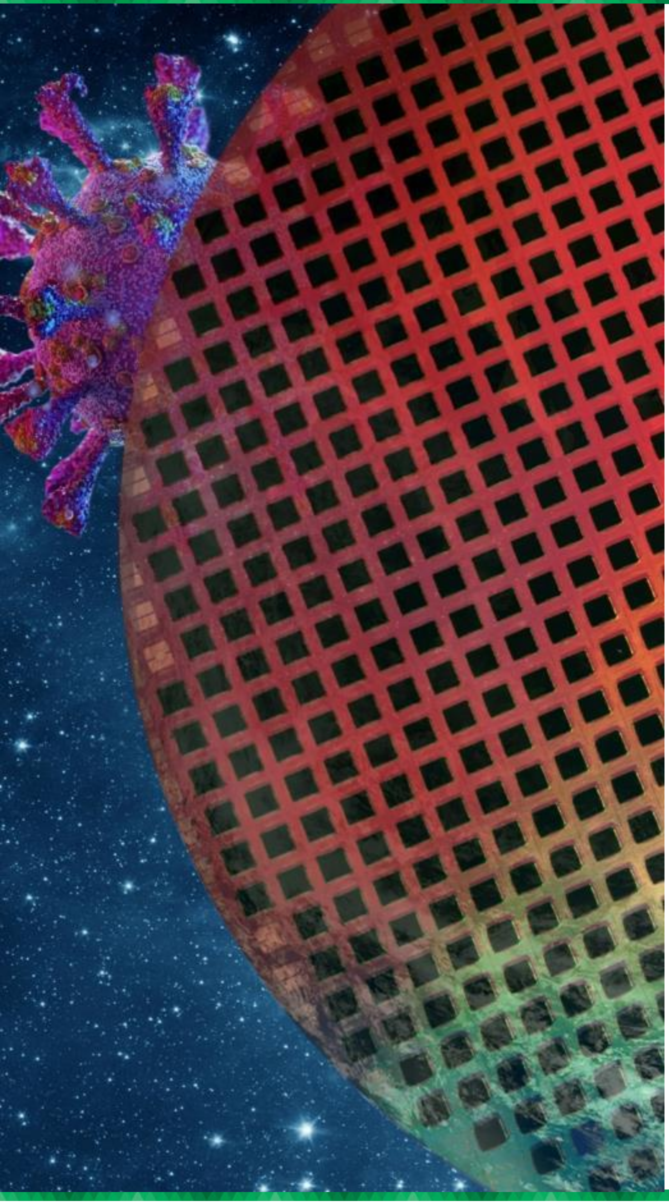


INVESTOR PRESENTATION
Q2-2022 RESULTS

July 21, 2022

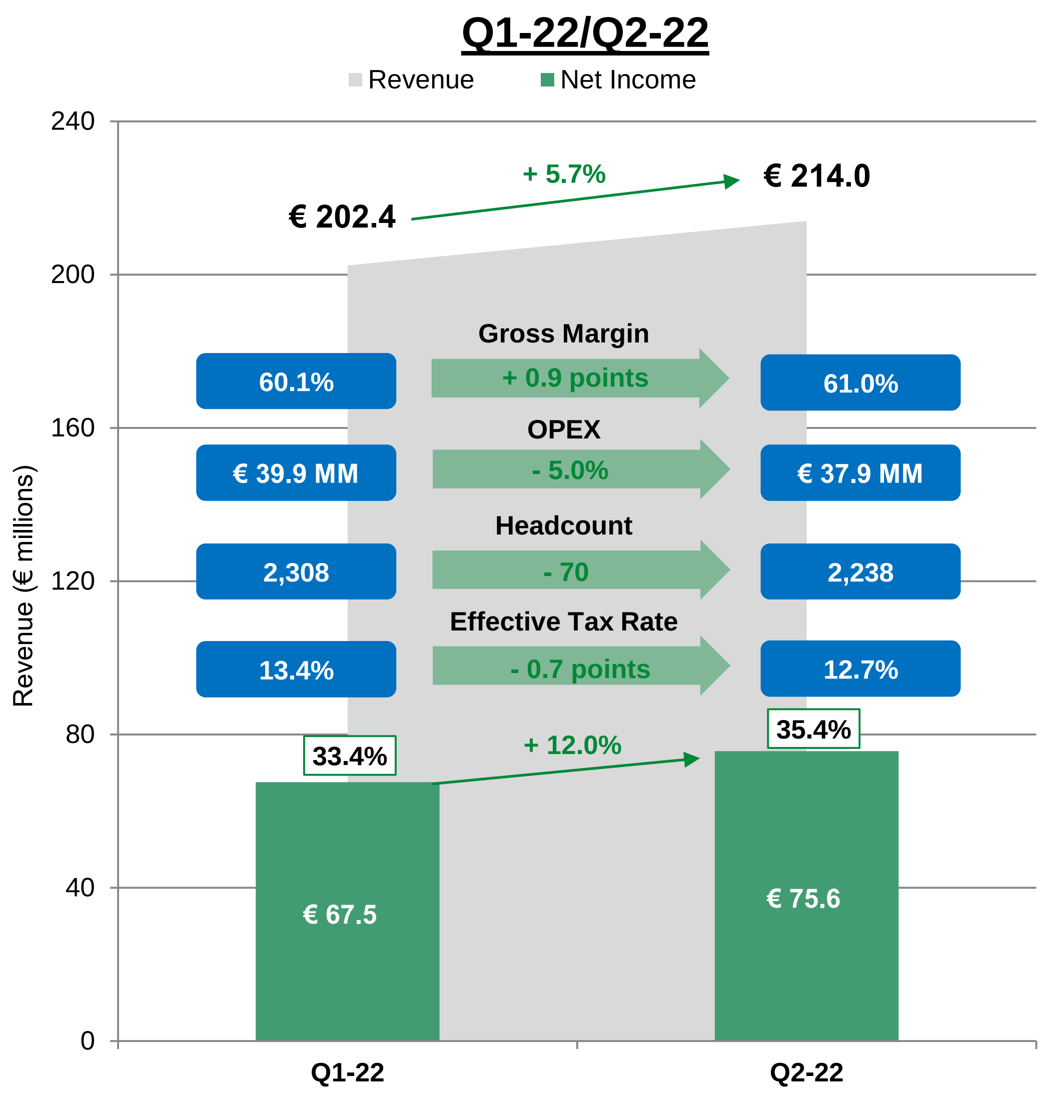
Safe Harbor Statement

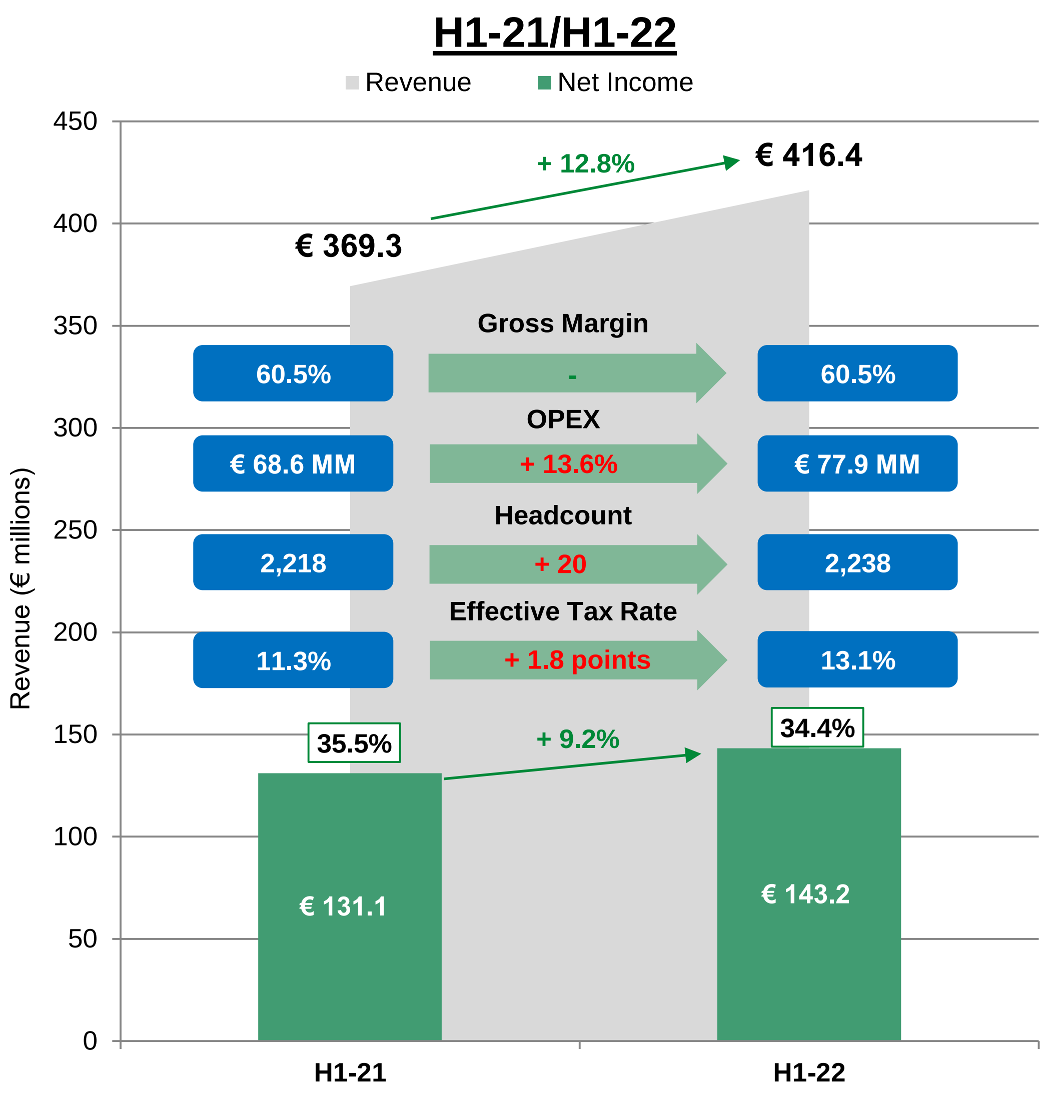
This presentation contains statements about management's future expectations, plans and prospects of our business that constitute forward-looking statements, which are found in various places throughout the presentation, including, but not limited to, statements relating to expectations of orders, net sales, product shipments, expenses, timing of purchases of assembly equipment by customers, gross margins, operating results and capital expenditures. The use of words such as “anticipate”, “estimate”, “expect”, “can”, “intend”, “believes”, “may”, “plan”, “predict”, “project”, “forecast”, “will”, “would”, and similar expressions are intended to identify forward looking statements, although not all forward looking statements contain these identifying words. The financial guidance set forth under the heading “Outlook” contains such forward looking statements. While these forward looking statements represent our judgments and expectations concerning the development of our business, a number of risks, uncertainties and other important factors could cause actual developments and results to differ materially from those contained in forward looking statements, including any inability to maintain continued demand for our products; failure of anticipated orders to materialize or postponement or cancellation of orders, generally without charges; the volatility in the demand for semiconductors and our products and services; the extent and duration of the COVID-19 pandemic and measures taken to contain the outbreak, and the associated adverse impacts on the global economy, financial markets, global supply chains and our operations as well as those of our customers and suppliers; failure to develop new and enhanced products and introduce them at competitive price levels; failure to adequately decrease costs and expenses as revenues decline; loss of significant customers, including through industry consolidation or the emergence of industry alliances; lengthening of the sales cycle; acts of terrorism and violence; disruption or failure of our information technology systems; consolidation activity and industry alliances in the semiconductor industry that may result in further increased customer concentration, inability to forecast demand and inventory levels for our products; the integrity of product pricing and protection of our intellectual property in foreign jurisdictions; risks, such as changes in trade regulations, conflict minerals regulations, currency fluctuations, political instability and war, associated with substantial foreign customers, suppliers and foreign manufacturing operations, particularly to the extent occurring in the Asia Pacific region where we have a substantial portion of our production facilities; our ability to mitigate the dislocations caused by the flood at one of our Malaysian production facilities, potential instability in foreign capital markets; the risk of failure to successfully manage our diverse operations; any inability to attract and retain skilled personnel, including as a result of restrictions on immigration, travel or the availability of visas for skilled technology workers as a result of the COVID-19 pandemic; those additional risk factors set forth in Besi's annual report for the year ended December 31, 2021 and other key factors that could adversely affect our businesses and financial performance contained in our filings and reports, including our statutory consolidated statements. We expressly disclaim any obligation to update or alter our forward-looking statements whether as a result of new information, future events or otherwise.

Table of Contents

I. KEY HIGHLIGHTS

H1-22 Up Solidly vs. H1-21
Strategic Execution Keeps Profit Efficiency High

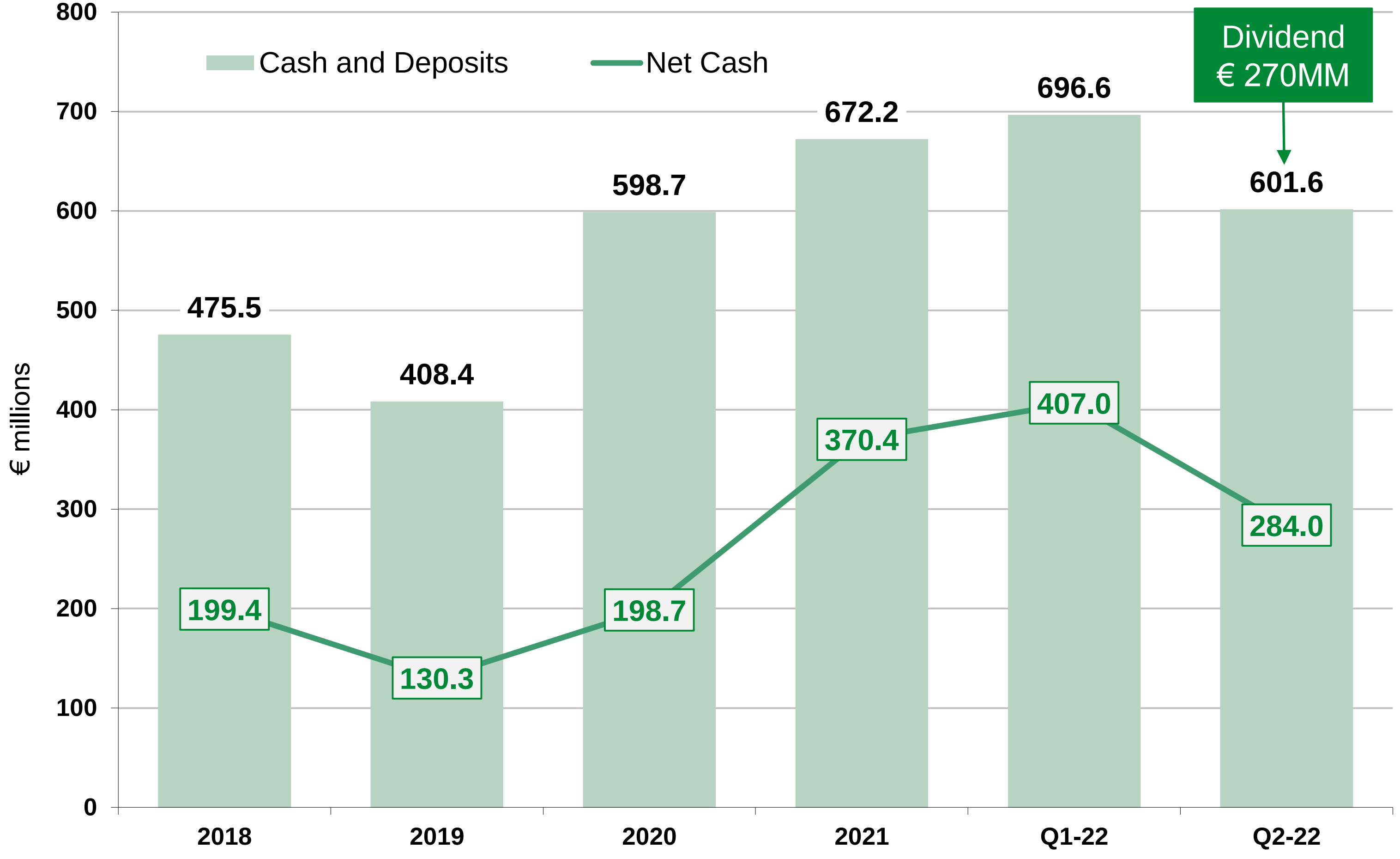




Q2-22 Sequential Revenue & Net Income Up 5.7% and 12.0%, Respectively. Within Prior Guidance

€ millions	Guidance Q2-22	Q2-22	Δ Q1-22	Δ Q2-21
Revenue	Up 10% +/-5%	**214.0**	+5.7%	-5.4%
Orders		**153.1**	-25.2%	-23.5%
Gross Margin	59-61%	**61.0%**	+0.9pts	-1.1pts
Opex	Flat to down 5%	**37.9**	-5.0%	+12.8%
Net Income		**75.6**	+12.0%	-19.1%
EPS Basic		**0.94**	+8.0%	-23.6%
Net Cash		**284.0**	-30.2%	+37.4%

Liquidity Position Enhanced



Q2-22 vs. Q1-22

- Cash and deposits € 601.6 million decreased by € 95.0 million (-13.6%) due to:
  - - € 269.5 million dividends paid
  - - € 22.2 million share repurchases
  - - € 5.2 million capitalized R&D
  - Partial offset:
    - + € 172.2 million of 1.875% Convertible Notes
    - + € 27.6 million cash flow from operations

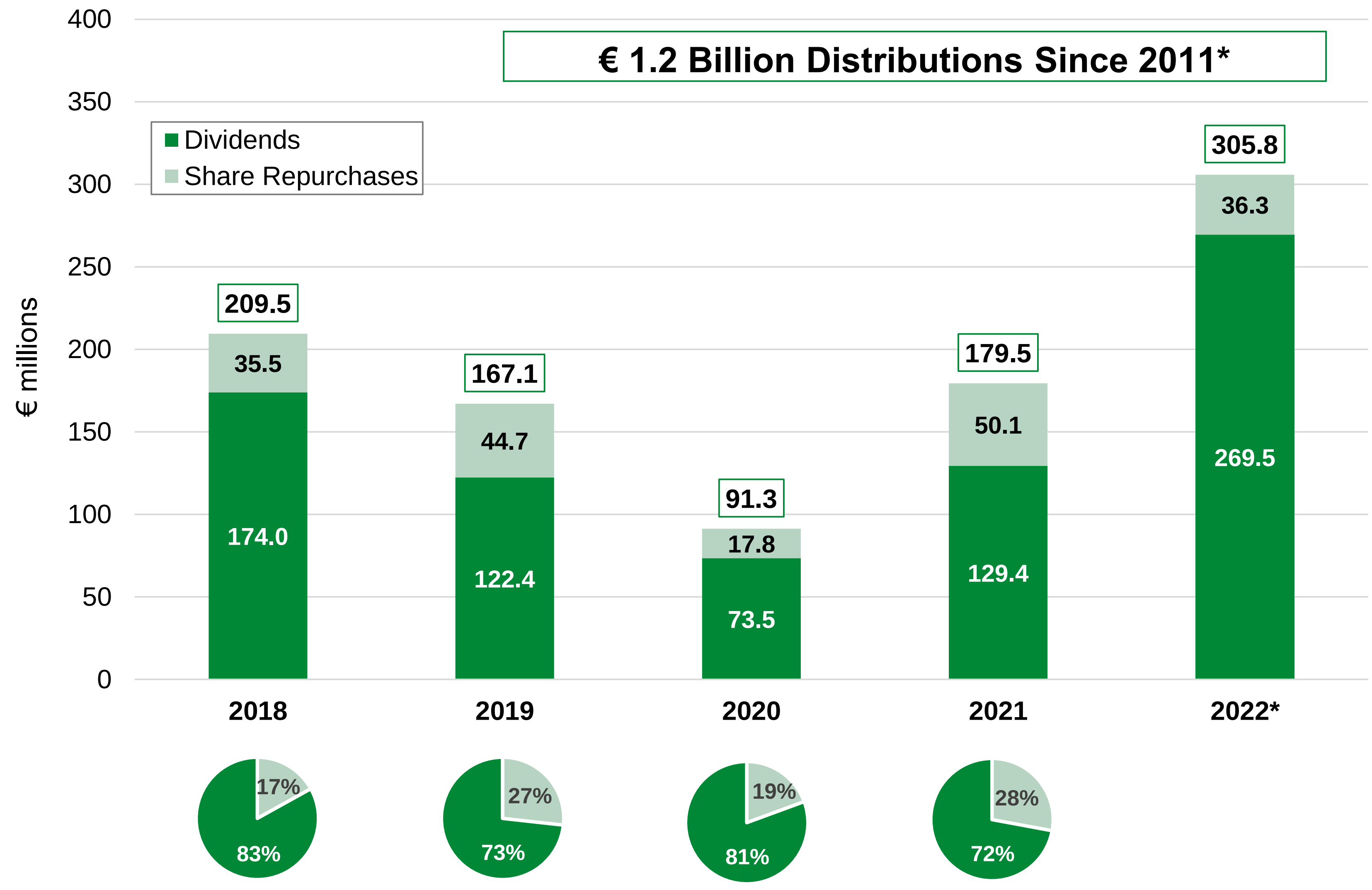
Q2-22 vs. Q2-21

- Cash and deposits up € 90.2 million (+17.6%)
- Net cash up € 77.3 million (+37.4%)

Convertible Notes

- € 359.9 million outstanding at June 30, 2022
  - Average conversion price € 67.28
  - Blended coupon rate 1.29%

Capital Allocation Trends

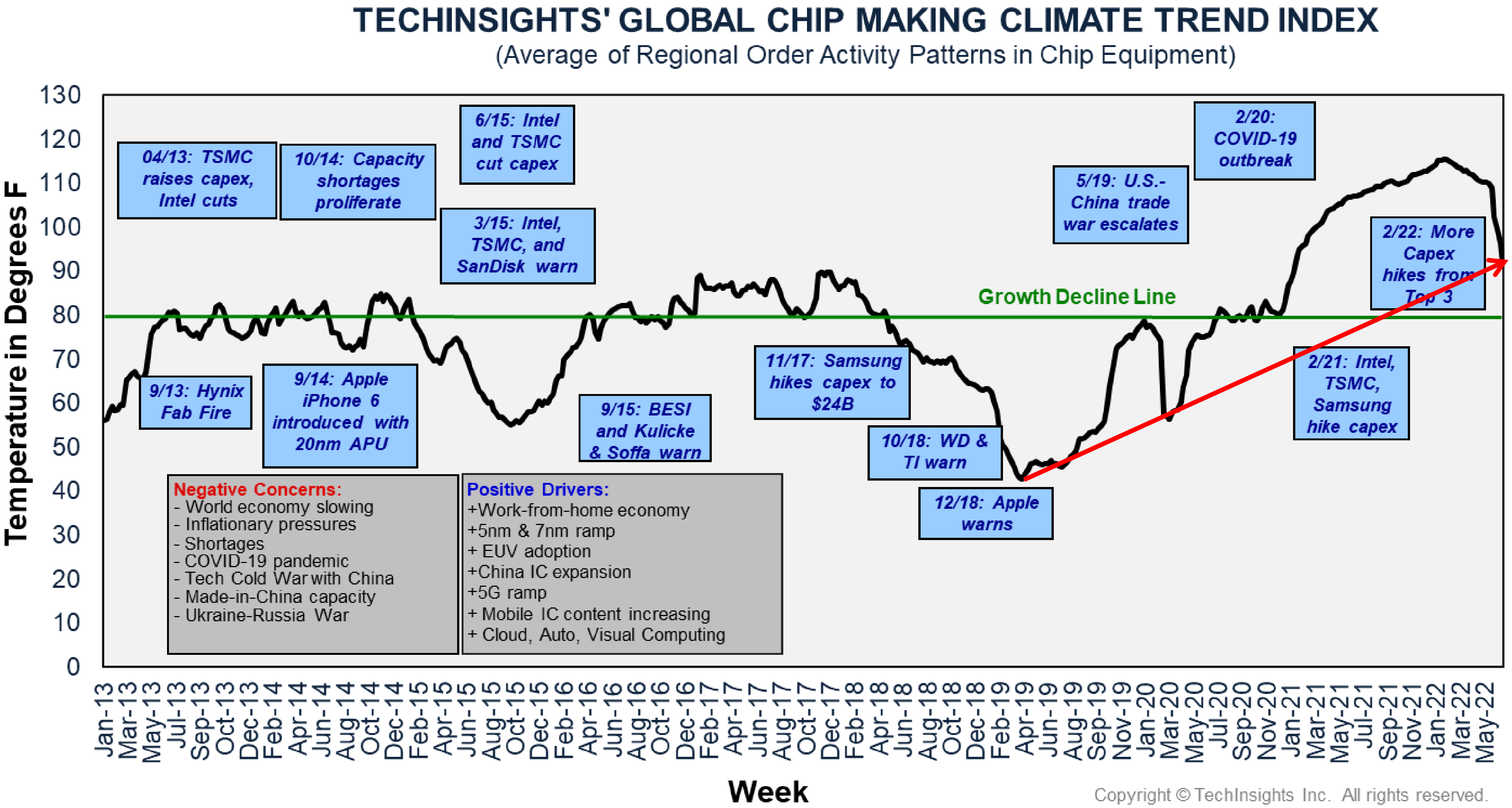


- **€ 306 million distributed YTD-22**
- **Share repurchase program to increase:**
  - Will complete € 185 million current program by July 31
- **New € 300 million program August 1:**
  - Offset dilution Convertible Notes, employee shares and capital reduction
  - Represents ~7.5% of shares
  - Expected completion date: October 2023

* Includes share repurchases to June 30, 2022

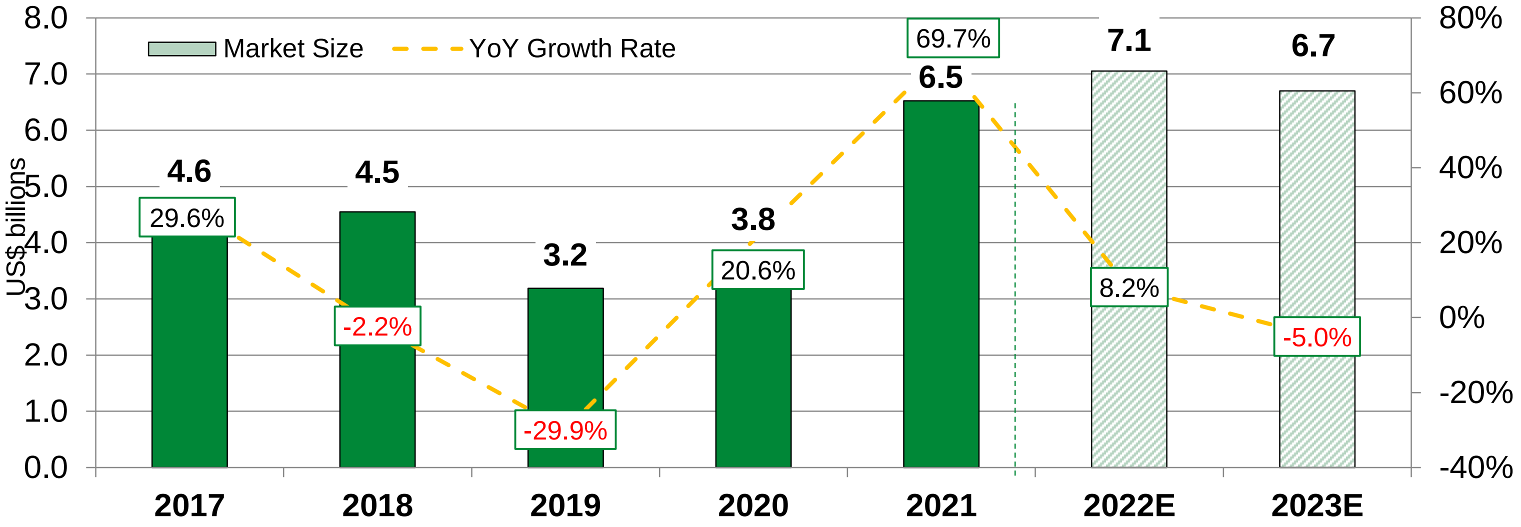
II. MARKET & STRATEGY

Market Conditions Weakened Since Q2-22

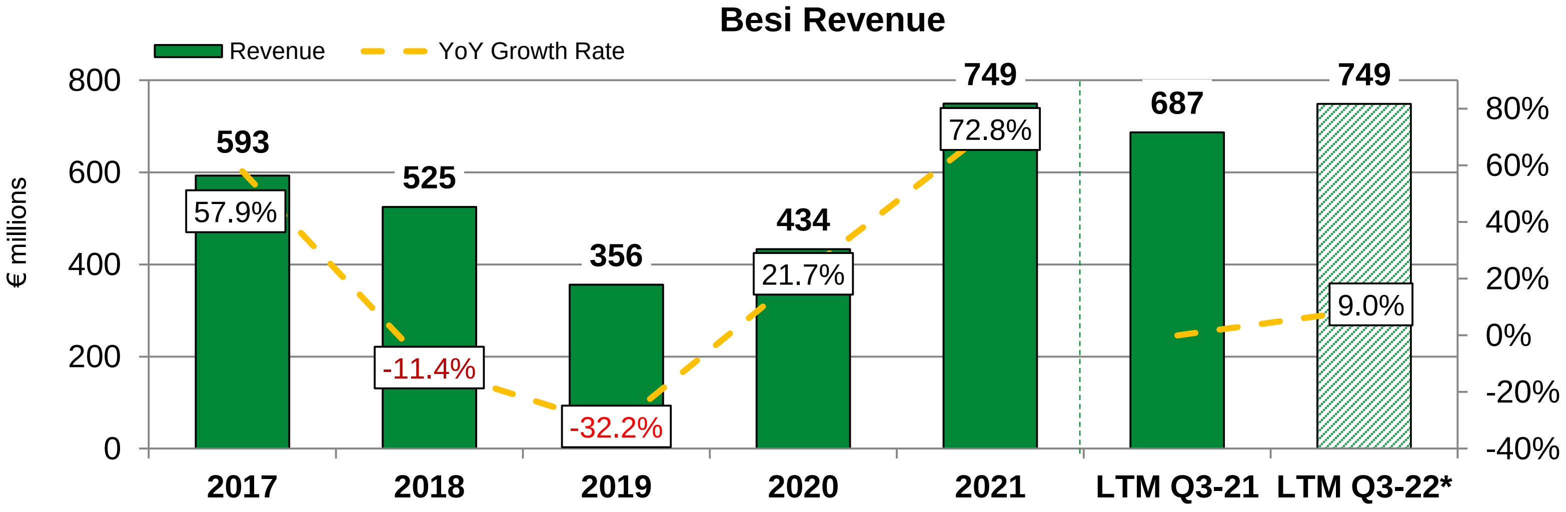


Source: TechInsights, July 2022

Assembly Equipment Forecast Revised



Source: Tech Insights, July 2022. Assembly equipment revenue excludes hybrid bonding contribution and service revenue.



* At midpoint of guidance

TechInsights forecasts $ 7.1 billion market in 2022 (+8.2%)

- Growth rates for 2022 and 2023 reduced
  - 10.2% → 8.2% for 2022
  - -0.1% → -5.0% for 2023
  - Ex hybrid bonding and spares/service revenue

Strong secular fundamentals intact:

- 5G, datacenter, AI and HPC primary drivers
- Investment in new process technologies: hybrid bonding/CSP

Strategy Update

Production

- Supply chain constraints persist both at Besi and at customers
  - Impacts 2022 quarterly delivery schedules
- Adjusting supply chain and HC to current order trends
- Hybrid Bonding shipments continue as per plan
- New 125,000 sq ft. leased Malaysian facility in Q3-22

Development

- Gross R&D investment +24% H1-22 vs. H1-21
  - Supports HB expansion and new wafer level systems
- New product launches H1-22:
  - Embedded Bridge Die Attach Orders: 3 systems
  - AMS-X Molding: 2 systems

Organization

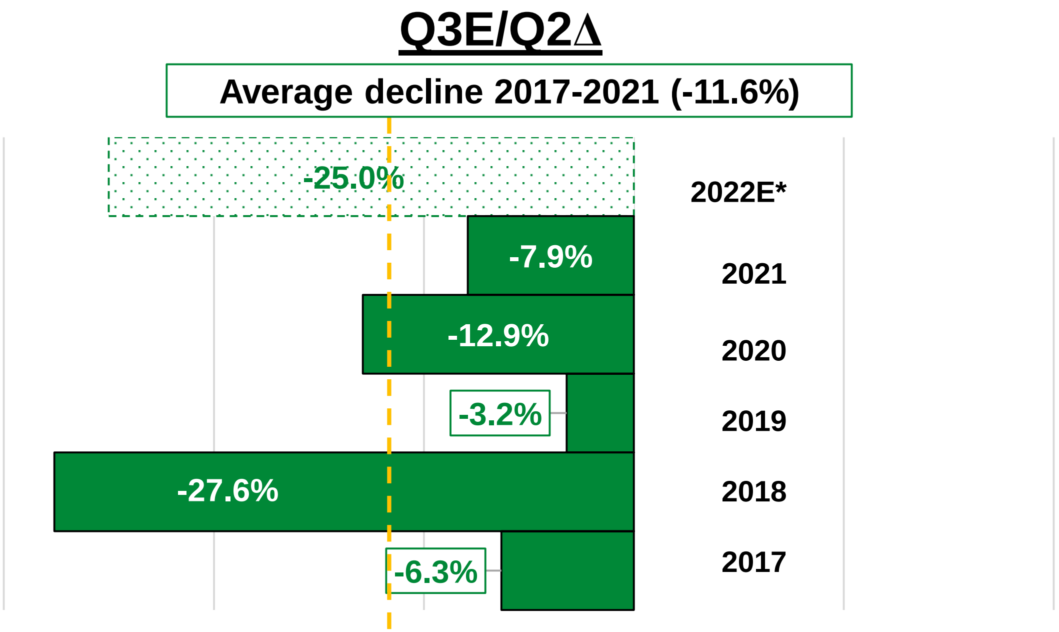
- Increased R&D headcount by 7% vs. year end 2021
- Reduced temporary production staff by 16% vs. March 31, 2022

III. OUTLOOK

Guidance Q3-22

€ in millions	Q2-22	Q3-22
Revenue	€ 214.0	-20% - -30%
Gross Margin	61.0%	60% - 62%
Operating Expenses	€ 37.9	-10% - -15%

Seasonal Revenue Trends

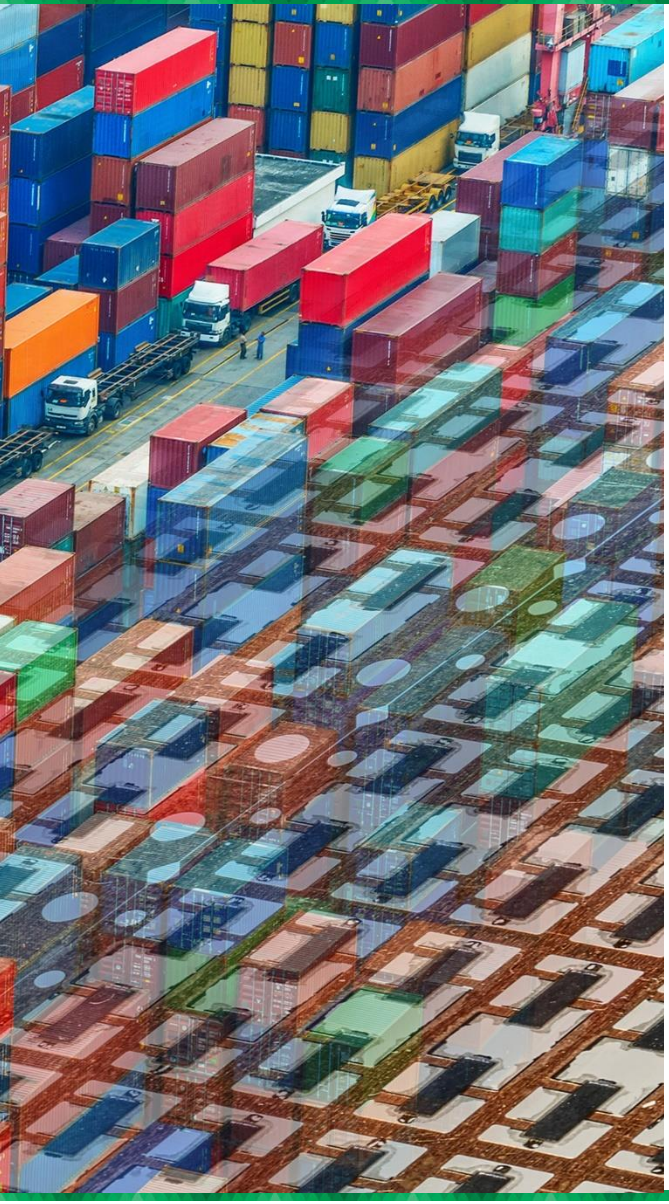


- Q3-22E decrease above average Q2-Q3 decline past 5 years

* Assumes midpoint of guidance for Q3-22

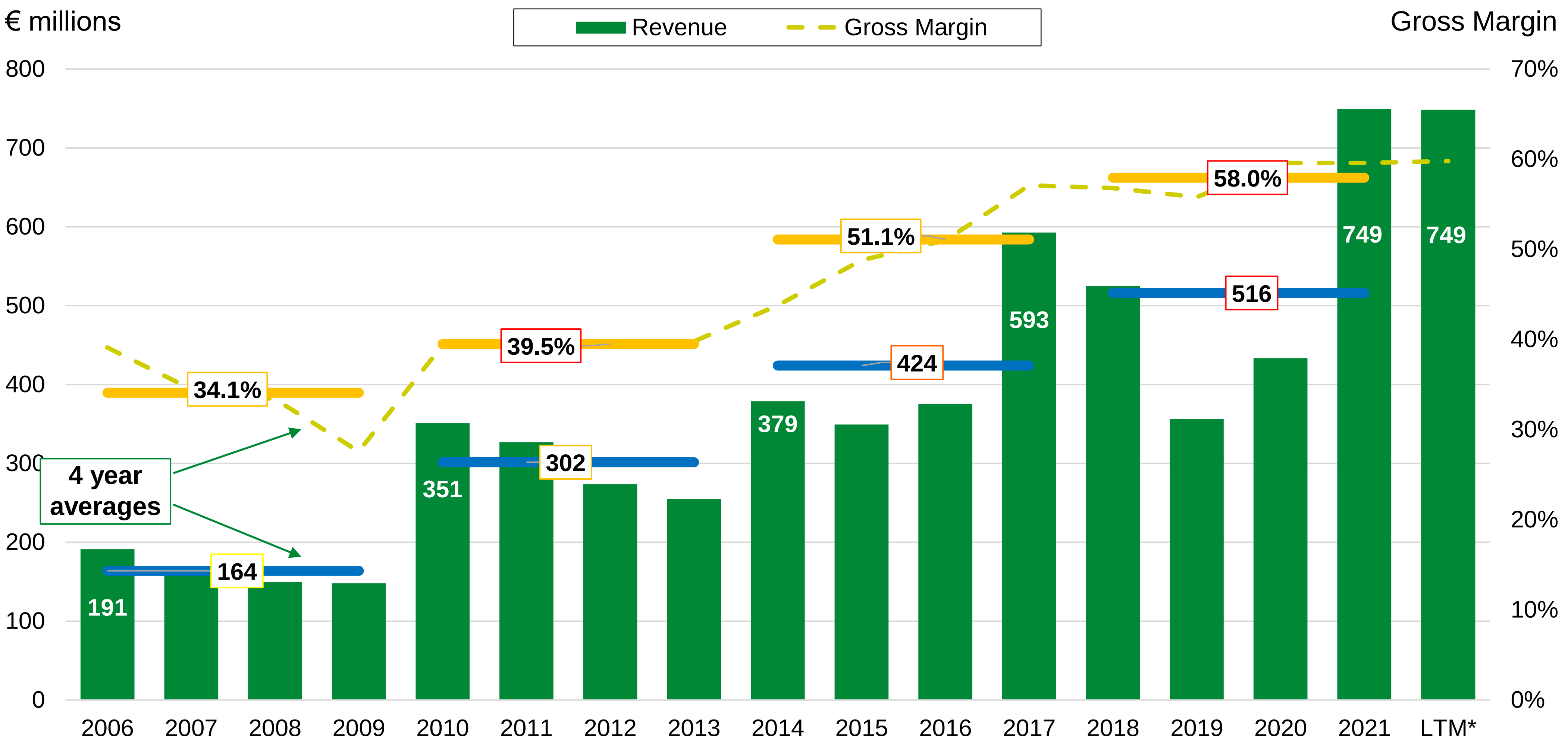
Financial Calendar

26-Jul-22	Virtual US roadshow, organized by Goldman Sachs
24-Aug-22	Annual Needham Virtual SemiCap & EDA conference
7-Sep-22	ING Benelux conference, London
14-Sep-22	KeplerCheuvreux Autumn Conference, Paris
20-Oct-22	Besi Q3-2022 results
16/17-Nov-22	Morgan Stanley TMT Conference, Barcelona



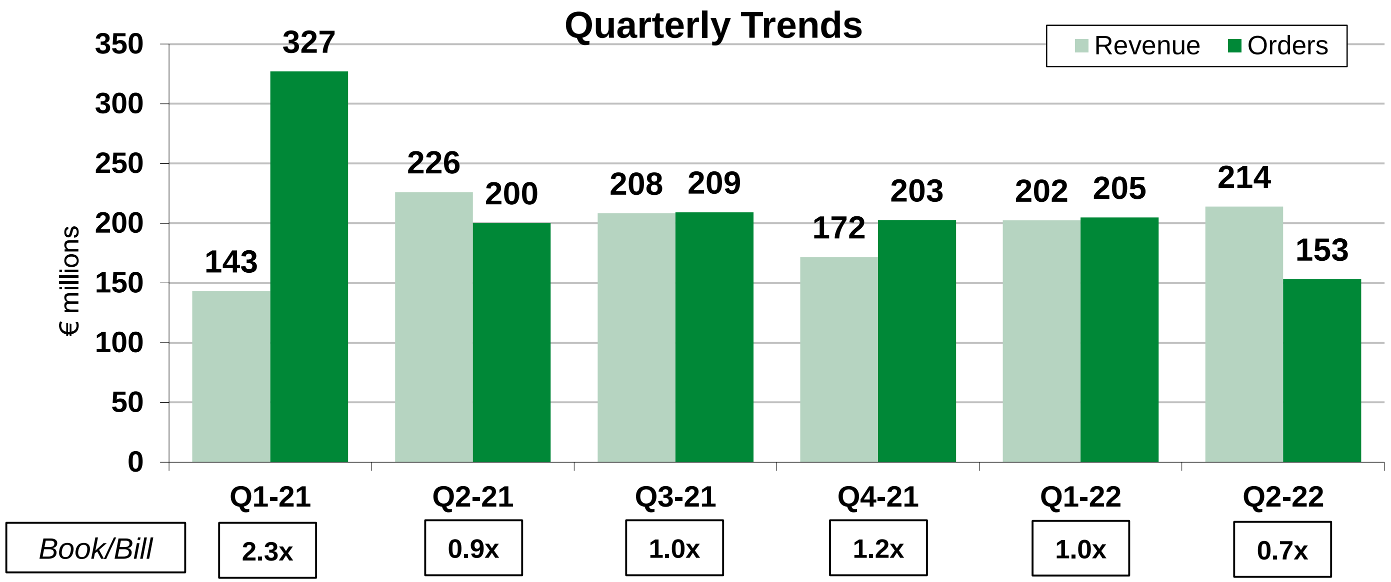
IV. FINANCIAL APPENDIX

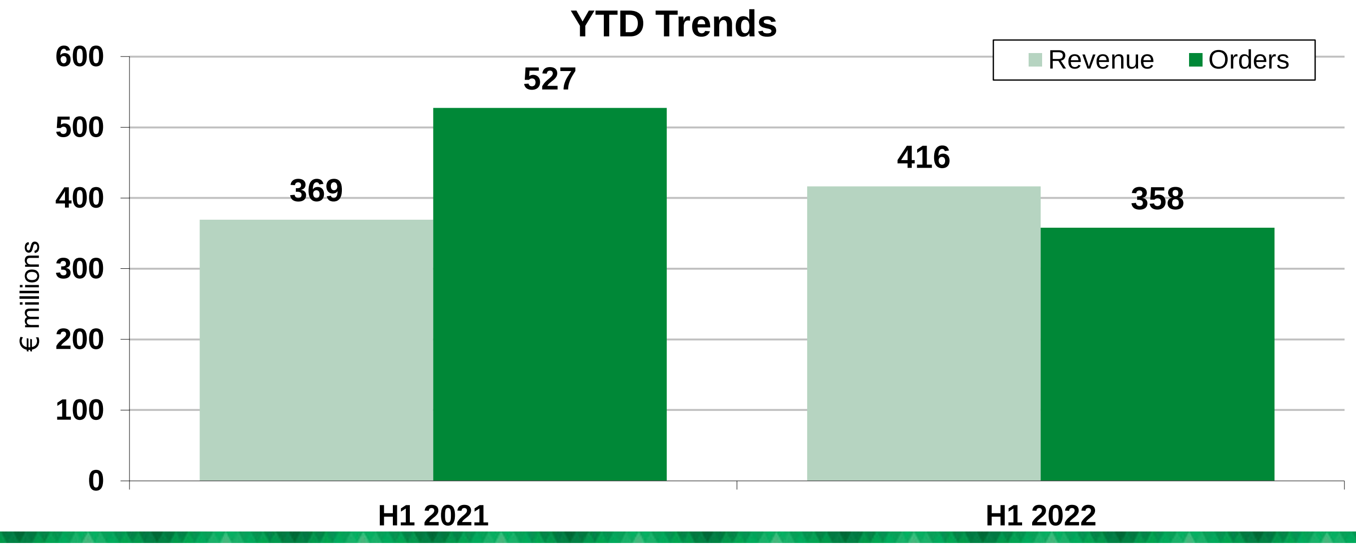
Through Cycle Revenue and Gross Margin Trends



* LTM including midpoint of guidance for Q3-22.

Revenue/Order Trends





Q2-22 vs. Q1-22

- **Revenue: +€ 11.6 million (+5.7%)**
  - Low end of prior guidance
  - Increased shipments for high-end mobile
- **Orders: € 153.1 million (-25.2%)**
  - Lower high-end mobile and computing
  - Decreased demand from Asian subcontractors
  - Continued strength in automotive

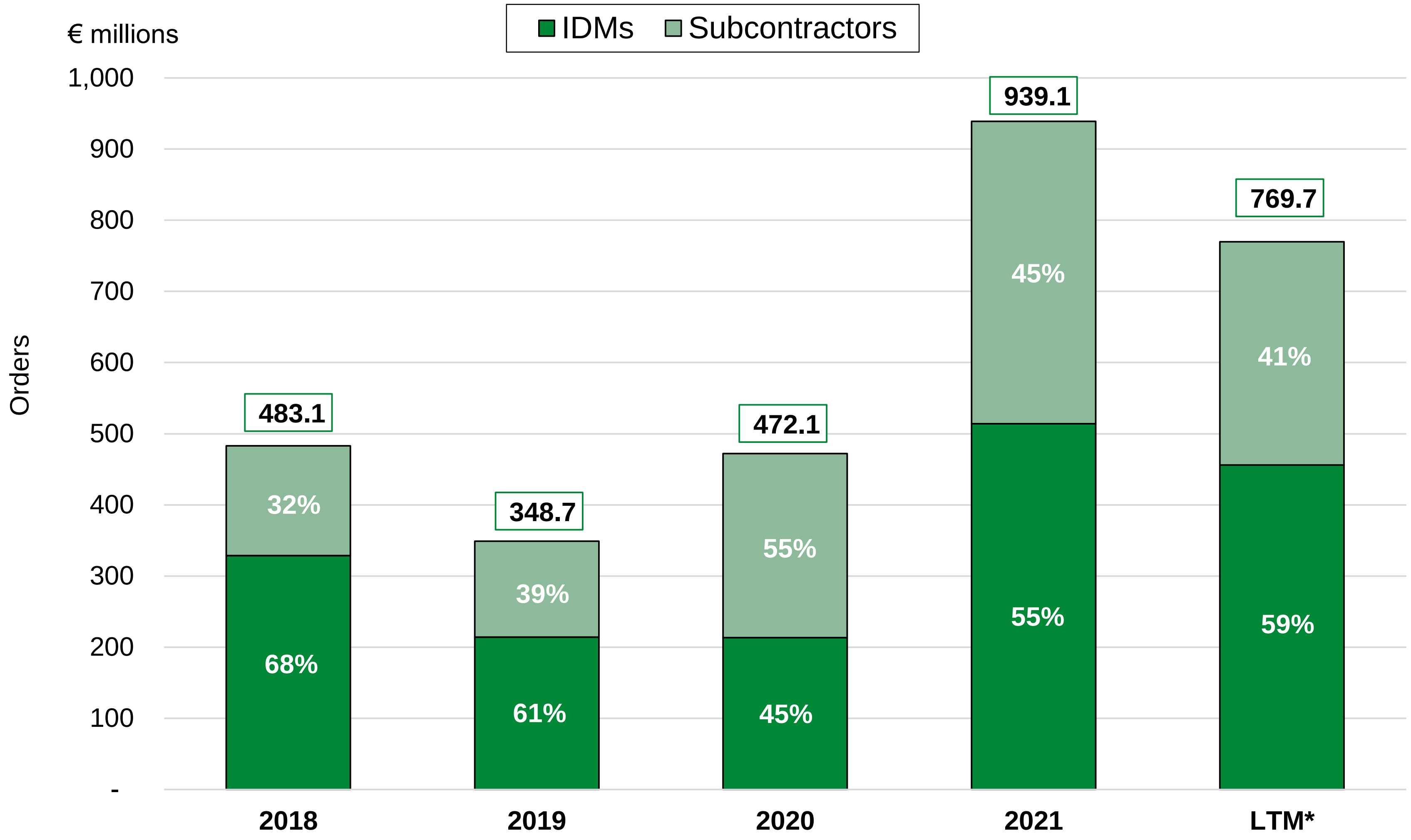
Q2-22 vs. Q2-21

- **Revenue: -€ 12.1 million (-5.4%)**
- **Orders: -€ 47.1 million (-23.5%)**

H1-22 vs. H1-21

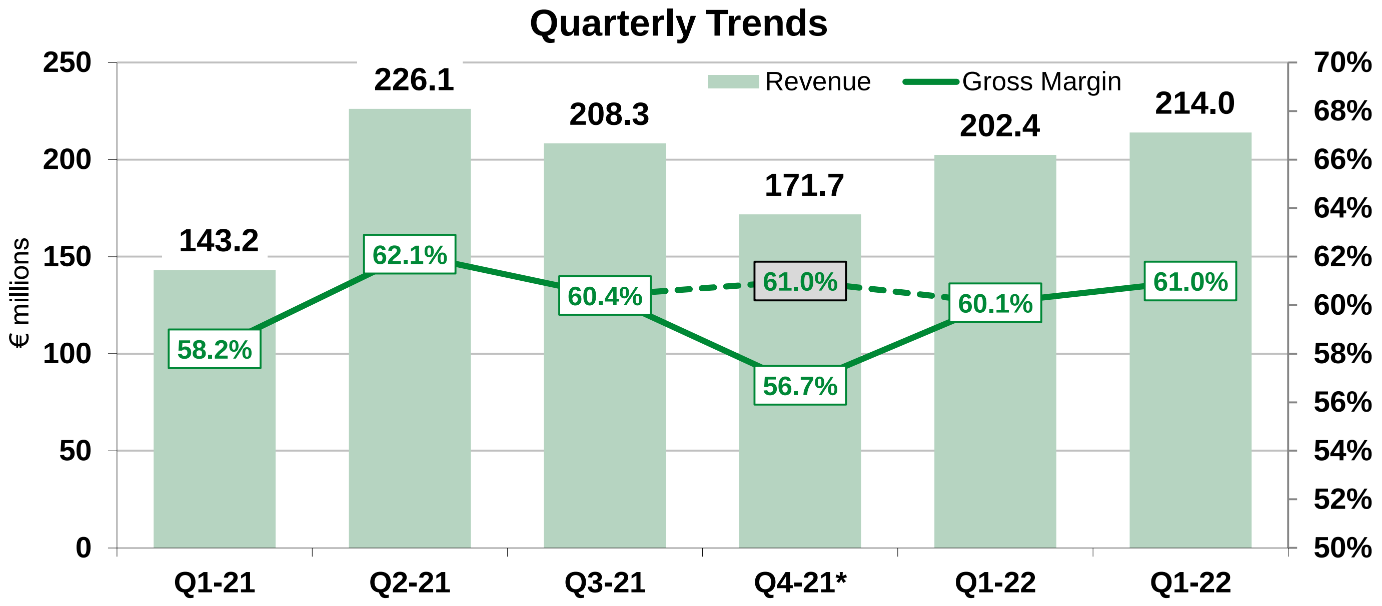
- **Revenue: +€ 47.1 million (+12.8%)**
  - Strong computing and automotive
  - Decreased shipments for high-end mobile
  - Decreased demand from Chinese subcontractors
- **Orders: -€ 169.4 million (-32.1%)**
  - Less favorable market conditions
  - Lower high-end smartphones and Chinese subcontractors

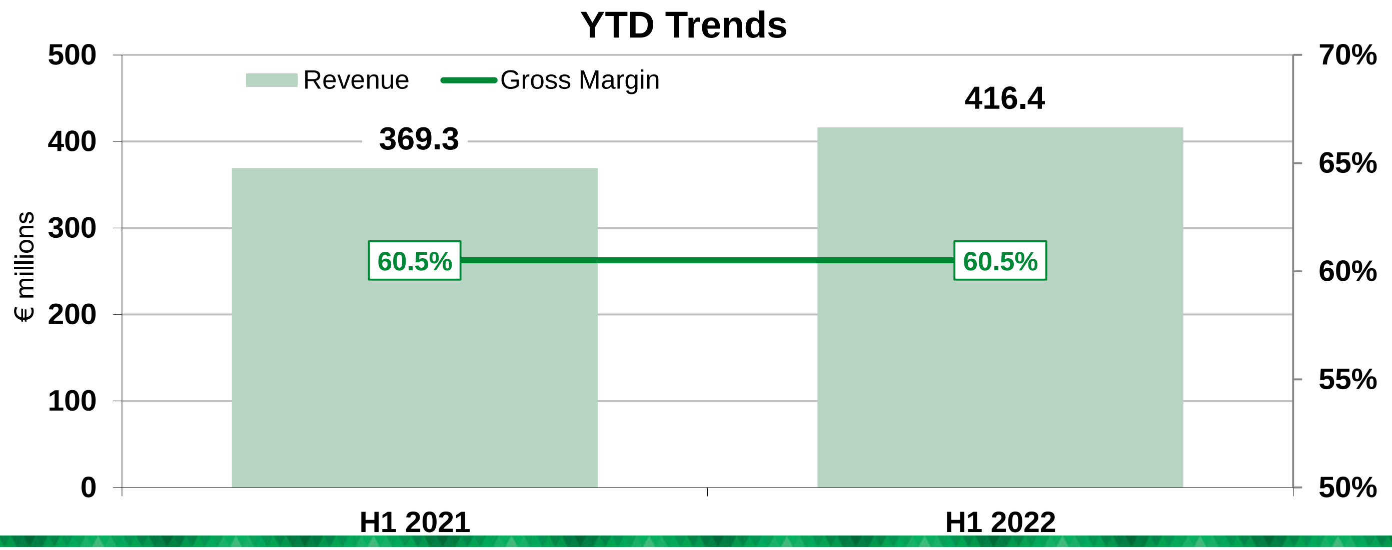
IDM/Subcontractor Order Trends



* Last twelve month ended June 30, 2022

Gross Margin Trends





Q2-22 vs. Q1-22

- **61.0% vs. 60.1% (+0.9 points)**
  - High end of prior guidance
  - More favorable product mix
  - Net forex positive: Revenue +USD vs. EUR
    Costs +CNY/MYR/CHF vs. EUR

Q2-22 vs. Q2-21

- **61.0 vs. 62.1% (-1.1 points)**
  - Less favorable product mix
  - Net forex negative: Revenue +USD vs. EUR
    Costs +CNY/MYR/CHF vs. EUR

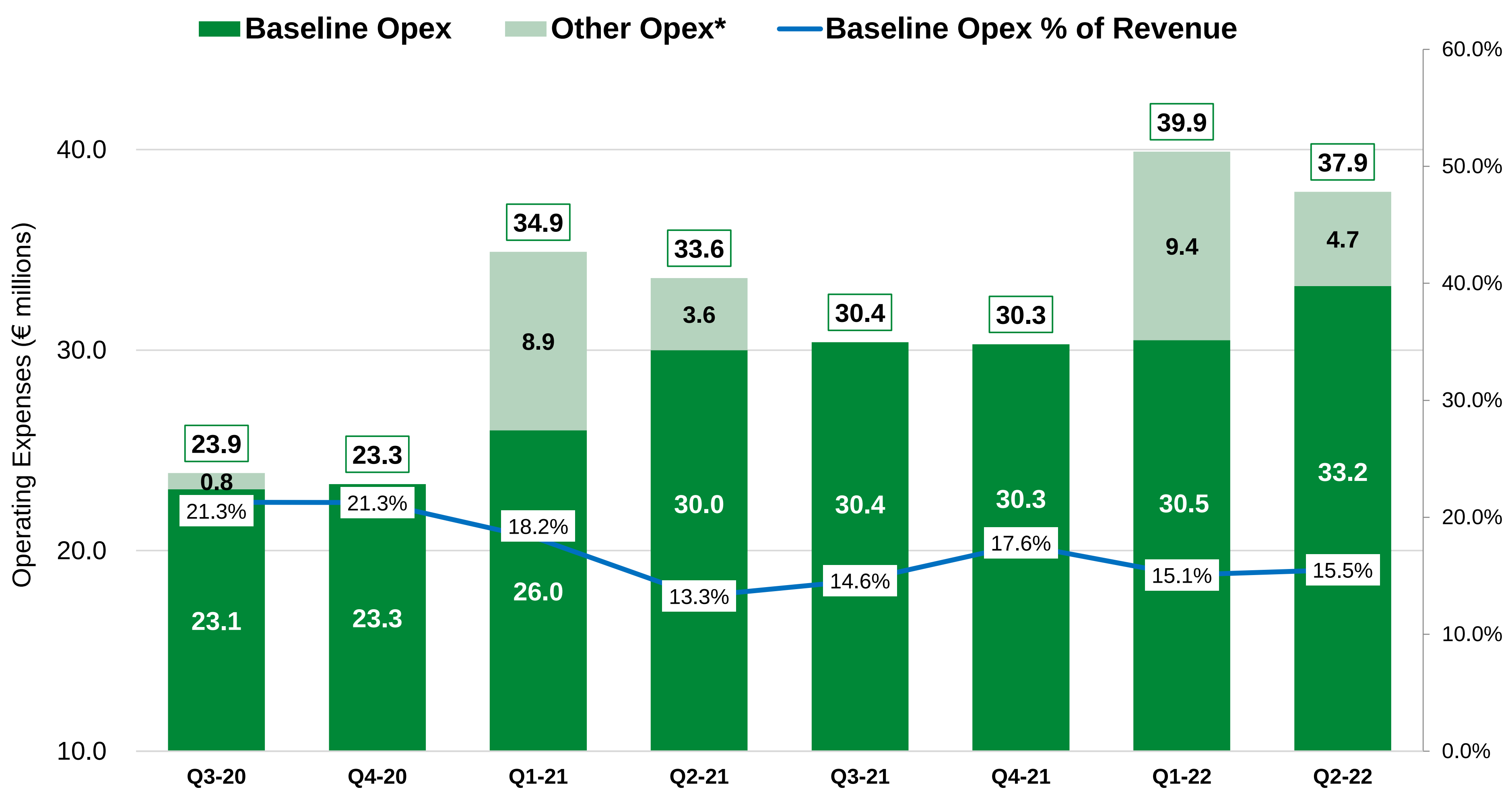
H1-22 vs. H1-21

- **60.5% in both periods**

* Includes € 7.4 million (4.3 point) inventory charge in Q4-21

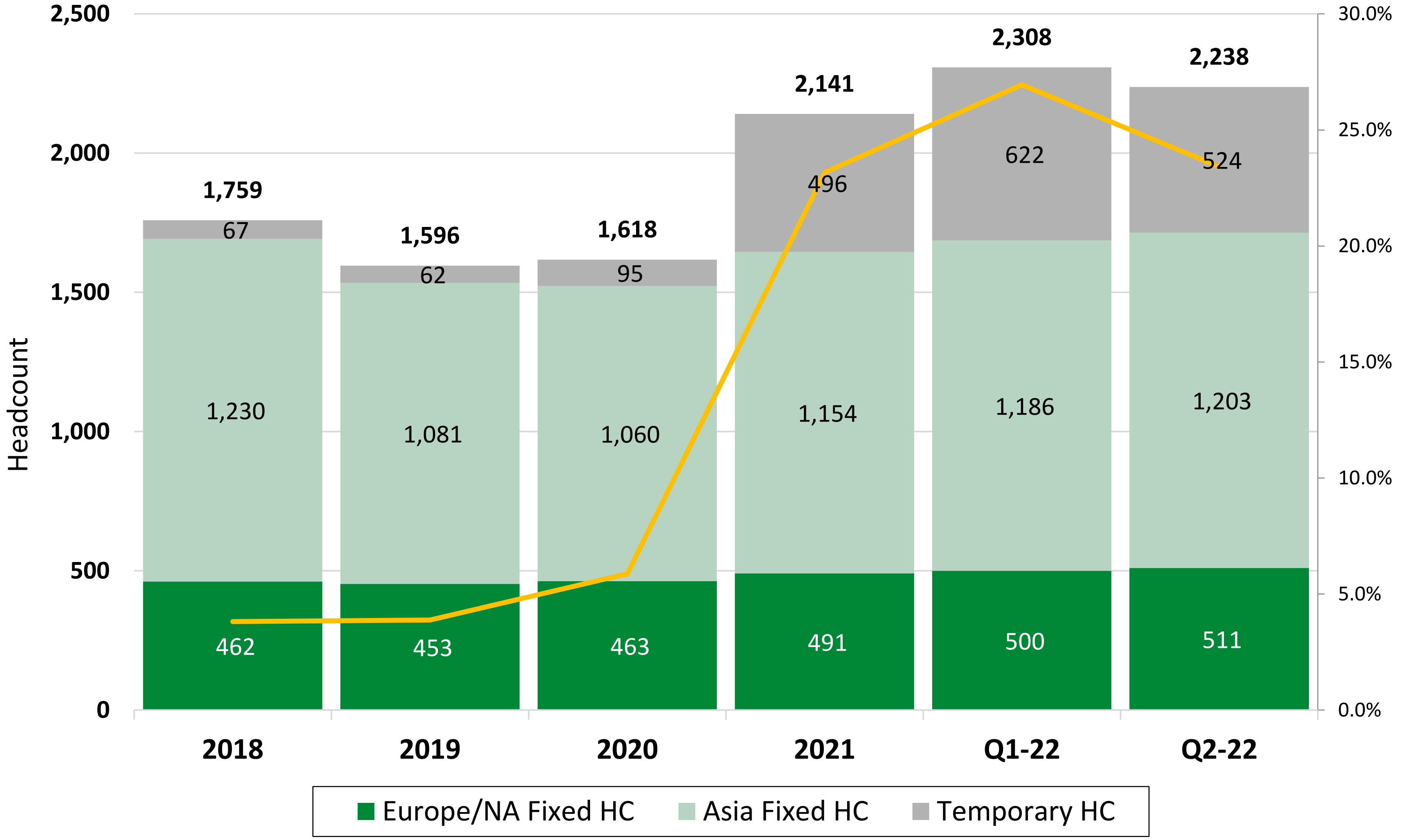
* Favorable impact
Unfavorable impact

Baseline Operating Expense Trends



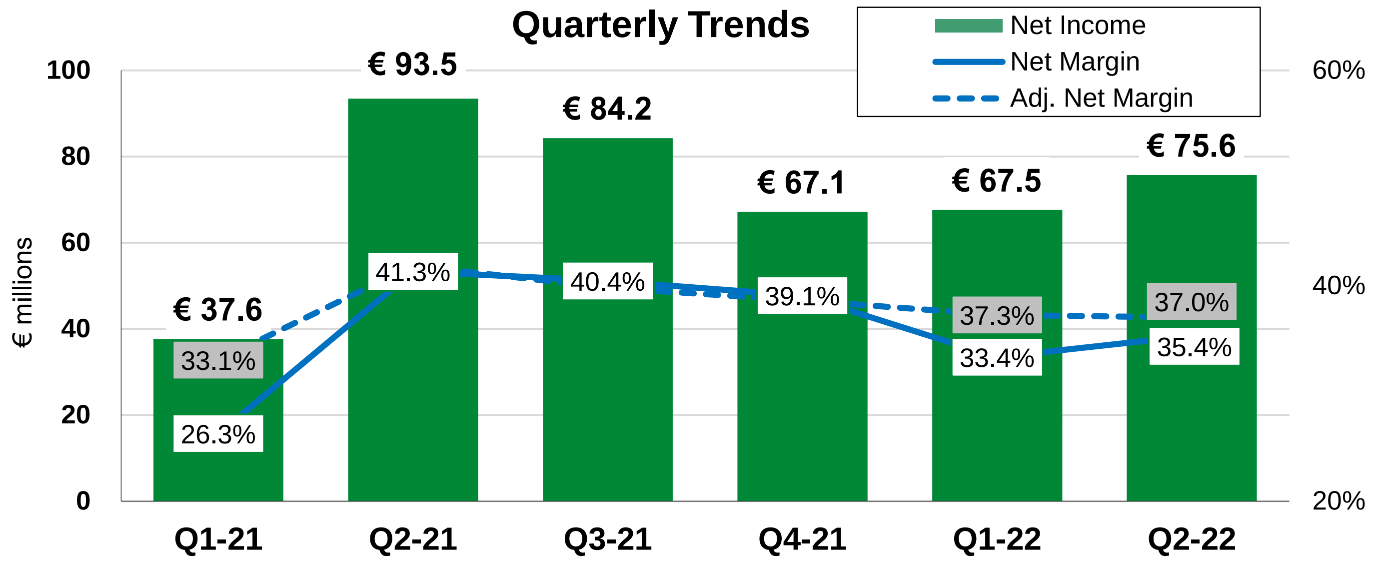
* Other Opex includes both short-term and long-term incentive compensation, seasonal effects, restructuring costs, net R&D capitalization/amortization and certain one-time items.

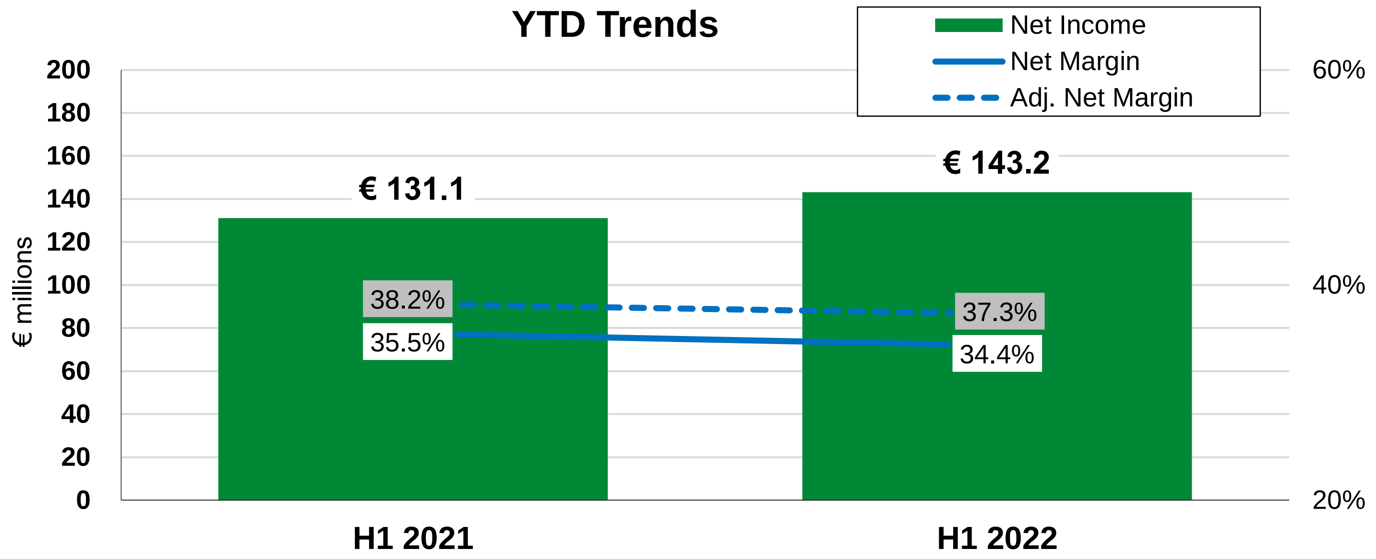
Headcount Trends



- Increasing fixed headcount to support R&D and service/support for wafer level assembly expansion
- Reducing temporary Asian production HC to align with market conditions

Net Income Trends





Q2-22 vs. Q1-22

- **€ 75.6 million (+€ 8.1 million)**
  - +5.7% revenue,
  - +0.9 point gross margin
  - 5.0% opex reduction, primarily incentive comp
- Net margin of 35.4%

Q2-22 vs. Q2-21

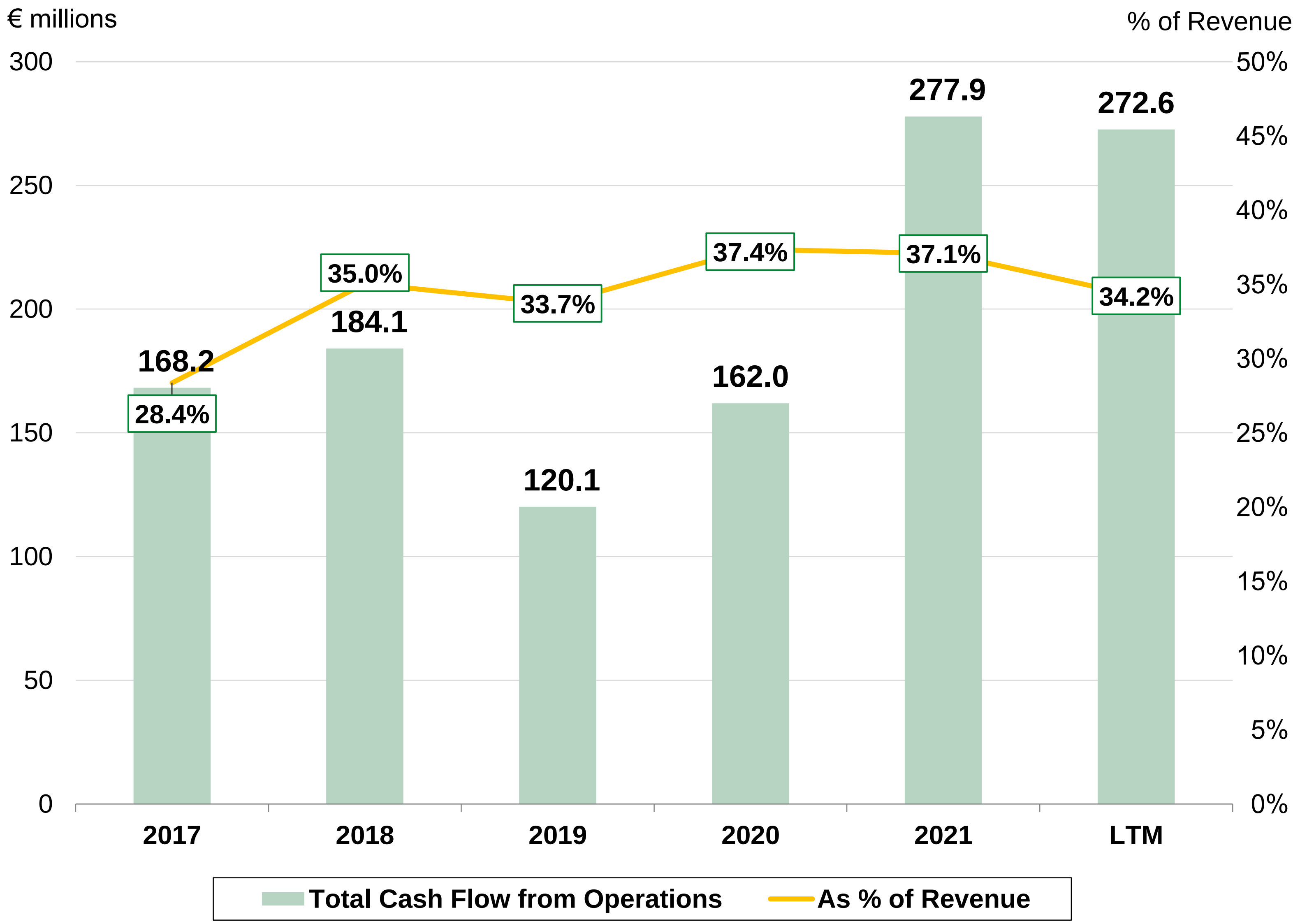
- **-€ 17.9 million**
  - Lower revenue and gross margin
  - Increased R&D spending
  - Higher effective tax rate

H1-22 vs. H1-21

- **€ 143.2 million (+€12.1 million)**
  - +12.8% revenue increase
  - Successful control of overhead growth
  - Increased R&D spending for wafer lever assembly

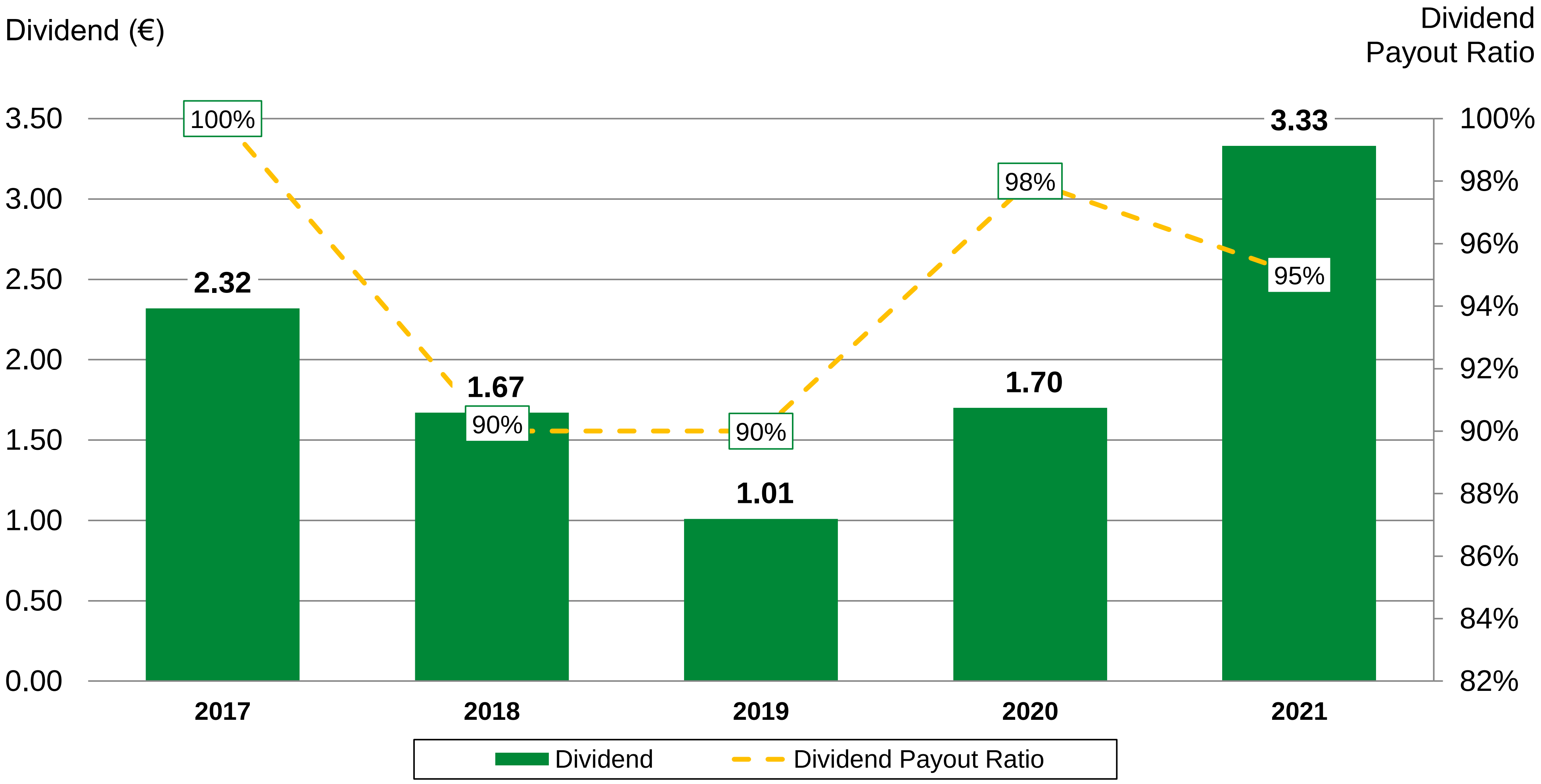
* Adjusted Net Margin excludes one-time flood related inventory impairment charge in Q4-21, tax benefits realized and share-based compensation expense in each of the respective periods.

Cash Flow Efficiency Trends

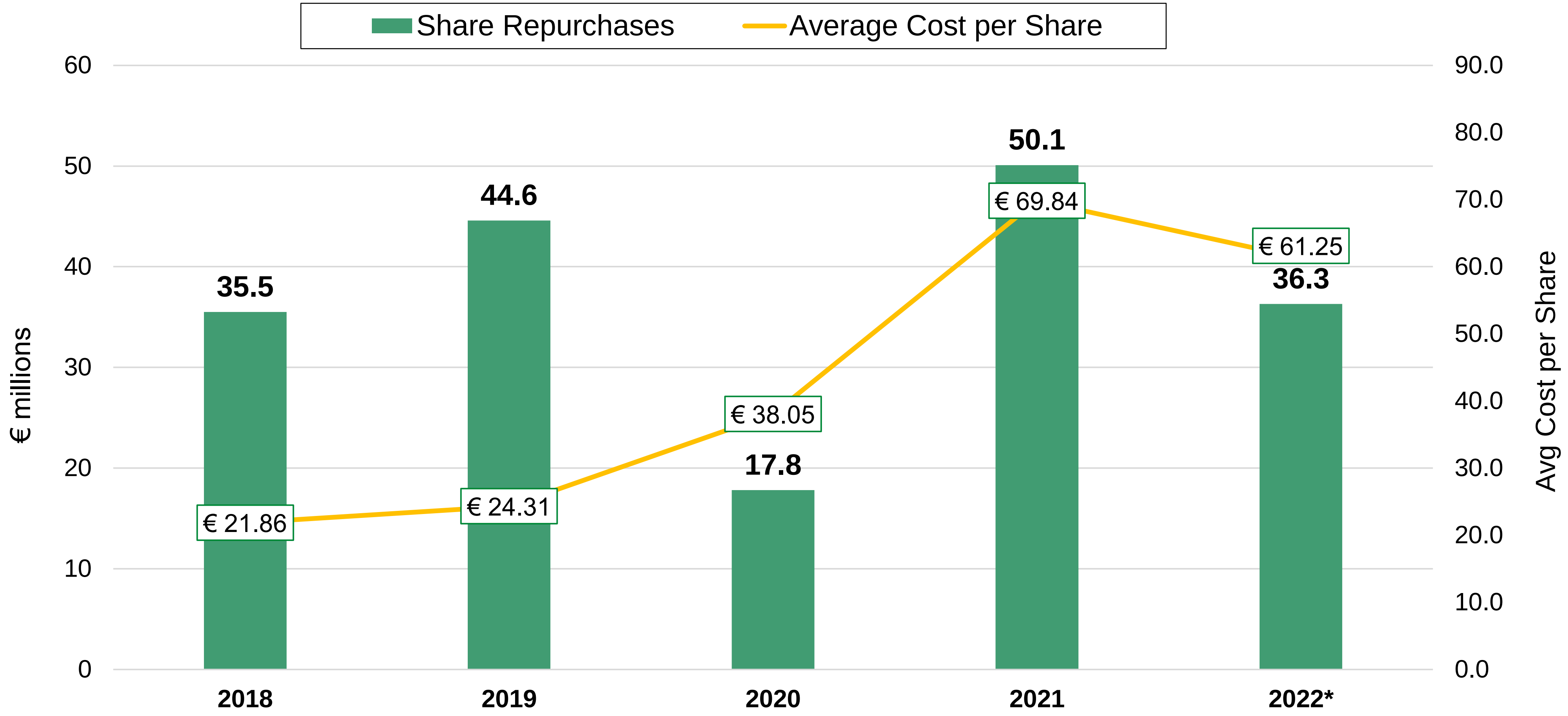


Dividend Trends

Cumulative dividends of € 975.1 million since 2011, or € 12.78 per share



Share Repurchase Activity



- Approximately 550,000 treasury shares at June 30, 2022.
- Represents 0.7% of shares outstanding.

* Share repurchases included up to June 30, 2022.

Investment Considerations

- Assembly market ever more critical in semiconductor value chain
- Disciplined strategic focus has created an industry leader
- Long term secular trends drive advanced packaging growth
- Wafer level assembly new growth opportunity
- Market presence has grown via key IDMs, supply chains and partners
- Tech leadership and scalability result in superior financial returns
- Commitment to sustainable growth and fighting climate change
- Attractive capital allocation policy