



nanomet

advanced process control systems and

OCD
METROLOGY

3D
PACKAGING

THIN FILM
METROLOGY

MATERIALS
CHARACTERIZATION

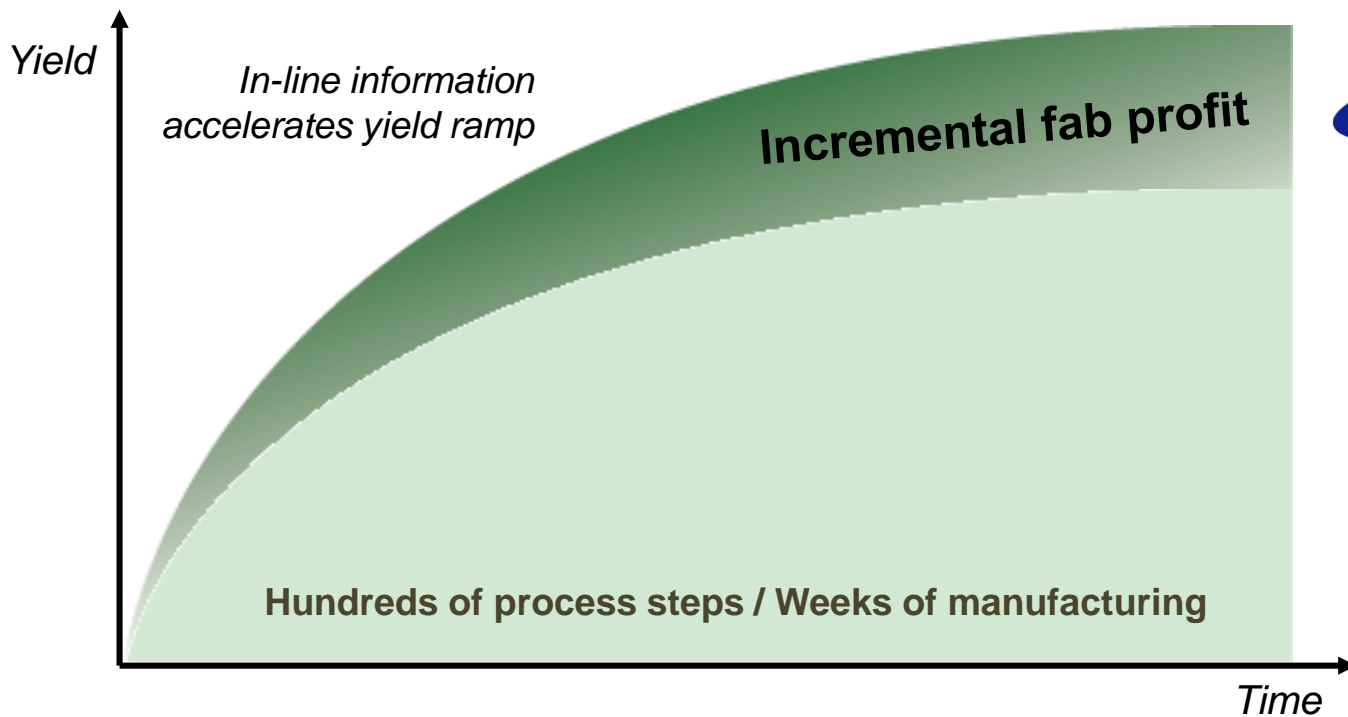
Investor Presentation **18th Annual Needham Growth Conference**

Dr. Timothy J. Stultz, President and
Jeffrey S. Andreson

Forward-Looking Statements

This communication contains forward-looking statements within the meaning of the safe harbor provisions of the Securities Litigation Reform Act of 1995, including, but not limited to statements regarding Nanometrics' ("us" or "the Company") future financial results, including, but not limited to our market share, industry demand and growth. Forward-looking statements are not guarantees of future performance, involve certain risks, uncertainties and assumptions that are difficult to predict, and are based upon assumptions as to future events that may not prove accurate. Therefore, actual results and results may differ materially from what is expressed herein. In any forward-looking statement in which Nanometrics expresses an expectation or belief as to future results, such expectation or belief is expressed in good faith and we have a reasonable basis, but there can be no assurance that the result will be achieved. The risks and uncertainties include, but are not limited to: our ability to achieve desired product mix and pricing; our ability to achieve desired market position; growth in target industries; levels and timing of capital expenditures in our target industries; customer concentration; certain technologies; market acceptance and timing of acceptance of our new products; interruptions or changes in our supply chain; our ability to identify, complete and integrate acquisitions; and other economic, business, competitive and regulatory factors affecting Nanometrics' businesses generally, including those set forth in Nanometrics' filings with the SEC, including its Annual Report on Form 10-K for its most recent fiscal year, its most recent Quarterly Report on Form 10-Q and its Current Reports on Form 8-K. All forward-looking statements included in this communication are based on information available to Nanometrics on the date hereof. We disclaim any intent or obligation to update public forward-looking statements, whether in response to new information, future events, or otherwise.

Nanometrics Process Control Accelerating Yield and Profit



bare patterned semiconductor

NANO: Leading Solutions for In-Line Process Control

Comprehensive Suite of Highly-Differentiated Systems and Solutions



Atlas / Lynx

IMPULSE

NanoCD

UniFire

Utilizing High-Speed, Non-Destructive In-Line Technologies



Ellipsometry



Scatterometry



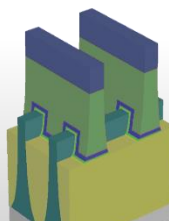
Interferometry



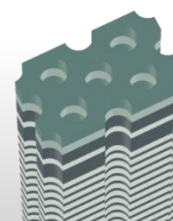
Photoluminescence

Technology Inflection Points Expanding Our Market, Footprint and Share

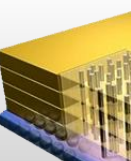
FinFET



3D NAND



Advanced 3D Packaging



Qualified for All Advanced Device Process Com

Atlas: OCD & Films



100% of Devices
at 16/14 nm &
below

Logic | DRAM | Foundry

Integrated Metrology: OCD &

> 80% of All
NAND Flash

IMPULSE, T3



1X-1Y-1Z | G1-G3 3D NAND

UniFire: Advanced Packaging



80% of Devices
at 16/14 nm &
below

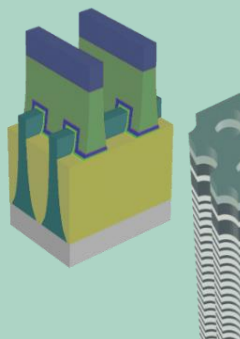
100% DRAM
TSV

Logic | DRAM | Foundry

NanoDiffract: Modeling/Analyti

100% of Devices
22nm & below

50% of Image
Sensors



Logic | DRAM | Foundry | NAND/3D

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