

#### Cautionary Note Regarding Forward-Looking Statements:

All matters discussed in this press release, 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, changes in import/export regulations, 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.



## AGENDA

BUSINESS AND RESULTS REVIEW 2020

ENVIRONMENT, SOCIAL AND GOVERNANCE (ESG)

CURRENT MARKET TRENDS AND OUTLOOK COVID-19 RESPONSE AND IMPACT

FINANCIAL HIGHLIGHTS

OPERATIONAL EXCELLENCE

LONGER TERM OUTLOOK AND PRIORITIES



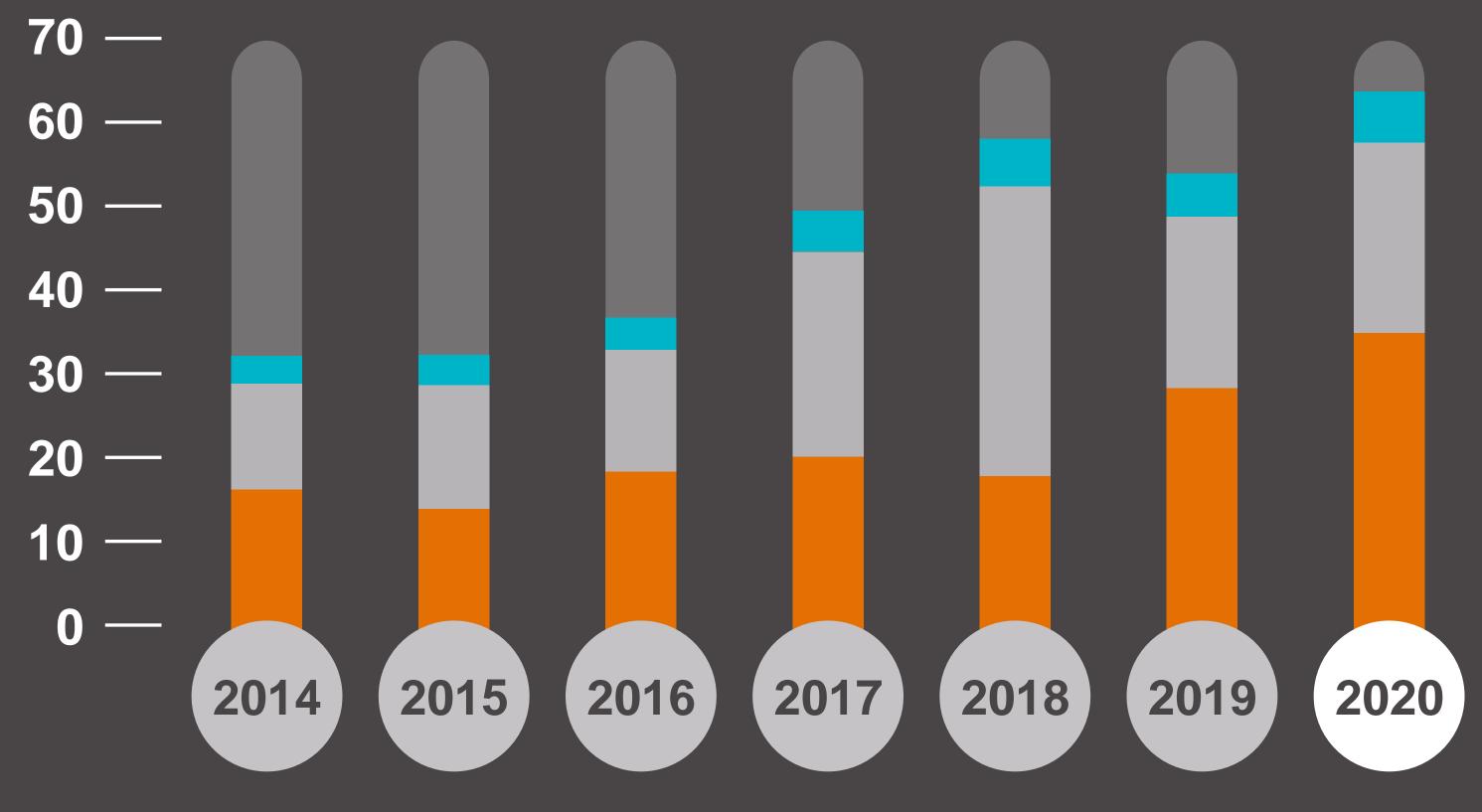


- Health and safety of our employees, families and business partners is our key priority. All necessary measures were taken, work from home where possible, split-shift work, enhanced cleaning protocols, etc.
- While putting the health of all of us first, ASMI employees and business partners showed strong commitment to support our customers in the best possible ways
- Parts of the market negatively impacted earlier in 2020, but the overall semiconductor market showed healthy growth in 2020, as the pandemic accelerated digitization trends
- COVID-19 created challenges in supply chain and logistics chain in Q2 2020 but we were still able to meet customer requirements in that quarter. In Q3 those conditions largely normalized again
- Lockdown measures led to a delay in the construction of the new Singapore facility which was completed in Q4 2020





## WAFER FAB EQUIPMENT BY INDUSTRY SEGMENT (US\$ BILLION)



- ASMI estimates 2020
   WFE increased with a mid to high teens %
- Solid growth in logic/foundry
- Healthy growth in memory

- Other
- Memory
- Logic/foundry



Source: VLSI Research, April 2021



## TOTAL REVENUE GREW 18% IN 2020

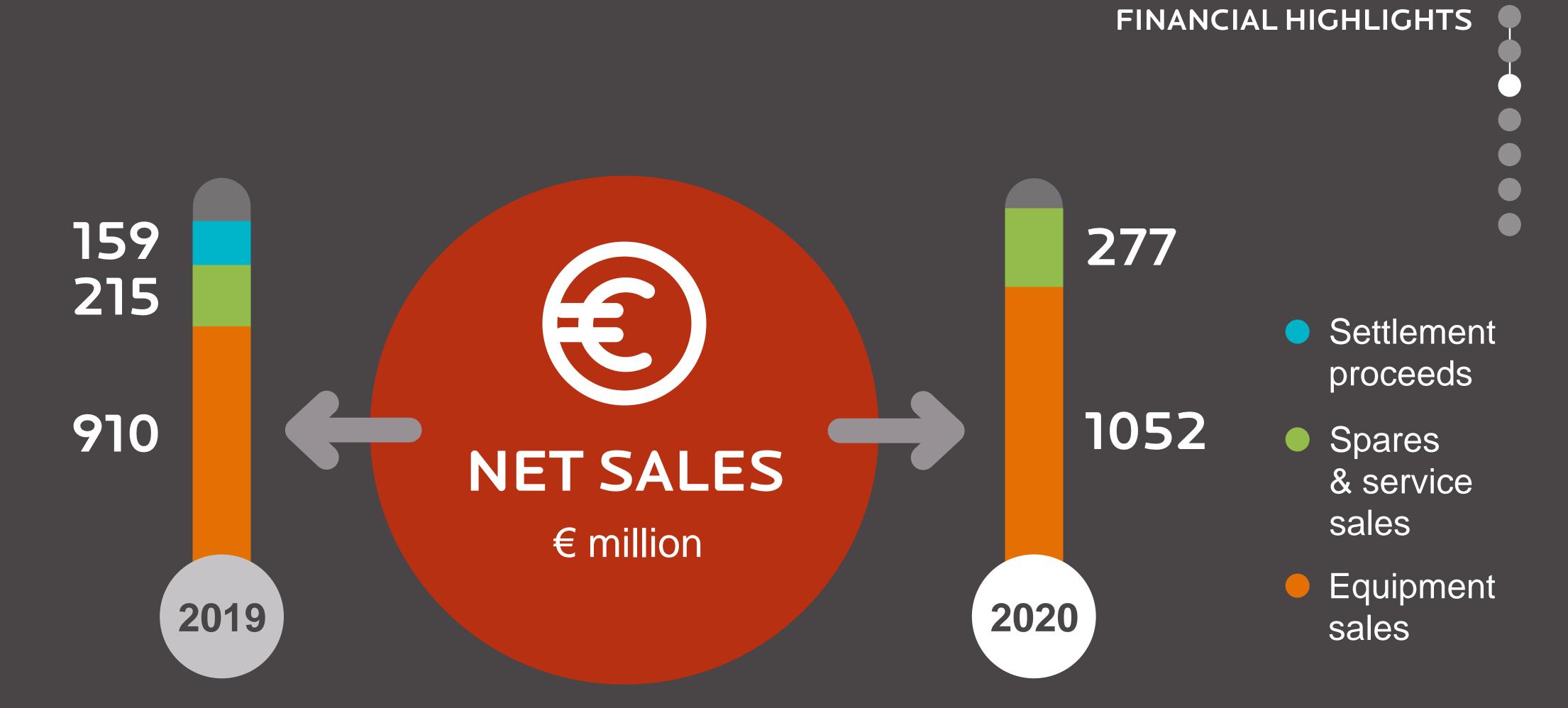
(excluding settlement proceeds in 2019)

- Revenue growth driven by logic/foundry investments at leading edge nodes where our share of wallet increased substantially
- Sales to the memory sector increased driven by new application wins in DRAM
- Equipment sales were driven by strong double digit growth in the ALD product line, which continued to account for over half of our total equipment revenue
- Spares & service business showed very strong growth of 29%
- Sales to China showed strong growth in 2020, for the first time accounting for a double digit percentage of total sales
- Operating profit increased approximately 50%









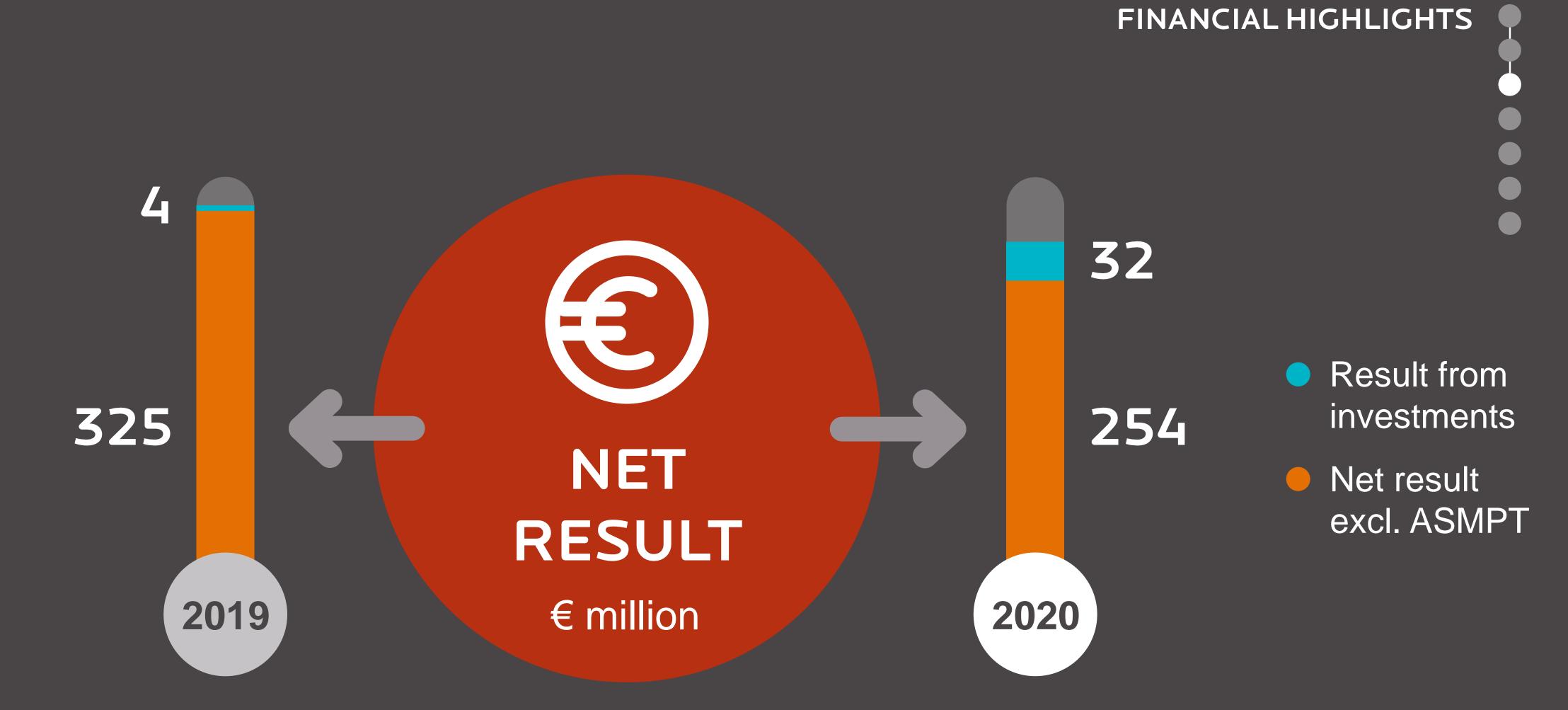


#### FINANCIAL HIGHLIGHTS



- Settlement proceeds
- Result excl.settlementproceeds

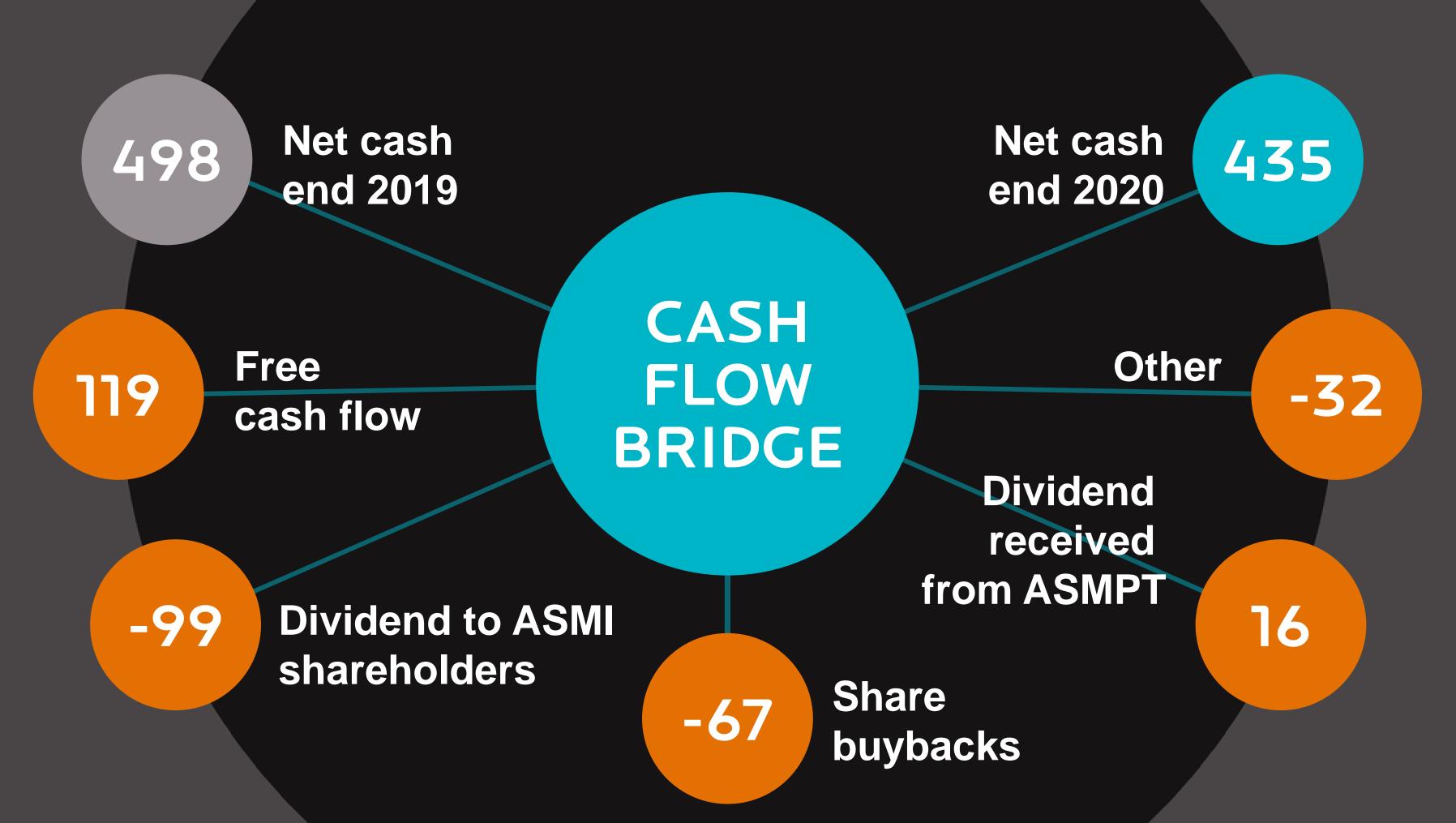






#### **AMOUNTS IN € MILLION**

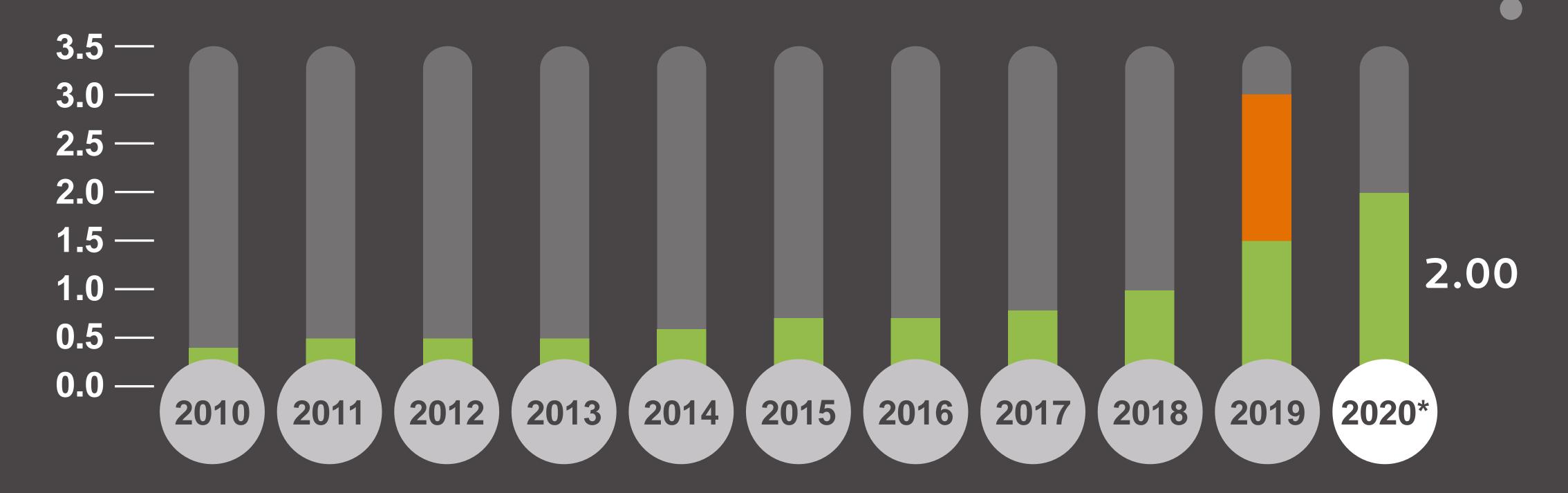
#### FINANCIAL HIGHLIGHTS





#### FINANCIAL HIGHLIGHTS

# SHAREHOLDER REMUNERATION DIVIDEND PER SHARE IN € PAID OVER



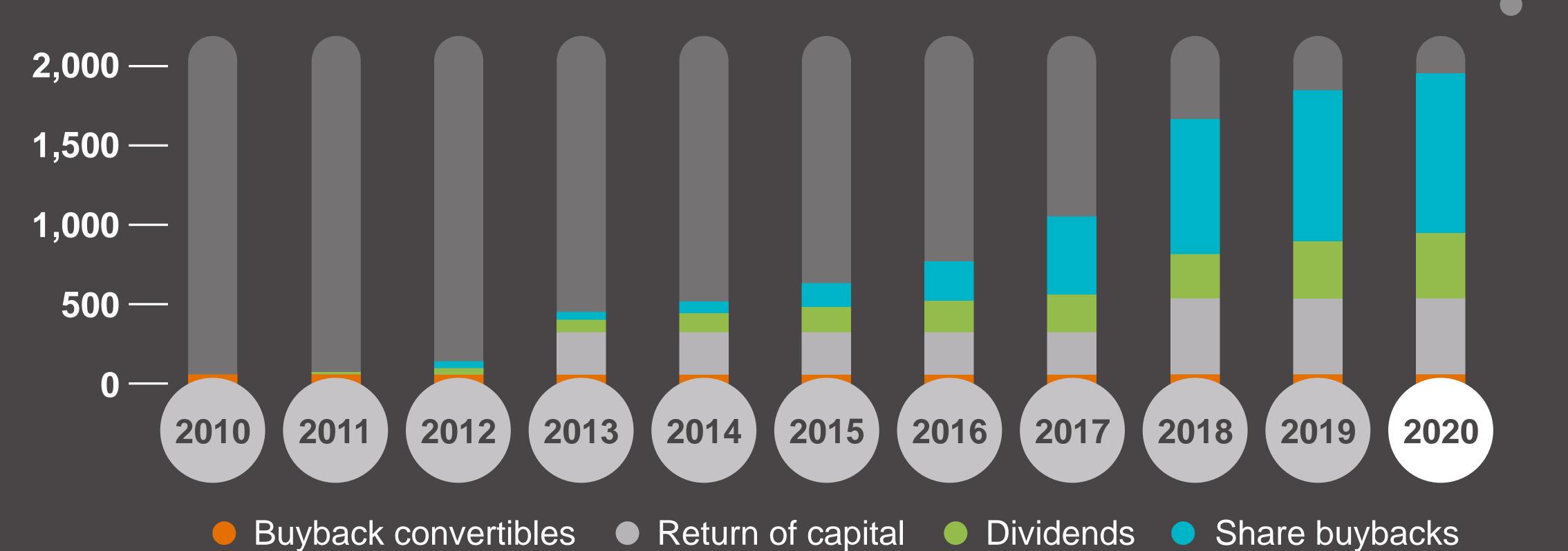
<sup>\*</sup> Proposed



Regular dividend

Extra-ordinary dividend

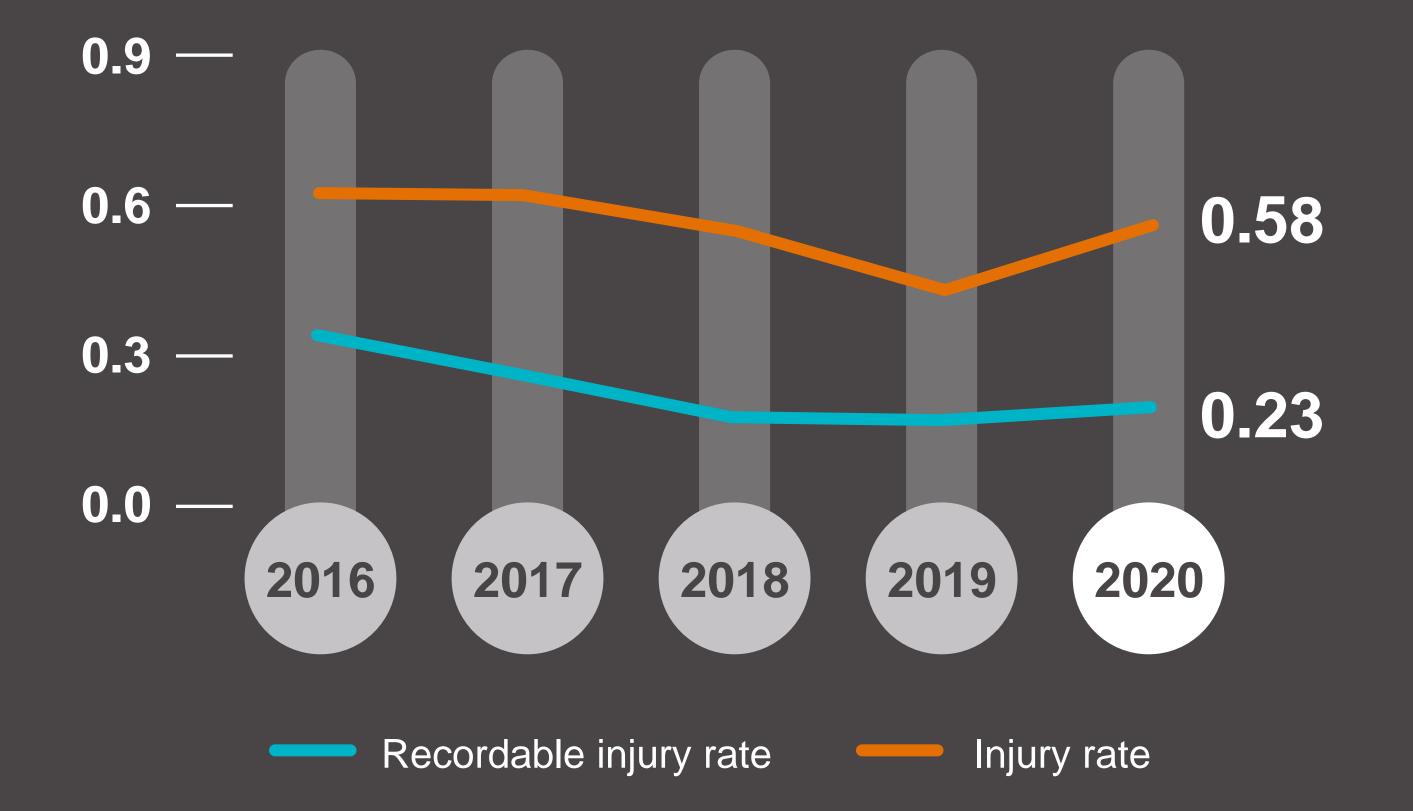
# **CUMULATIVE CASH RETURNED TO MARKET € MILLION**







### SAFETY: GLOBAL INJURY AND RECORDABLE RATES



- First increase in 10 years
- Continue striving toward
   Zero Harm!

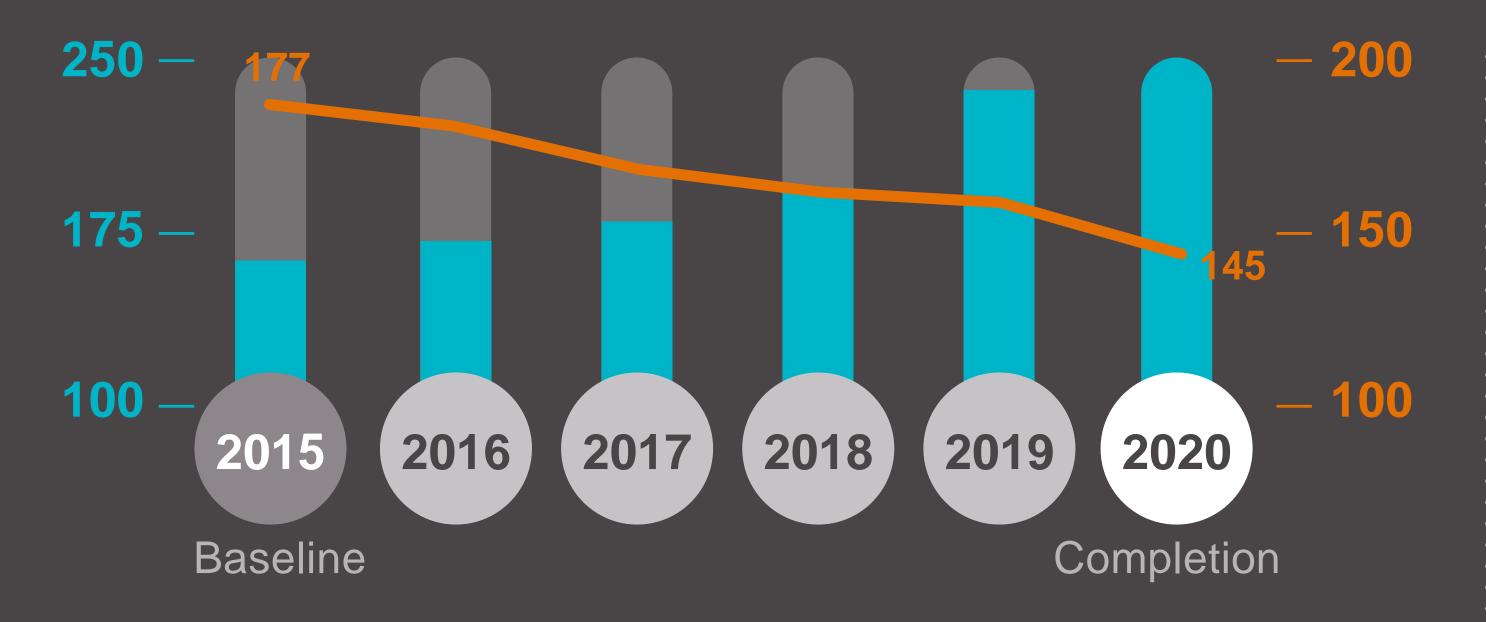


<sup>\*</sup> Injuries requiring > first aid, restricted duty, or lost work days, case rate per 100 employees



## GREENHOUSE GAS (GHG) EMISSIONS

(Absolute and normalized per R&D investment)



- Absolute Greenhouse Gas emissions (mtCO<sub>2</sub>e Scope 1 + 2, x100)
- Intensity of mtCO<sub>2</sub>e/million EUR R&D spend

#### **Objective**

Reduce greenhouse gas emissions by 5% per euro of research and development (R&D) investment below 2015 levels

#### Results

Achieved 17.9% reduction



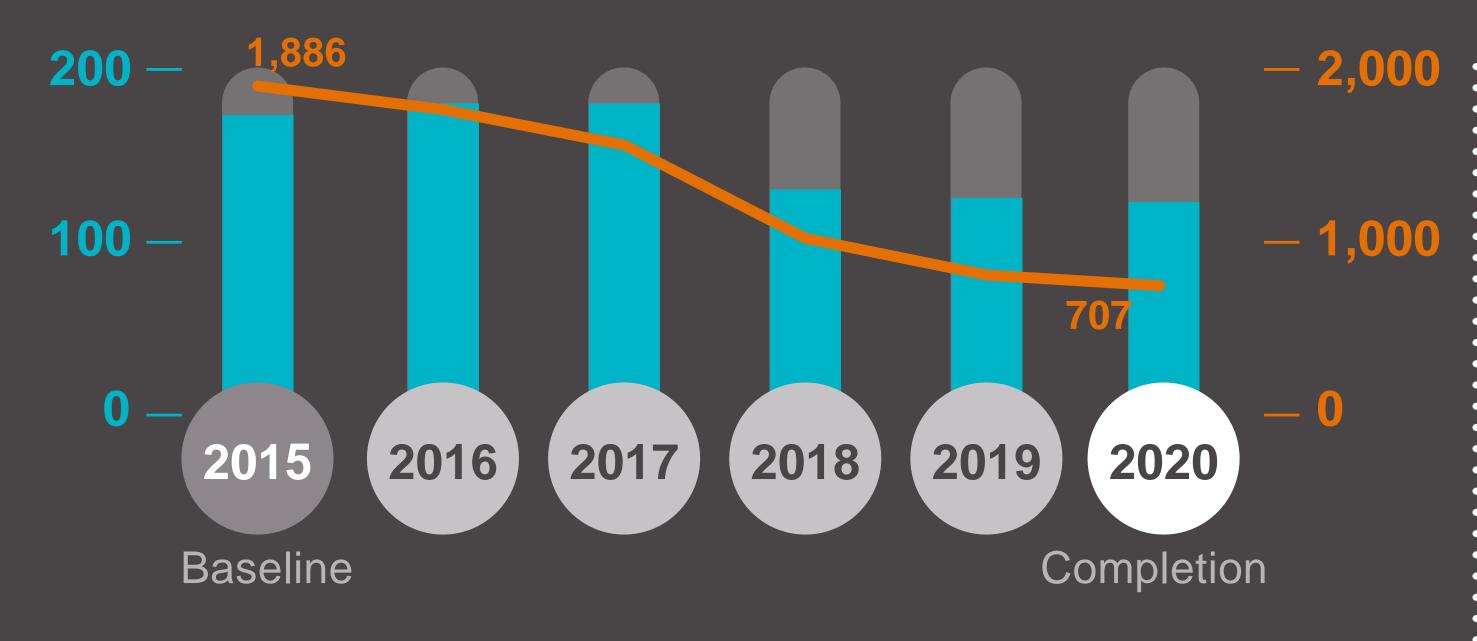


#### ENVIRONMENT, SOCIAL AND GOVERNANCE



## WATER CONSUMPTION (M3)

(Absolute and normalized per R&D investment)



- Absolute water consumption (m³, x1,000)
- Intensity m³/million EUR R&D spend

#### **Objective**

Reduce water withdrawn by 45% (up from initial target of 10%) per euro of R&D investment below 2015 levels

#### Results

Achieved 62.5% reduction

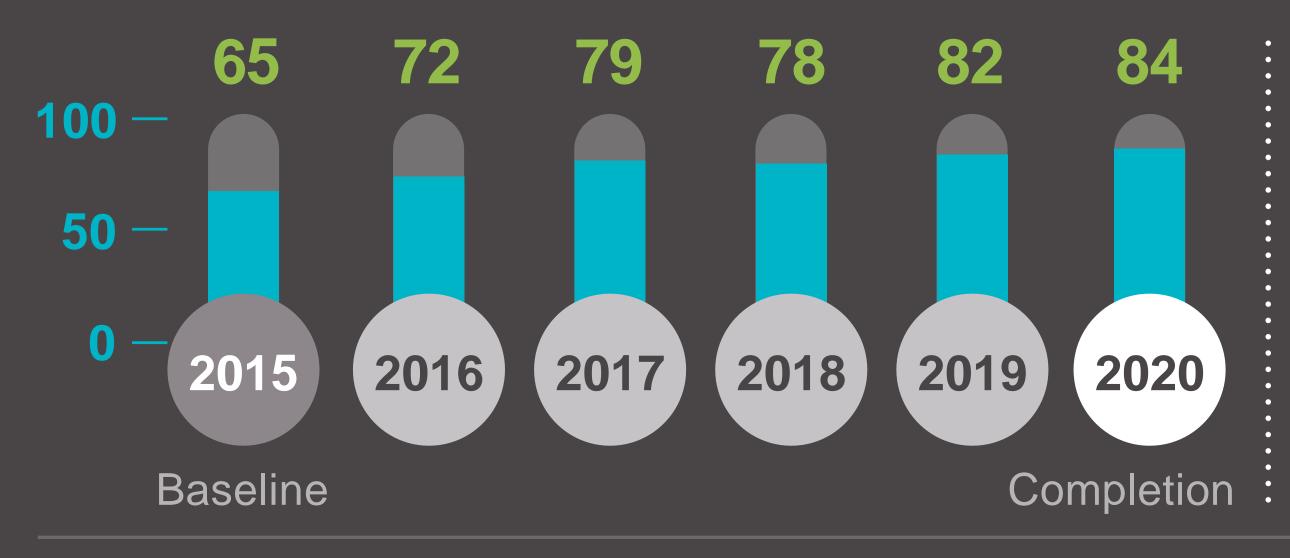




#### **ENVIRONMENT, SOCIAL AND GOVERNANCE**



## LANDFILL DIVERSION RATE (IN %)



#### **Objective**

Divert more than 90% of all waste from landfill through recycle or reuse

#### Results

Fell short of 90% objective



### **ENERGY EFFICIENCY STANDARDS**

#### **Objective** Results

All new construction projects to exceed the energy efficiency standards of local jurisdictions

**Achieved** 





#### ENVIRONMENT, SOCIAL AND GOVERNANCE

### 2020 ESG HIGHLIGHTS

NEW ASMI SINGAPORE FACILITY – BCA GREEN MARK



PRODUCT PACKAGING REUSE
- 41 METRIC TONS OF WASTE!

KEY CUSTOMER 'RESPONSIBILITY LEADERS' PROGRAM



RECOGNITION
AWARDS FOR WATER
CONSERVATION

**RBA MEMBERSHIP** 



#### **OPERATIONAL EXCELLENCE**

#### **CUSTOMER AWARDS**

# Intel 2020 Preferred Quality Supplier (PQS) Award with distinguished performance in safety

- The PQS award is in recognition for standout service and for meeting or exceeding annual improvement goals
- To qualify for PQS status, suppliers must score 80% or higher in performance assessments throughout the year, and demonstrate outstanding quality and business systems
- This is ASMI's 4th PQS recognition and the first repeat year win

#### intel

2020

PREFERRED QUALITY SUPPLIER AWARD

PRESENTED TO

ASM International N.V.

DISTINGUISHED PERFORMANCE IN SAFETY





Randhir Thakur Chief Supply Chain Officer



#### **OPERATIONAL EXCELLENCE**

#### **CUSTOMER AWARDS**

#### Samsung Contribution Award and appreciation plaques

 Received in November 2020 a Contribution Award for recognition of 30 years of dedicated support

#### Various appreciation plaques during 2020, including:

- Best cooperation in foundry manufacturing technology in February
- Outstanding support to improve productivity in memory in May



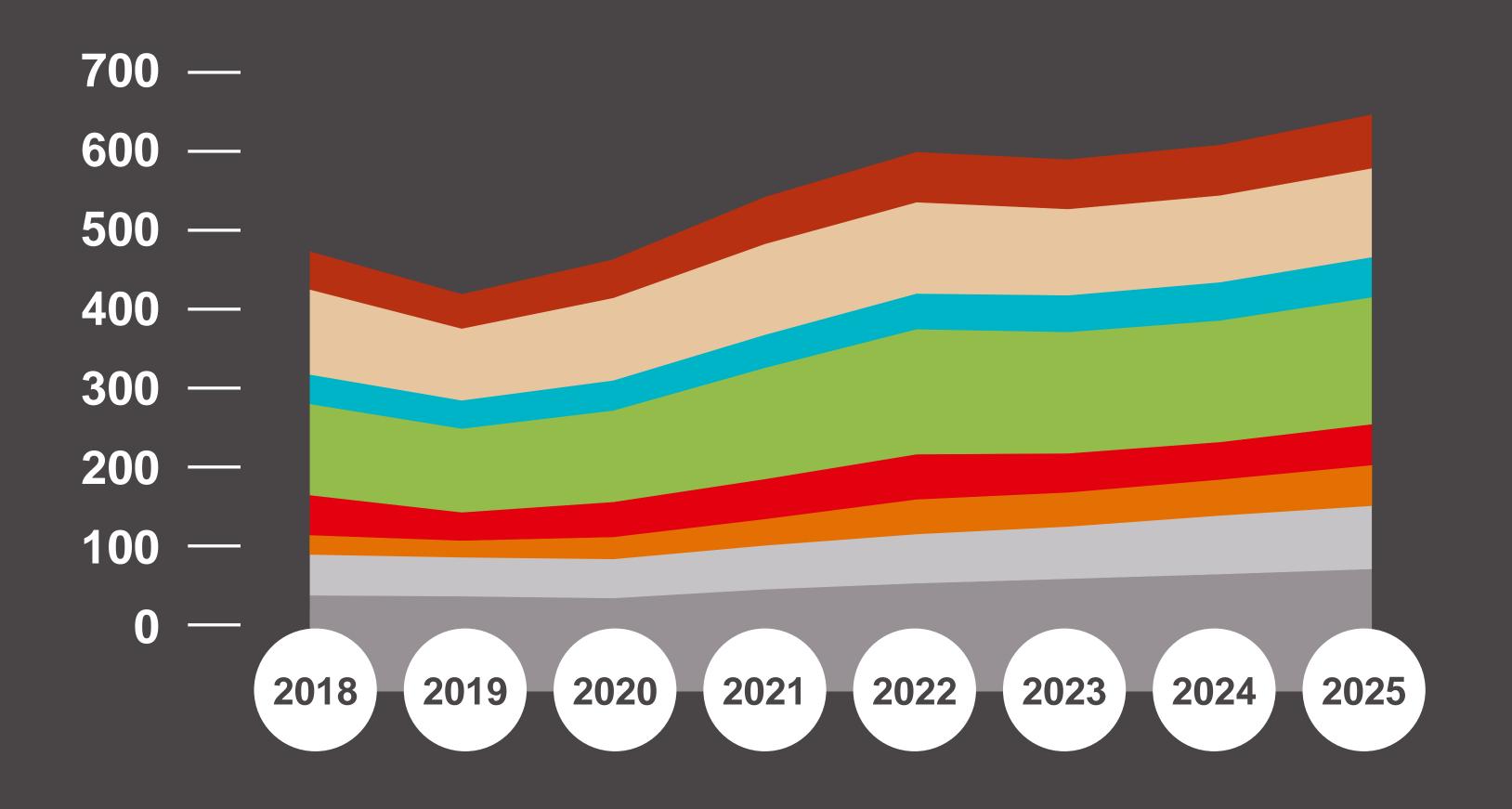




#### **CURRENT MARKET TRENDS AND OUTLOOK**

## SEMICONDUCTORS SALES BY KEY APPLICATION (US\$ BILLION)

Long term semi growth drivers are smartphones, solid state drives, automotive and industrial



- Consumer Electronics
- Compute (ex. Servers)
- Communication (ex. Smartphones)
- Smartphones
- Servers
- Solid State Drives
- Industrial
- Automotive

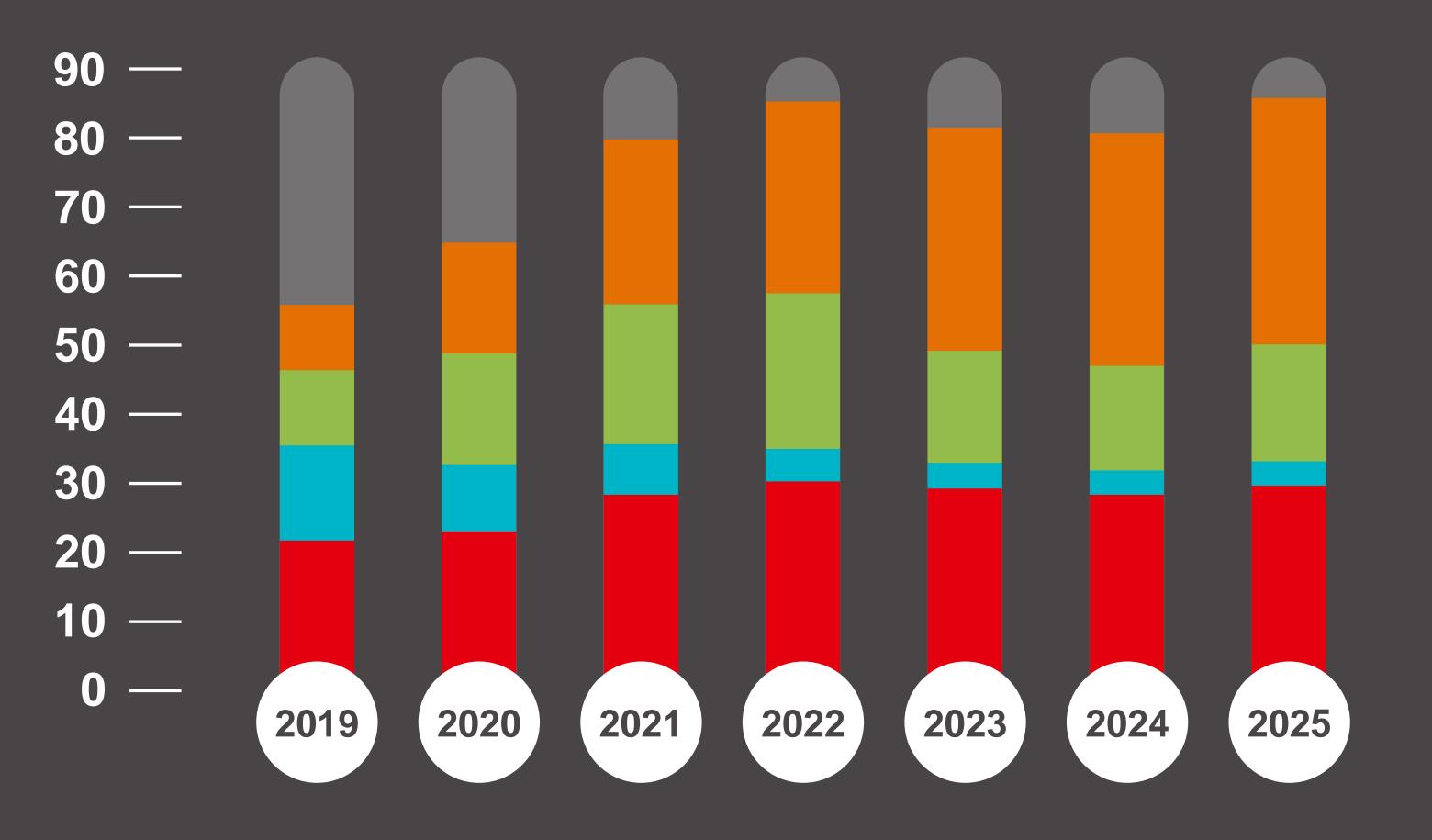
Source:

Gartner, March 2021



## WAFER FAB EQUIPMENT BY TECHNOLOGY NODE (US\$ BILLION)

Expected strong growth in 7nm and below plays to ASMI's strength



- 7nm and below
- 14nm/10nm
- 32nm/22nm
- 45nm and above

Source: Gartner, April 2021



## IN LINE WITH OUR Q1 2021 EARNINGS REPORT:

#### Logic/foundry

 Continued healthy spending environment in 2021, underscored by recent customer capex announcements with focus on leading edge investments

#### Memory

 Equipment spending expected to further recover in 2021, mainly driven by DRAM

#### Analog/power

• Equipment demand expected to show a strong recovery in 2021 following the slowdown in the Automotive and Industrials end markets in 2020

#### China

 Despite ongoing uncertainties due to the regulatory environment, ASMI sales continued to develop in a healthy way in Q1 2021, benefiting from a broader customer base



## ASMI GUIDANCE PROVIDED WITH Q1 2021 RESULTS

- For Q2, on a currency comparable level
  - Revenue to be €390 €410 million
  - Bookings to be €420 €440 million
- Based upon the current market developments, the wafer fab equipment (WFE) market is expected to grow by a high teens to low twenties percentage in 2021
- Based upon our current view, we expect our sales in the second half to be at least at the same level as in the first half
- 2021 is expected to develop in another year of solid growth for ASMI







#### LONGER TERM OUTLOOK

#### Longer term outlook remains healthy

- Advanced node capacity required to facilitate structural growth drivers as datacenters, 5G and artificial intelligence
- Customers committed to develop next advanced nodes

#### ALD market offering substantial growth opportunities

- ALD market reached a size of \$1.5bn in 2020
- Expected to grow substantially beyond this level in coming years
- ALD to become even more a core technology for customers to enable transition to next nodes
- ALD expected to be the fastest growing segment of overall deposition market





#### LONGER TERM OUTLOOK AND PRIORITIES

#### STRATEGIC PRIORITIES ASMI

#### Strategic direction is the right one

Further step up ASMI's capabilities to prepare for next phase of growth

#### Increase addressable market in ALD

- Maintain leadership in growing logic/foundry market
- Broaden reach and increase share of wallet in memory markets

#### Drive structurally higher sales in other product lines

- Broaden position and further expand customer base in Epi
- Invest in targeted niche opportunities Furnaces and PECVD

#### **Grow our spares & service business**

Expand offering of new outcome-based services



## STRATEGIC PRIORITIES ASMI

#### **Expand R&D engagements**

- Focus on continued strengthening of R&D engagements with key customers
- Further drive R&D spending
- Invest in expansion and upgrading of lab facilities

#### Well positioned for long term growth

- Strong traction new products and applications
- Expanding memory position with the next and next-next nodes
- Growing our customer base in Epi
- Expanded capacity of our new state-of-the-art Singapore manufacturing facility offers further room for growth





