Foundational Technologies for a Connected World

MKS Instruments, Inc. September 2023

omks

About this Presentation

Safe Harbor for Forward-Looking Statements

This presentation contains "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995, Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934 regarding the future financial performance, business prospects and growth of MKS Instruments, Inc. ("MKS", the "Company", "our", or "we") and the impact of the ransomware event we identified on February 3, 2023. These statements are only predictions based on current assumptions and expectations. Any statements that are not statements of historical fact (including statements containing the words "will," "projects," "intends," "believes," "plans," "anticipates," "expects," "estimates," "forecasts," "continues" and similar expressions) should be considered to be forward-looking statements. Actual events or results may differ materially from those in the forward-looking statements set forth herein.

Among the important factors that could cause actual events to differ materially from those in the forward-looking statements that we make are the need to generate sufficient cash flows to service and repay the substantial indebtedness we incurred in connection with our acquisition of Atotech Limited ("Atotech" and such transaction, the "Atotech Acquisition"), which we completed in August 2022; the terms of our existing credit facilities under which we incurred such debt; our entry into the chemicals technology business through the Atotech Acquisition, in which we do not have experience and which may expose us to significant additional liabilities; the risk that we are unable to integrate the Atotech Acquisition successfully or realize the anticipated synergies, cost savings and other benefits of the Atotech Acquisition; the ongoing assessment of the ransomware event we identified on February 3, 2023, including legal, reputational, financial and contractual risks resulting from the incident, and other risks related to cybersecurity, data privacy and intellectual property; competition from larger, more advanced or more established companies in our markets; the ability to successfully grow our business and the businesses of Atotech and Electro Scientific Industries, Inc., which we acquired in February 2019, and financial risks associated with those and potential future acquisitions, including goodwill and intangible asset impairments; manufacturing and sourcing risks, including those associated with limited and sole source suppliers and the impact and duration of supply chain disruptions, component shortages, and price increases; changes in global demand and the impact of COVID-19 or any other pandemic, including with respect to such supply chain disruptions, component shortages and price increases; risks associated with doing business internationally, including trade compliance, regulatory restrictions on our products, components or markets, particularly the semiconductor market, and unfavorable currency exchange and tax rate fluctuations, which risks become more significant as we grow our business internationally and in China specifically; conditions affecting the markets in which we operate, including fluctuations in capital spending in the semiconductor, electronics manufacturing and automotive industries, and fluctuations in sales to our major customers or disruptions or delays from third-party service providers upon which our operations may rely; the ability to anticipate and meet customer demand; the challenges, risks and costs involved with integrating or transitioning local and international operations of the companies we have acquired; risks associated with the attraction and retention of key personnel; potential fluctuations in guarterly results; dependence on new product development; rapid technological and market change; acquisition strategy; volatility of stock price; risks associated with chemical manufacturing and environmental regulation compliance; risks related to defective products; financial and legal risk management; and the other important factors described in MKS' Annual Report on Form 10-K for the year ended December 31, 2022 and any subsequent Quarterly Reports on Form 10-Q, as filed with the U.S. Securities and Exchange Commission. MKS is under no obligation to, and expressly disclaims any obligation to, update or alter these forward-looking statements, whether as a result of new information, future events or otherwise after the date of this presentation, even if subsequent events cause our views to change.



Use of Non-GAAP Financial Measures

This presentation includes financial measures that are not in accordance with U.S. generally accepted accounting principles ("Non-GAAP financial measures"). These Non-GAAP financial measures should be viewed in addition to, and not as a substitute for, MKS' reported results under U.S. generally accepted accounting principles ("GAAP"), and may be different from Non-GAAP financial measures used by other companies. In addition, these Non-GAAP financial measures are not based on any comprehensive set of accounting rules or principles. MKS management believes the presentation of these Non-GAAP financial measures is useful to investors for comparing prior periods and analyzing ongoing business trends and operating results.

Combined Company Financial Information

All references to "combined company" financial measures reflect the combined results of MKS and Atotech, but are not calculated in accordance with Article 11 of Regulation S-X. In addition, except as otherwise indicated, Atotech financial information for periods up until MKS' acquisition of Atotech has been adjusted from International Financial Reporting Standards as issued by the International Accounting Standards Board ("IFRS") to GAAP and includes adjustments to conform to the accounting policies of MKS.

MKS has not identified material differences in Atotech's net revenue under GAAP and Atotech's historical reported net revenue under IFRS. Net revenues by end market for Atotech are based on MKS' understanding of end market uses for Atotech products and services.

For further information regarding Non-GAAP financial measures and the calculation of certain combined company financial information, please refer to the appendix at the end of this presentation. In addition, for a breakout of reported, Atotech and combined company revenues by end market, please refer to the Net Revenues by End Market & Division presentation available under Events & Presentations on the Investor Relations section of MKS' website at investor.mks.com.

Totals presented may not sum due to rounding.



MKS: Technology-Driven Secular Growth Company

Foundational technology leader

Specializing in **precision solutions** for diverse end markets

Leveraging powerful secular trends

Miniaturization, complexity and chemistry drive the innovations that power our world

Attractive growth profile

Positioned for strong **EPS growth** and cash generation, with track record of execution



Topics Summary







MKS Overview





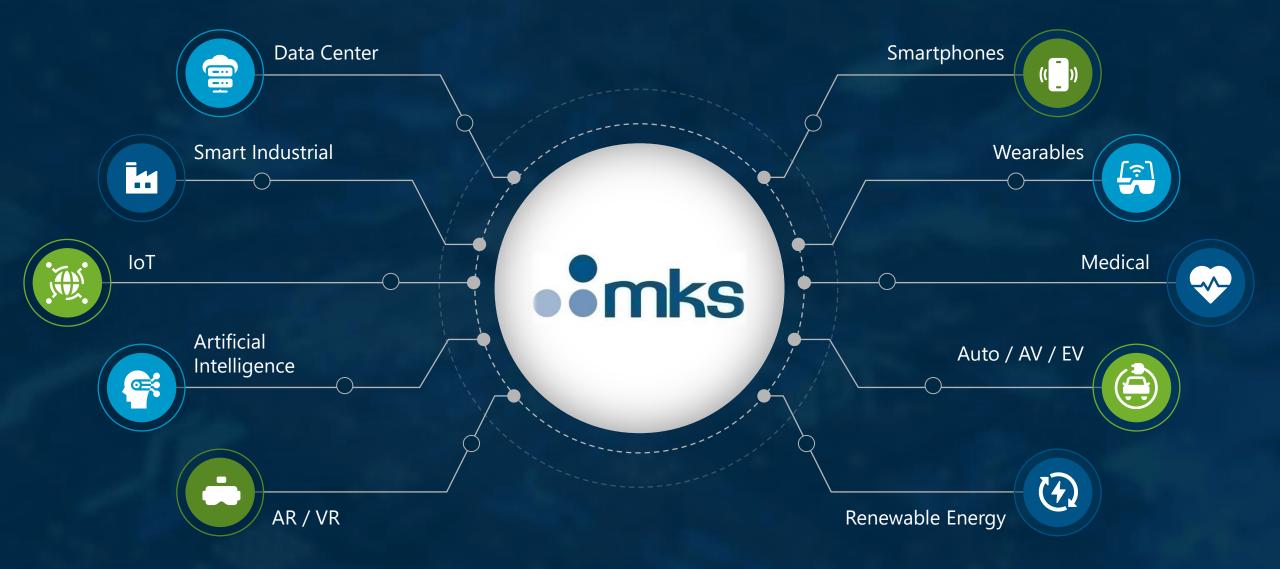
At a Glance



¹ See Slide 3 for additional information regarding the calculation of combined company results. R&D investment consists of R&D expenses of \$54 million from Atotech for the pre-acquisition period and \$241 million from MKS and from Atotech for the post-acquisition period. ² Product categories where TechInsights and/or MKS estimate MKS is #1 or #2 in segment share.



MKS is Foundational to Our Connected World...











Our Markets & Opportunity





Levered to Attractive End Markets

Technology leadership and differentiation position MKS for outperformance in \$25B SAM¹

Semiconductor

Critical solutions provider for semiconductor manufacturing

- Increasing demand and manufacturing complexity drive strong customer investment
- Long-term, deep relationships with consolidated customer base

FINANCIAL PROFILE

COMBINED COMPANY **2022: \$2.0B** REVENUE²

Electronics & Packaging

Foundational enabler of nextgeneration electronic devices

- Uniquely positioned with chemistry and photonics expertise
- Long-term, deep customer relationships
- Early innings of market penetration

FINANCIAL PROFILE

COMBINED COMPANY REVENUE² 2022: \$1.1B **Specialty Industrial**

Extending MKS expertise across broad end markets

- Leadership positions
- Differentiated technology
- Exposure across diverse set of applications

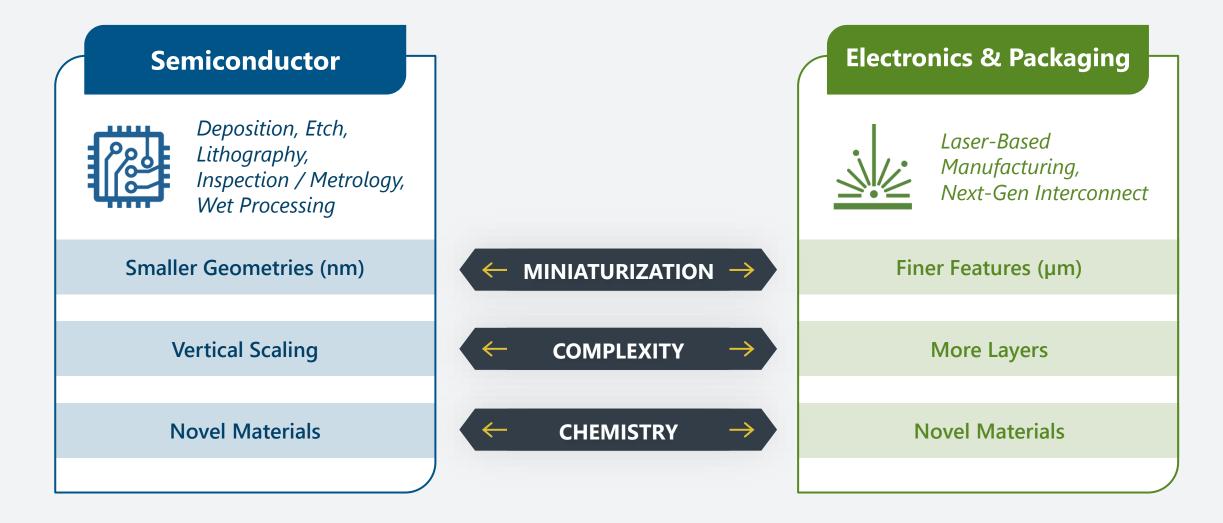


¹ Internal Company estimate. ² See Slide 3 for additional information regarding the calculation of combined company results.



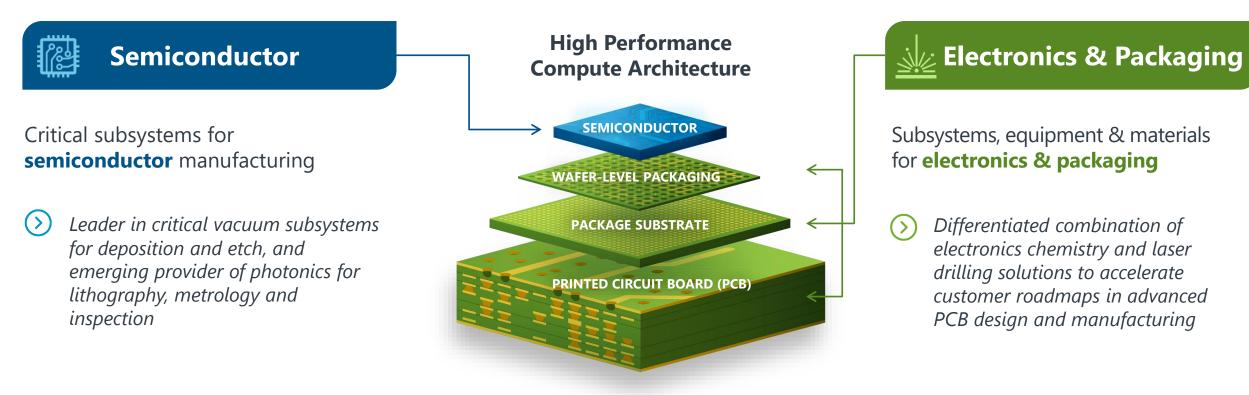
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MKS: Built to Capitalize on Secular Trends





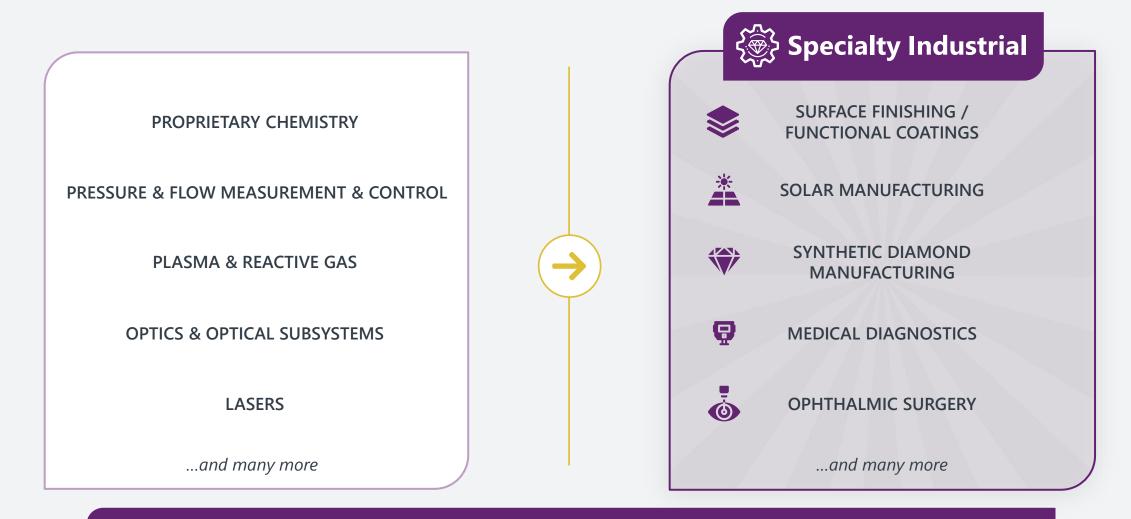
Enabling the Core Building Blocks of Advanced Electronic Devices





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Leveraging our Domain Expertise Across End Markets



Leadership in Broad Set of Industrial Markets Offers Attractive Margins & Cash Flow



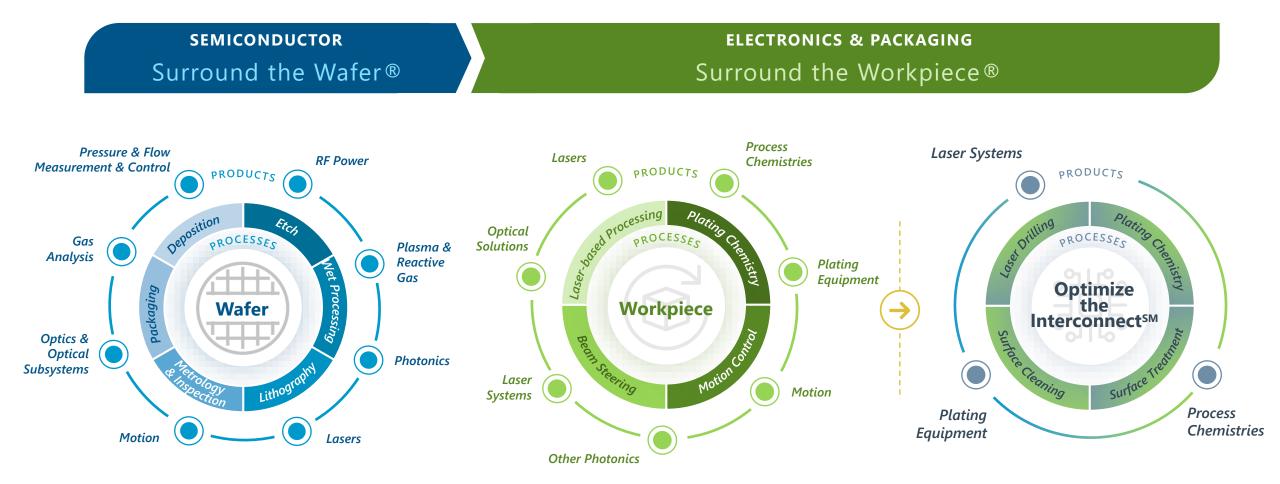


Strategy & Business Drivers





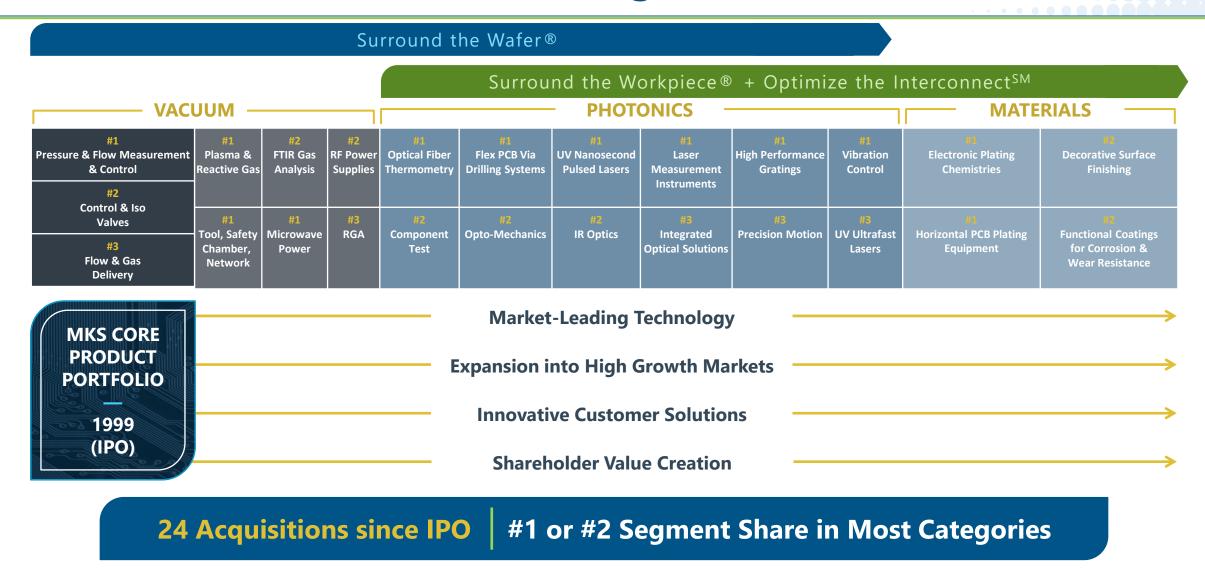
Our "Surround" Strategy is How We Execute



MKS Today: Foundational Solutions for Advanced Electronics



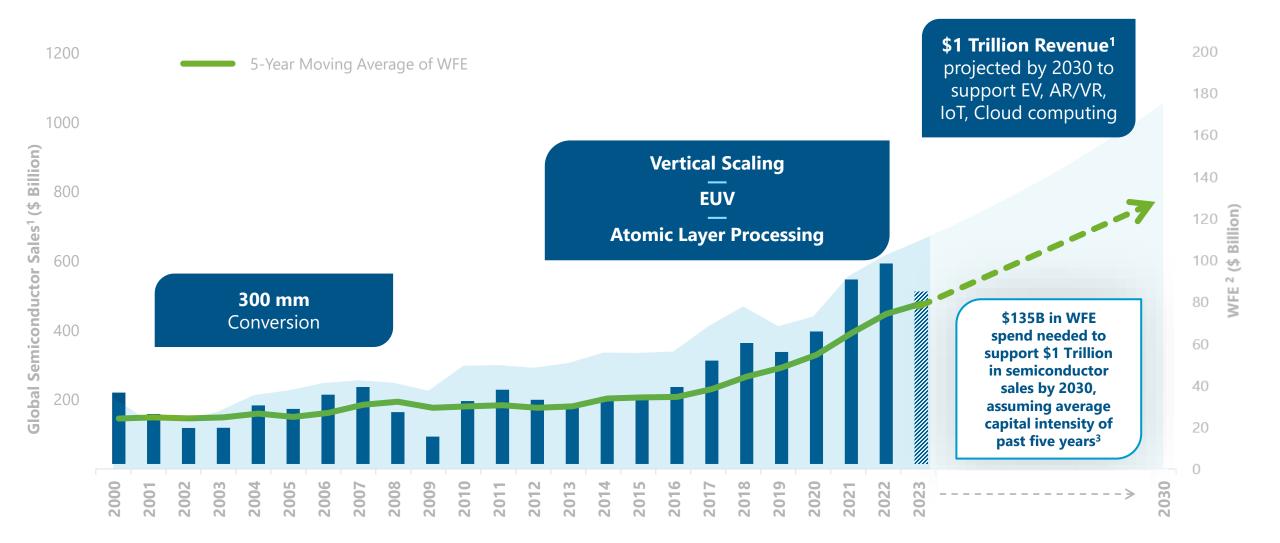
Broad Portfolio of Market-Leading Solutions



Sources: TechInsights, Internal Company estimate

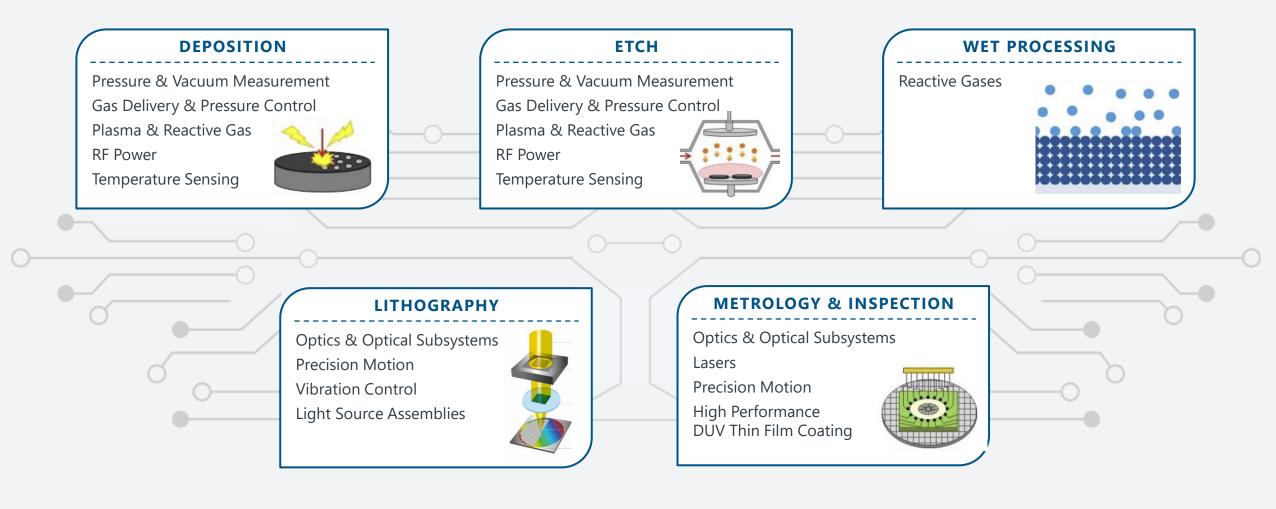


Secular Semi Demand Growth Drives WFE Investment



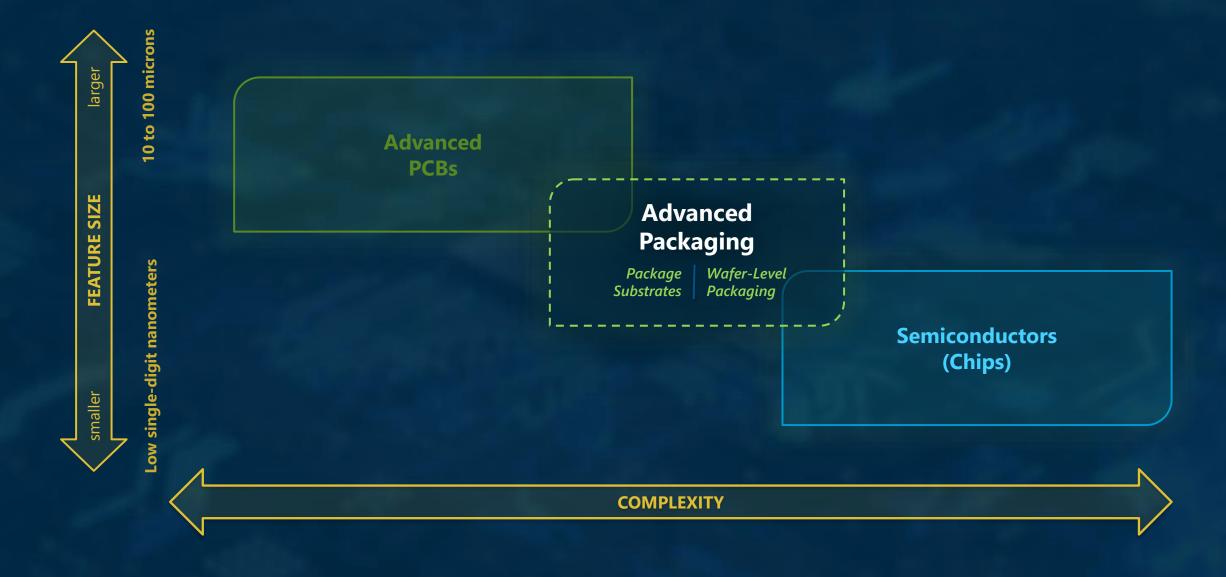
¹ Semi.org ² TechInsights ³ Internal Company Estimates

MKS Enables More Semiconductor Process Steps Than Anyone Else in the Industry¹





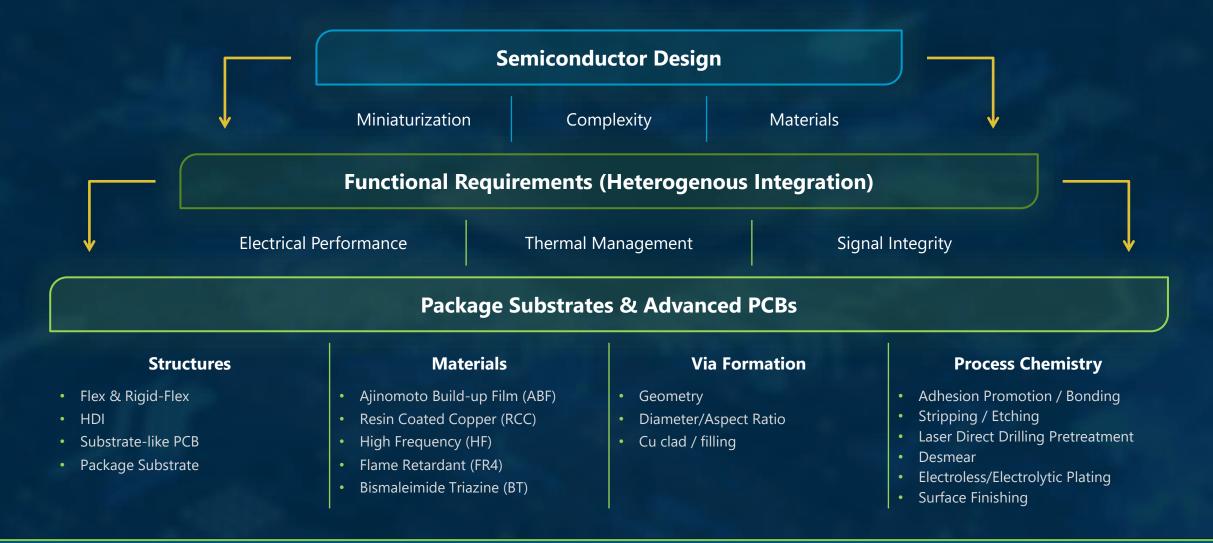
Lines Are Blurring as Complexity Increases ...





...Requiring Increasingly Integrated Semi, Substrate & PCB Design

MKS creates processes and products that optimize yields and enable faster time to market



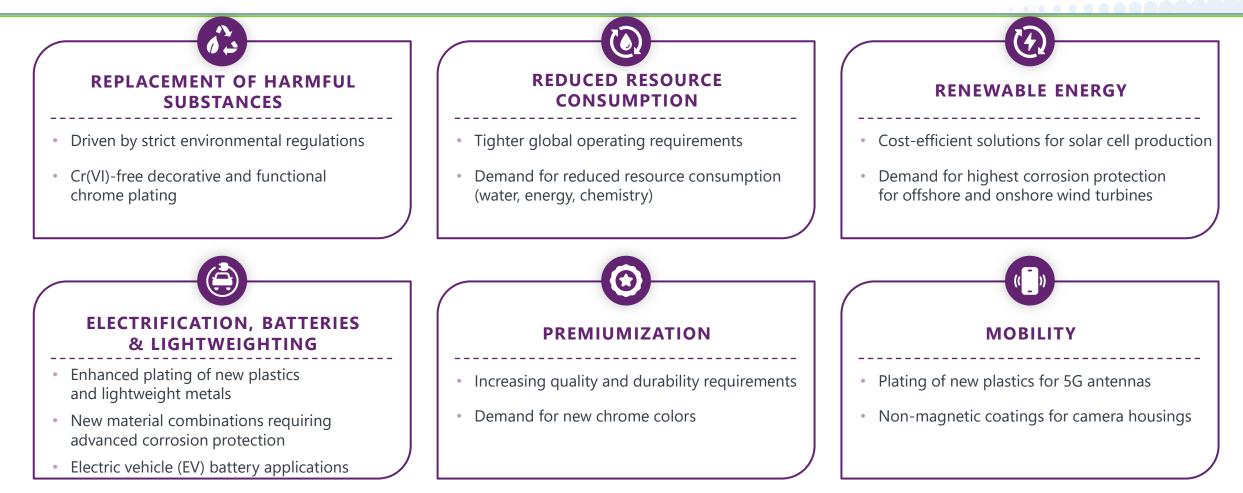
The Next Frontier: Optimize the InterconnectSM



Combination of Optimized Laser Drilling & Process Chemistries Expertise Positions MKS to <u>Deliver Better Yields</u>, Faster for Customers



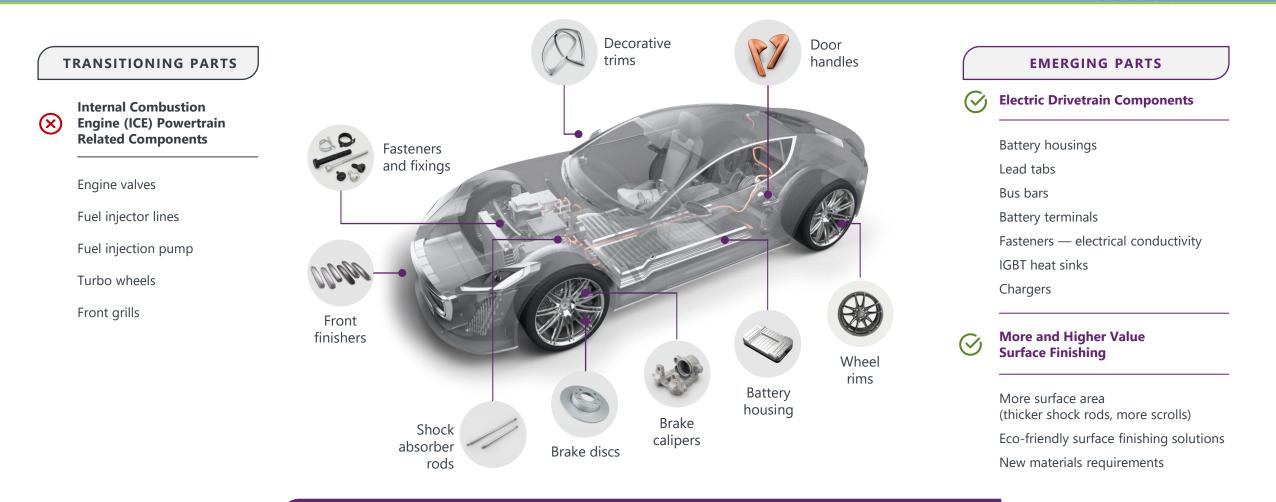
Leveraging Domain Expertise: General Metal Finishing



Auto Market Comprises > 50% of our GMF business



EV Growth Creates Value-Add Opportunities for GMF

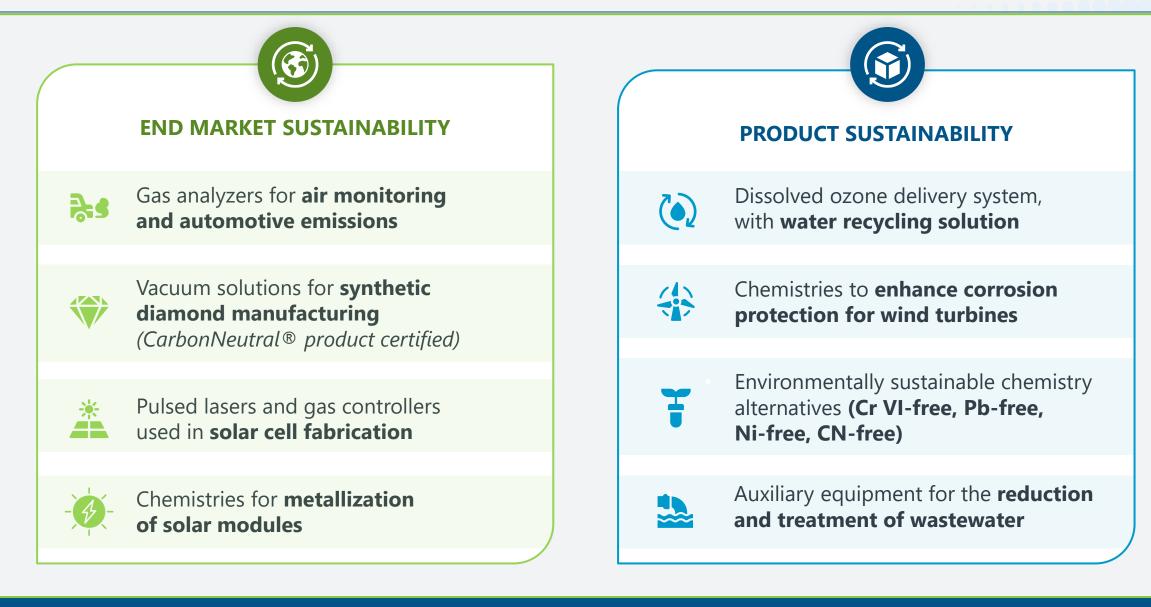


>1.5x GMF Chemistry Content¹ in EV than ICE

¹ Internal Company estimate; does not include incremental Electronics and Semiconductor content



MKS Portfolio Positioned Well for Global Sustainability Needs





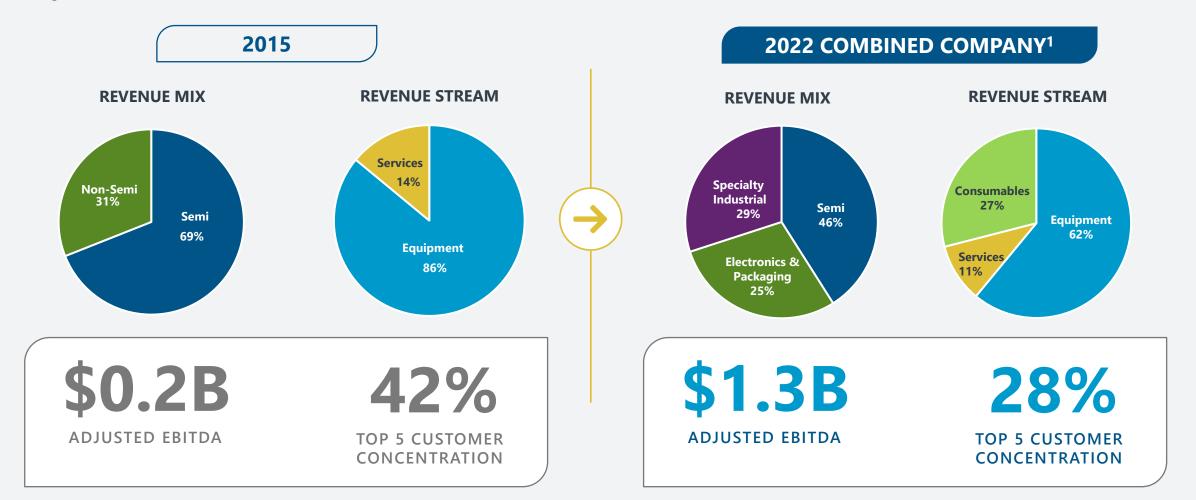
Financial Profile





Evolution into Broad Foundational Technology Provider

Significantly expanded financial and operational scale to **drive growth across a broader array of end markets**

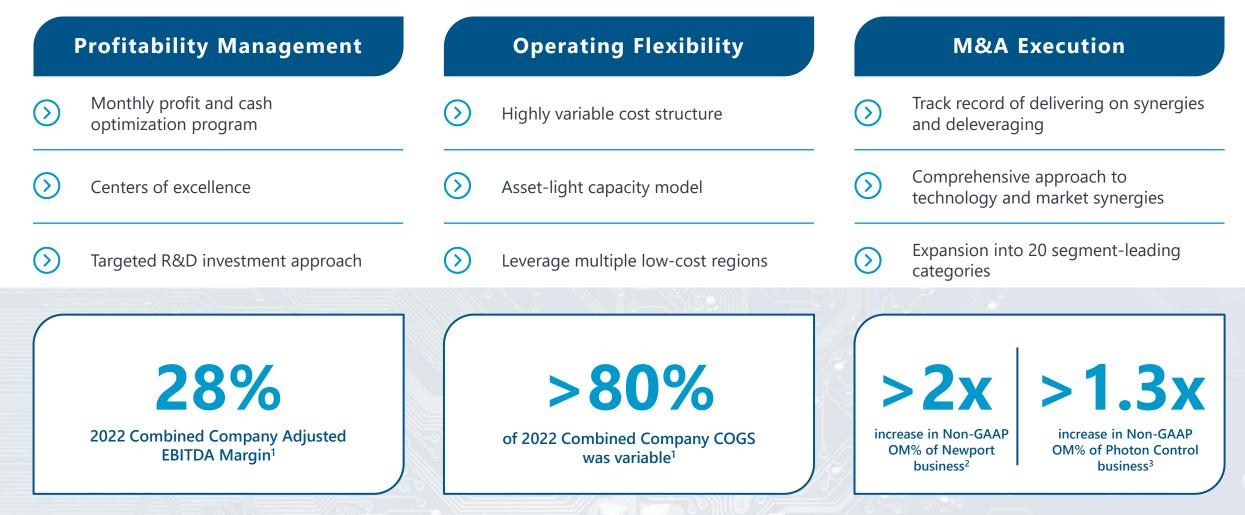


¹ See Slide 3 for additional information regarding the calculation of combined company results



Financial Discipline is Core to MKS' DNA

Experienced leadership with proven execution track record



¹ See Slide 3 for additional information regarding the calculation of combined company results. ² Compares Non-GAAP operating margin of the Newport business for the twelve-months ended December 31, 2016. ³ Compares Non-GAAP operating margin of the Photon Control business for the twelve-months ended December 31, 2022 with the twelve-months ended December 31, 2021.



Capital Deployment Focused on Long-Term Value Creation





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Miniaturization, complexity and chemistry drive the innovations that power our world

Attractive growth profile

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Appendix



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2015 Revenue by End Market and Market Str	eam	
		MKS
Semiconductor	\$	562
Non-Semiconductor		252
	\$	814
Semiconductor		69%
Non-Semiconductor		31%
Equipment	\$	697
Services		116
	\$	814
Equipment		86%
Services		14%

2022 Revenue by End Market and Market Stream

	ŗ	ИКЅ	ΑΤΟΤ	ЕСН	 COMBINED COMPANY			
Semiconductor	\$	2,041	\$	-	\$ 2,041			
Electronics & Packaging		541		590	1,131			
Specialty Industrial		964		313	1,277			
	\$	3,547	\$	903	\$ 4,450			
Semiconductor		58%		0%	46%			
Electronics & Packaging		15%		65%	25%			
Specialty Industrial		27%		35%	29%			
Equipment	\$	2,683	\$	91	\$ 2,774			
Services		428		37	465			
Consumables		436		775	1,211			
	\$	3,547	\$	903	\$ 4,450			
Equipment		76%		10%	62%			
Services		12%		4%	11%			
Consumables		12%		86%	27%			

See Slide 3 for additional information regarding the calculation of combined company results of MKS and Atotech In millions



2015 Non-GAAP Gross Margin, Adjusted EBITDA and Adjusted EBITDA Margin

Revenue	\$ 814
Gross profit	363
Sale of previously written down inventory	(2)
Non-GAAP gross profit	\$ 361
Non-GAAP gross margin	44%
Net income	\$ 122
Interest expense, net	(3)
Provision for income taxes	37
Depreciation	15
Amortization of intangible assets	7
Stock-based compensation	13
Sale of previously written down inventory	(2)
Restructuring and other	2
Adjusted EBITDA	\$ 192
Adjusted EBITDA margin	24%

In millions



2022 Adjusted EBITDA and Adjusted EBITDA Margin

Combined Company		Q4'22 Q3'22		Q2'22		Q1'22		Total		МКЅ	Q3'22		Q2'22		Q1'22	
Net income	\$ 5	54	\$ (12)	\$1	50	\$	187	\$	379	Net income	\$	54	\$	130	\$	143
Interest expense, net	8	33	105		21		20		229	Interest expense, net		79		6		6
Provision for income taxes	1	11	33		51		46		141	Provision for income taxes		44		26		28
Depreciation and amortization	ç	96	73		65		67		301	Depreciation and amortization		28		28		28
Stock-based compensation	1	13	13		17		11		54	Stock-based compensation		10		13		8
Acquisition and integration costs	1	11	71		2		9		93	Acquisition and integration costs		30		2		8
Acquisition inventory step-up	1	13	39		—				52	Restructuring and other		—		3		2
Restructuring and other		1	5		3		3		12	Gain on sale of long-lived assets		—		—		(7)
Gain on sale of long-lived assets	-				—		(7)		(7)	Currency hedge gain		—				(5)
Currency hedge gain	-						(5)		(5)	Adjusted EBITDA	\$	245	\$ 2	208	\$	211
Management fee	-				1		1		2							
Adjusted EBITDA	\$ 28	32	\$ 327	\$3	310	\$	332	\$1,	251	Atotech						
										Net income	\$	(66)	\$	20	\$	44
Revenue								\$ 4,	450	Interest expense, net		26		15		14
Adjusted EBITDA							_	\$ 1,	251	Provision for income taxes		(11)		25		18
Adjusted EBITDA margin								ź	28%	Depreciation and amortization		45		37		39
										Stock-based compensation		3		4		3
										Acquisition and integration costs		41				1
										Acquisition inventory step-up		39		_		_
										Restructuring and other		5		_		1
										Management fee		_		1		1
										Adjusted EBITDA	\$	82	\$	102	\$	121

Combined Company combines the results of MKS (excluding Atotech/MSD for Q3'22) and the results of Atotech/MSD (including full quarter results for Q3'22) in millions



Non-GAAP Operating Margin Newport Business¹

	2016	2022
Revenue	\$602	\$862
Income (loss) from operations	(1)	196
Acquisition and integration costs	27	_
Restructuring and other	_	1
Acquisition inventory step-up	15	_
Amortization of intangible assets	32	15
Non-GAAP income from operations	\$73	\$212
Non-GAAP operating margin	12.1%	24.6%

Non-GAAP Operating Margin Photon Control Business²

	2021	2022
Revenue	\$64	\$71
Income from operations	7	16
Acquisition and integration costs	7	_
Restructuring and other	_	_
Amortization of intangible assets	8	14
Non-GAAP income from operations	\$21	\$31
Non-GAAP operating margin	32.8%	43.9%

¹ Reconciliation of Non-GAAP operating margin of the Newport business for the year ended December 31, 2022 and the year ended December 31, 2016 ² Reconciliation of Non-GAAP operating margin of the Photon Control business for the year ended December 31, 2022 and the year ended December 31, 2021 In millions

