

Università Cattolica del Sacro Cuore - Milano



UNIVERSITÀ
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TECHNOPROBE

TECHNOPROBE

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2026 CFA INSTITUTE RESEARCH CHALLENGE
25th February 2026



TECHNOPROBE

"Innovation Begins with us"



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TECHNOPROBE

Investment Recommendation: **BUY**



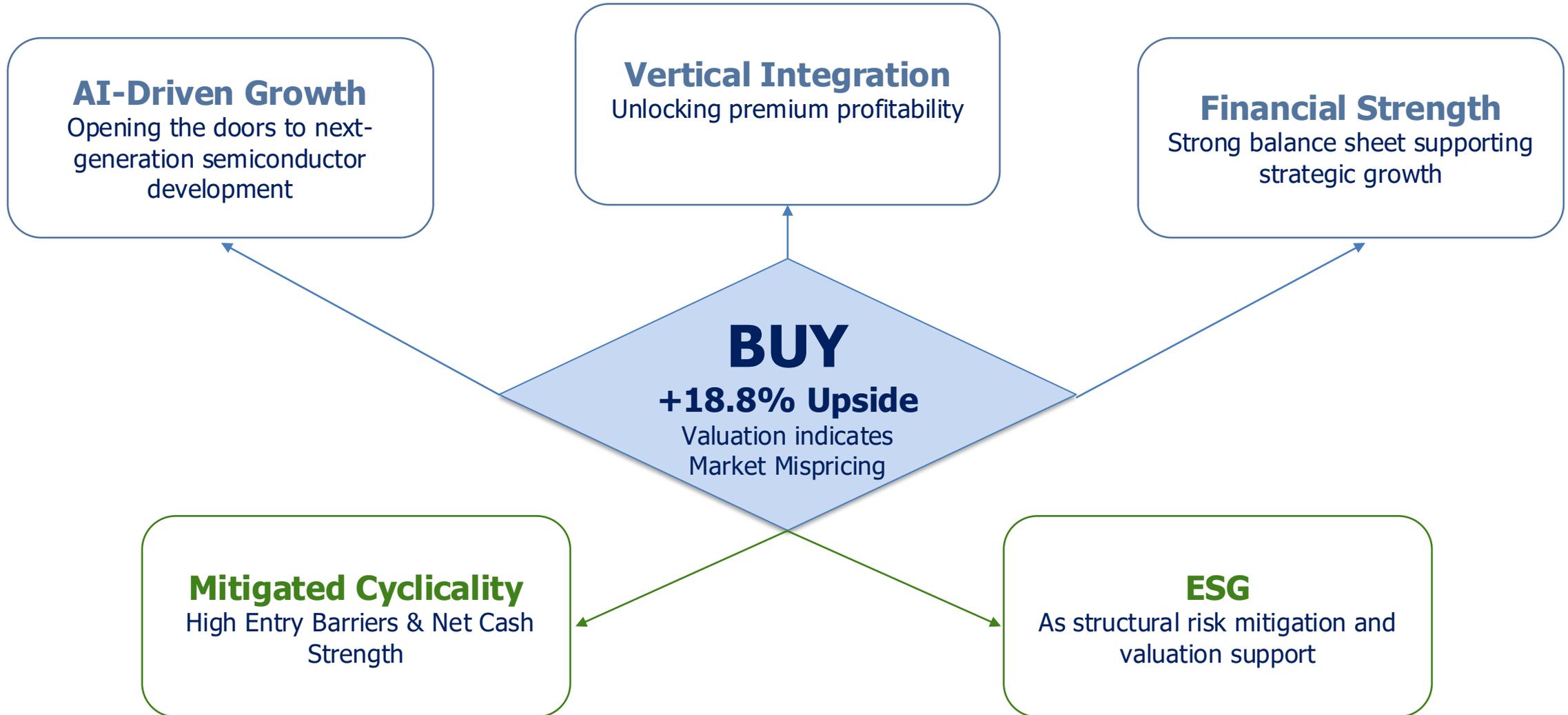


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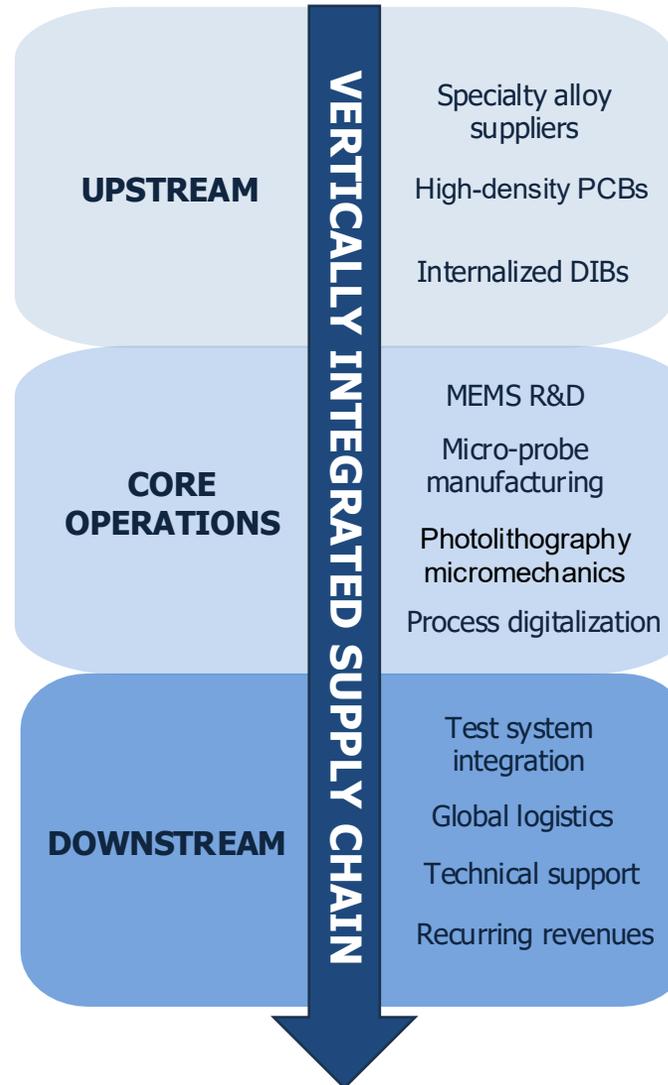
Investment Summary





Business description

2024 revenues by region



2024 revenues by segment

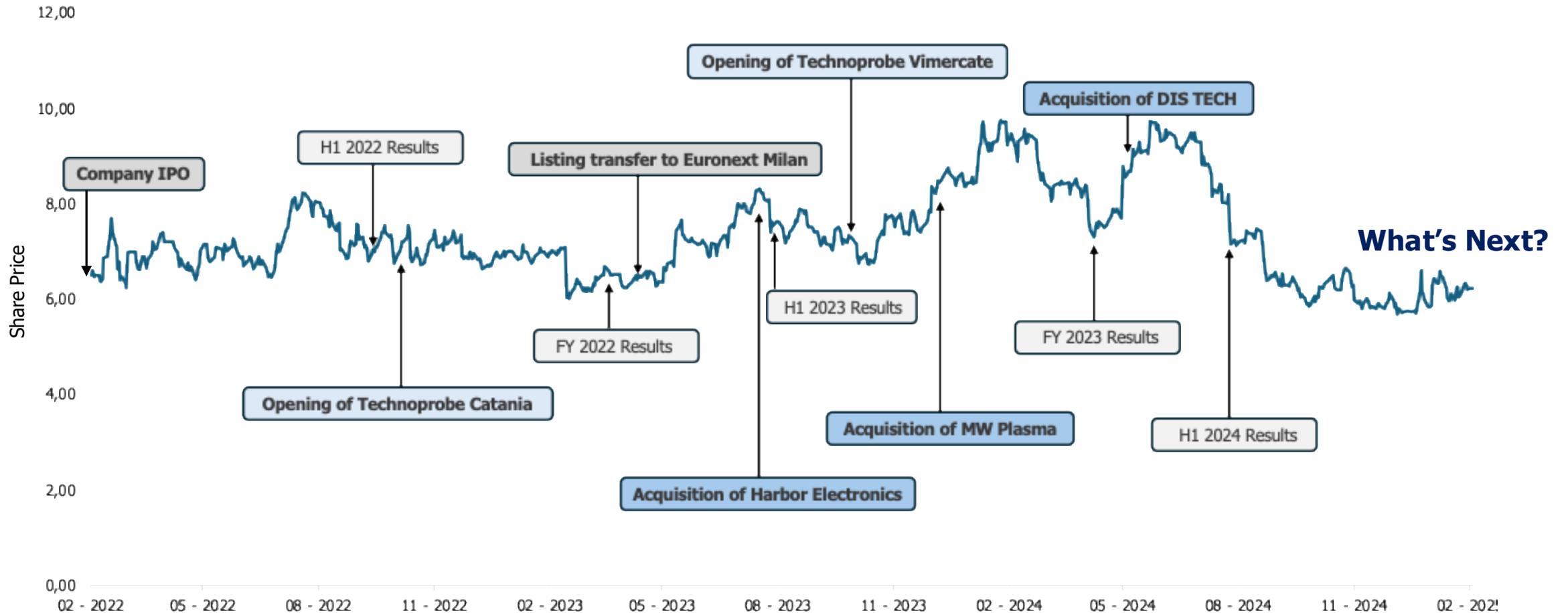


Total Revenue €543mIn





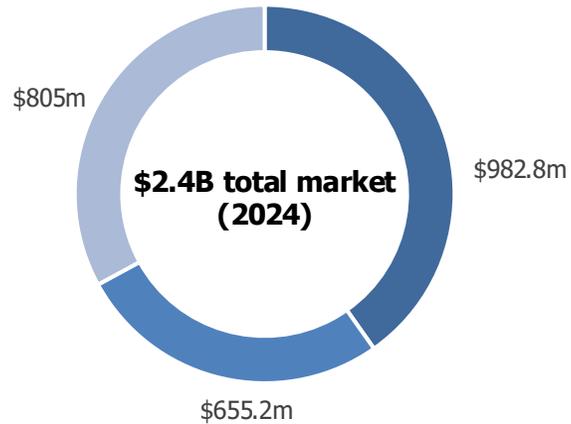
Strategic Milestones & Market Reaction





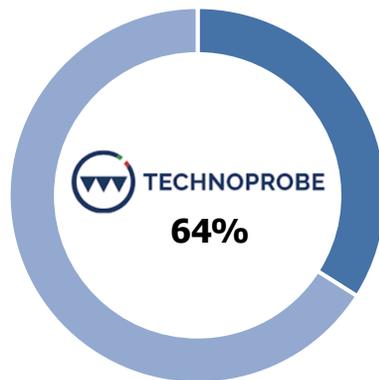
Inside the Probe Card Market

SEMICONDUCTOR PROBE CARDS MARKET (2024)

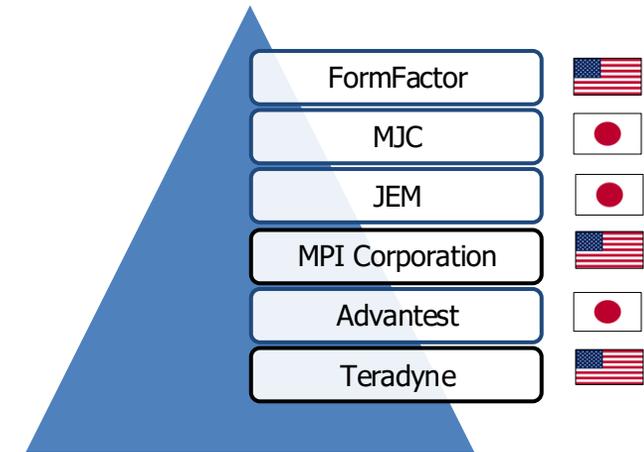


■ Vertical MEMS ■ Non-memory applications ■ Memory applications

NON-MEMORY APPLICATIONS MARKET SHARE (2024)



KEY PLAYERS IN PROBE CARD MARKET

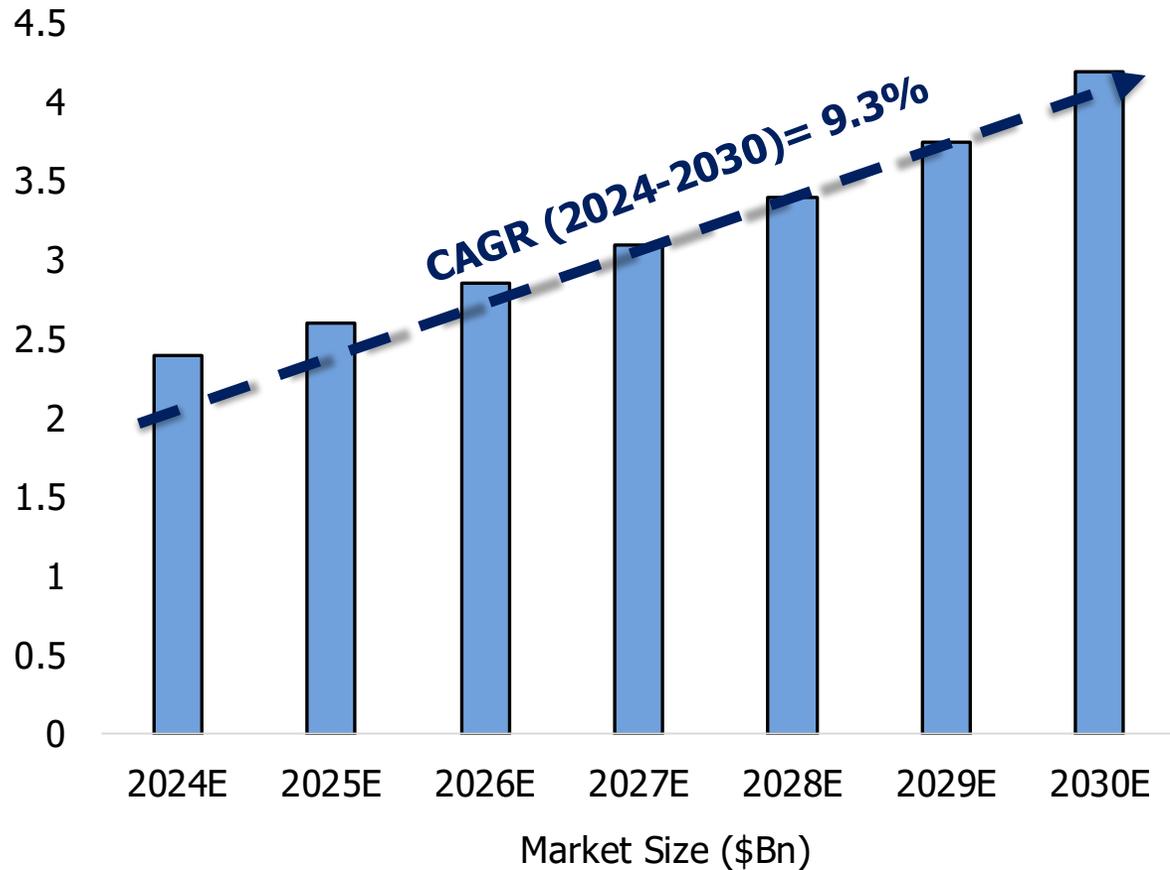


TECHNOPROBE COMPETITIVE POSITIONING & STRENGTHS





Surging Chip Complexity & AI Adoption Drive "Test Intensity"



9.3% CAGR (2024-30)

Driven by Chip Complexity, not Volume

AI Supercycle

Demands "Known Good Die" (Zero Defect)

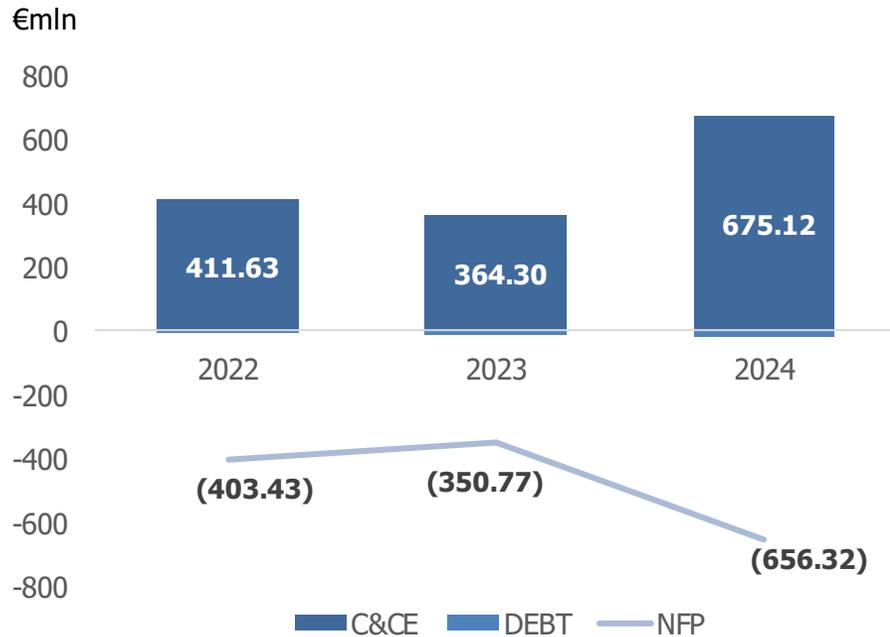
Winning Tech

Vertical MEMS (10.6% Growth) replaces Legacy

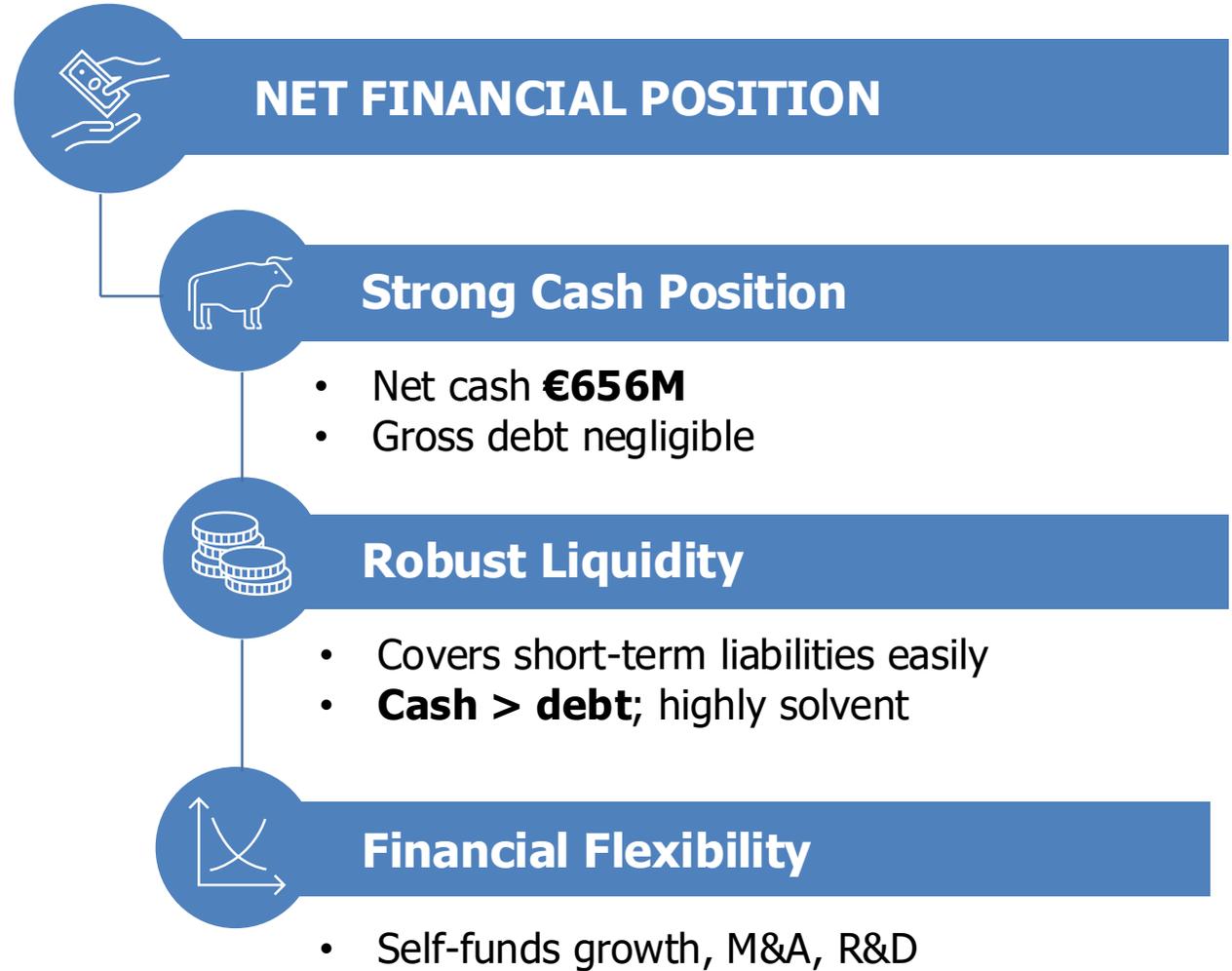




Strong Balance Sheet & Cash Generation



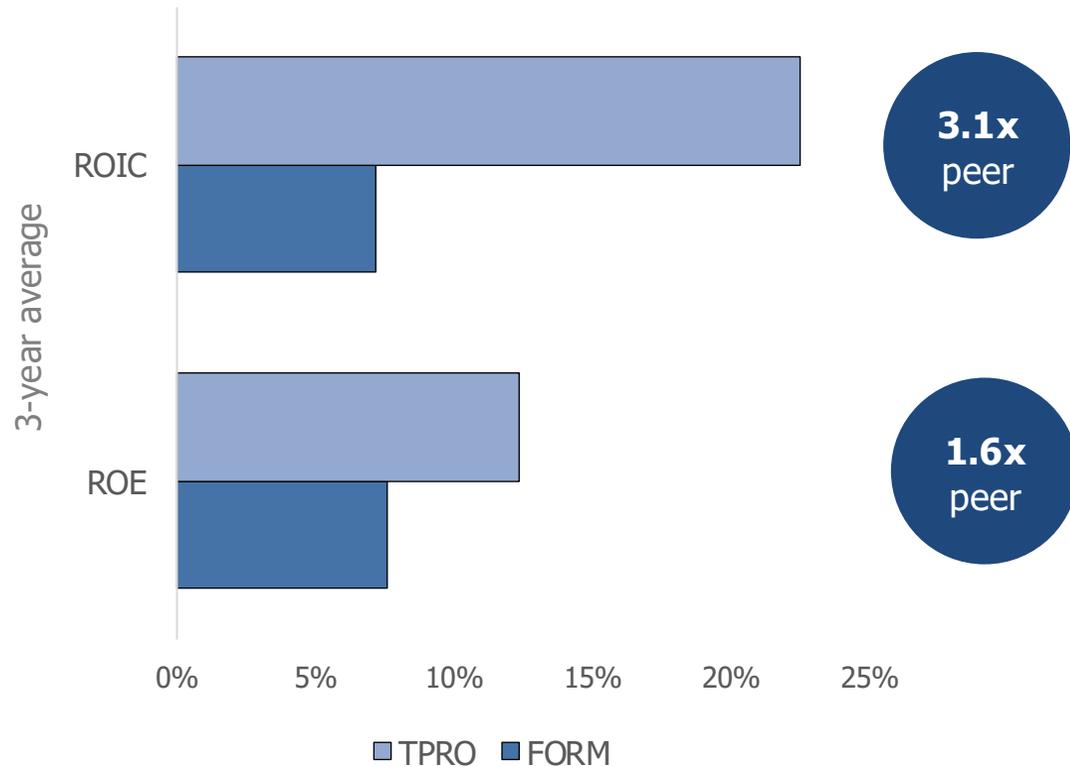
	2022	2023	2024
Current Ratio	5,97	7,92	8,06
Cash Ratio	3,98	4,71	5,48
Net Debt / Equity	(54,74%)	(42,92%)	(53,05%)
Gearing Ratio	(120,95%)	(75,19%)	(112,99%)



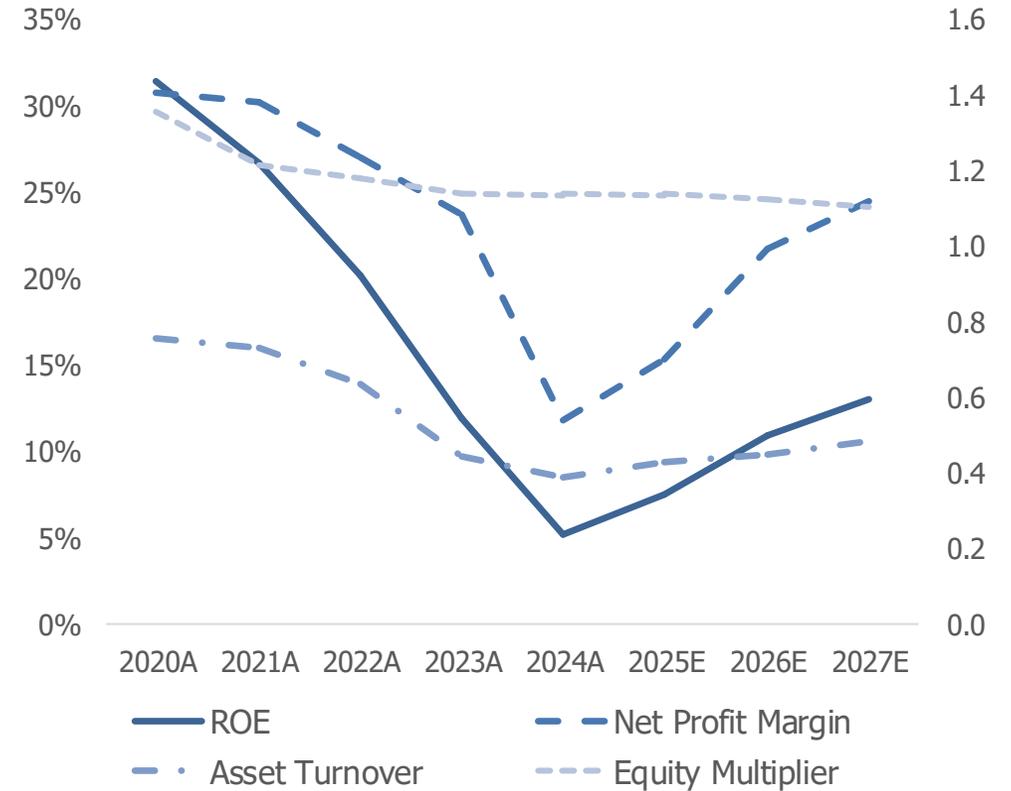


ROE Recovery Driven by Operating Strength

Structural Outperformance vs. Peer FormFactor



DuPont Breakdown of ROE





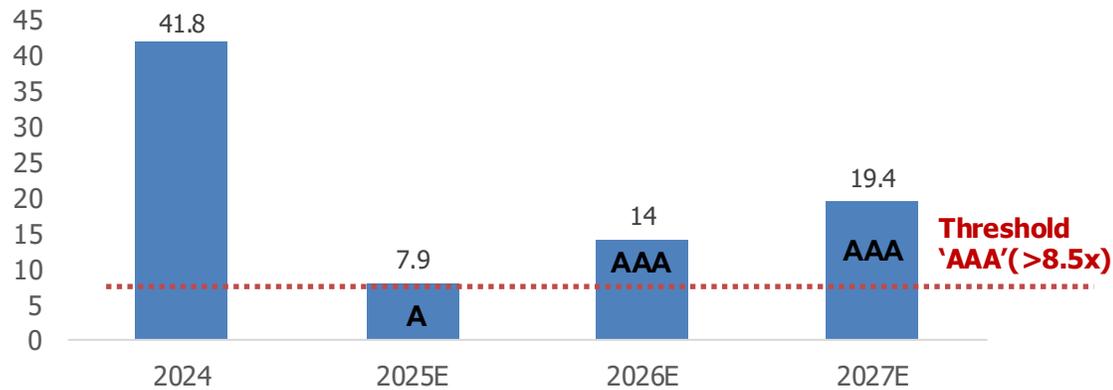
EPS Growth built on 'AAA' Foundations

EPS Rebound: 35% CAGR (2024-27E) to reach €0.34

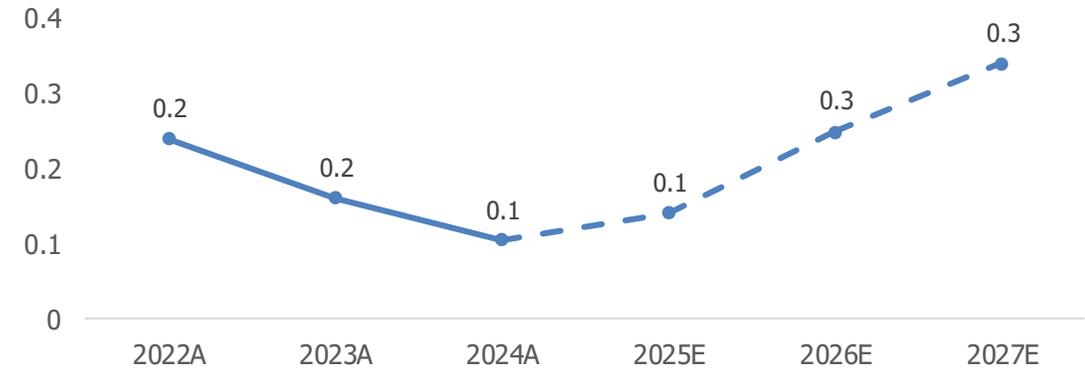
Credit Profile: 'AAA' Rating secured by strong ICR (>14x)

Risk Free: 34.4 Altman Z-Score (vs. 3.0 safe threshold)

Synthetic Credit Rating Outlook



EPS Actual & Forecast

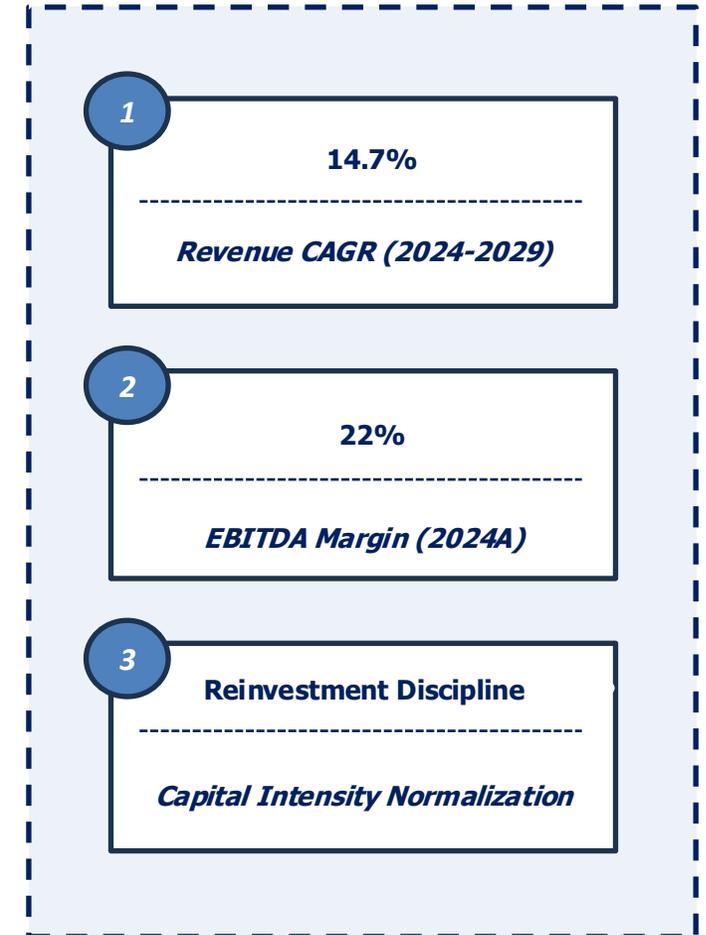
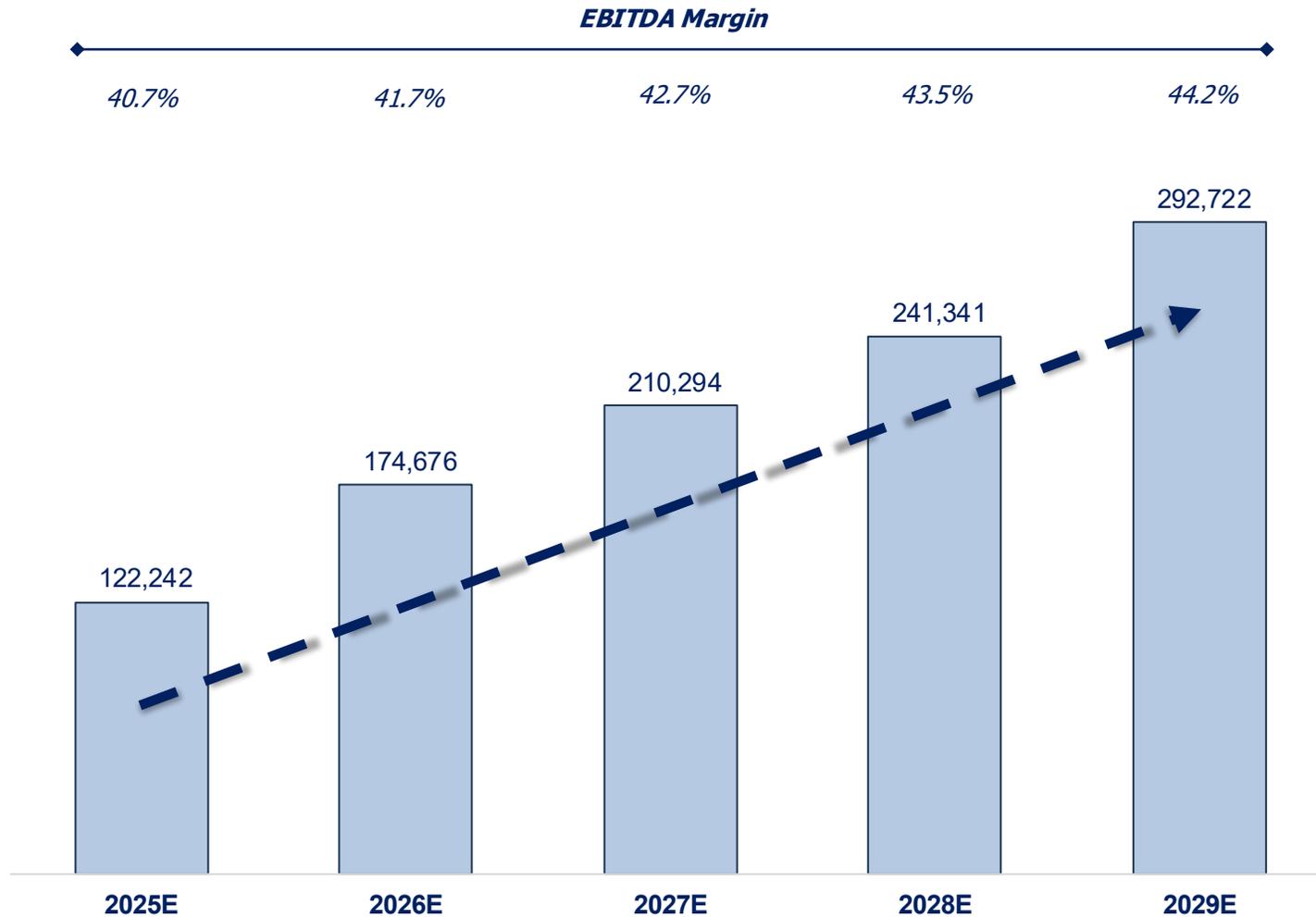


Altman Z-Score Positioning



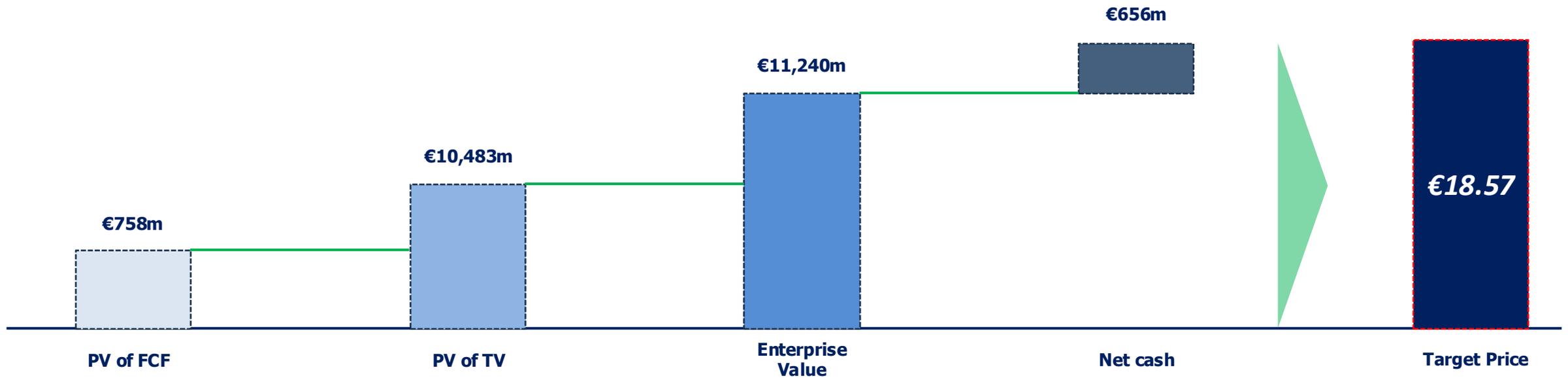


Free Cash Flows Expansions and Operating Drivers



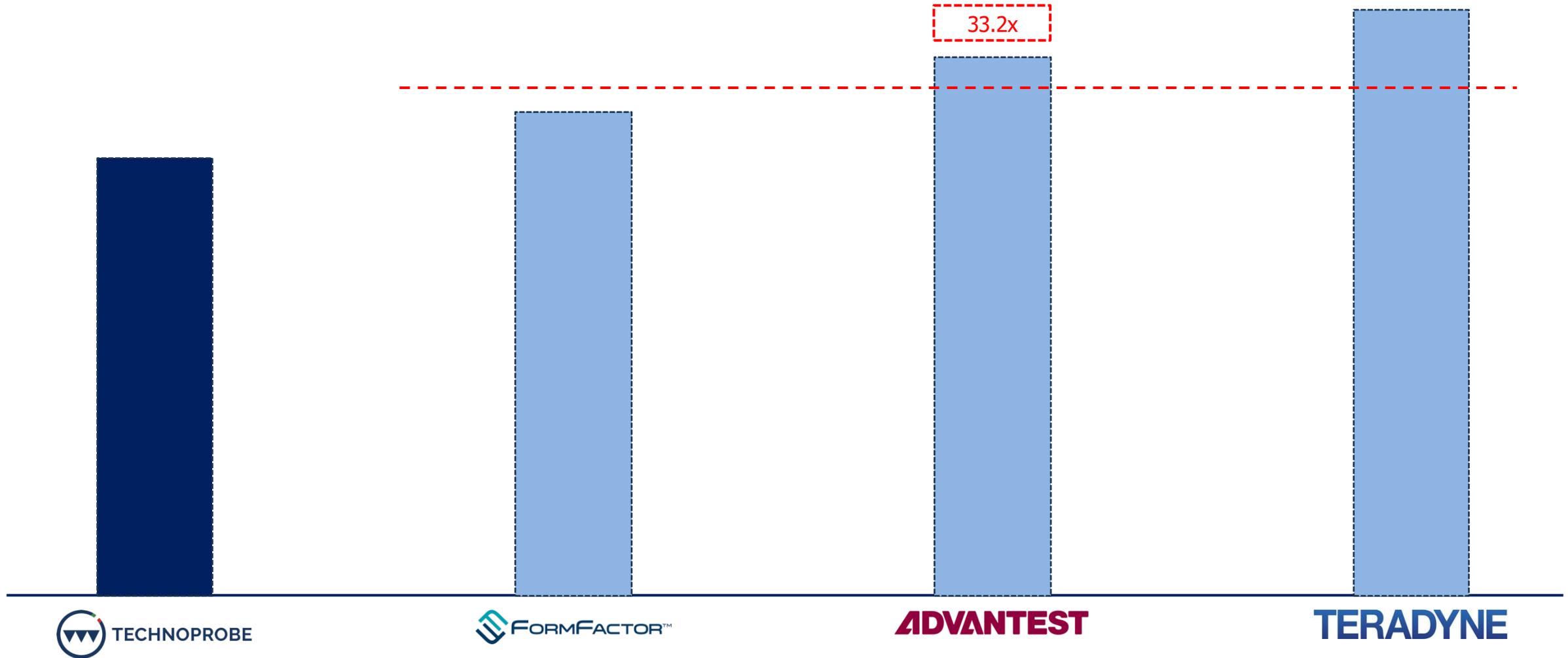


DCF Valuation with Market-Based Terminal Value





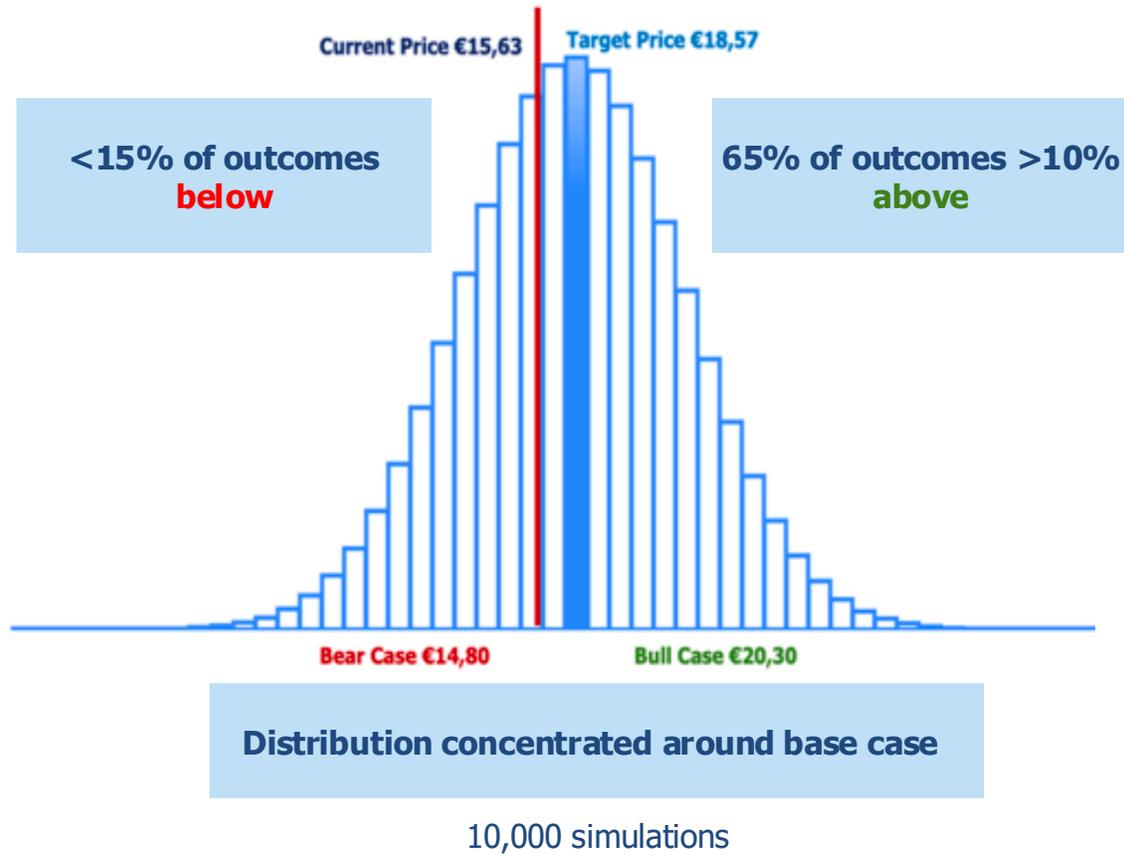
Exit Multiple (EV/EBITDA)





Monte Carlo Simulation: Downside Protection Confirmed

Results



Parameters Stressed

WACC (7.69% - 9.69%)

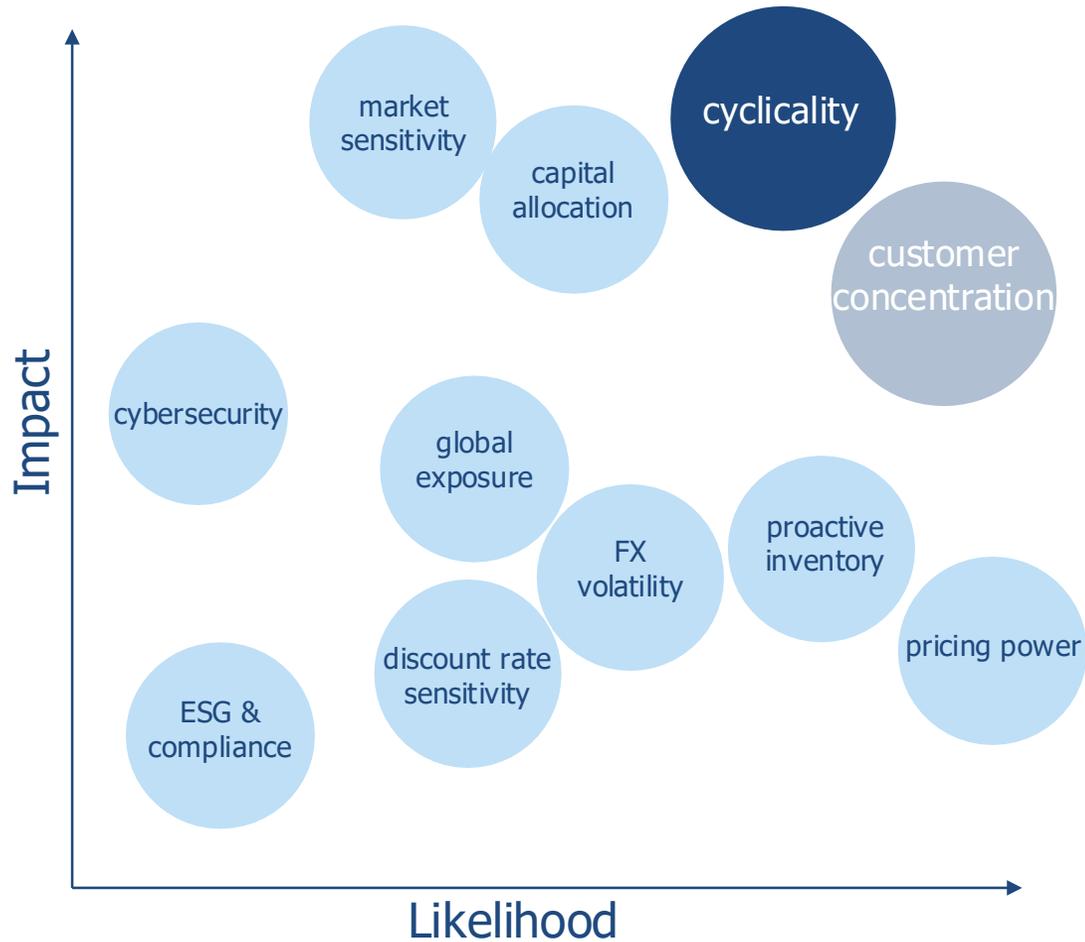
Terminal Growth Rate (2.5% - 3.5%)

EBITDA Margin (38% - 44%)

Exit Multiple (28x - 36x)



Investment Risks



Semiconductor Cycle & End-Market Demand

Mitigating Factors



integration customer development cycles
long qualification processes = high switching costs
invest through downturns from net cash (€640M+)

Valuation Impact



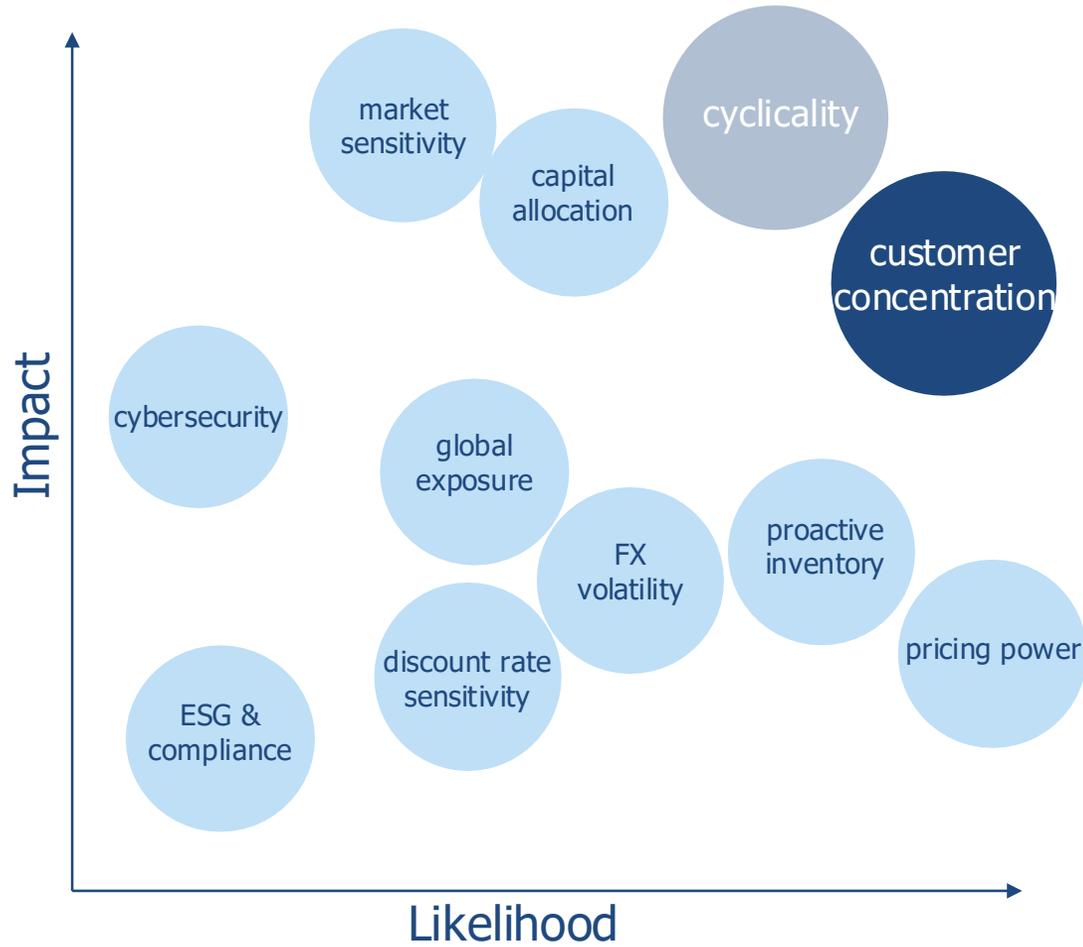
12-month delay in 2nm/3nm node transition
→ EBIT margins remain below **20%** through 2026E

IMPACT: **-11.6%** to fair value (€2.15 per share)

Source: Team Analysis



Investment Risks



Customer Concentration & Program Risk

Mitigating Factors



- qualification barriers & high switching costs
- the trend in top-customer revenue shares
- customer roadmap changes that affect volumes or product mix

Valuation Impact



Tier-1 customer delays major HPC program ramp
→ Inventory buildup, Cash Conversion Cycle (173)

IMPACT: **-4.6%** to fair value (€0.85 per share)



Scenario Analysis: Testing Our Assumptions



Semiconductor market stagnation
WACC increase
Tier-1 customer delays

€18.57
(+18.8%)

Explosive AI intensity
Accretive M&A transaction
Margins >42%



ESG Profile

Environmental

Strengths:

- Strong ESRS-aligned disclosure
- Low water stress exposure
- Controlled hazardous material

Limitations:

- No clear decarbonized roadmap
- Limited renewable energy adoption

 Moderate Transition Risk

Social

Strengths:

- Strong workforce stability
- Low Injury rate

 Operational Stability

Governance

Strengths:

- 56% independent board
- Strong compliance structure

Limitations:

- No explicit ESG-linked executive compensation

 Risk-mitigating governance



ESG as Risk Mitigation

	KPIs	Score	Weight	TECHNOPROBE VS PEERS
ENVIRONMENTAL	GHG Intensity (\$tCO ₂ e/€m\$) Renewable Energy Share CDP Rating (Climate)	5.6 (Grade B)	34%	Outperform Underperform In-Line
SOCIAL	Injury Rate Women in Management	6.0 (Grade BB)	38%	Outperform Underperform
GOVERNANCE	Board Independence Board Gender Diversity	5.5 (Grade B)	28%	In-Line Underperform



ESG Impact on Valuation Framework

Is ESG just a commitment statement?

What ESG does NOT do

- ✗ No direct adjustment to WACC
- ✗ No impact on terminal growth
- ✗ No structural capex burden
- ✗ No regulatory overhang

What ESG DOES do

- ✓ Reduces perceived Operational Risk
- ✓ Supports institutional investor base
- ✓ Limits reputational downside
- ✓ Improves earnings visibility

ESG acts as a risk stabilizer rather than a return enhancer

ESG enhances cash flow predictability rather than return generation.

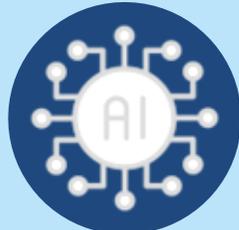


TECHNOPROBE: Probing for Alpha



TECHNOLOGY MOAT

- 60% share in Vertical **MEMS**
- **Vertical** integration
- Proprietary **TPEG™** technology



AI GROWTH ENGINE

- Direct beneficiary of AI **revolution**
- **Test** intensity growing
- **HBM**, advanced packaging exposure



FINANCIAL FORTRESS

- €640M+ net **cash**
- **Self-funding** growth
- Firepower for **M&A**



Recommendation

BUY

Target Price

€18.57

Upside

18.8%

Technoprobe - where Structural quality meets temporary Mispricing



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 - [4.2 Manufacturing and Product Insights](#)
 - [4.3 Manufacturing and Product Insights](#)
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Organization & Location

BUSINESS DESCRIPTION

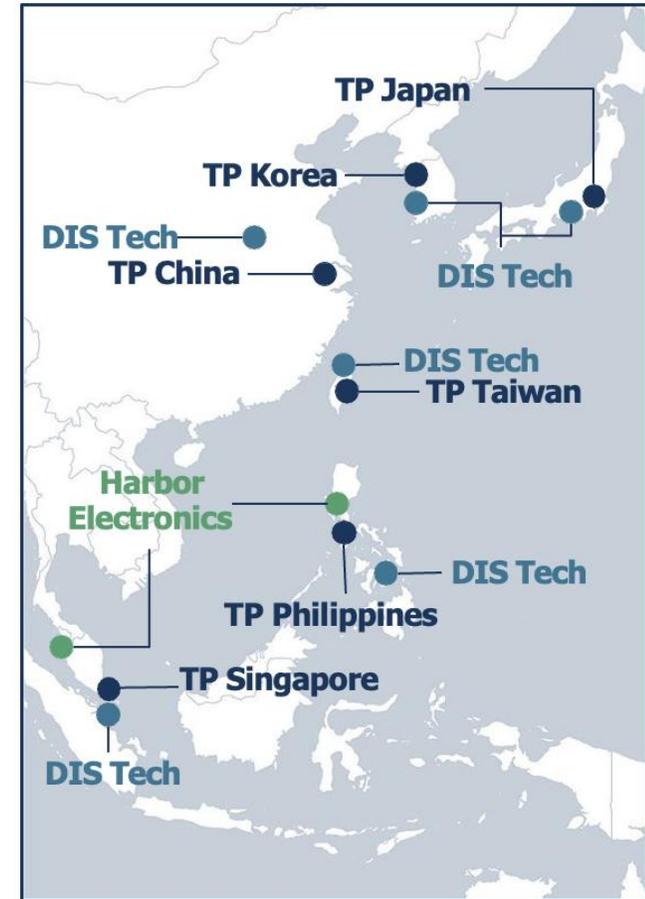
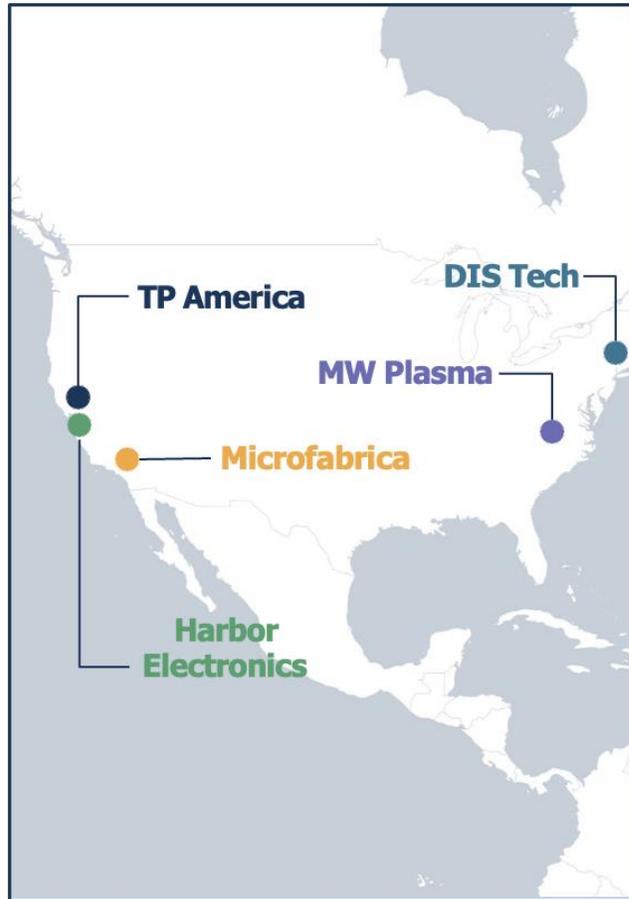
INDUSTRY OVERVIEW

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● Technoprobe

● Harbor Electronics

● MW Plasma

● Microfabrica

● DIS Tech



Strategic Evolution & Global Reach

BUSINESS DESCRIPTION

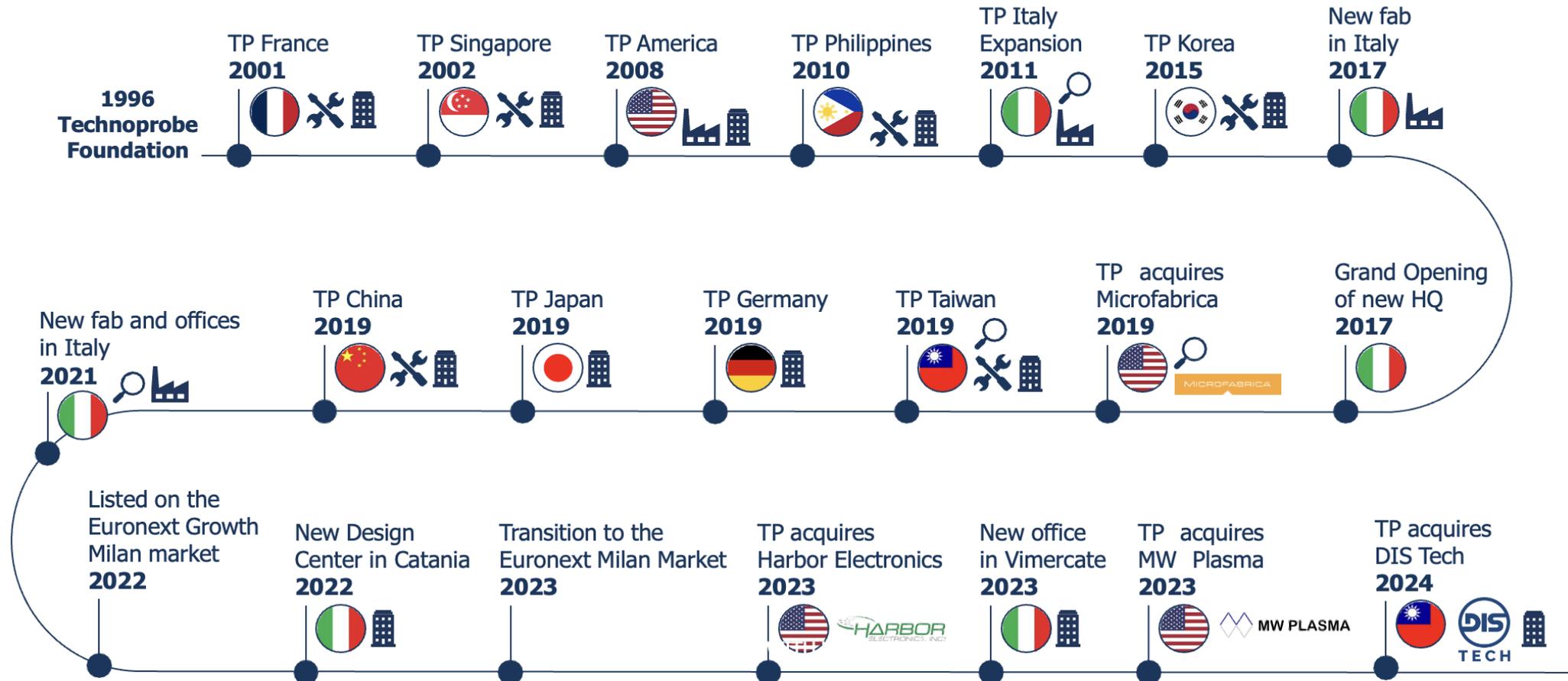
INDUSTRY OVERVIEW

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Shareholding Structure

BUSINESS DESCRIPTION

INDUSTRY OVERVIEW

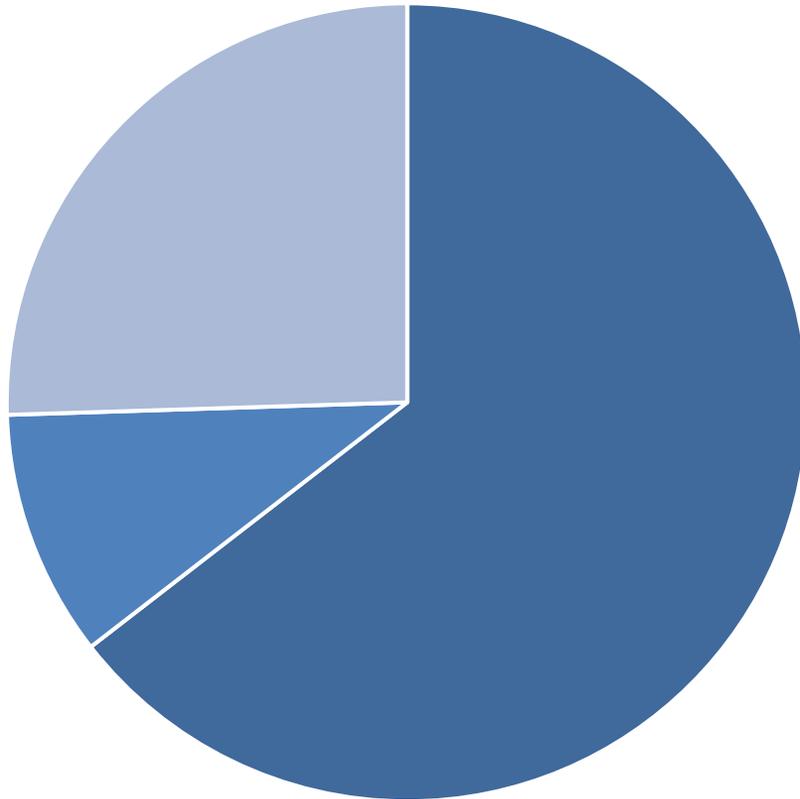
FINANCIAL ANALYSIS

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■ Crippa Family ■ Strategic Partner ■ Free Float



Family Control

- **Crippa family (via T-PLUS + direct holdings): 64.5%**
- Stable governance supported by dual-class voting
- Enables long-term R&D and innovation focus

Strategic Industrial Partnership

- **Teradyne: 10% stake**
- Positions Technoprobe as a systemic partner
- Access to technology roadmaps and higher entry barriers

Market & Free Float

- **Free float: 25.5%**
- Mainly long-only institutional tech investors
- Supports premium valuation multiples vs peers



Manufacturing and Product Insights

BUSINESS DESCRIPTION

INDUSTRY OVERVIEW

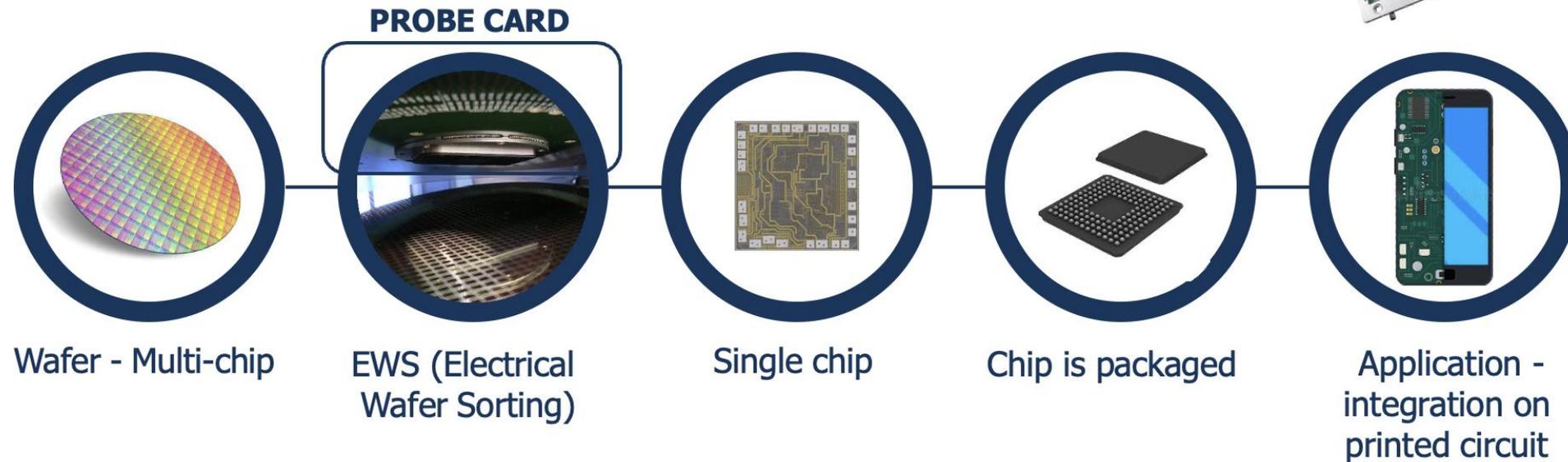
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A **probe card** is an **electromechanical interface** that allows a chip to be tested when it is still on the wafer.





Manufacturing and Product Insights

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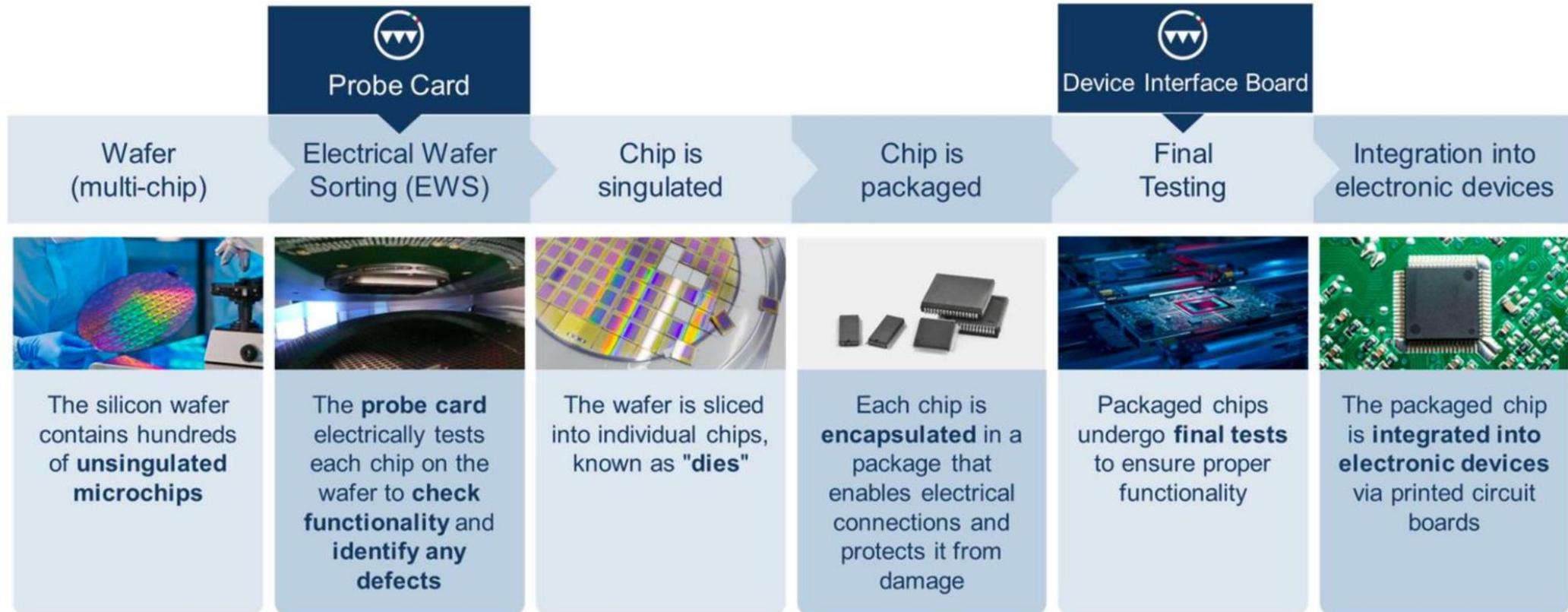
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Manufacturing and Product Insights

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Design

Manufacturing

Assembly

Wafer Testing Level

Mechanics



PCB



Manufacturing partners
& other suppliers



Interconnection



Probe head

Ceramic plates
Contact probes



Final Testing Level

Device Interface
Boards



Manufacturing partners
& other suppliers





A Broad Portfolio of Innovative Technologies

BUSINESS DESCRIPTION

INDUSTRY OVERVIEW

FINANCIAL ANALYSIS

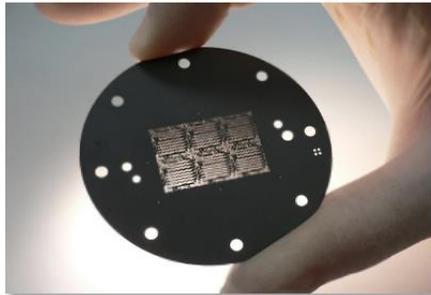
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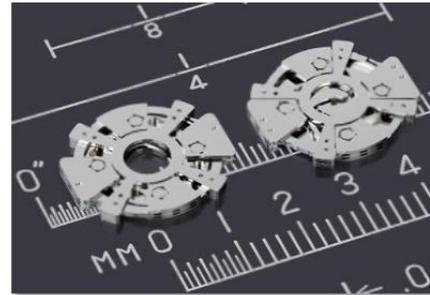
Advanced Micromachining

Advanced laser cutting: High accuracy and fast lead time



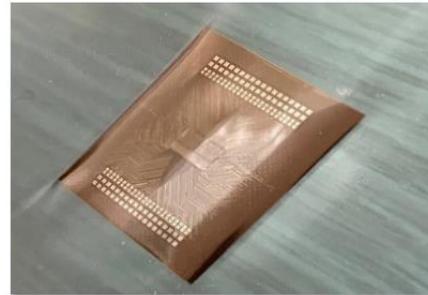
3D MEMS

Acquisition of MICROFABRICA in 2019; the sole company in the world specialized in 3D metallic MEMS manufacturing



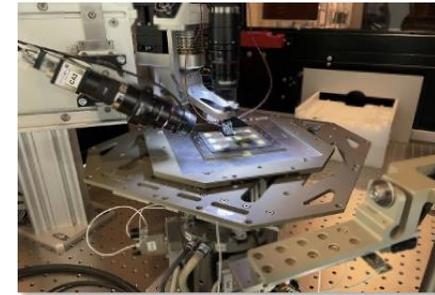
Thin film

Strong investment in advanced thin film technology to reduce lead time and improve quality and complexity



Advanced manufacturing

Advanced manufacturing for high volume and best quality assembly of micro components





Revenue Distribution Overview

BUSINESS DESCRIPTION

INDUSTRY OVERVIEW

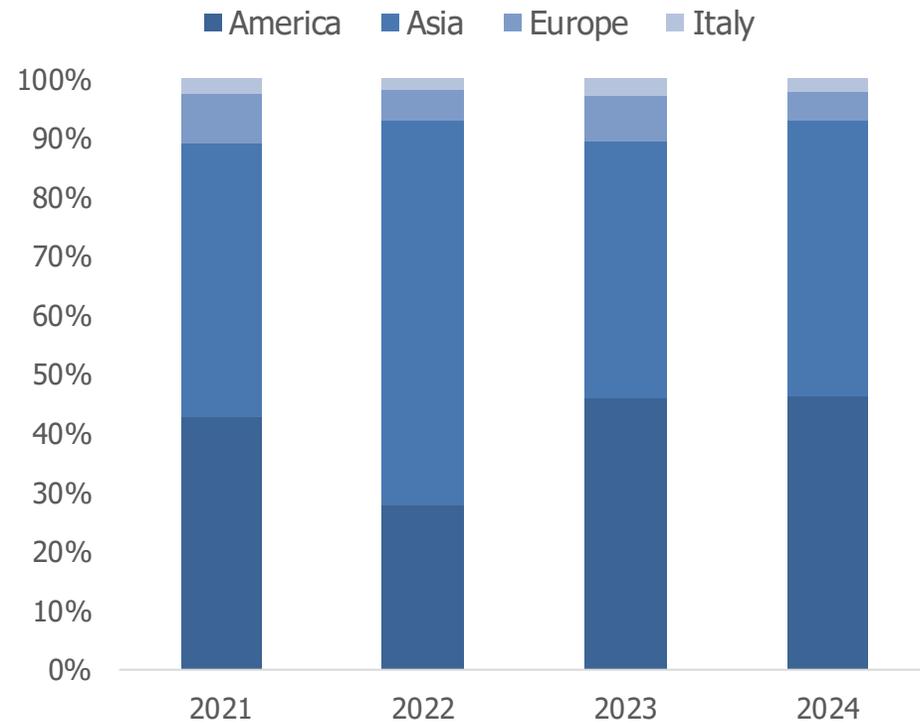
FINANCIAL ANALYSIS

VALUATION

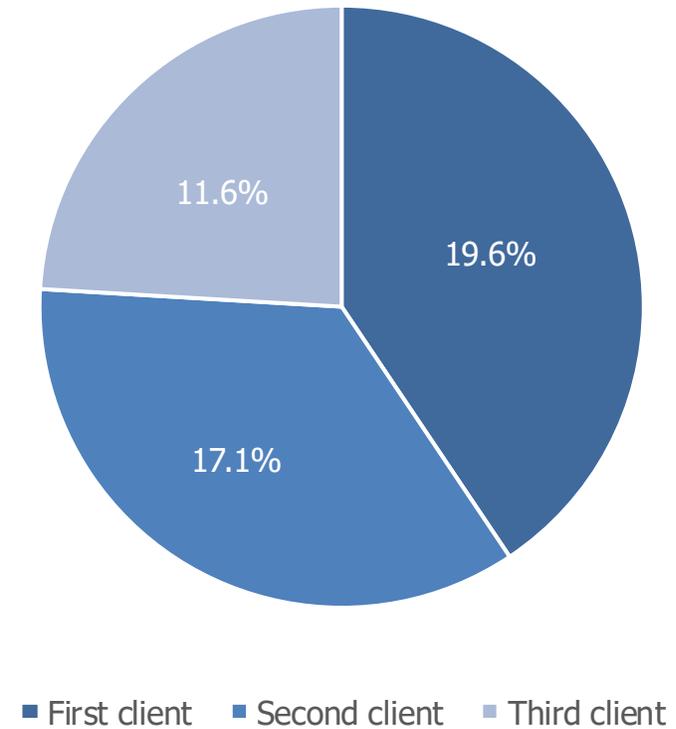
RISK

ESG

Revenue Distribution by Geographic Region



Revenue Breakdown by Key Customers (2024)





Cost Impact on Revenue

BUSINESS DESCRIPTION

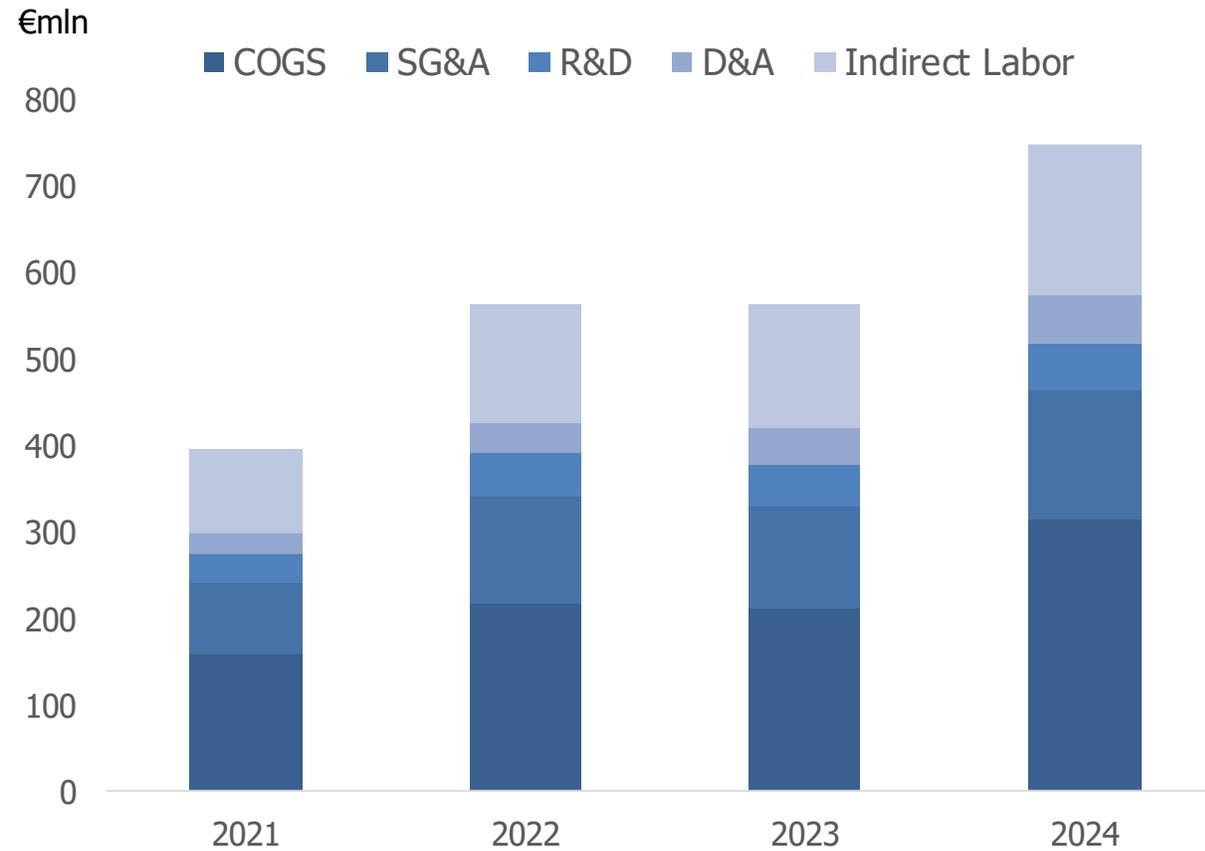
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M&A Past Recordings

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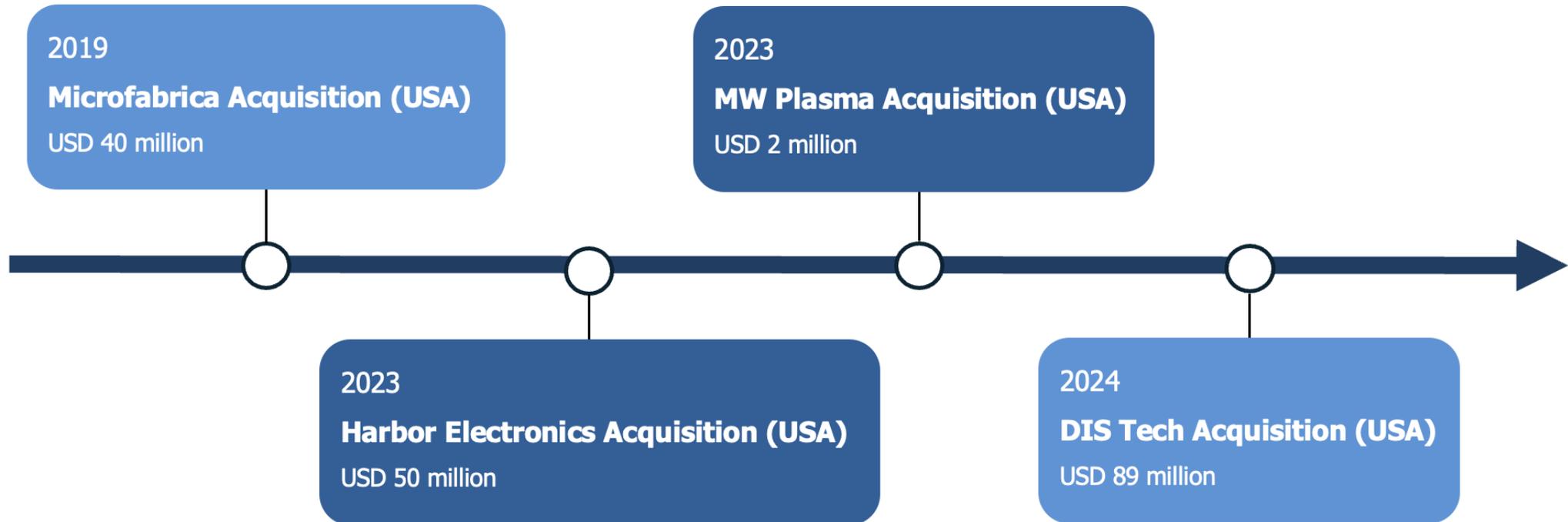
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Value Chain

BUSINESS DESCRIPTION

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UPSTREAM

- Procurement and management of raw materials, components, finished products and services
- Key inputs: PCBs, metal alloys, silicon, chemical solutions, gases, pastes, resins, solder wires
- Outsourced subcontracting: material prep, chemical/surface treatments, assembly, repairs
- Inbound logistics with third-party couriers
- Global supplier base

OWN OPERATIONS

- R&D for new products and production processes
- Product design based on customer specs
- Manufacturing: PCBs, probe heads, probes
- Logistics and warehouse management
- Commercial and after-sales services
- Corporate functions: HR, finance, marketing, sustainability, legal, etc.
- Locations: Italy, France, USA, Taiwan, Korea, Philippines, Singapore
- Commercial presence also in Germany, China, Japan

DOWNSTREAM

- Outbound logistics mainly managed by customers with third-party couriers
- Wafer-level testing by chip manufacturers
- End-of-life probe card management handled by customers
- Customers distributed globally

BCG Matrix



BUSINESS DESCRIPTION

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Relative Market Share

Relative Market Growth Rate



Advanced Semiconductor Probe Cards

- High R&D investment and innovation
- Strong strategic partnerships
- Driver of growth and market leadership



Highly Customized Testing Solutions

- Growth potential if investments pay off
- Needs strategic resource decisions
- Rising demand for tailored solutions



Legacy Semiconductor Probe Cards

- Stable market with steady cash flow
- High efficiency and economies of scale
- Funds growth initiatives



After-Sales & Support Services

- Low growth, small market share
- Key for customer retention
- Not a focus for investment



Key Strategic Initiatives Overview

BUSINESS DESCRIPTION

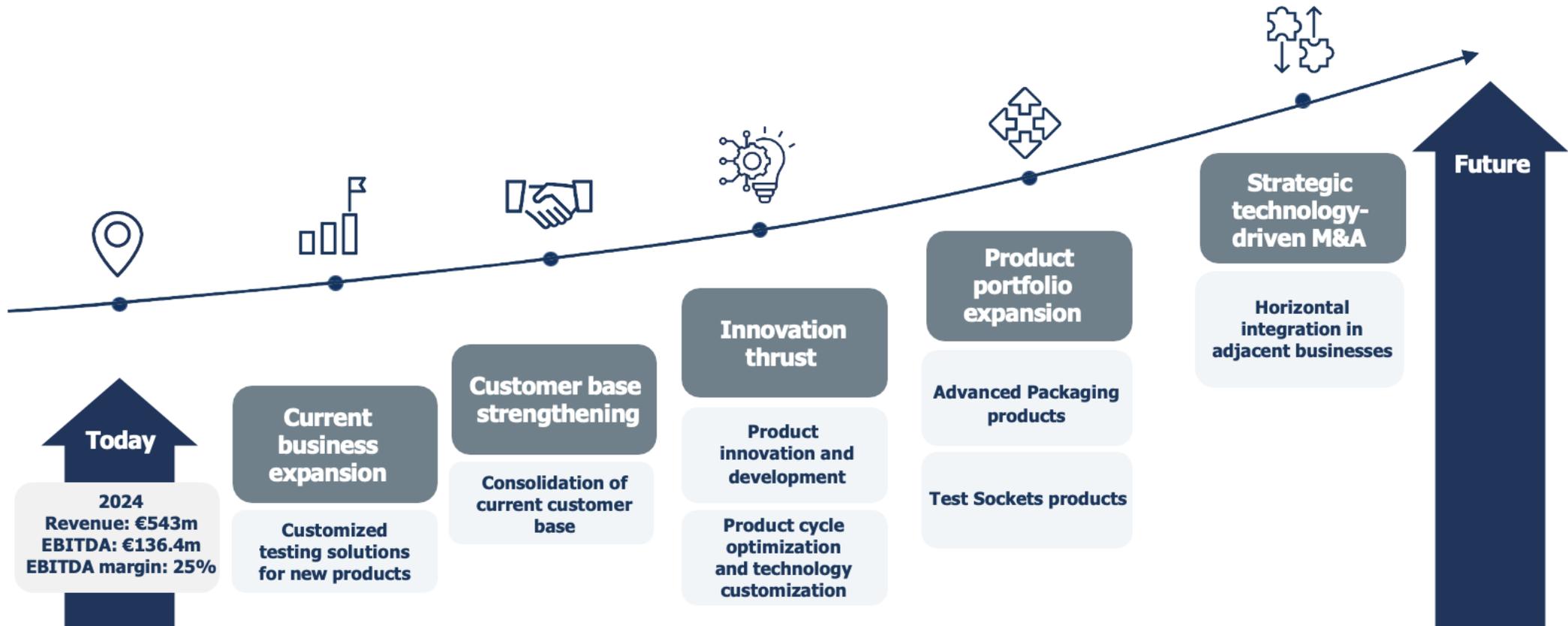
INDUSTRY OVERVIEW

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PORTER'S Forces

BUSINESS DESCRIPTION

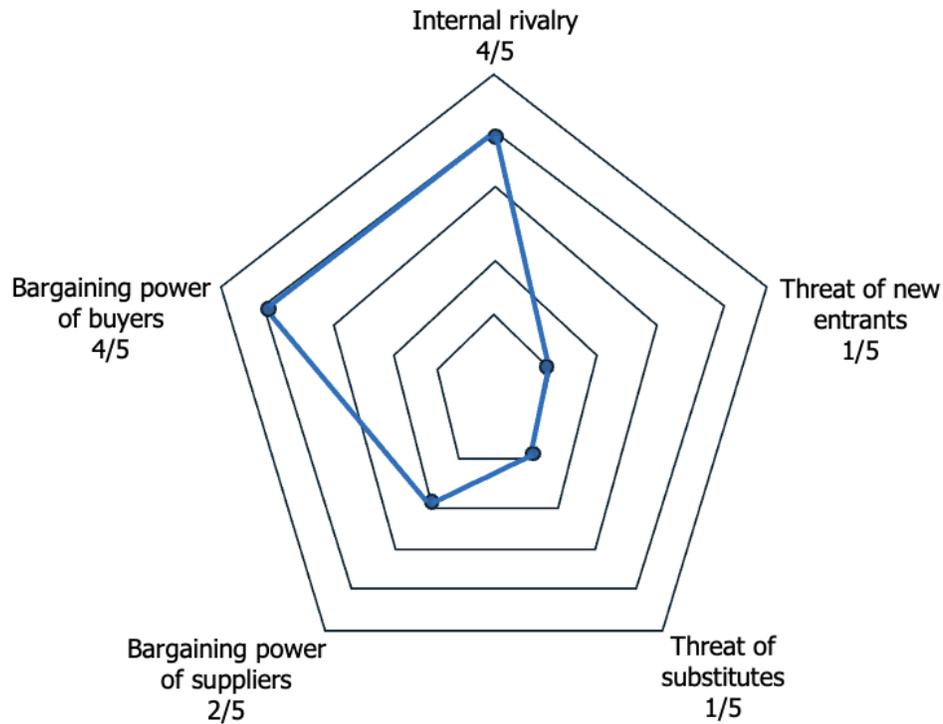
INDUSTRY OVERVIEW

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Competitive Force	Score (1-5)	Threat Level	Technical Rationale & Strategic Drivers
Rivalry Among Existing Competitors	4	High	Concentrated duopoly (FormFactor) Intense R&D race driven by the transition to Advanced Packaging and AI-specific High-Performance Computing (HPC) chips
Bargaining Power of Buyers	4	High	High revenue concentration among Tier-1 Foundries and IDMs (e.g., TSMC, Intel, Nvidia) Buyers exercise significant pricing pressure and demand rigorous lead times
Bargaining Power of Suppliers	2	Low	Strategic Vertical Integration: Internalization of critical components (MEMS needles, PCBs, and DIBs via DIS Tech acquisition) mitigates supply chain volatility and protects margins
Threat of New Entrants	1	Minimal	Formidable barriers to entry due to a massive IP Portfolio (600+ patents) and extreme capital intensity required for high-precision micro-mechanical manufacturing
Threat of Substitute Products	1	Minimal	Physical wafer-level testing remains a non-discretionary step in the semiconductor value chain No viable alternative to probe card technology exists for high-end logic chips

Pestel Analysis



BUSINESS DESCRIPTION

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<p>P <i>OLITICAL</i></p>	<p>Geopolitical Risk Mitigation & Subsidy Access</p> <ul style="list-style-type: none"> • Major beneficiary of EU and US Chips Acts • Strategic alignment with Western onshoring initiatives provides long-term CAPEX visibility • Export restrictions on China remain a monitorable risk
<p>E <i>CONOMICAL</i></p>	<p>Monetary Policy Impact & Foreign Exchange Risk</p> <ul style="list-style-type: none"> • Strong correlation with global semiconductor cycle volatility • Structural FX risk due to EUR-based production costs vs. USD-denominated revenues • Exposure primarily to EUR/USD currency fluctuations
<p>S <i>OCIAL</i></p>	<p>Proliferation of AI & Digital Transformation</p> <ul style="list-style-type: none"> • Widespread adoption of Generative AI and High-Performance Computing (HPC) • Structural increase in wafer test volumes driving probe card demand
<p>T <i>ECHNOLOGICAL</i></p>	<p>Advanced Packaging & Node Miniaturization</p> <ul style="list-style-type: none"> • Leadership in MEMS technology critical for 2nm and 3nm process nodes • Collaboration with ATE leaders Teradyne and Advantest accelerates R&D cycles • Reinforces Technoprobe’s technological moat
<p>E <i>NVIRONMENTAL</i></p>	<p>ESG Compliance & CSRD Regulatory Requirements</p> <ul style="list-style-type: none"> • Growing institutional demand for decarbonized supply chains • Focus on Scope 1-3 emissions reduction essential for ESG fund inclusion
<p>L <i>EGAL</i></p>	<p>Intellectual Property Protection</p> <ul style="list-style-type: none"> • High sector-specific litigation risk • Portfolio of 600+ patents serves as key barrier against low-cost Asian competitors

SWOT Analysis



BUSINESS DESCRIPTION

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STRENGTHS

- Market leadership in non-memory probe cards
- End-to-end vertical integration drives margins & speed
- Robust financial position with strong liquidity
- Strategic partnerships with Teradyne, TSMC & Intel

OPPORTUNITIES

- AI & HPC drive probe card demand
- Taiwan expansion strengthens APAC presence
- DIS Tech broadens tech portfolio
- Diversifies product offering

WEAKNESSES

- Customer concentration risk
- Acquisition-related margin pressure
- Foreign exchange exposure (USD/EUR fluctuations)
- Potential short-term revenue/EBITDA volatility

THREATS

- Semiconductor cyclicality may offset AI growth
- Geopolitical & trade risks in APAC
- Rising competition from Korean & Chinese players
- Potential pricing pressure medium–long term



Revenue Evolution 1996-2024 (€mln)

BUSINESS DESCRIPTION

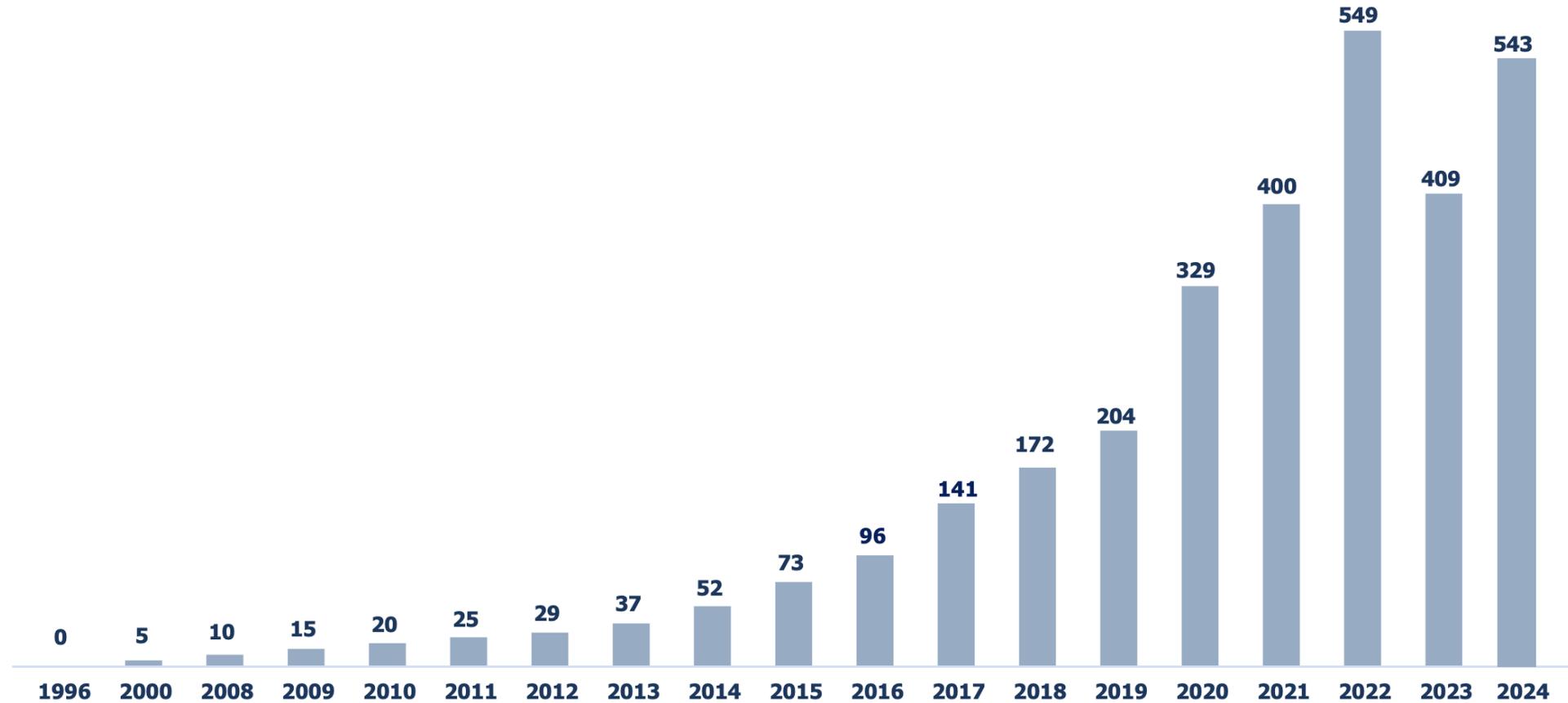
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Bridge Analysis (2024)

BUSINESS DESCRIPTION

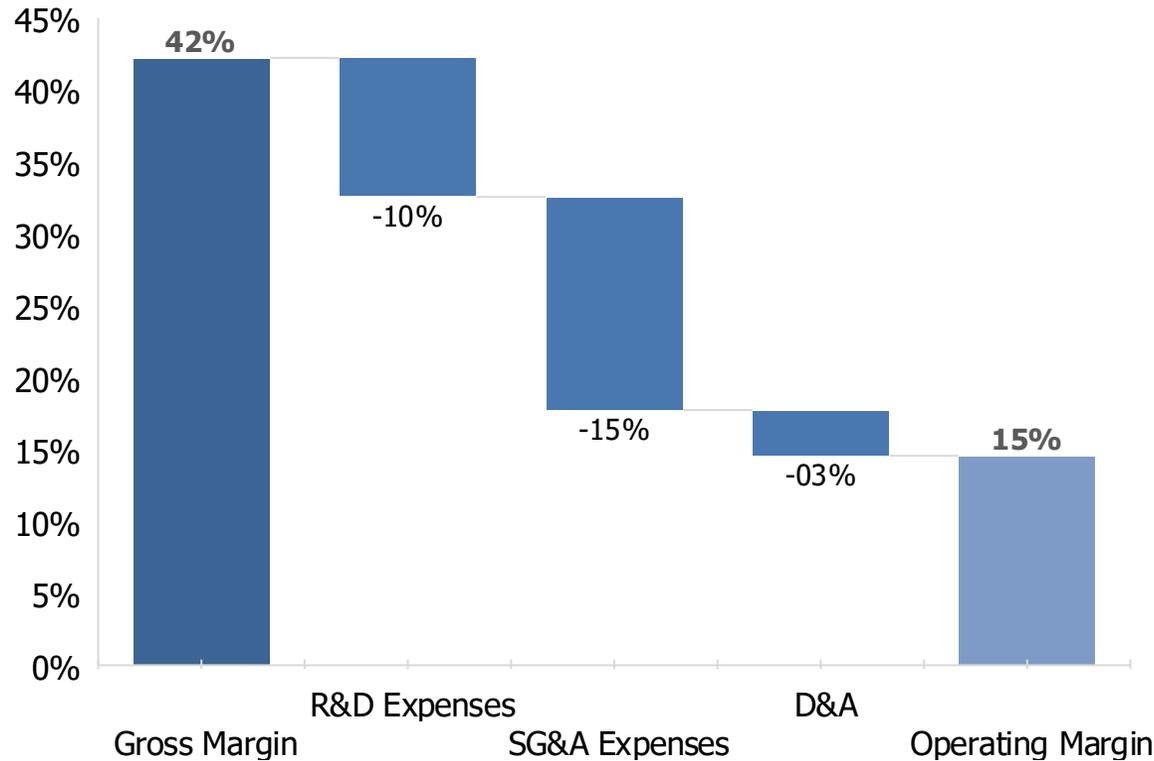
INDUSTRY OVERVIEW

FINANCIAL ANALYSIS

VALUATION

RISK

ESG



Operating margin decline

14.6% (FY24) vs 38% (FY22)

Gross margin compression

60.6% → 42.2% (DIS Tech integration)

STRONGER EFFICIENCY VS PEER FORM

- **Higher operating margin vs FORM**
14.6% vs 5.8%
- **Higher gross margin**
42.2% vs 40.3%
- **Lower operating expenses ratio**
27.6% vs 34.5%



Record Cash Conversion & Quality Earnings

BUSINESS DESCRIPTION

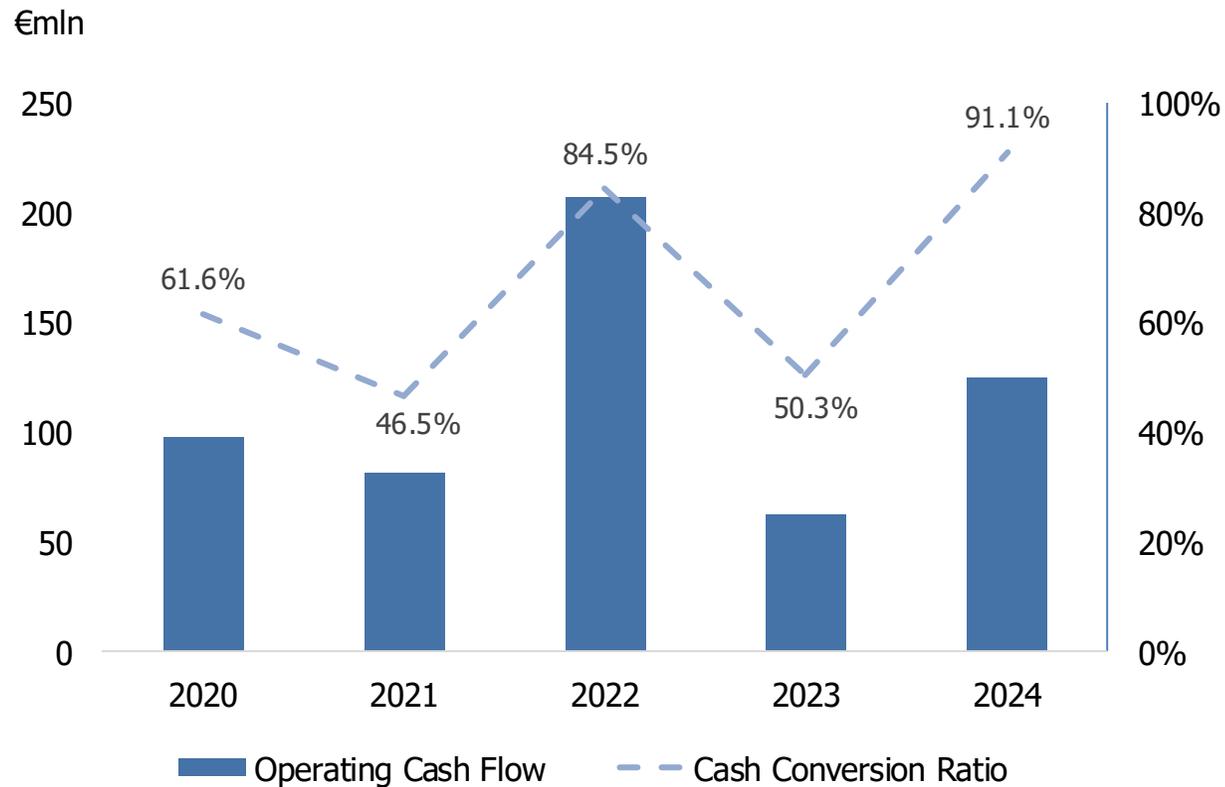
INDUSTRY OVERVIEW

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Record cash conversion & strong cash flow

High earnings quality

Normalized working capital

Supports CAPEX with minimal external financing



Cash Conversion Cycle

BUSINESS DESCRIPTION

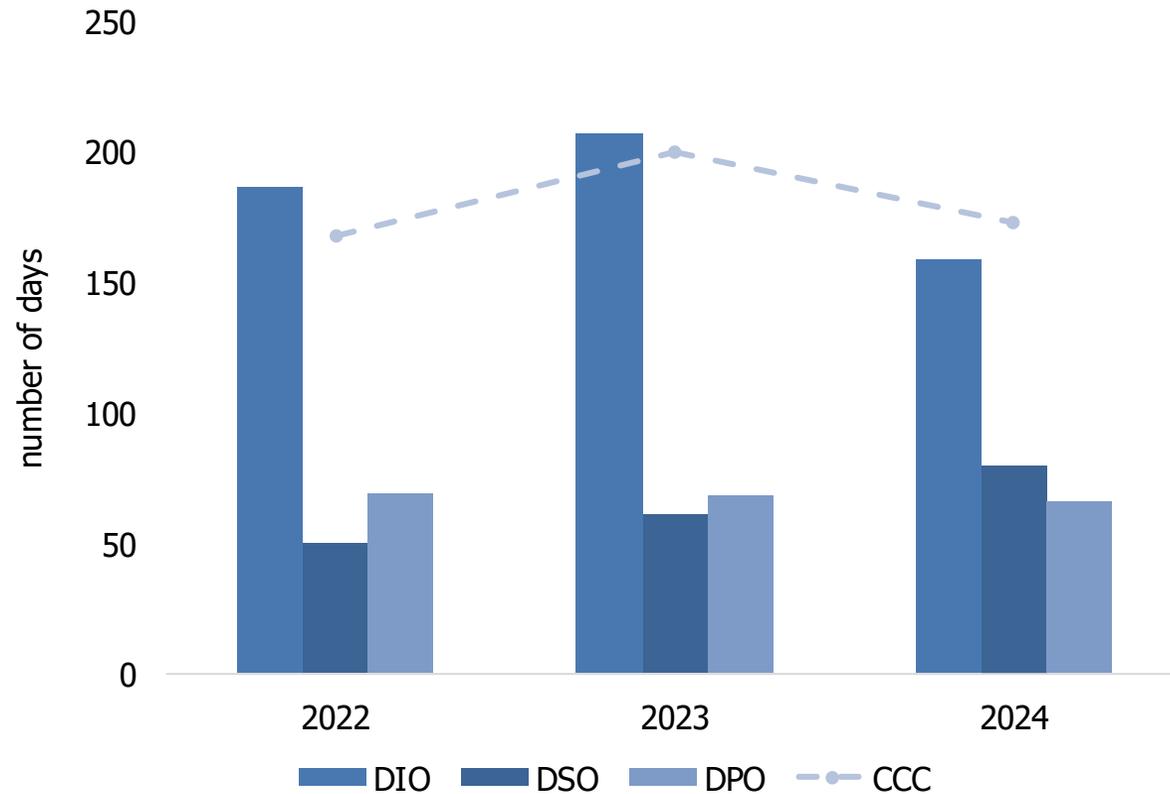
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High working capital constrains cash
(CCC: 173 days)

Inventory & receivables elevated
(DIO 159d, DSO 80d)

Liquidity under pressure

Peer FORM more efficient
(CCC 106d)



Asset Composition

BUSINESS DESCRIPTION

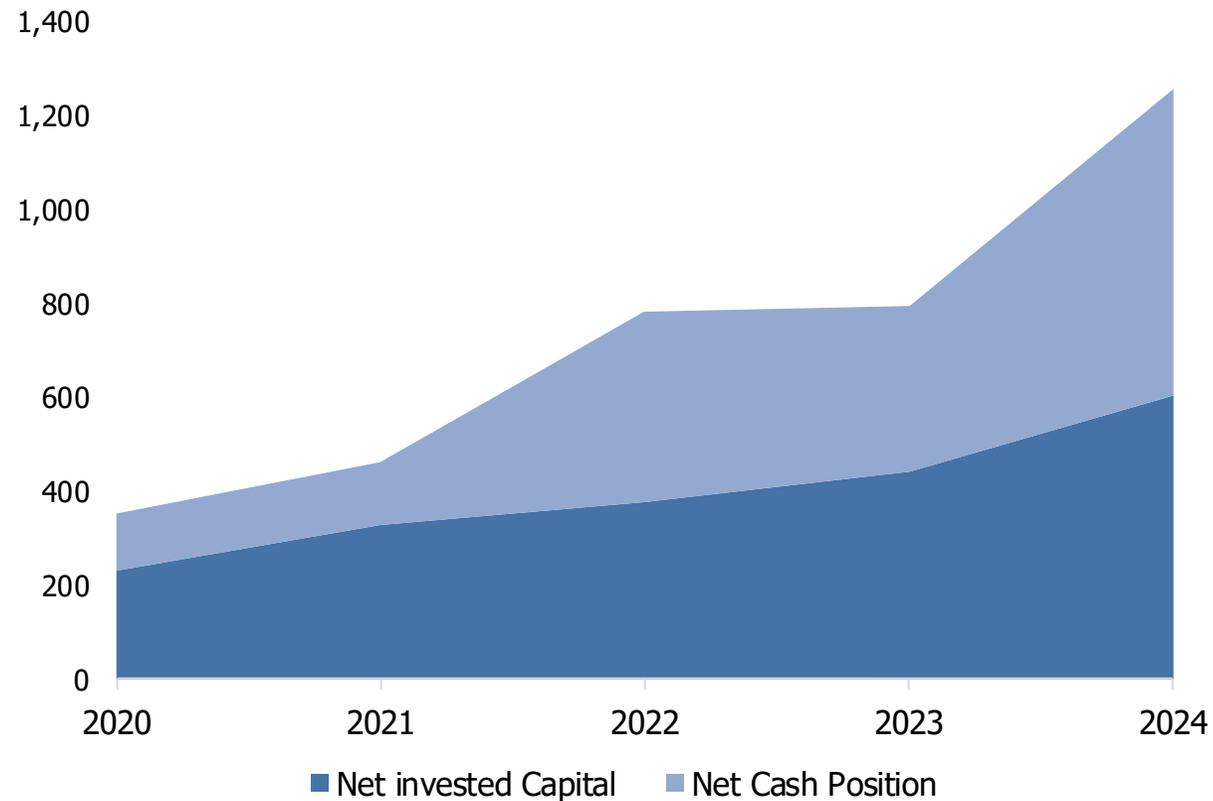
INDUSTRY OVERVIEW

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Net Invested Capital expanding (FY20–FY24)

Record Net Cash position exceeds reinvestment needs

Heavy CAPEX for 3nm & AI-chip testing

Supports tech leadership & M&A firepower



Cash Flow Conversion

BUSINESS DESCRIPTION

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Data from LSEG Refinitiv

(€ mln)	2023A	2024A	2025E	2026E	2027E
EBITDA	122,79	136,45	202,00	264,00	346,05
(-) Cash Taxes	(44,62)	(7,81)	(32,15)	(53,25)	(73,43)
(+/-) Δ in Working Capital	(23,09)	(12,65)	(31,35)	(36,46)	(44,39)
(-) Other adjustments	(6,67)	(8,42)	-	-	-
CFO	61,75	124,41	138,50	174,29	228,23
(-) CapEx	(63,93)	(94,45)	(87,77)	(87,50)	(88,78)
FCF	(2,18)	29,96	50,73	86,79	139,45
FCF / EBITDA	(1,78%)	21,96%	25,11%	32,87%	40,30%
FCF / Net Income	(2,25%)	46,94%	53,01%	54,93%	64,25%
CapEx as % of Revenue	15,62%	17,39%	14,00%	12,00%	10,00%

Assumptions	2025E	2026E	2027E
Effective Tax Rate	25%	25%	25%
NWC as % of Sales	5%	5%	5%
CapEx as % of Sales	14%	12%	10%



Financial Comparison vs. FormFactor

BUSINESS DESCRIPTION

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ESG

Data from LSEG Refinitiv

(€ mln)	Company	2023A	2024A	2025E	2026E	2027E
Revenue	TPRO	409,27	543,15	626,96	729,20	887,84
	FORM	613,10	705,39	659,43	731,44	784,28
Gross Profit	TPRO	199,33	223,44	281,00	373,90	455,80
	FORM	249,76	294,24	265,35	318,07	349,23
EBIT	TPRO	79,84	67,11	134,40	196,00	271,00
	FORM	56,20	83,82	83,38	123,88	149,20
EBITDA	TPRO	122,79	136,45	202,00	264,00	346,05
	FORM	90,83	114,22	115,00	148,74	181,68
Net Income	TPRO	97,00	63,83	95,70	158,00	217,05
	FORM	52,51	83,34	77,67	107,56	131,91
Gross Margin %	TPRO	48,7%	41,1%	45,0%	49,0%	51,8%
	FORM	44,5%	45,6%	40,2%	43,8%	45,0%
EBIT Margin %	TPRO	19,5%	12,4%	21,4%	25,1%	30,1%
	FORM	9,2%	11,9%	12,6%	16,9%	19,0%
EBITDA Margin %	TPRO	30,0%	25,1%	32,2%	36,6%	39,2%
	FORM	14,8%	16,2%	17,4%	20,3%	23,2%
Net Margin %	TPRO	23,7%	11,6%	15,2%	21,6%	24,5%
	FORM	8,6%	11,8%	11,8%	14,7%	16,8%

USD/EUR	Avg. FX Rate
2021	0,84484
2022	0,95005
2023	0,92504
2024	0,92422



Current Ratio Evolution

BUSINESS DESCRIPTION

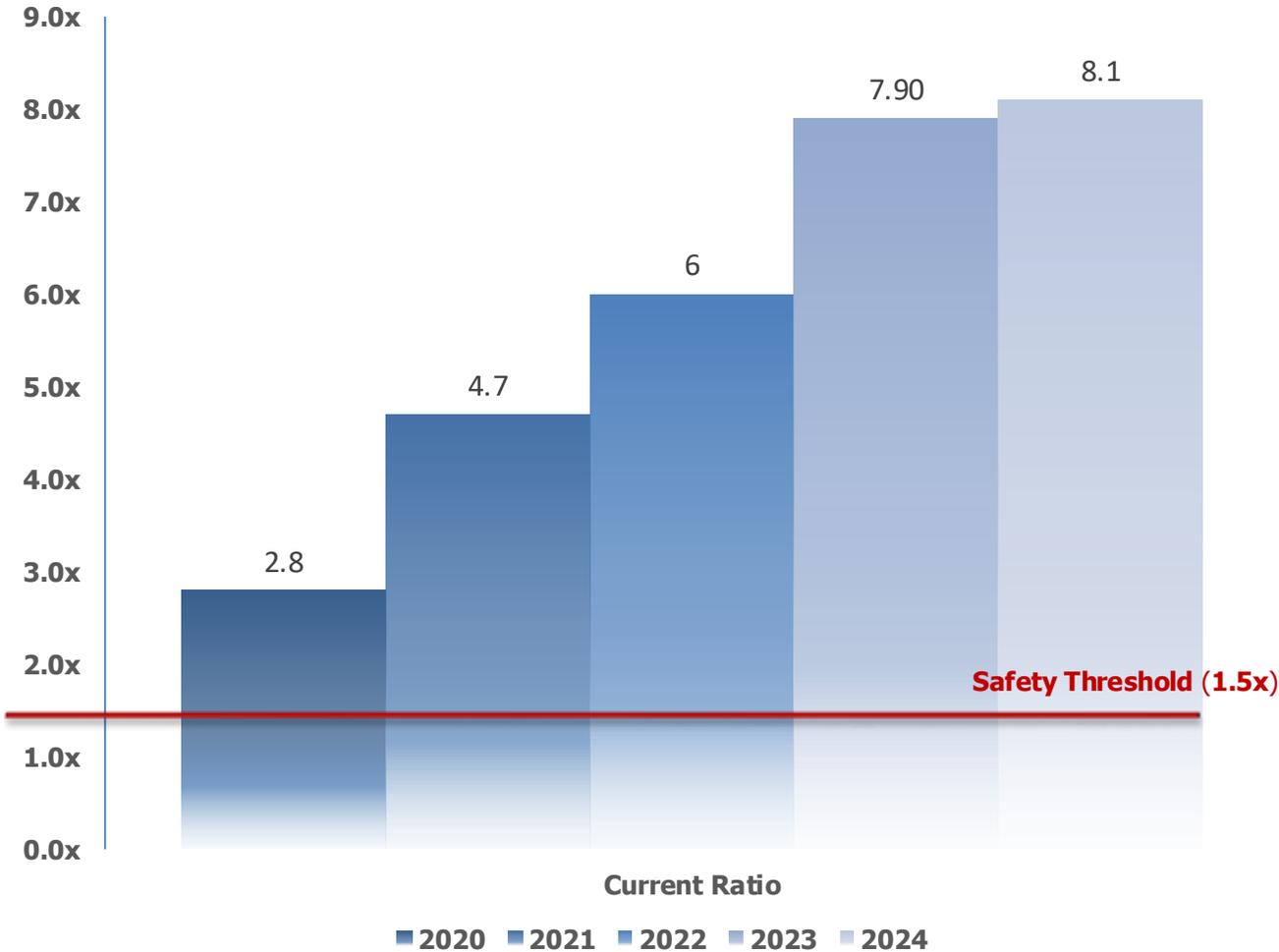
INDUSTRY OVERVIEW

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Current Ratio surging to 8.1x in FY24

Deliberate "Strategic Liquidity Buffer"

Shields high R&D during market downturns

Unrivalled "dry powder" for M&A



Solvency Profile & Synthetic Credit Rating Outlook

BUSINESS DESCRIPTION

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	(€ millions)	2023A	2024A	2025E	2026E	2027E
Input Data	EBIT	79,84	67,11	134,40	196,00	271,00
	EBITDA	122,79	136,45	202,00	264,00	346,05
	Interest Expense	0,29	1,61	17,00	14,00	14,00
	Short-term Debt					
	Long-term Debt & Leases					
	Total Gross Debt	11,00	10,06	9,11	24,65	12,40
	Cash & Cash Equivalents	361,80	666,38	685,75	801,15	925,50
Net position	Net Debt / (Net Cash)	- 350,80	- 656,32	- 694,86	- 776,50	- 913,10
Leverage Ratios	Total Debt / Equity	0,01	0,01	-0,01	0,02	0,01
	Total Debt / EBITDA	0,09	0,07	-0,05	0,09	0,04
	Net Debt / EBITDA	-2,86	-4,81	-3,44	-2,94	-2,64
Coverage Ratios	Interest Coverage Ratio (ICR)	277,22	41,79	7,91	14,00	19,36
	EBITDA / Interest Expense	426,34	84,96	11,88	18,86	24,72
Credit Rating	Implied Credit Rating	AAA	AAA	A	AAA	AAA



Sensitivity Analysis and DCF

BUSINESS DESCRIPTION

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Exit EV / EBITDA Multiple

30

31

33,2

34

35

WACC

7,69%

17,6890

18,2057

19,3424

19,7557

20,2724

8,19%

17,3341

17,8390

18,9496

19,3535

19,8584

8,69%

16,9890

17,4823

18,5676

18,9623

19,4557

9,19%

16,6532

17,1353

18,1961

18,5818

19,0639

9,69%

16,3265

16,7978

17,8345

18,2115

18,6828

10.12%

Ke

3.91%

Kd

3.00%

g

8.69%

WACC



Revenue Growth

BUSINESS DESCRIPTION

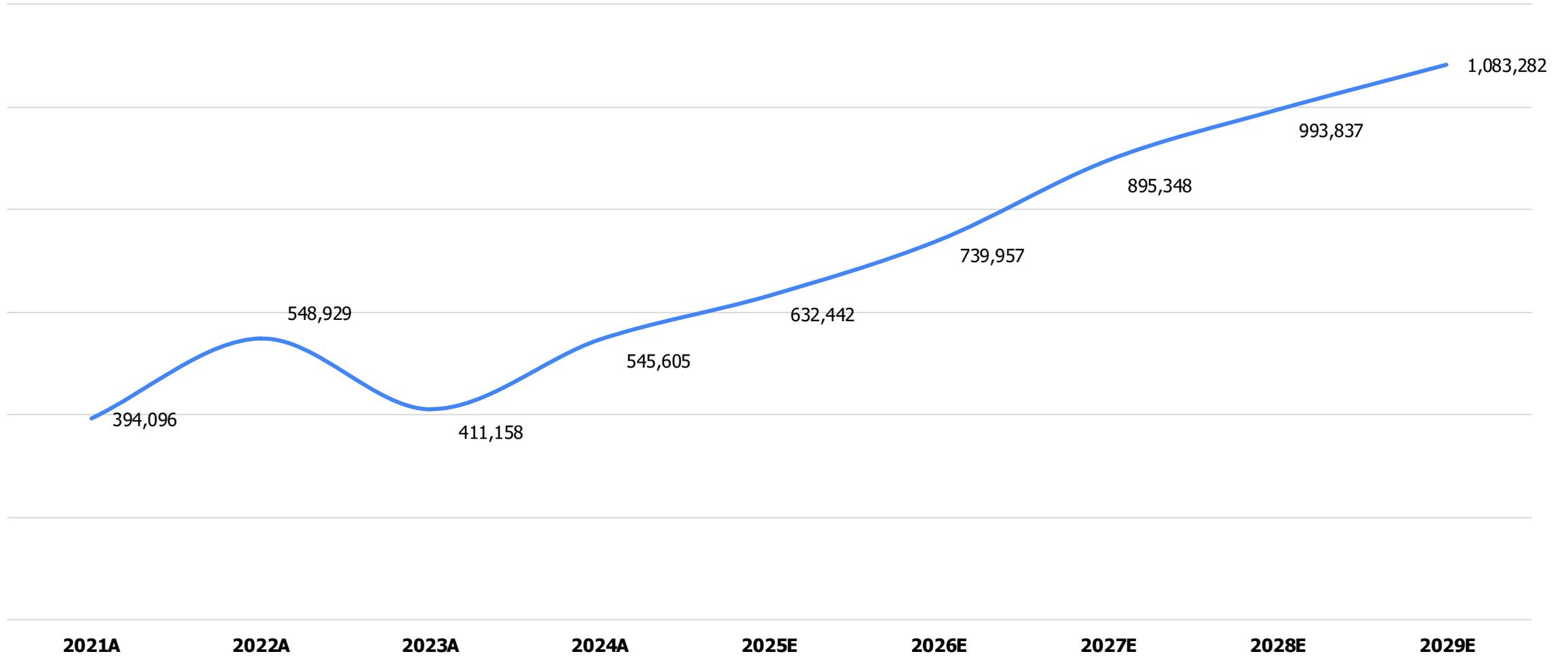
INDUSTRY OVERVIEW

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EBITDA Margin Growth

BUSINESS DESCRIPTION

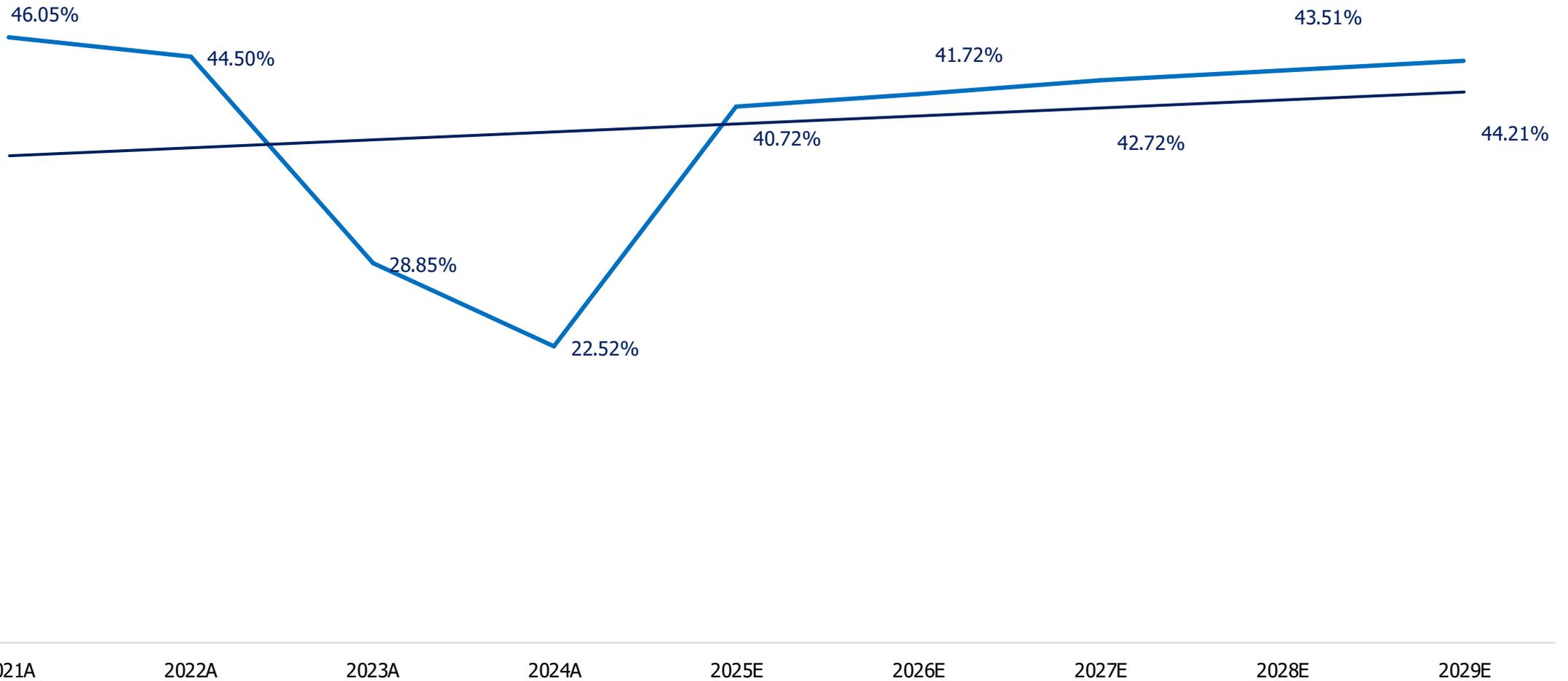
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RISK MATRIX

BUSINESS DESCRIPTION

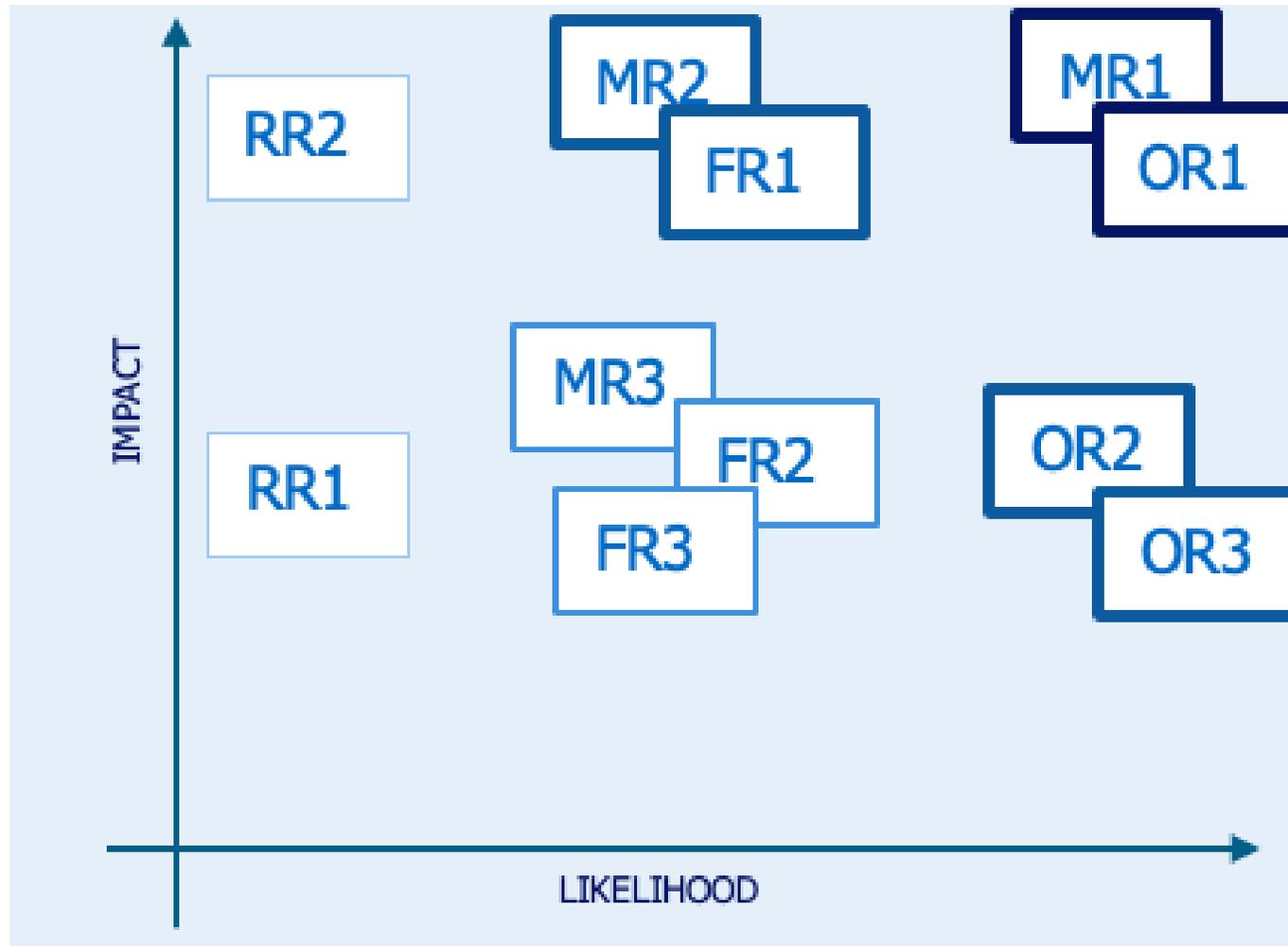
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Market Risks (cyclical but mitigated)

BUSINESS DESCRIPTION

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Risk

Description

Mitigation

MR1 Semiconductor Cyclicity

Demand tied to macro, customer capex, tech cycles

Long qualification cycles (2-3 years), €640M+ cash to invest through downturns

MR2 Market Sensitivity, Beta

Share price volatility, program risk in *duopoly*

High entry barriers, proprietary IP, vertical integration

MR3 Geopolitical & Trade

Export controls, trade restrictions

Diversified global footprint (Asia 47%, America 46%), agnostic ecosystem partner



Operational Risks (structural protections)

BUSINESS DESCRIPTION

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Risk

Description

Mitigation

OR1 Customer Concentration

Top 4 clients ~50% of revenue

High switching costs, long-term partnerships, mission-critical product

OR2 Capacity Planning

Must invest ahead of demand

Vertical integration improves control, monitor DIO/DSO, capex cadence

OR3 Pricing, Margin Pressure

Testing perceived as "cost" not "value"

Differentiated MEMS technology, impact on yield and time-to-market



Financial Risks (fully mitigated by balance sheet)

BUSINESS DESCRIPTION

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Risk

Description

Mitigation

FR1 Capital Allocation

€640M+ cash could be deployed poorly

Disciplined M&A track record
(Microfabrica, DIS Tech, Harbor)

FR2 FX Volatility

EUR cost base vs. USD revenues

Natural hedging, treasury monitoring,
FX line disclosed

FR3 WACC Sensitivity

Rising rates impact valuation

Stress-tested in sensitivity analysis



ESG & Regulatory Risks (proactive monitoring)

BUSINESS DESCRIPTION

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Risk

Description

Mitigation

RR1 ESG Transition

98.5% energy from fossil fuels, no decarbonization roadmap

Full Scope 1,2,3 disclosure, CDP rating C, improving transparency

RR2 Cybersecurity / IP

IP leakage or cyber incidents

ISO 27001, security frameworks, strict governance



Secondary Risks: Monitoring Dashboard

BUSINESS DESCRIPTION

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RISK	MONITOR
AR1 Acquisition Integration	Margin trends, synergies, one-off costs
AR2 Operational Disruption	Quality incidents, customer complaints
AR3 Input Inflation	Raw material prices, lead times
AR4 AI Sentiment	Sector indicators, management communication
AR5 Tech Adoption Pace	Customer roadmaps (TSMC, Intel)
AR6 Talent Retention	Employee turnover, R&D execution pace
AR7 Commercial Pressure	Payment terms, customer behaviour in downturns
AR8 Global Scaling Complexity	Cost discipline, process standardization



ESG Metrics

BUSINESS DESCRIPTION

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The ESG scoring system integrates qualitative metrics (policies, compliance, and certifications) with quantitative indicators (intensity ratios, gender diversity, safety records, etc.) to derive a relative score ranging from **0 to 10** based on industry benchmarks. The framework is structured as follows:

1. Structure and Weighting

• **Pillars and Buckets:** The Environmental (E), Social (S), and Governance (G) pillars are subdivided into thematic buckets (e.g., *Resource Use* and *Emissions* for the Environmental pillar).

• **Materiality Weights:** Each bucket is assigned a percentage weight reflecting its overall materiality within the semiconductor industry. These weights determine the impact of each bucket on the final aggregate score.

2. Scoring Qualitative Metrics (Policies)

To assess policy adoption, TRUE/FALSE indicators are converted into numerical scores based on peer prevalence (p), mirroring best-in-class industry models:

- **If TRUE:** $Score = 10 - (4 \times p)$
- **If FALSE:** $Score = 4 \times (1 - p)$
- *(Logic: This formula penalizes the absence of common industry practices (where p is high) while rewarding the adoption of differentiating standards.)*

3. Scoring Quantitative Metrics

Numerical values are normalized against industry-specific benchmarks using two primary logics:

- **"Higher is Better"** (e.g., % of women on board, emission reduction targets):
 $Score = 10 \times (Value / Max\ Peer\ Value)$
- **"Lower is Better"** (e.g., energy intensity, tCO₂e/Revenue, injury rates): A reverse scale is applied, typically:
 $Score = ROUND [8 \times (Max - Value) / (Max - Min)]$
- **Health & Safety (H&S):** Specific metrics like injury rates use a specialized formula- $min(9, 9 \times (Peer\ Average / Value))$ - to highlight strong performance when significantly below the peer mean.

4. Aggregation and Interpretation

- **Bucket Score:** Calculated as the arithmetic mean of the individual metric scores within each bucket.
- **Final Pillar Score:** Derived from the weighted average of the bucket scores according to peer-based materiality.
- **Rating Legend:** Final scores are mapped onto a scale from **AAA to D** based on the 0–10 range to ensure comparability with global rating standards.



ESG: Environmental

BUSINESS DESCRIPTION

INDUSTRY OVERVIEW

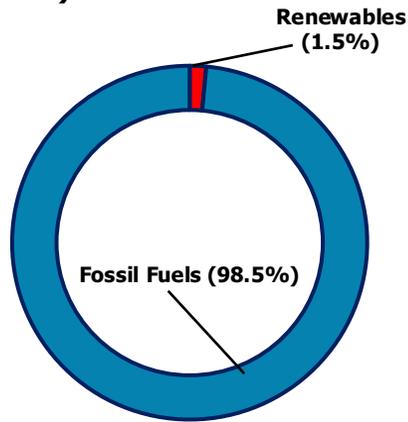
FINANCIAL ANALYSIS

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ESG

Energy Mix & Transition Risk (2024)



INVESTMENT INSIGHT:
High fossil fuel reliance exposes company to transition risk and future Capex for decarbonization

Resource Reduction Policy	FALSE	100% T	0.0/10	
Policy Water Efficiency	FALSE	100% T	0.0/10	
Policy Energy Efficiency	FALSE (not disclosed)	92% T – 8% F	0.3/10	
Policy Sustainable Packaging	FALSE (not disclosed)	17% T – 83% F	3.3/10	
RESOURCE USE (7.6%)				
Policy Environmental Supply Chain	TRUE (Supplier Code of Conduct includes environment protection)	100% T	6.0/10	2.7
Resource Reduction Targets	FALSE	75% T – 25% F	1.0/10	
Targets Water Efficiency	FALSE	58% T – 42% F	1.7/10	
Targets Energy Efficiency	FALSE (not disclosed)	50% T – 50% F	2.0/10	
Total Energy Use / Million in Revenue \$	92.7	598.26 (2,435.18 – 173.35)	8.0/10	
Renewable Energy Use Ratio	1.5	11.83% (18.66% – 0.13%)	0.8/10	
Total Water Use / Million in Revenue \$	41.8	21,427.49 (220,562 – 40.34)	8.0/10	
Policy Resource Efficiency	FALSE	58% T – 42% F	1.7/10	
EMISSIONS (8.5%)				
Policy Emissions	FALSE (not disclosed)	92% T – 8% F	0.3/10	
Targets Emissions	FALSE (not disclosed)	83% T – 17% F	0.7/10	
Emissions Reduction Target Percentage	0.0	37.40% (100% – 3%)	0.0/10	
Total CO2 Emissions / Million in Revenue \$	210.11	77.23 (407.6 – 16.74)	5.2/10	2.3
Total Waste / Million in Revenue \$	5.29	25.80 (149.03 – 2.96)	8.0/10	
Waste Recycled to Total Waste	16.3	64.17% (99.80% – 18.51%)	1.6/10	
ISO 14000 or EMS	no (ISO 14000/EMS not disclosed as certified)	84% ISO – 8% no – 8% both	0.0/10	
ENV. INNOVATION (18.0%)				
Renewable/Clean Energy Products	FALSE (not applicable / no)	58% T – 42% F	1.7/10	
Water Technologies	FALSE (not applicable / no)	50% T – 50% F	2.0/10	1.8
Life Cycle Analysis	FALSE (no LCA disclosed)	58% T – 42% F	1.7/10	

The low score in Environmental Innovation (1.8/10) reflects a lack of disclosed LCA (Life Cycle Analysis) and dedicated water technologies, representing a potential long-term transition risk as semiconductor regulations tighten

- ✓ Overall, Technoprobe exhibits a moderate environmental impact profile, supported by strong disclosure quality and low water stress exposure, but characterized by weak strategic alignment on decarbonization, renewable energy adoption and circular economy integration.



ESG: Social

BUSINESS DESCRIPTION

INDUSTRY OVERVIEW

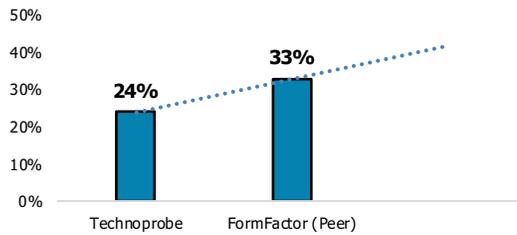
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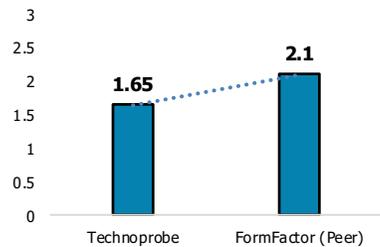
RISK

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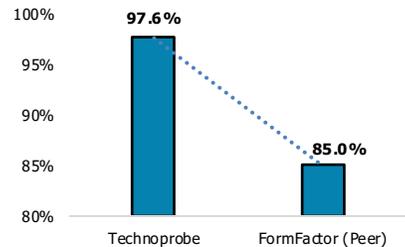
Women in Management (%)



Occupational Injury Rate (%)



Contract Stability (%)



	Health & Safety Policy	TRUE	100% T	6.0/10	
	Policy Employee Health & Safety	TRUE	100% T	6.0/10	
	Policy Supply Chain Health & Safety	TRUE	100% T	6.0/10	
	Policy Career Development	TRUE	92% T – 8% F	6.3/10	
	Women Employees	35.98	24.22% (31% – 15%)	10.0/10	
WORKFORCE (7.8%)	Women Managers	Not disclosed; assumption = 24.39% (peer avg)	24.39% (31% – 5.40%)	7.9/10	6.2
	Total Injury Rate Employees	1.65	6.94 (14.08 – 0.71)	9.0/10	
	Accidents Total	9	107.25 (411 – 11)	9.0/10	
	Average Training Hours	Not disclosed (ESRS S1-13 phase-in); conservative = 0	30.43 (45.72 – 16.71)	0.0/10	
	Supplier ESG training	FALSE (no disclosed)	58% T – 42% F	1.7	
	Human Rights Policy	TRUE	100% T	6.0/10	
	Policy Human Rights	TRUE	92% T – 8% F	6.3/10	
HUMAN RIGHTS (11.4%)	Equal Pay for Equal Work	FALSE (no disclosed)	67% T – 33% F	1.3/10	6.0
	Policy Minimum Wage	TRUE	58% T – 42% F	7.7/10	
	Policy Working Hours	TRUE	33% T – 67% F	8.7/10	
	Donations / Million in Revenue	Not disclosed; conservative = 0	318.37 (851.32 – 32.96)	0.0/10	
COMMUNITY (9.5%)	Crisis Management Systems	TRUE	75% T – 25% F	7.0/10	5.1
	Corruption Due Diligence	TRUE	42% T – 58% F	8.3/10	
	Policy Customer Health & Safety	TRUE	50% T – 50% F	8.0/10	
	Policy Data Privacy	TRUE	100% T	6.0/10	
PRODUCT RESP. (9.5%)	Policy Cyber Security	TRUE	92% T – 8% F	6.3/10	6.7
	ISO 9000	TRUE (UNI ISO 9001:2015 certified QMS)	92% T – 8% F	6.3/10	

✓ Overall, Technoprobe’s alignment with ESRS S1–S4 reflects a coherent and increasingly mature social sustainability framework that supports earnings visibility, reduces risk exposure, and strengthens the Group’s long-term growth profile.



ESG: Governance

BUSINESS DESCRIPTION

INDUSTRY OVERVIEW

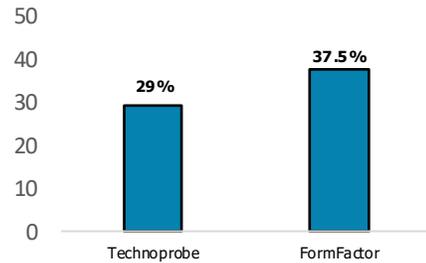
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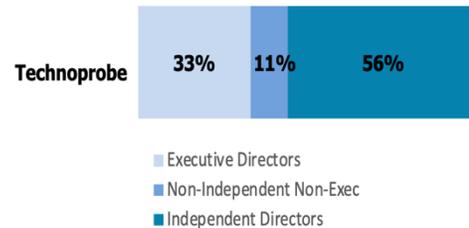
RISK

ESG

Board Gender Diversity



Board Composition



Compensation Board Committee	TRUE	100% T	6.0/10
Policy Board Diversity	TRUE	100% T	6.0/10
Policy Executive Compensation ESG Perform	FALSE (not evidenced)	92% T – 8% F	0.3/10
Audit Committee Independence	100.0	87.32% (100% – 50%)	10.0/10
Number of Board Meetings	12	9.5 (15 – 5)	8.0/10
MANAGEMENT (19.0%)			5.2
Board Size	9	10 (16 – 6)	5.6/10
Board Gender Diversity, Percent	29.0	33.36% (50% – 12.5%)	5.8/10
Average Board Tenure	Est. 0.7 yrs (BoD appointed Apr 2024)	6.36 yrs (10.35 – 2.72)	0.7/10
Independent Board Members	55.56	69.75% (max not visible; max inferred ≈91.5%)	6.1/10
Sustainability Compensation Incentives	FALSE (not disclosed)	92% T – 8% F	0.3/10
Board Member Compensation, \$	€2.627m (directors+statutory auditors; currency mismatch)	1,695,757 (max not visible; max inferred ≈3,192,557)	8.2/10
SHAREHOLDERS (5.7%)			7.7
Shareholder Rights Policy	TRUE	100% T	6.0/10
Different Voting Right Share	TRUE	17% T – 83% F	9.3/10
CSR Sustainability Reporting	TRUE	100% T	6.0/10
CSR STRATEGY (3.8%)			3.7
GRI Report Guidelines	FALSE	100% T	0.0/10
Number of SDG	0	8.92 (max not visible; max inferred ≈15.87)	0.0/10
Policy Tax Transparency	TRUE	33% T – 67% F	8.7/10

- ✓ Overall, the governance structure is solid and mitigates material reputational risks. However, the lack of explicit links between ESG KPIs and executive compensation—a common gap among Italian mid-caps—remains a minor transparency weakness that could limit long-term strategic accountability.

Board of Directors



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Name	Current Role	Background
Cristiano Alessandro Crippa	Chairman	Since 1992, he has been with the company and is currently Chairman. From 2018 to 2022, he was CEO of DA-TOR S.p.A., specializing in hydraulic components
Roberto Alessandro Crippa	Vice chairman	Chemical Engineering graduate from Politecnico di Milano, with the company since 2002. Director since 1999 and Vice Chairman currently. From 2018 to 2022, CEO of DA-TOR S.p.A. Named in Forbes' "Top 100 Italian Managers" in 2019
Stefano Felici	CEO	Engineering graduate with a PhD from Politecnico di Milano and extensive semiconductor experience. Former R&D and product development director. Ex-General Manager of Technoprobe America, now CEO of the company and director of its Asian subsidiaries
Giulio Sirtori	Independent Director	Classical high school graduate with extensive leadership experience in trade and industry organizations. Currently General Director of Confindustria Lecco and Sondrio, CEO of Union Service S.r.l., and independent non-executive director of the company
Carlos Ortega Arias-Paz	Independent Director	Harvard Economics graduate and MBA. Co-CEO of Corporación Financiera Alba. Board member and Chairman of Acerinox. Over 23 years in investment banking and consulting
Susanna Pedretti	Independent Director	Law graduate and Bar member since 2005. Founding Partner of Auditability, specializing in governance and compliance. Independent director with key committee roles at multiple listed companies. Member and chair of Supervisory Bodies under Italian law
Elisabetta Cugnasca	Independent Director	Economics graduate from Bocconi with INSEAD director training. Experienced in auditing and investor relations across major groups. Holds several board roles in finance and tech. Former President of Italian Investor Relator Association. University lecturer and independent non-executive director
Antonio Sanna	Independent Director	Law and Political Science graduate with senior legal and compliance roles in major listed groups. Former Head of Risk & Compliance and Legal Affairs at ACEA. Independent non-executive director of the company
Gregory Stephen Smith	Non - Independent Director	Electronic Engineering graduate with advanced technical training. Former engineer and manager at Raytheon and LTX. Now President and CEO of Teradyne Inc. Non-independent, non-executive director
Chih Kuang Yang	Non - Independent Director	Senior semiconductor executive with 20+ years' experience in wafer fabrication, IC packaging, and advanced materials. Founder and GM of Technoprobe's R&D subsidiary, Yee Wei Inc. Holds a Ph.D. in Chemical Engineering.