

Onto Innovation

Investor Presentation

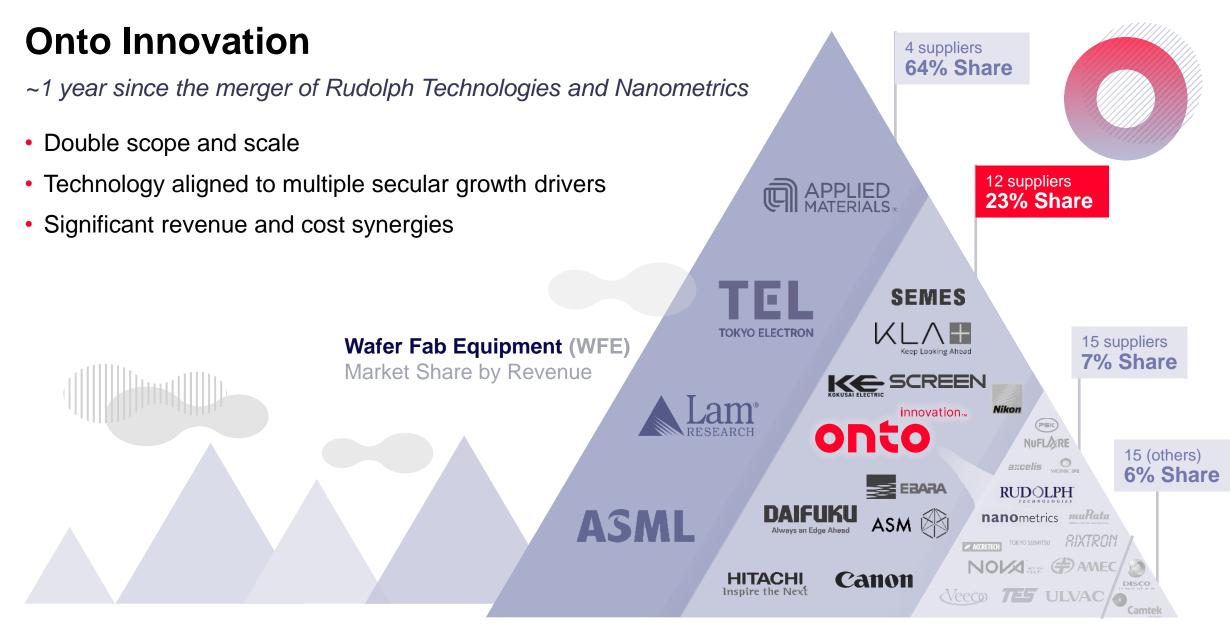
JANUARY 2021



Safe Harbor

- The information presented herein contains forward-looking statements that relate to anticipated future operating results and performance. These statements are only predictions based on management's current expectations and assumptions, including market size and forecasted growth, Total Available Market (or "TAM"), Served Available Market (or "SAM") and revenue estimates, and necessarily involve risks and uncertainties. We do not assume any obligation to update the information provided. Actual events or results may differ materially from those projected, including as a result of changing industry and market trends, reduced demand for our products, the timely development of our new products and their adoption by the market, increased competition in the industry, price reductions and other subsequent developments and business conditions. Additional information and considerations regarding the risks faced by Onto Innovation are available in our Form 10-K reports for the year ended December 2019 and other filings with the Securities and Exchange Commission.
- This presentation includes non-GAAP financial measures which are not intended to be considered in isolation or as a substitute for the financial information prepared and presented in accordance with GAAP. Management uses both GAAP and non-GAAP measures when evaluating the business internally and therefore believes it is important to make these non-GAAP measures available to the financial community. Reconciliations of non-GAAP measures to the most relevant GAAP amounts are included in the Company press releases.
- As the forward-looking statements are based on Onto Innovation's current expectations, the company cannot guarantee any related future results, levels of activity, performance or achievements. Onto Innovation does not assume any obligation to update the forward-looking information contained in this presentation.



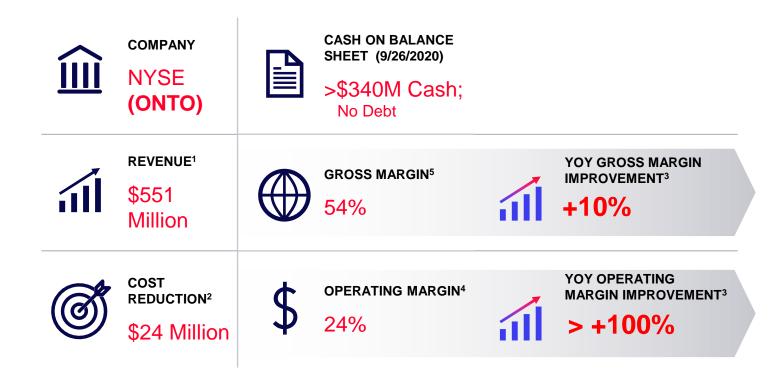


Source: Company Rank Order based on 2019 Share of Total WFE Revenue, Gartner Market Share Data, May 2020



Onto Innovation Snapshot

High tech capital equipment company specializing in optical process solutions for semiconductor and related markets

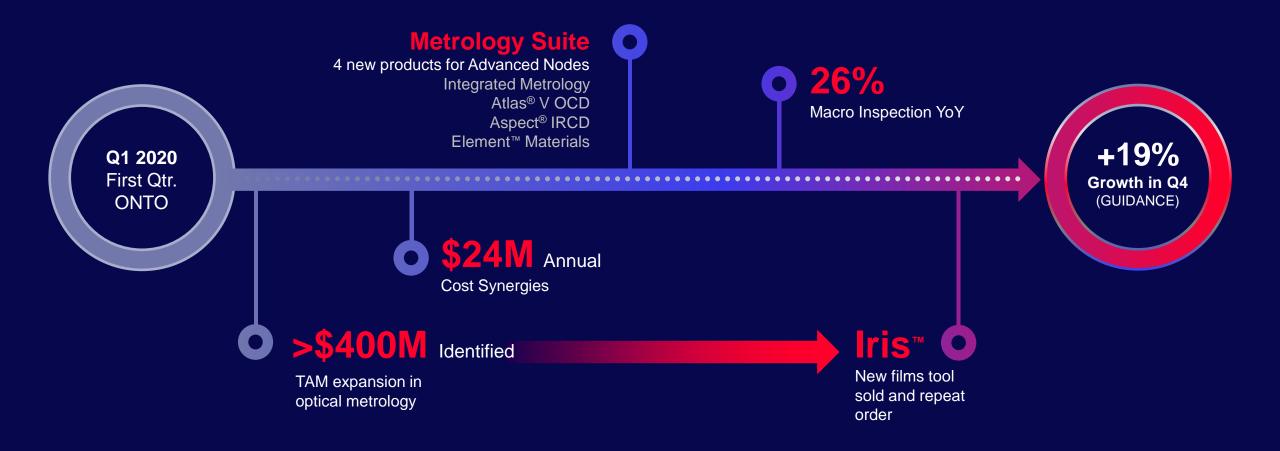




Note 1: 2020 YTD actual results plus Q4 guidance mid-point Note 2: Implemented cost synergies from the Nanometric / Rudolph merger Note 3: Forecasted Q4-19-Q4-20 YoY change based on mid-point of Q4-20 guidance Note 4: Forecasted based on mid-point of Q4-20 guidance.



Onto Innovation Achievements in 2020

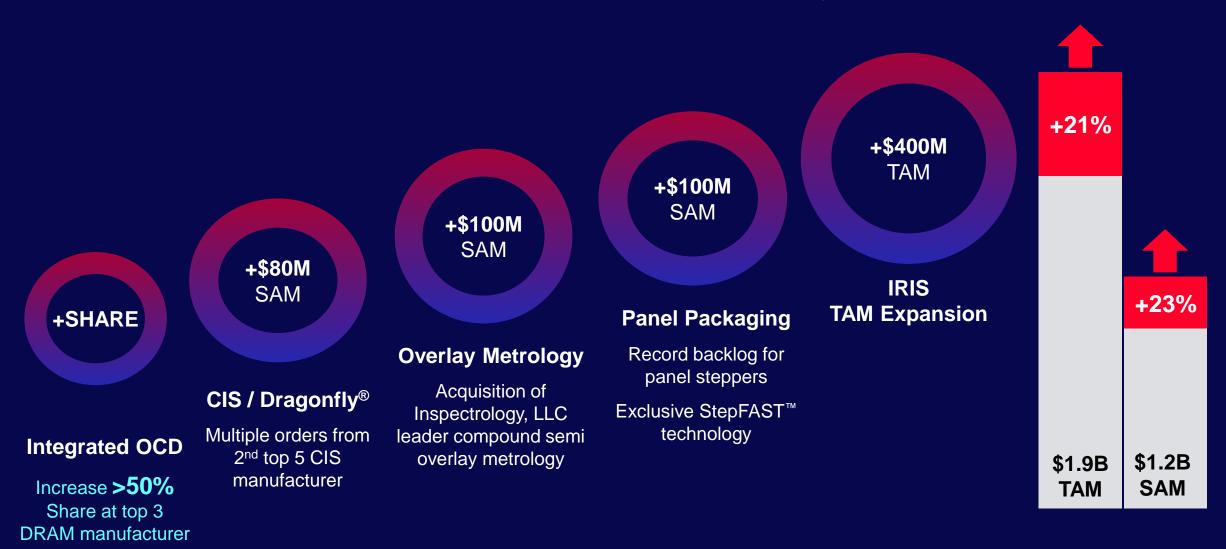


NEW COMPANY, STRONG FOUNDATION, AND MOMENTUM FOR GROWTH!



More Opportunities in 2021!

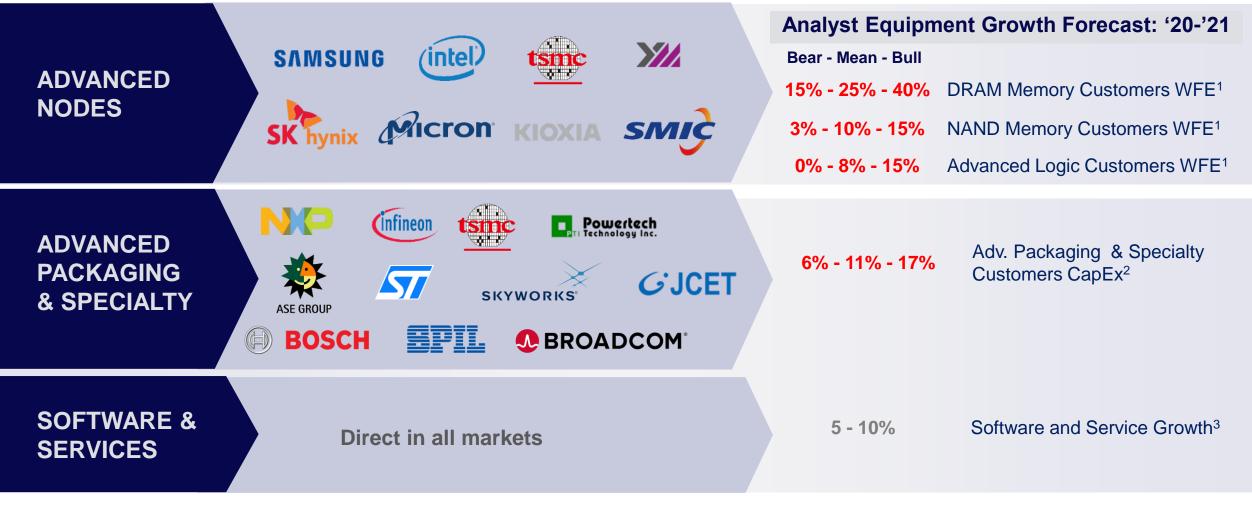
Foundation laid in 2020 expands both total available and served markets by over 20%





Research Points to Strong CapEx Growth Across Our Markets

CapEx growth provides tailwinds for Onto Innovation's process control growth

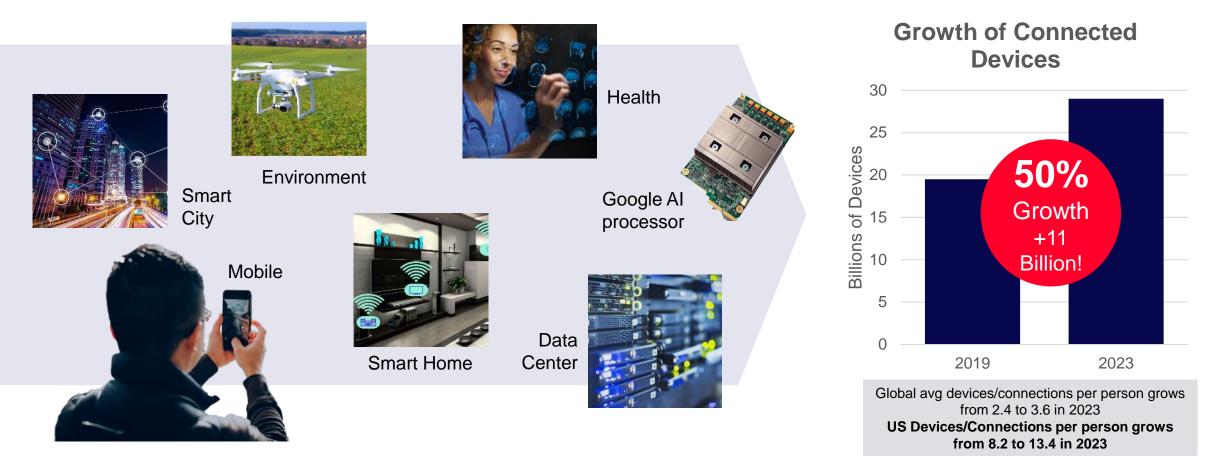


Note 1: 13 Analysts' Estimate Ranges, Dec 2020 Note 2: 6% Gartner Forecast – 17% TechSearch Advanced Packaging Report, August 2020 Note 3: Company Historic YoY growth (proforma)



"Data Era" Driving Multiple Secular Growth Industries

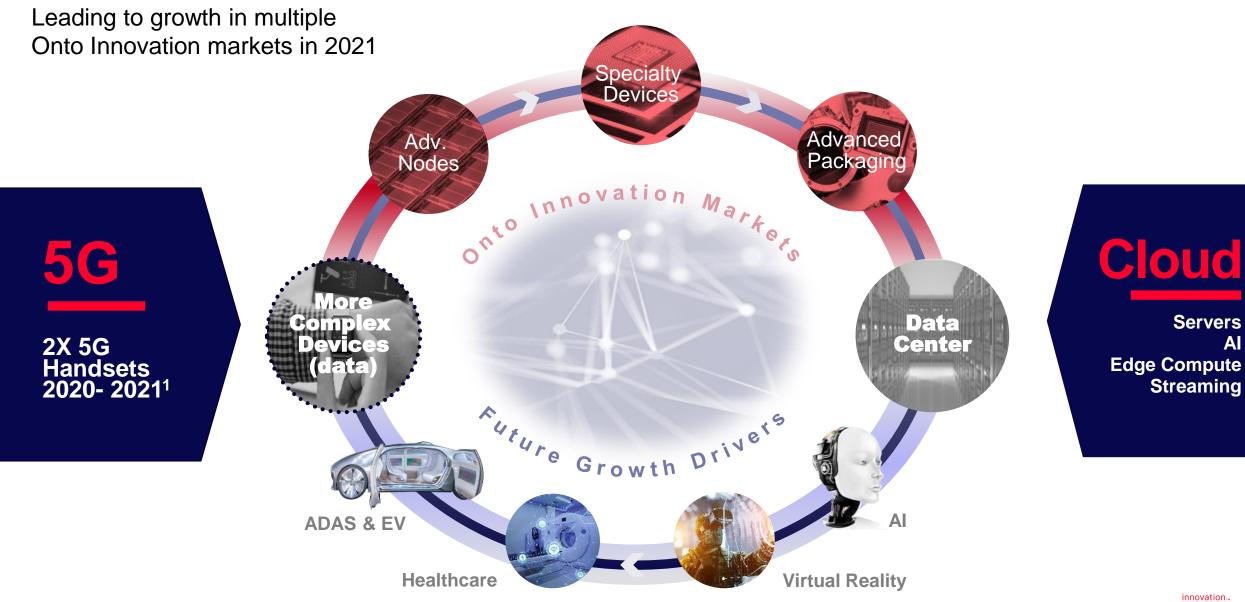
Advances in memory and transistor architectures enable growth in multiple industries



Source: Cisco Annual Internet Report, 2020



5G and Cloud Contribute to Virtuous Cycle



Servers

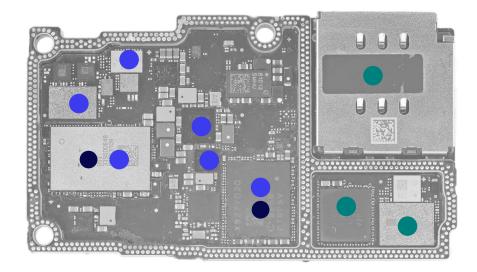
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AI

5G Enabled Handsets Drive Outsized Growth

~90% of devices measured / inspected by Onto Innovation



Advanced Nodes

Atlas, IMPULSE, Aspect

- Processors
- DRAM
- 3D-NAND

Advanced Packaging

Dragonfly, Firefly, JetStep

- Processors
- System-in-Package (Chiplets)
- 3D Packages

Specialty Devices

Dragonfly, MetaPULSE

- RF Modules
- Cameras
- Sensors

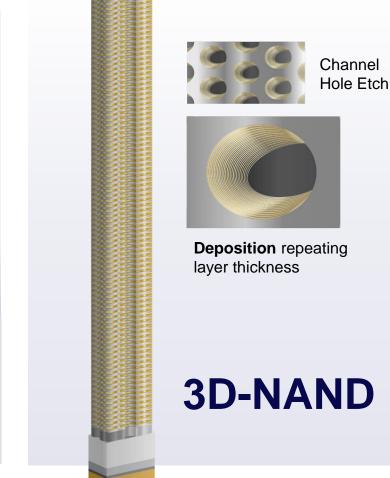
5G Handset Multiplier Effect

2X More Memory 2X More RF Content >100 Advanced Packages

New Product Suite Measures the Most Challenging Dimensions

Advanced logic and memory driven by high-performance computing, AI, IoT, autonomous driving

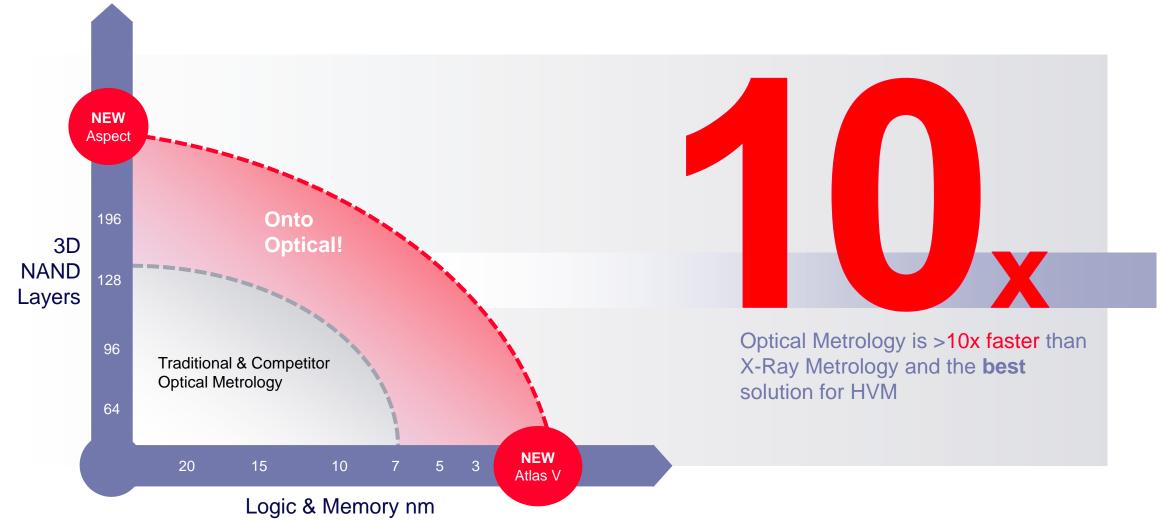




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Our Advantage? We Take Optical Metrology Beyond our Peers!

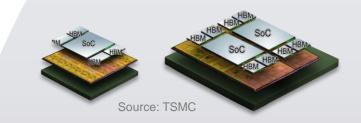
Achieve better results, faster, with optical vs X-ray

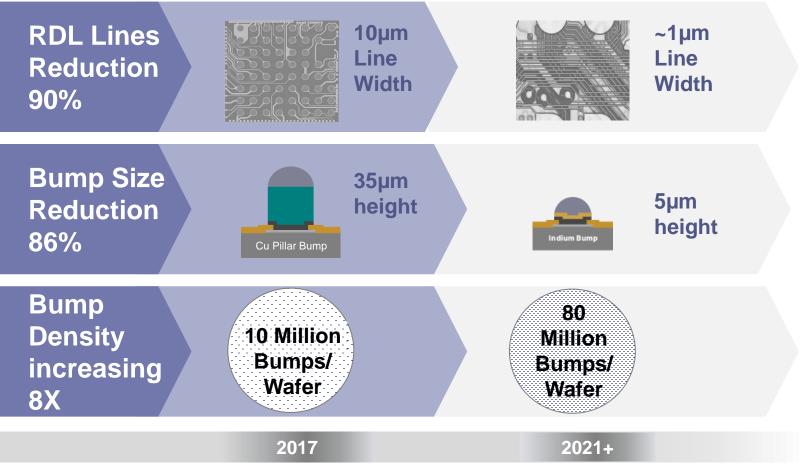




Top 5 Semiconductor Manufacturers are Accelerating the Advanced Packaging Roadmaps

Onto Innovation's inspection platforms lead the way





~22%

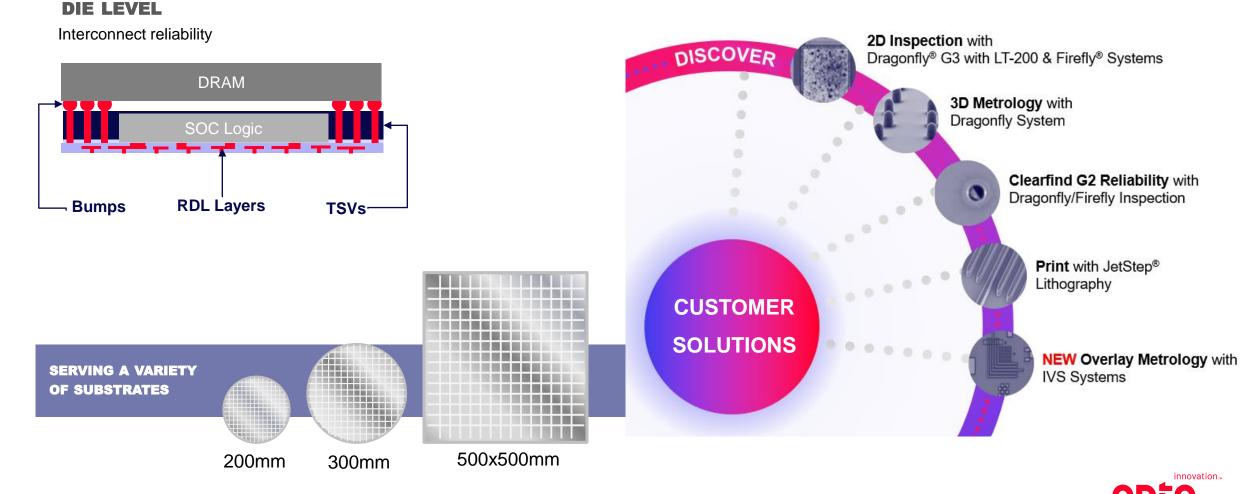
Increase in Onto Innovation Share 2018-2020¹

Note 1: Company Estimate share of packaging process control at the top 5 largest semiconductor manufacturers



Complete Suite of Technology for Packaging and Specialty Devices

We print, measure, and inspect the most advanced process technologies in packaging



COMPREHENSIVE PROCESS SOLUTIONS

Expanding our Solution Suite with Overlay Metrology

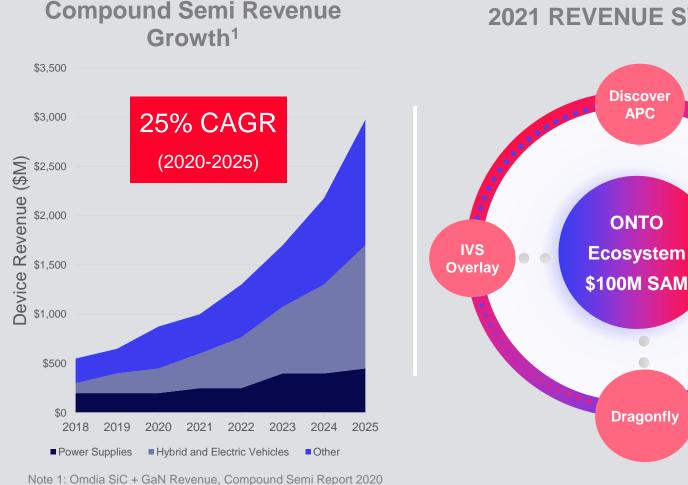
Leading technology in a nascent but rapidly expanding market



>300 systems in use worldwide

Estimated 80% share in compound semi overlay market

Custom optics and software for transparent substrates



2021 REVENUE SYNERGIES

3rd Party

Lithography

Why Invest in Onto Innovation?

TECHNOLOGY



Strong adoption of new products expanding our markets. Further supported by projected across our markets.

OPERATIONS



Global operations supporting diverse ~150 customer base. Long term financial model with \$5 per share earnings power

BALANCE SHEET



\$340M Cash, No Debt, FCF 24% of revenue Fuel for strategic M&A



Thank You

Onto Higher Yields Onto Higher Margins Onto Higher Productivity Onto Innovation

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Operating Model (Appendix)



Organic Growth Resulting from Share Gains & Potential to Enter New Addressable Markets

Annual Revenue	\$600M Model	\$800M Model	\$1B Model
Gross Margin	54% - 55%	55% - 56%	56% - 57%
Operating Profit	24% - 25%	29% - 30%	32% - 33%
Earnings per Share	\$2.40 - \$2.50	\$3.85 - \$4.00	\$5.05 - \$5.25

*Non-GAAP Long Term Financial Model: excludes amortization and merger costs; includes stock-based compensation

Long-term Operating Model*