



INVESTOR PRESENTATION

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 and other global pandemics 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; 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. In addition, the United States and other countries have recently levied tariffs and taxes on certain goods and could significantly increase or impose new tariffs on a broad array of

goods. They have imposed, and may continue to impose, new trade restrictions and export regulations. Increased or new tariffs and additional taxes, including any retaliatory measures, trade restrictions and export regulations, could negatively impact end-user demand and customer investment in semiconductor equipment, increase Besi's supply chain complexity and manufacturing costs, decrease margins, reduce the competitiveness of our products or restrict our ability to sell products, provide services or purchase necessary equipment and supplies. Any or all of the foregoing factor could have a material and adverse effect on our business, results of operations or financial condition. In addition, investors should consider those additional risk factors set forth in Besi's annual report for the year ended December 31, 2024 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.

Agenda



- I. Company Overview
- II. Market Overview
- III. End-User Market Trends
- IV. Financial Update and Summary

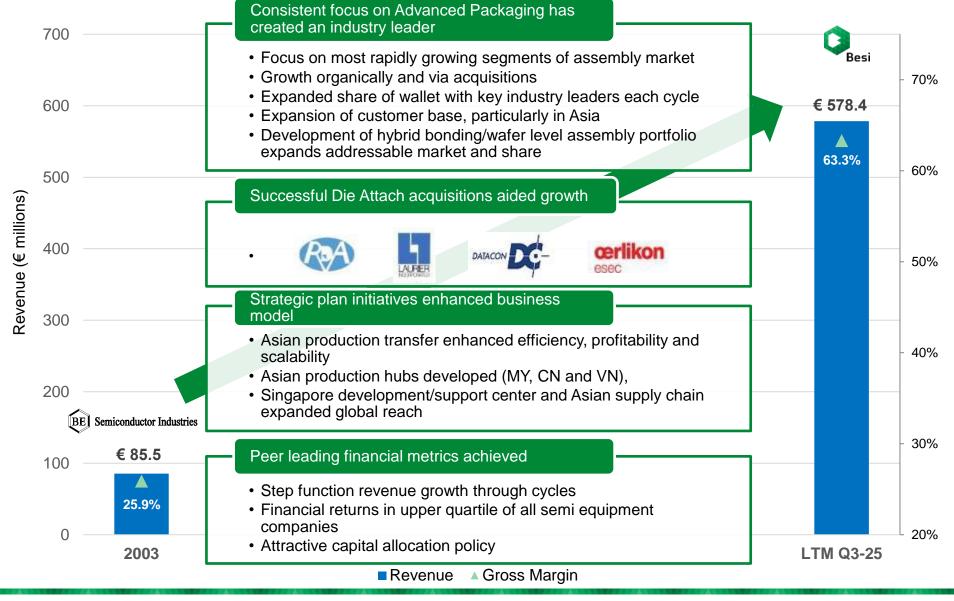




I. COMPANY OVERVIEW

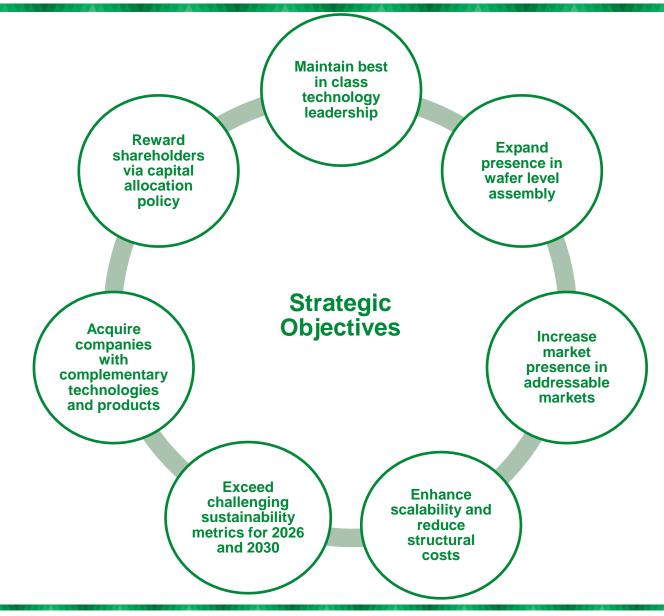
Company History





Summary Strategy





Superior Long Term Value Creation



Capital Allocation

Attractive capital allocation program

€ 2.3 billion of dividends and share repurchases since 2011*

Represents ~32% of total revenue

Strategic/Financial

Disciplined execution has created leader in advanced packaging

Best in class financial metrics

Superior through cycle financial performance versus peers

Shareholder Return

Superior Total Returns**: 206% (3 year) 306% (5 year) 2,666% (10 year)

Consistent TSR outperformance versus peers

Upper quartile ranking for all semi-equipment companies

- * Includes share repurchases through September 30, 2025
- ** Through September 30, 2025

Market Positioning: From Processed Wafer to Assembled Chip

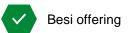




Assembly Process

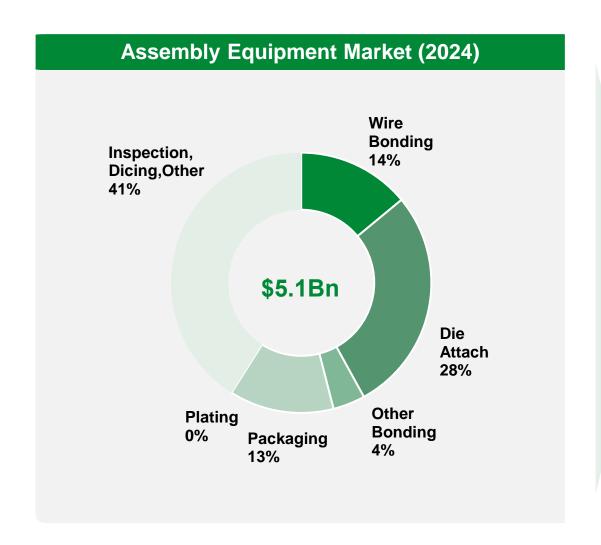
Dicing	Die Attach	Wire Bond	Packaging	Plating	
					Leadframe Wire Bond
					Substrate Wire Bond
					Substrate Flip Chip / TCB
					Wafer Level Hybrid, EMIB, TCB, Flip Chip, FOWLP

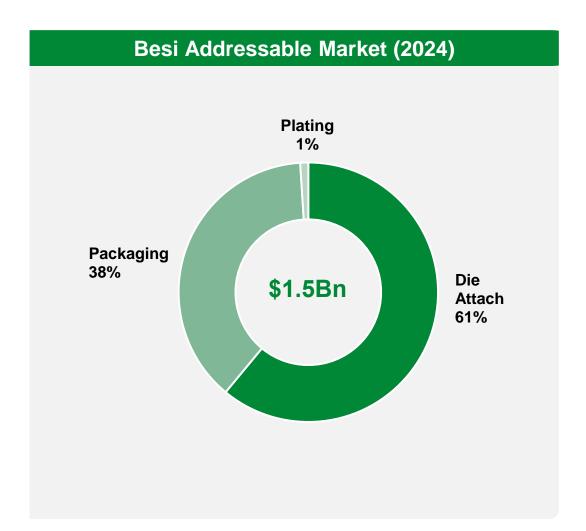
Source: TechInsights, September 2025



Assembly Equipment Market Composition







Source: TechInsights, September 2025

Industry Leading Assembly Equipment Portfolio







Serving Blue Chip Customers Across Key End-Markets



Customers

- Diversified, blue chip customer base
- Top 10 customers ~52% of 2024 revenue
- One customer > 10%
- Supplying leading IDMs, fabless producers and subcontractors
- Sell direct to IDMs
- Sell to fabless producers via subcontractors
- 55% IDMs/45% foundries/subcontractors order split in 2024
- Long-term relationships
- Many exceed 50 years

Foundries/Subcontractors









SHARP























Independent Device Manufacturers (IDMs)

amu osram

























Fabless IDMs



















End-User Markets

Computing 43%



Mobile 20%



Auto/ Industrial 21%

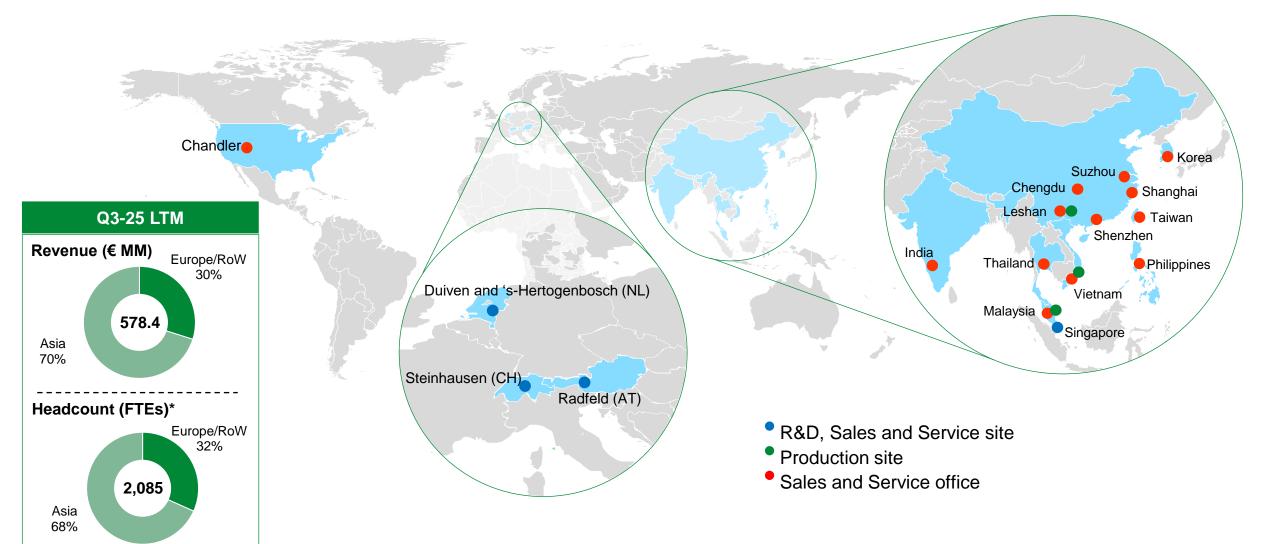


11

Fiscal 2024 data.

Global Operations Supported by European Development Centers and Asian Production Footprint/Supply Chain





^{*} Headcount per quarter ending. Including temporary headcount.

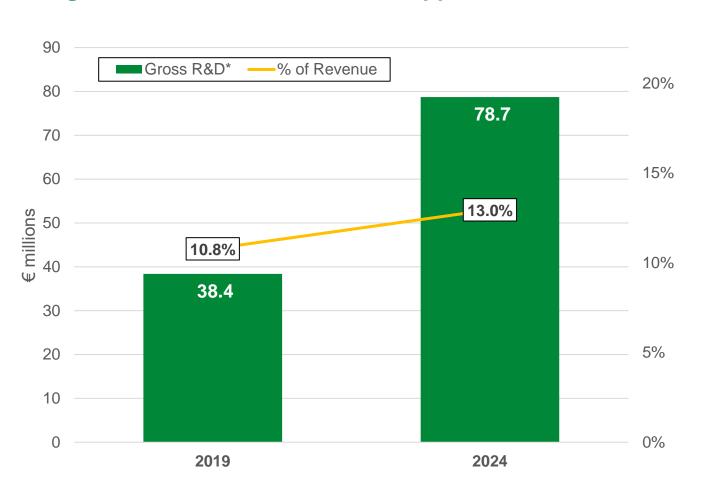
November 2025 12

Focus on New Product Innovation



13

Significant R&D Investment in Support of New Product Introductions



^{*} Gross R&D spending excludes impact from capitalization/amortization of R&D costs

Innovation is a key driver of our business:

 New opportunities for each next-generation advanced packaging system

Significant R&D investment in advanced packaging over past 5 years to support:

- New 2.5D/3D IC assembly structures for AI
- Portfolio enhancements for next market upcycle

Key areas of current focus:

- 50 nm accuracy hybrid bonder
- TCB Next for memory and logic applications
- Advanced CoWoS:
 - 1 micron accuracy Evo
 - Next gen flip chip

Summary Financials



Year Ended December 31, (€ MM)	2023	2024	YTD Q3-25	YTD Q3-24
Orders	548.3	586.7	434.6	464.8
Growth (%)	-17%	+7%	-7%	
Revenue	578.9	607.5	425.0	454.1
Growth (%)	-20%	+5%	-6%	
Gross Profit	375.8	395.9	268.0	297.8
Margin (%)	65%	65%	63%	66%
EBITDA	239.1	224.2	140.7	166.2
Margin (%)	41%	37%	33%	37%
Operating Income	213.4	195.6	116.8	145.0
Margin (%)	37%	32%	27%	32%
Net income	177.1	182.0	88.8	122.7
Margin (%)	31%	30%	21%	27%
Net Cash*	113.0	143.8	-7.8	110.7

Long-term growth in cyclical business

Increased revenue, profitability and market share per cycle

Strong margins and profitability

 Attractive gross and net margins maintained through cycles due to advanced packaging product mix, cost control efforts, flexible supply chain and Asian production

YTD Q3-25 results reflect contrasting growth trends:

- Al strength vs. mainstream assembly weakness
- Q3-25 orders up 36.5% vs. Q2-25 and 15.1% vs. Q3-24 due to increased demand by Asian subcontractors for 2.5D Al applications
- Gross margin at lower end of target model due to significantly lower USD vs. EUR
- Operating income levels also reflect increased R&D and sales/service to support wafer level assembly activities

Strong cash generation supports shareholder friendly capital allocation policy

^{*} Calculated as Cash and cash equivalents, including deposits minus total debt. Excludes lease liabilities.

Target Model Update



15

Prior Long Term Target

€ 1 billion +++

40%+

62 - 66%

35 - 50%

Net Zero GHG by 2030

100% from renewable sources

Revenue

Addressable Market Share

Gross Margin

Operating Margin

Scope 1 & 2 Emissions

Global Energy Needs

New Long Term Target

€ 1.5 - 1.9 billion

40%+

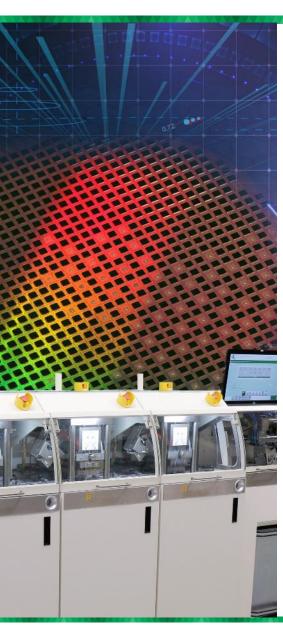
64 - 68%

40 - 55%

Net Zero GHG by 2030

100% from renewable sources

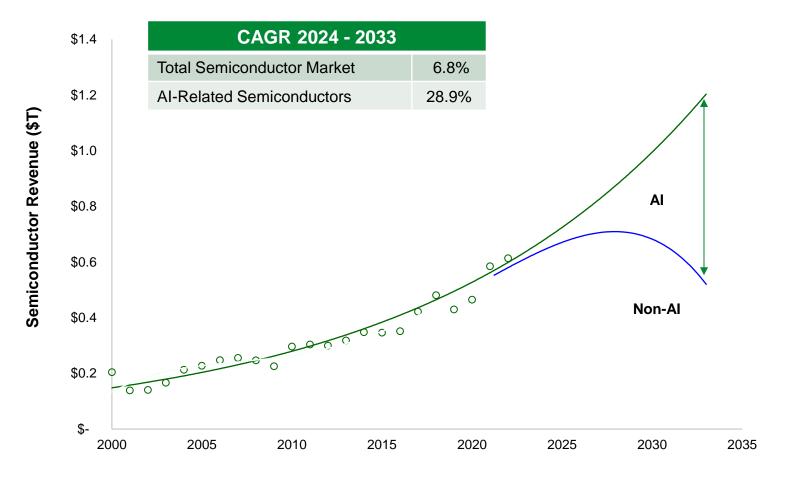




II. MARKET OVERVIEW

Al is Driving Long-Term Semiconductor Revenue Growth





Humanoid Robotics Autonomous Taxis Al Wearables (AR/VR) **Al Smartphones Al Personal Computers Data Center Al Infrastructure**

Sources: TechInsights 2025, Precedence Research Nov 2024



Approximately \$100B investment in progress or planned

Packaging Fab Projects	# Projects	Cost (\$B)
Taiwan	4	26.1
USA	6	24.5
Europe	4	9.3
Korea	2	9.1
Singapore	1	7.0
China	7	6.3
India	2	6.0
Malaysia	1	1.3
Vietnam	1	1.0

Source: TechInsights, Besi May 2025

Assembly Market Trends





Near term assembly growth revised downwards by Techinsights for 2024-2026

- 8% increase anticipated now for 2024-2026
 - Vs. 59% at beginning of year
 - Strength in AI and HBM applications offset by weakness in many mainstream markets

Long-term growth trends intact:

- 53% increase expected 2024-2029
 - Expansion of Al/use cases
- Advanced packaging growth expected in all enduser markets

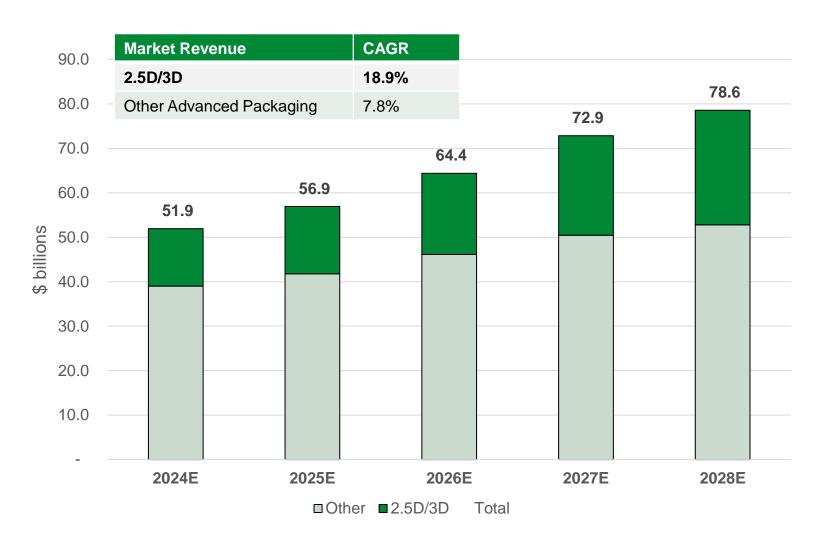
Besi expects to significantly outperform assembly market growth

Source: TechInsights, September 2025. Assembly equipment revenue excludes service revenue

November 2025 19

Advanced Packaging Revenue Forecast to Grow Rapidly 2.5D/3D Fastest Growing Segment





Besi Portfolio Well Positioned by Node Size and Accuracy

- ~70% of Besi equipment revenue from advanced packaging
- ~50% equipment revenue from advanced die placement (< 7 micron accuracy)
- ~50% of revenue Al-related
- Entering Fluxless TCB market

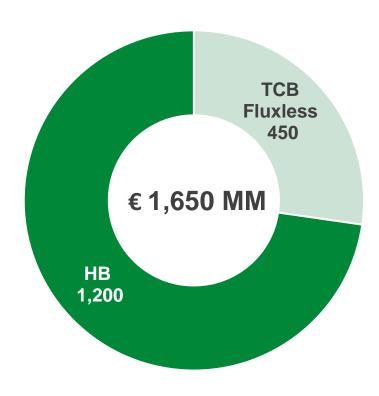
Source: Yole, December 2024

November 2025 20

Besi Focuses on Highest Growth Segments of Advanced Packaging



Estimated 2030 Hybrid Bonding & TCB Fluxless Market Size (€ MMs)



Hybrid bonding estimated to be largest assembly segment by 2030

- Assumes transition from TCB to hybrid bonding as from HBM5
- Estimated market size in 2030 = ~350 units (mid case)

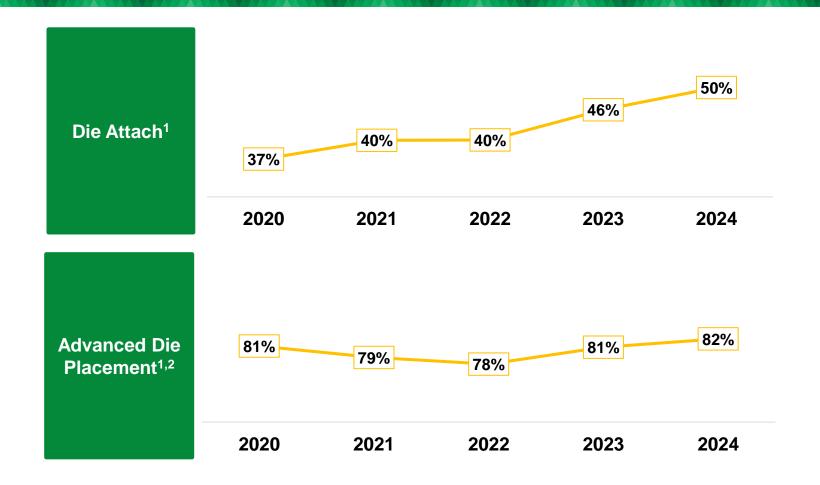
Besi entering Fluxless TCB market

- Emerging market with significant growth potential
- Focused on highest value added advanced chiplet and memory applications
- Estimated market size in 2030 = ~100 units (mid case)

Source: Besi estimates. Mid case scenario hybrid bonding

Leading Market Shares in Besi's Key Die Attach Markets





Source: TechInsights, September 2025

1) Excludes TCB, wire bonding, dicing, and other

2) Advanced die placement defined as < 7 micron accuracy per TechInsights

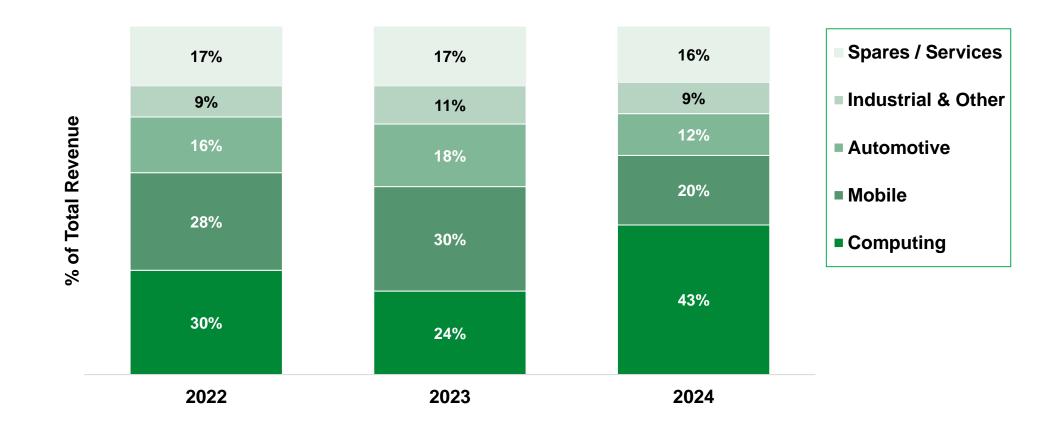




III. END-USER MARKET TRENDS

Besi's End-User Market Trends





Principal Growth Drivers in Besi's End-User Markets



Computing	Mobile	Automotive	Industrial / Other
Cos word Prings: 1 ChatGPT	Generated by ImageFX		
Generative Al	On Device Al	Autonomous Driving	Factory Automation
DatacentersEdge AI tablets/PC/laptopsGaming	 Adv. cameras & 3D imaging 5G advanced → 6G Under display biometric ID New AR/VR devices 	 Advanced cameras/sensors Vehicle electrification SiC & GaN power devices Connectivity/infotainment 	Smart gridIndustrial IoTClean energy

Advanced Packaging Solutions Critical to Development of Next Generation Applications



26

Besi's Advanced Packaging Solutions

- Hybrid bonding
- TCB chip-to-wafer
- High accuracy flip-chip
- Fan-out, embedded bridge
- EVO multi module
- Thermal management
- Wafer/substrate molding

2.5D/3D Process Applications

- 3D IC logic
- High Bandwidth Memory (HBM)
- Chip on Wafer on Substrate (CoWos)
- Photonics chiplets
- Die embedding
- Thermal lid attach
- Encapsulation

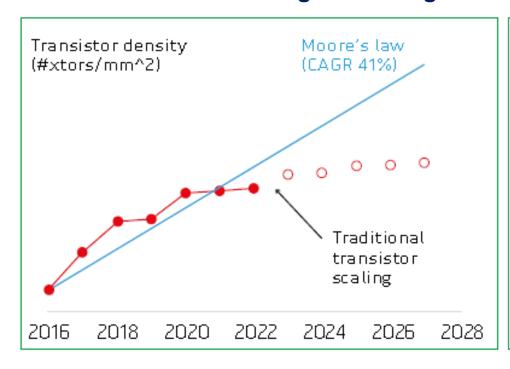
End-User Applications

- Mobile:
 - On-device Al
 - Advanced cameras and sensors
 - 5G/6G mobile
- Computing:
 - Datacenters
 - Edge Al laptops/PCs
 - New AR/VR devices
- <u>Auto/Industrial</u>:
 - Autonomous driving
 - Vehicle electrification
 - Smart grid/clean energy

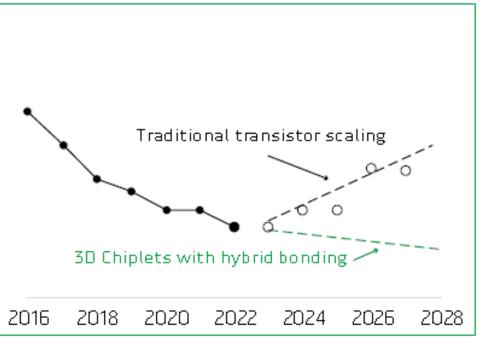




Moore's Law Scaling Is Slowing



Cost Per Transistor Is Increasing



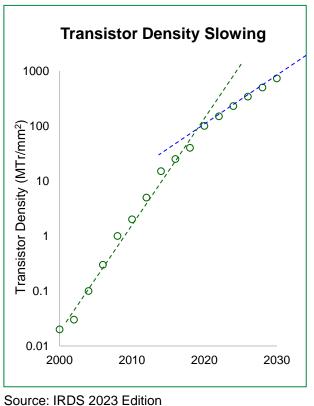
Source: Qualcomm and Besi

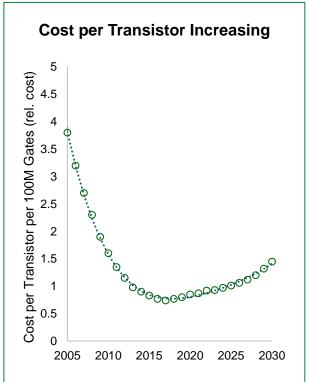
November 2025 27

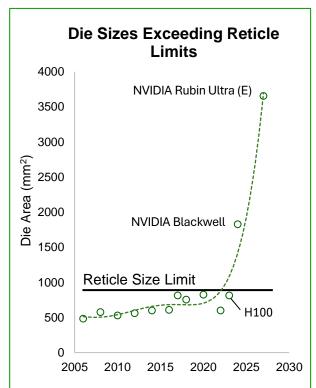
Slowing of Moore's Law Accelerates Adoption of Chiplets & 3DIC

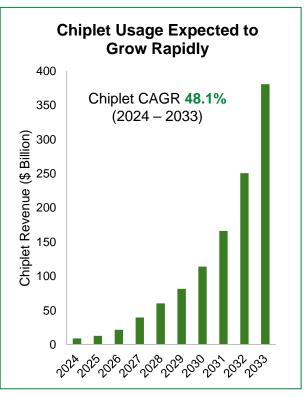


- Moore's Law slowing as data volumes grow exponentially and commercial applications expand
- Customers adopting chiplets, connected via hybrid bonding and TCB, to optimize device function per node and reduce cost









Source: Tom's Hardware, IEDM 2023 - Google

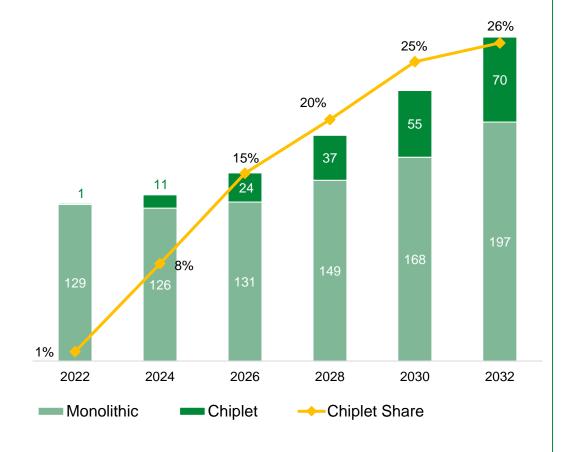
Source: Besi

Source: Dimension Market Research January 2025

Chiplet Usage Increasing Rapidly Due to Favorable Economics for Advanced Applications

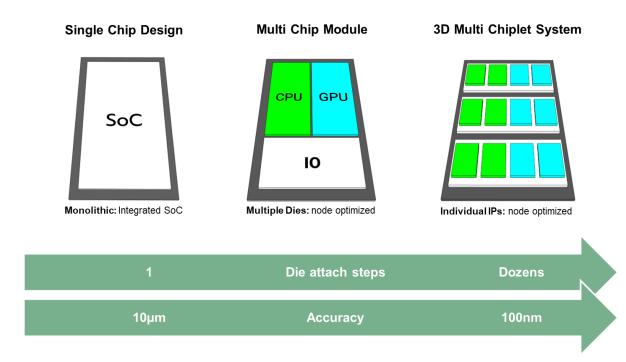


Wafer Foundry Addressable Market \$Bn



Source: CSM foundry model, ISM foundry model

Chiplet Adoption Drives Higher Capital Intensity



Source: Intel

November 2025 29

Al Chiplet Packages Require a Variety of Advanced Packaging Solutions



Hybrid Bonding

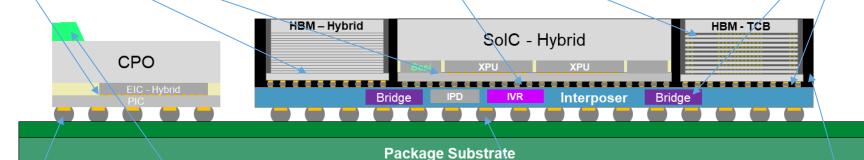
3DIC stacking < 9µm pitch HBM stacking ≥ 16 High Photonics

Thermo-compression Bonding

C2W chiplet stacking HBM stacking ≤ 16 High 3D bridge attach

CoW Flip-chip and Fan-out

CoW flip-chip of logic & memory High-density fan-out Embedded bridge die attach



Flip-chip CoS

Advanced mass reflow flipchip attach > 40 um pitch

Photonics

High precision optical component placement

Interposer Attach

oS bonding of large interposers up to 110 mm

Chiplet Molding

CoW encapsulation
CoWoS molded underfill

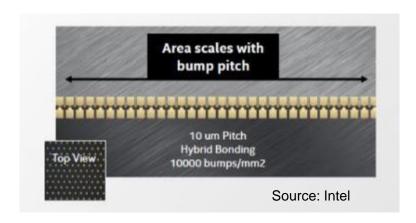
November 2025 30

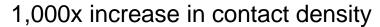
Hybrid Bonding Enables Faster, More Complex Devices With Submicron Placement Accuracy and Less Power/Heat Generation



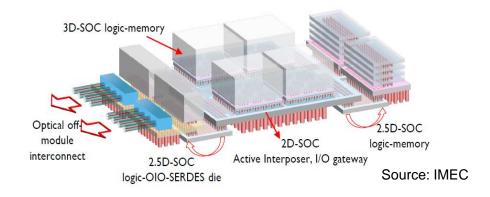
31

Direct Cu-Cu 3D Interconnect





Heterogeneous Chiplet Integration



More transistors per package

New Chip Architectures

- Quasi-monolithic 3D
- Optimal use of nodes
- Customized designs
- Highly configurable

Increased Performance

- Highest compute power
- Increased data transfer
- Higher bandwidth
- Higher speed

Lower Cost of Ownership

- Higher die yield
- Lower energy per bit
- Lower cost per contact
- Lower heat dissipation

Hybrid Bonding Will Become Mainstream Advanced Packaging Solution



Perception: Hybrid bonding is too expensive for widespread adoption

Micro-bump C2W TCB	Performance Factor	Hybrid Bonding
1X	Interconnect Density	15X
1X	Speed	11.9X
1X	Bandwidth Density	191X
1X	Energy Efficient Performance, EEP	>100X
10X	Cost per Interconnect*	1X

Reality:

HB provides superior cost:

- Requires higher infrastructure cost but delivers 10x lower cost per interconnect
- Increases energy-efficient device performance by >100x, lowering data center operating cost
- Reduces HBM stack temperature by 20%, lowering system cooling cost
- Provides flexibility to combine most cost-efficient silicon nodes
 - First commercial product with hybrid interconnect was a consumer-oriented gaming CPU (AMD Ryzen)

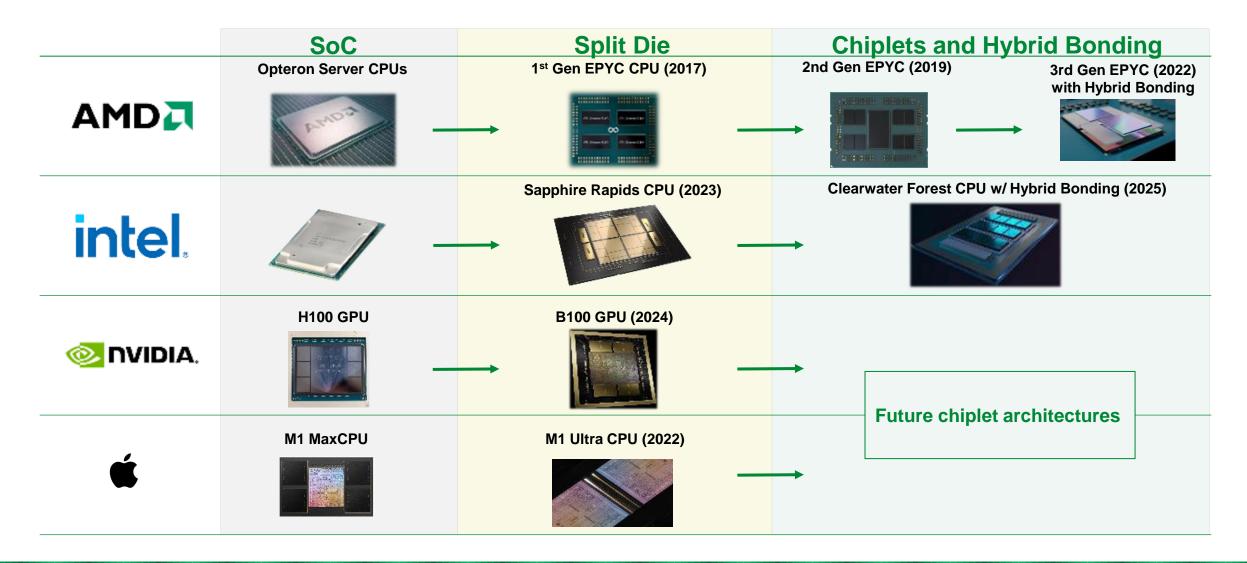
In addition:

HB essential to semiconductor and system design progress:

- Enables more energy-efficient performance and the extension of Moore's law
- Enables HBM roadmap and tighter integration of optical and mixed signals

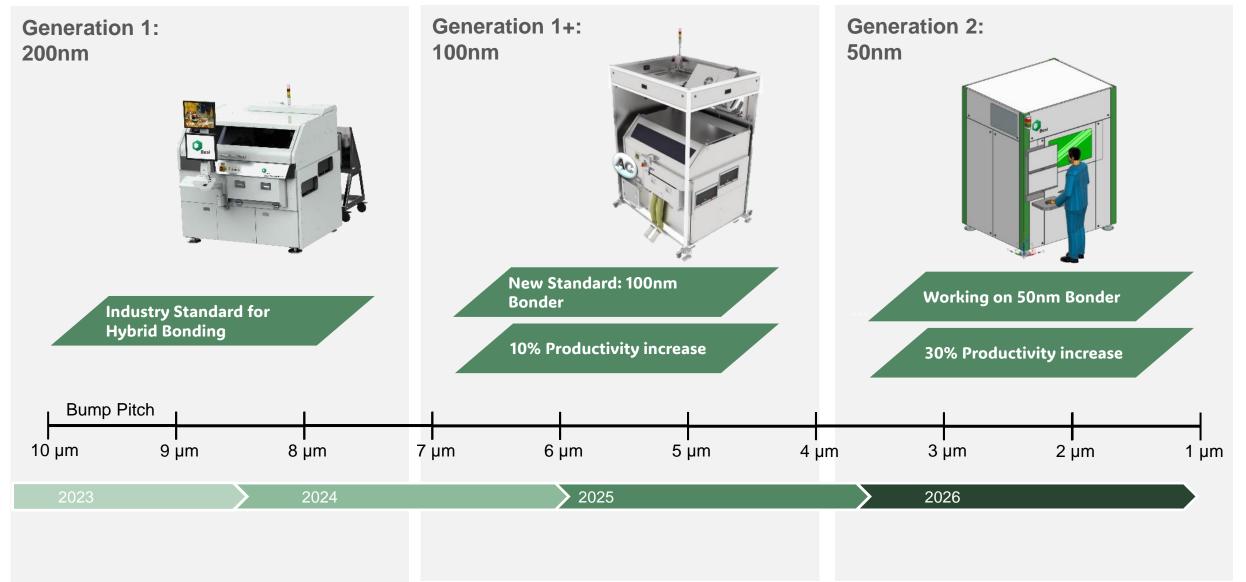
Important Process Step In Future Product Roadmaps





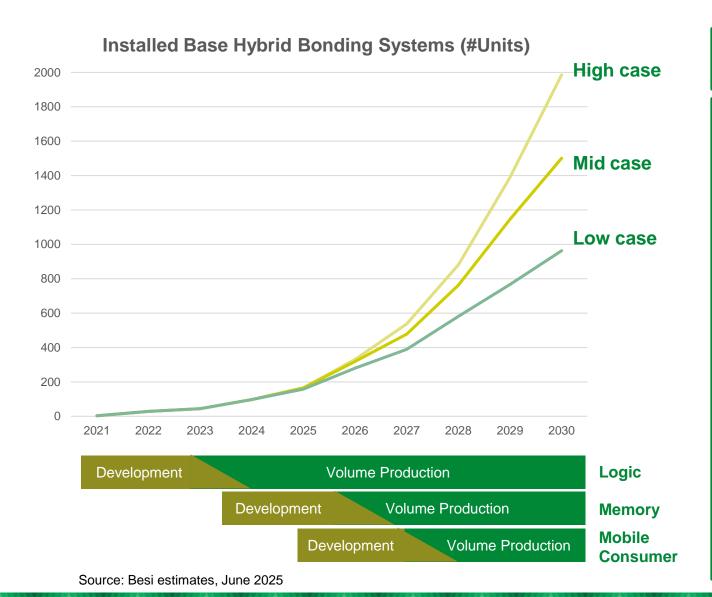
Besi's Hybrid Bonding Roadmap





Hybrid Bonding Market Potential – Logic and Memory Cases Confirmed





Estimated 960 – 2,000 systems cumulatively by 2030 Up ~7% for low and mid cases vs. 2024 CMD

Low case (logic):

- Logic adoption confirmed
 - · AMD and Intel progressing as expected
 - Broadcom adopting SolC for custom AI ASICs
 - High-end PC/laptop CPUs expected to adopt SolC by end of 2025
 - Many Al device players in development

Mid case (Memory & CPO):

- · Memory adoption confirmed
 - All leading players evaluating both HB and TCB for HBM4
 - First hybrid bonded HBM4e 16 high stacks in 2026
 - HBM 5: Hybrid bonding only
- Co-packed optics moves from upside potential to reality

High case:

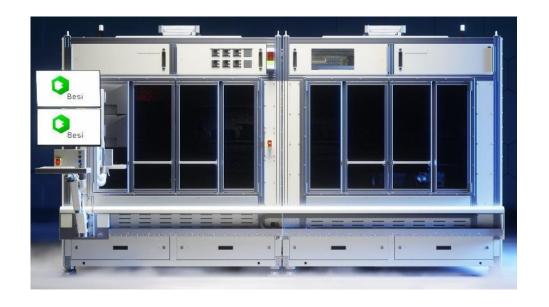
- Emerging applications becoming more tangible
 - Smart glasses adopting D2W fusion bonding
 - Micro displays
 - Sensors
 - Smartphones

November 2025 35

TCB Next Complements Hybrid Bonding To Offer Customers Complete Portfolio for Next Gen Al Applications



9800 TC Next Thermo Compression Bonder

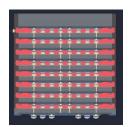


Key Features

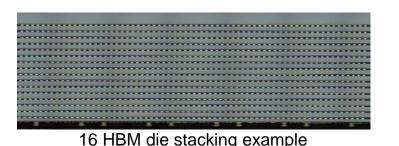
Best in Class C2W TCB for Chiplet Packages

- NCF, NCP, TC-CUF and TC fluxless bonding processes with micro-inert chamber
- Chip-to-Wafer and chip-to-substrate configurations
- 0.5 um placement accuracy for ultra fine pitch chiplets
- High throughput up to 2500 CPH. Dual gantry
- Front-end automation and process control
- Alx active bond quality monitoring

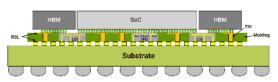
HBM Stacking up to 16 die high

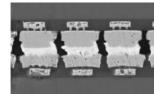


Source: SK Hynix



Al XPU and Advanced Logic Applications



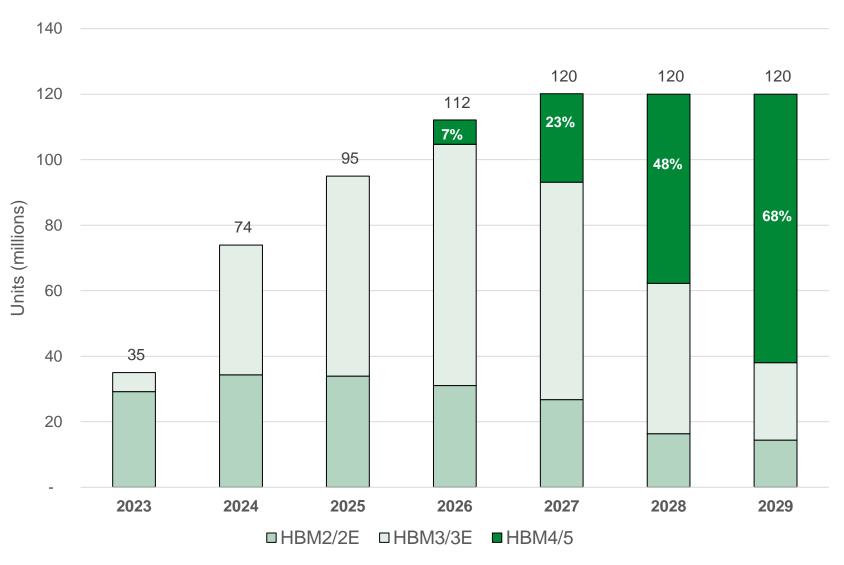




Source: TSMC

HBM4/5 Adoption Expected Starting in 2026. Important Drivers for Both Hybrid Bonding and TCB Next Growth

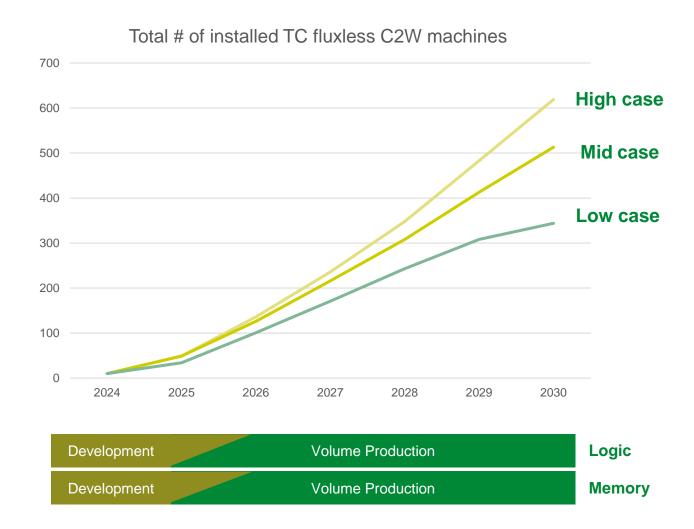




Source: Yole, December 2024

Fluxless TCB C2W Market Potential





Estimated 350 – 600 systems cumulatively by 2030

Fluxless TCB applications bridge gap between conventional TCB and hybrid bonding

Memory:

- Next generation AI devices driving strong HBM demand in near term
- Increased HBM stacking requirements driving TC technology towards fluxless

Logic:

 Requirements for increased accuracy and chiplet architectures driving conversion of mid-end logic applications from mass reflow flip-chip to TC fluxless

Source: Besi estimates, June 2025

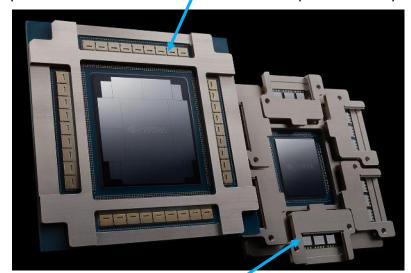
Silicon Photonics Another Driver of 2.5D/3D Assembly Growth



NVIDIA Confirms Hybrid Bonding Adoption In CPO Switches

Introduced family of network switch products using co-packaged optics (CPO) in March 2025

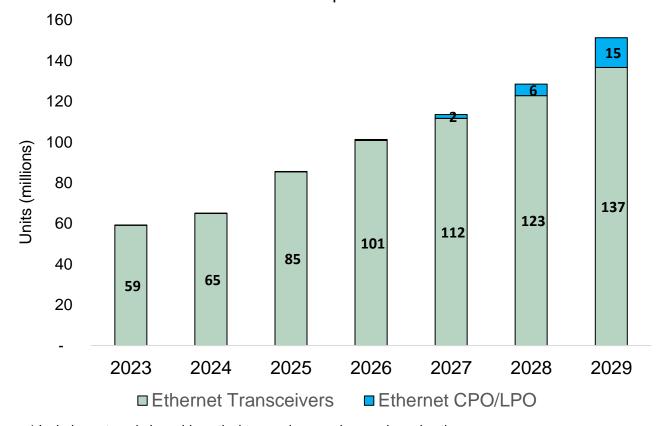
Spectrum-X™ Ethernet switch with 36 3D photonics chiplets



Quantum-X800 InfiniBand switch with 18 3D Photonics chiplets

- TSMC's COUPE technology uses hybrid bonding to assemble the 3D photonic chiplets
- Multiple hybrid bonded chiplets per switch device

Ethernet Transceiver Unit Shipment Forecast* 2023 – 2029



^{*} Includes external pluggable optical transceivers and co-packaged optics.

Source: LightCounting October 2024

Besi's Market Opportunity



Generative Al accelerating

Drives investments in next generation devices and applications requiring advanced packaging

New use cases emerging from cloud to edge computing to co-packaged optics

Promise of Al requires new 2.5D/3D assembly solutions to further Moore's Law

Advanced packaging one of **key differentiators to realize Al promise** including energy efficient data center performance and new consumer edge Al devices

Accelerated advanced packaging innovation expected in 2026-2030 across logic, memory, consumer and I/O

Expanded R&D investment continues

- YTD Q3-25 gross spending up 14.4% vs. YTD Q3-24
- New product introductions in 2025-2026 expected to accelerate growth and increase market share

Favorably positioned in highest growth segments: Datacenters, Photonics, AI PCs, Mobile, EV/autonomous driving



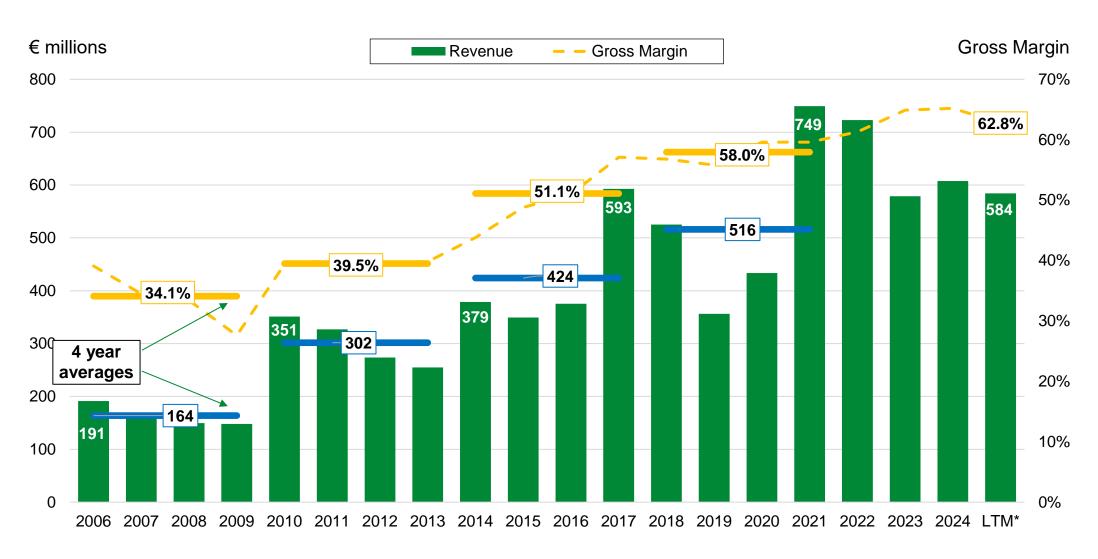


IV. FINANCIAL UPDATE AND SUMMARY

Higher Through Cycle Revenue and Gross Margin Trends



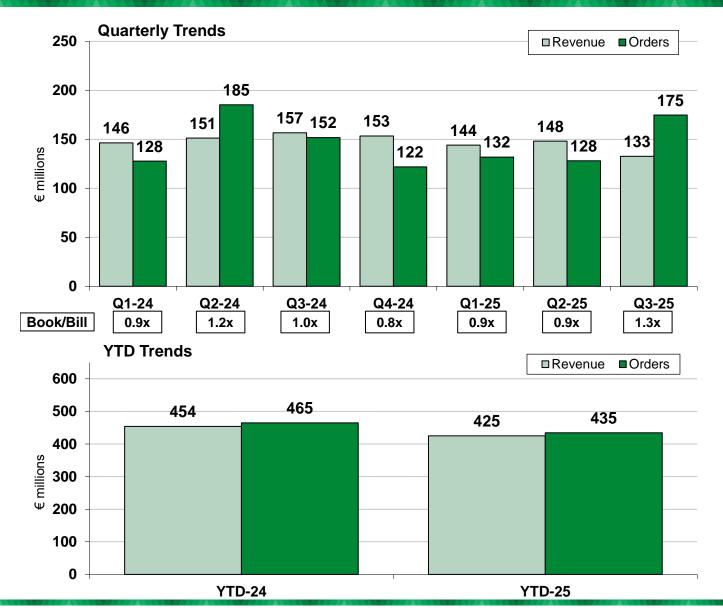
42



* LTM including midpoint of guidance for Q4-25

Revenue/Order Trends





Q3-25 vs. Q2-25

- Revenue: -€ 15.4 million (-10.4%)
 - At midpoint of guidance
 - Lower hybrid bonding and mobile shipments
- Orders: +€ 46.7 million (+36.5%)
 - Significant increase by Asian subcons for 2.5D datacenter and photonics applications

Q3-25 vs. Q3-24

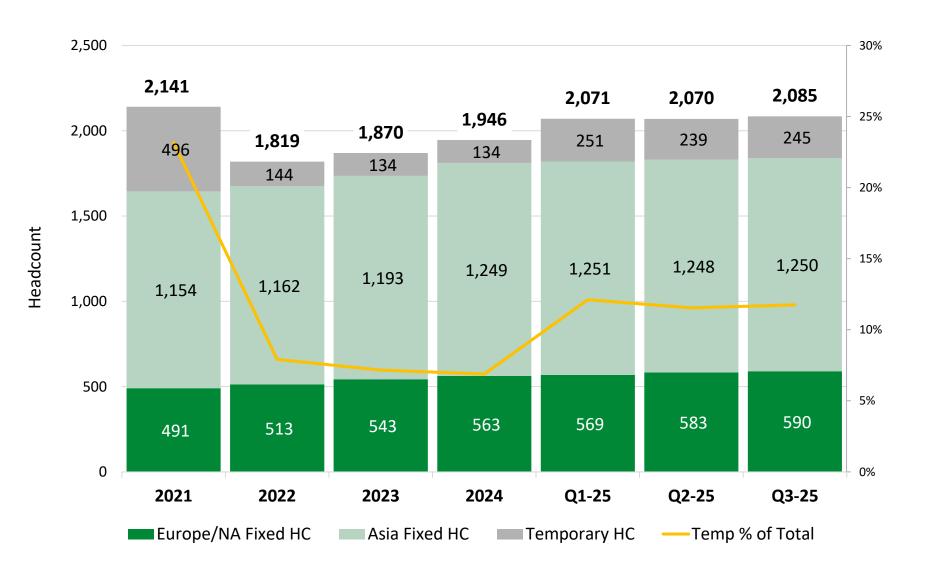
- Revenue: -€ 23.9 million (-15.3%)
 - · Broad based weakness across end user markets
- Orders: +€ 22.9 million (+15.1%)
 - Increased customer investment in 2.5D datacenter and photonics applications

YTD-25 vs. YTD-24

- Revenue: -€ 29.1 million (-6.4%)
 - Ongoing industry downturn
 - Partial offset: Growth by Asian subcons for datacenter applications and increased hybrid bonding shipments
- Orders: -€ 30.2 million (-6.5%)
 - Lower bookings for hybrid bonding and mobile
 - Partial offset: increased orders for AI related computing applications

Headcount Trends



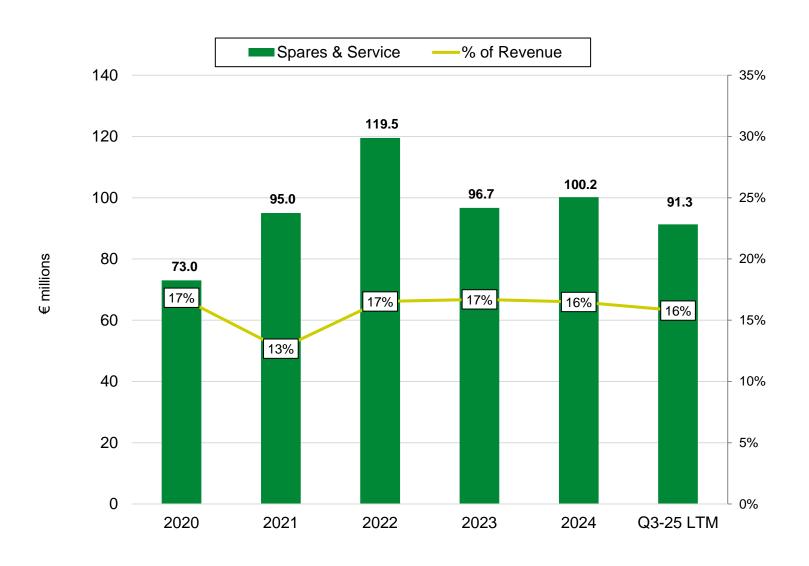


 Increasing European and Asian fixed headcount to support wafer level assembly expansion

Spares/Service Activities Important Area of Growth



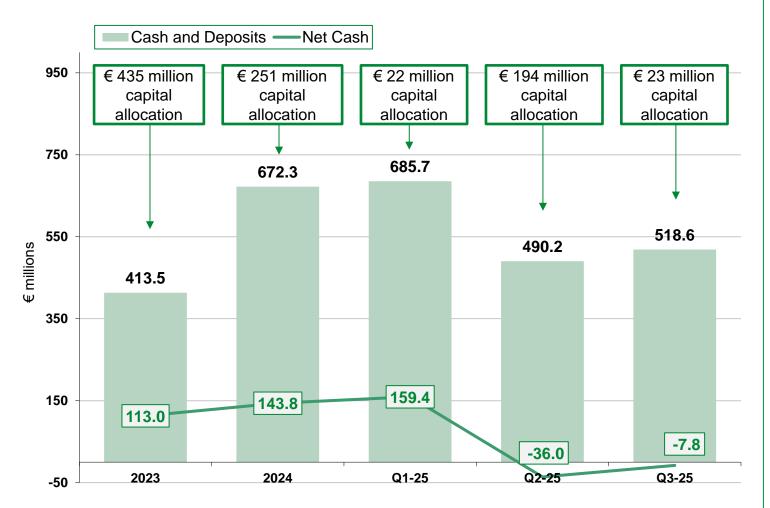
45



- Revenue +30% since 2020
- Represent ~16% of revenue
 - Diverse customer base
 - Less cyclical part of business
 - Highly profitable
- Revenue will increase as installed base grows, particularly wafer level

Strong Liquidity Position Maintained New € 60 Million Share Repurchase Program Initiated





Q3-25 vs. Q2-25

- Cash and deposits of € 518.6 million
 - + € 28.4 million primarily due to:
 - + € 59.8 million cash flow from operations
 - - € 23.1 million capital allocation
 - - € 1.1 million capex
 - - € 6.4 million capitalized R&D
- Net cash of -€ 7.8 million at end of Q3-25 improved by € 28.2 million

Q3-25 vs. Q3-24

 Cash and deposits -18.6% vs. Q3-24 due to lower profits and purchase of Duiven facility

Capital Allocation

- Capital allocation of € 239 million YTD-25 vs. € 229 million YTD-24
- Current € 100 million share repurchase program completed in October 2025
 - New € 60 million program initiated

Debt Outstanding

- € 196.2 million Convertible Notes
- € 350 million 4.5% Senior Notes due 2031

Guidance Q4-25 and FY2025







^{*} Assumes midpoint of guidance for Q4-25

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 for Al applications promising 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