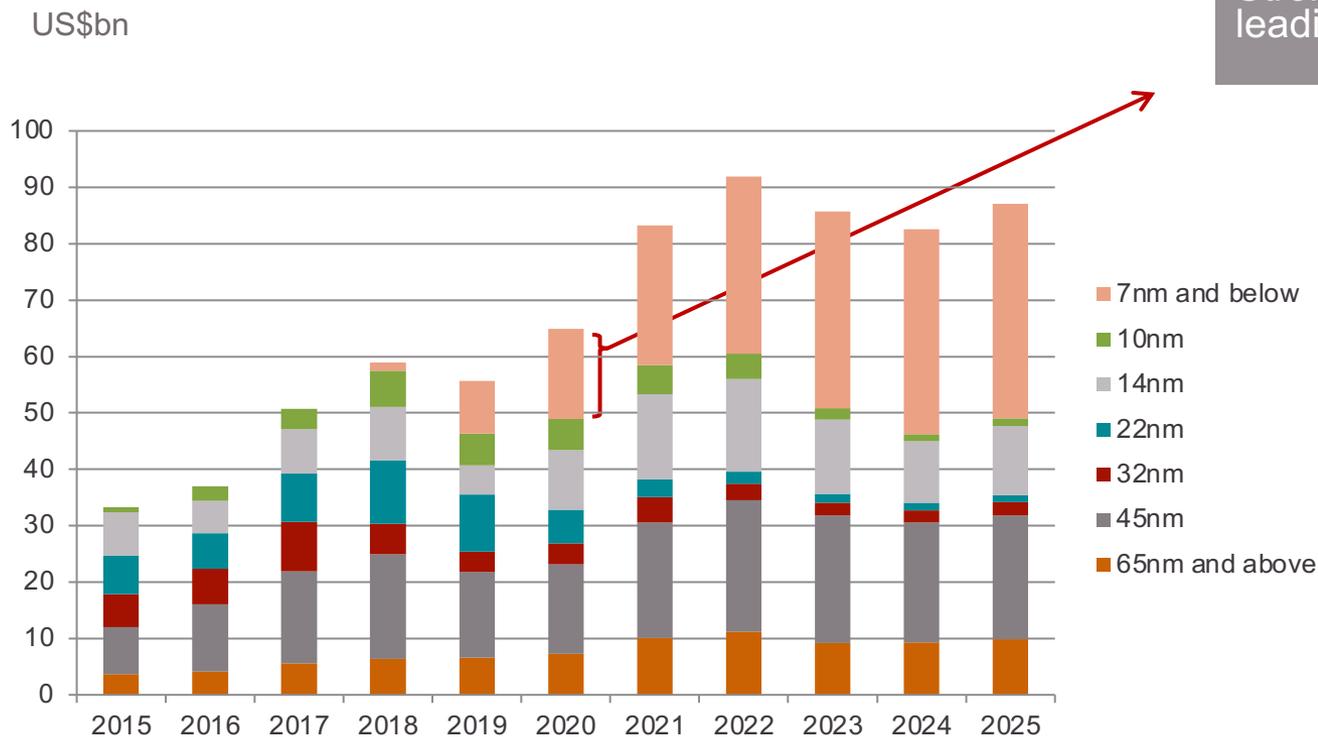


Gartner, June 2021

- › Smartphones expected to resume growth driven by 5G
- › New structural drivers are Solid State Drives, Industrial and Automotive

WAFER FAB EQUIPMENT SPENDING BY NODE

Strongest growth in leading edge nodes



Gartner, July 2021

- > Advanced nodes: market segments with high expected growth
- > 45nm mainly driven by 3D-NAND spending

› **ALD technology is a key enabler of Moore's Law**

- Strengths of Atomic Layer Deposition: high-precision deposition of smooth and conformal ultra-thin films, ability to deposit new materials
- Device scaling, new materials and 3D architectures drive increased demand for ALD

› **ASMI has leading positions in ALD**

- ASMI has strongest position in logic/foundry. Logic/foundry ALD market more than doubled from 14nm/16nm to 7nm
- ALD continued to account for more than half of ASM's equipment revenue in 2020
- Strong focus on increasing our addressable market within single wafer ALD

› **Strong market outlook ALD**

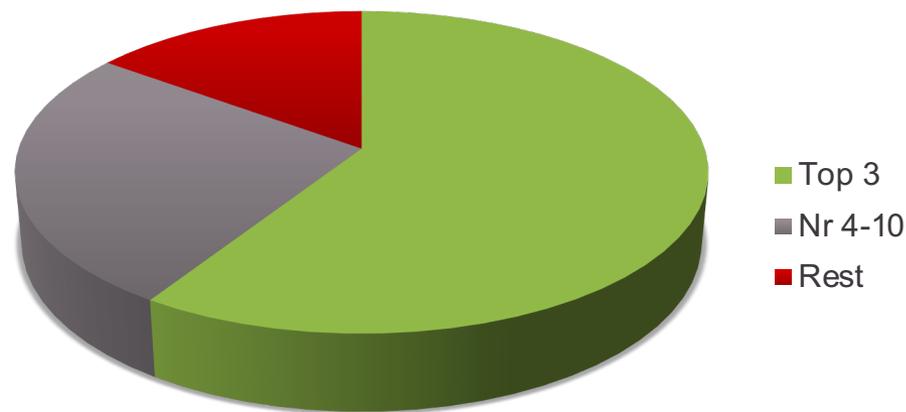
- The CAGR of the single wafer ALD segment is expected to be the highest within the deposition equipment market in the next years

COMPETITIVE ADVANTAGES

- › **Focused player, differentiated technologies**
- › **Track record of innovation**
- › **Global network, streamlined operations**
- › **Leadership in ALD**
 - Developing ALD technology since 1999
 - Leading market share in ALD
- › **Close cooperation with the leading IC manufacturers**
- › **Strong IP portfolio**

ASMI sales 2020

› Engaged with all of the top-10 semiconductor capital equipment spenders



Growing share of wallet with top clients

KEY POINTS DURING THE QUARTER

› COVID-19 update

- The health and safety of our employees continue to be our key priority

› Strong sales momentum in Q2 2021

- Sales increased year-on-year in Q1 by 29% at constant currency and 20% as reported
- Driven by continued strength in the logic/foundry segment, and a solid increase in memory
- Supply chain conditions further tightened during the quarter, but we were still able to meet customer requirements

› Solid growth expected for the ALD market

- The single wafer ALD market reached approx. US\$1.5bn in '20, in line with earlier expectations. We expect the ALD market to grow substantially above this level coming years
- Focus on expanding our addressable market within the single wafer ALD space

› Shareholder remuneration

- Paid regular dividends of €2.00 per share over 2020, up 33% from €1.50 p.s. over 2019 (excluding extraordinary dividend of €1.50 p.s. last year)
- New €100m share buyback, start on July 28, 2021

NEW MANUFACTURING FACILITY IN SINGAPORE

- › Construction completed in Q4 2020
- › Transition of activities completed in Q1 2021
- › Substantial expansion of our manufacturing capacity
- › Increased flexibility to meet customer demands
- › Designed with sustainability in mind



ASMPT RESULTS

	Q2 2020	Q1 2021	Q2 2021
Net profit ASMPT (€ million, 100% based)	43	56	79
Normalized result from investments (including ASMI's share of ASMPT net profit)	10.7	13.9	19.3
Amortization intangible assets resulting from the sale of ASMPT stake in 2013	(3.3)	(3.0)	(3.0)
Results from investments after amortization	7.4	10.9	16.4

- › As of March 2013 our share in ASMPT's net earnings is included in 'result from investments'
- › ASMI's stake in ASMPT amounts to approximately 25%. In 2017, ASMI reduced its stake in two steps from 39% to 25%
- › Related amortization intangible assets is expected to amount to €13m in 2021

FINANCIAL OVERVIEW

Q2 2021 FINANCIAL HIGHLIGHTS

- › Q2 revenue was up 29% y-o-y at constant currencies and up 20% as reported.
Compared to Q1 2021 revenue was up 4% as reported
- › Q2 bookings up 73% y-o-y and up 26% q-o-q with a book-to-bill ratio of 1.3
- › Q2 backlog of €446m up from €345m in Q1
- › Gross margin 48.1% in Q2, close to 48.3% in Q2 2020 and down from 49.5% in Q1 2021
- › SG&A expenses increased by 12% vs. the level in Q2 2020
- › R&D expenses decreased by 8% vs. the level in Q2 2020. They increased by 12% excluding impairment, capitalization and amortization of development expenses
- › Q2 results included a currency translation loss of €2m vs. a translation gain of €16m in Q1 2021 and a loss of €6m in Q2 2020
- › Normalized net earnings* of €111m in Q2 vs. €126m in Q1 and €77m in Q2 2020
- › Free cash flow was €69m in Q2 vs. €89m in Q1 and €8m in Q2 2020

** excluding amortization intangible assets resulting from the stake sale ASMPT in 2013*

Based upon the current backlog and our current visibility:

For Q3, on a currency comparable level, we expect sales of €400-430 million. Q3 bookings, on a currency comparable level, are expected to be in a range of €510-530 million, and also include orders that are planned to be shipped in 2022. Continued tight supply chain conditions are reflected in our sales guidance for Q3 and, based on the current visibility, are also expected to have some impact in Q4, although we do expect Q4 sales to increase compared to the level in Q3.

NET EARNINGS

€ million	Q2 2020	Q1 2021	Q2 2021
New orders	298.0	410.6	515.7
Backlog	317.4	344.5	445.6
Book-to-bill	0.9	1.0	1.3
Net sales	341.8	394.0	411.7
Equipment sales	264.4	319.1	334.9
Spares & service	77.4	74.9	76.8
Gross profit	165.1	195.0	197.9
Gross profit margin %	48.3%	49.5%	48.1%
Selling, general and administrative expenses	(41.0)	(39.9)	(45.8)
Research and development expenses	(36.5)	(30.6)	(33.7)
Operating result	87.6	124.5	118.4
Operating margin %	25.6%	31.6%	28.7%
Net interest expenses	(0.4)	(0.4)	(0.7)
Currency translation gains / (losses)	(5.9)	16.0	(2.1)
Income tax	(14.6)	(28.6)	(23.5)
Normalized result from investments	10.7	13.9	19.3
Amort. intangibles resulting from the stake sale ASMPT 2013	(3.3)	(3.0)	(3.0)
Net earnings	74.1	122.5	108.4
Normalized net earnings (excl. amortization intangibles resulting from the stake sale ASMPT in 2013)	77.4	125.5	111.4

Numbers based on reported financials

R&D EXPENDITURE

€ million	Q2 2020	Q1 2021	Q2 2021
R&D expenditure	(42.2)	(42.7)	(47.3)
Capitalized development expenditure	15.8	17.4	20.3
Amortization capitalized development expenditure	(5.3)	(5.3)	(5.7)
Impairment capitalized development expenditure	(4.8)	-	(1.1)
R&D expenses	(36.5)	(30.6)	(33.7)

CASH FLOW

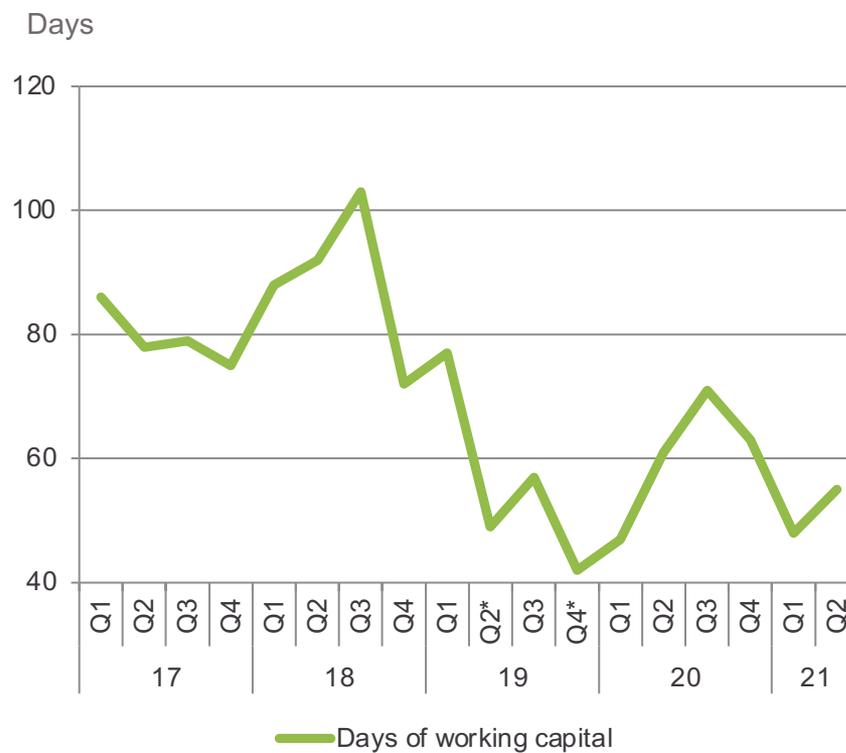
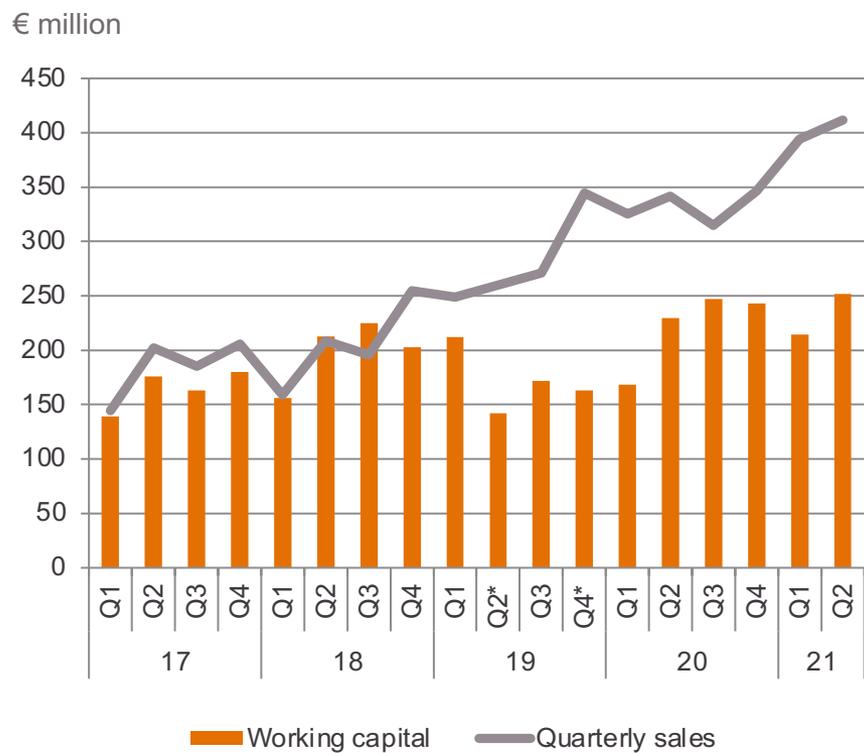
€ million	Q2 2020	Q1 2021	Q2 2021
Net earnings	74.1	122.5	108.4
Depreciation, amortization and impairments	24.1	19.9	25.0
Result from investments	(7.4)	(10.9)	(16.4)
Evaluation tools	(5.8)	(11.4)	(4.9)
Other adjustments	15.9	(43.1)	10.9
Change in working capital	(65.5)	38.6	(42.6)
Net cash from operating activities	35.5	115.6	80.4
Capital expenditure	(18.9)	(9.4)	(13.0)
Capitalized development expenditure	(15.8)	(17.4)	(20.3)
Dividend received from investments	8.4	-	21.8
Other	(1.3)	(0.1)	(0.0)
Net cash from investing activities	(27.6)	(27.0)	(11.6)
Payment of lease liabilities	(2.0)	(1.9)	(2.1)
Dividend paid and capital repaid to ASMI shareholders	(98.1)	-	(96.9)
Share buyback	(6.9)	(37.3)	-
Other	0.1	-	-
Net cash from financing activities	(107.0)	(39.3)	(99.0)

Numbers based on reported financials

BALANCE SHEET

€ million	Dec 31, 2020	Jun 30, 2021
Cash and cash equivalents	435	465
Accounts receivable	280	324
Inventories	162	173
Other current assets	73	80
Right-of-use Assets - net	23	23
Investments in associates	743	769
Property, plant and equipment	214	216
Goodwill and other intangible assets	221	249
Evaluation tools at customers	69	78
Other non-current assets	8	8
Total Assets	2,230	2,385
Accounts payable	125	149
Short-term debt	-	-
Other current liabilities	216	199
Long-term debt	-	-
Other non-current liabilities	35	46
Equity	1,855	1,991
Total Liabilities and Equity	2,230	2,385

WORKING CAPITAL



Numbers based on reported financials; * excludes impact patent litigation & arbitration settlements

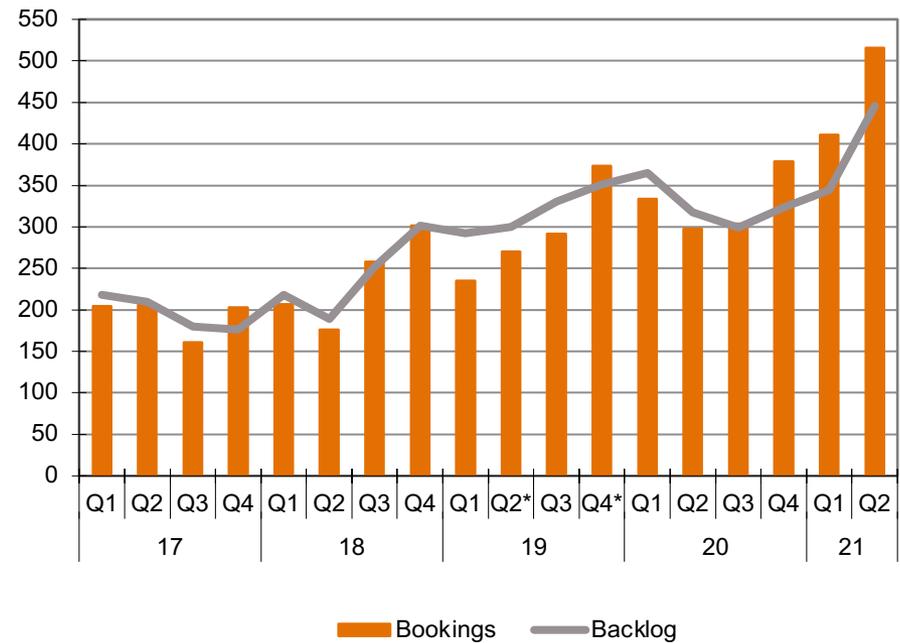
HISTORICAL DEVELOPMENT

€ million



* 2019 excludes settlement gains of €159m

€ million



Numbers based on reported financials;
* excludes impact patent litigation & arbitration settlements

