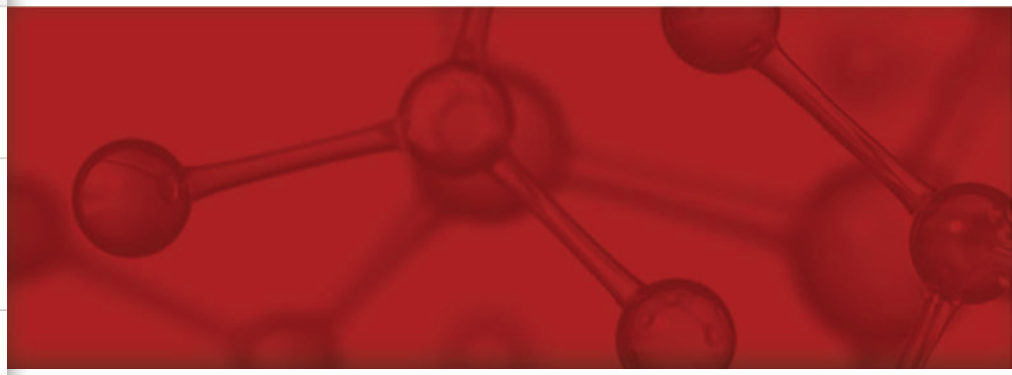
A World Class Advanced Materials Company

Investor and Analyst Day

November 17, 2020

Agenda

	Topic	Speaker
1	Positioned for Growth	Bertrand Loy President and CEO
2	Differentiation and Competitive Advantage	Todd Edlund EVP and COO
3	Innovating for Growth	James A. O'Neill, Ph.D. SVP and CTO
4	Financial Strength and Flexibility	Greg Graves EVP and CFO
5	Q&A	All



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Safe Harbor

This presentation contains, and management may make, forward-looking statements. The words “believe,” “expect,” “anticipate,” “intend,” “estimate,” “forecast,” “project,” “should,” “may,” “will,” “would” or the negative thereof and similar expressions are intended to identify such forward-looking statements. These forward-looking statements include statements related to future period guidance; future revenue, operating margin, non-GAAP earnings per share, return on invested capital and other financial metrics; future repayments under the Company's credit facilities; the Company’s performance relative to its markets, including the drivers of such performance; market and technology trends, including the duration, scale and drivers of any growth trends; the impact, financial or otherwise, of any organizational changes; the development of new products and the success of their introductions, including revenue goals for such products; the Company's capital allocation strategy, which may be modified at any time for any reason, including share repurchases, dividends, debt repayments and potential acquisitions; the impact of the acquisitions the Company has made and commercial partnerships the Company has established; the Company’s ability to execute on its strategies; and other matters. These risks and uncertainties include, but are not limited to, risks related to the Covid-19 pandemic on the global economy and financial markets, as well as on the Company, our customers and suppliers, which may impact our sales, gross margin, customer demand and our ability to supply our products to our customers; weakening of global and/or regional economic conditions, generally or specifically in the semiconductor industry, which could decrease the demand for the Company’s products and solutions; the Company’s ability to meet rapid demand shifts; the Company’s ability to continue technological innovation and introduce new products to meet customers' rapidly changing requirements; the Company’s concentrated customer base; the Company’s ability to identify, complete and integrate acquisitions, joint ventures or other transactions; the Company’s ability to effectively implement any organizational changes; the Company’s ability to protect and enforce intellectual property rights; operational, political and legal risks of the Company’s international operations; the Company’s dependence on sole source and limited source suppliers; the increasing complexity of certain manufacturing processes; raw material shortages, supply constraints and price increases; changes in government regulations of the countries in which the Company operates; fluctuation of currency exchange rates; fluctuations in the market price of the Company’s stock; the level of, and obligations associated with, the Company’s indebtedness; and other risk factors and additional information described in the Company’s filings with the Securities and Exchange Commission, including under the heading “Risks Factors" in Item 1A of the Company’s Annual Report on Form 10-K for the fiscal year ended December 31, 2019, filed on February 7, 2020, and in the Company’s other periodic filings. The Company assumes no obligation to update any forward-looking statements or information, which speak as of their respective dates.

This presentation contains references to “EBITDA,” “Adjusted EBITDA Margin,” “Adjusted Operating Margin” and “Non-GAAP Earnings per Share” that are not presented in accordance GAAP. The non-GAAP financial measures should not be considered in isolation or as a substitute for GAAP financial measures but should instead be read in conjunction with the GAAP financial measures. Further information with respect to and reconciliations of such measures to the most directly comparable GAAP financial measure can be found attached to this presentation.

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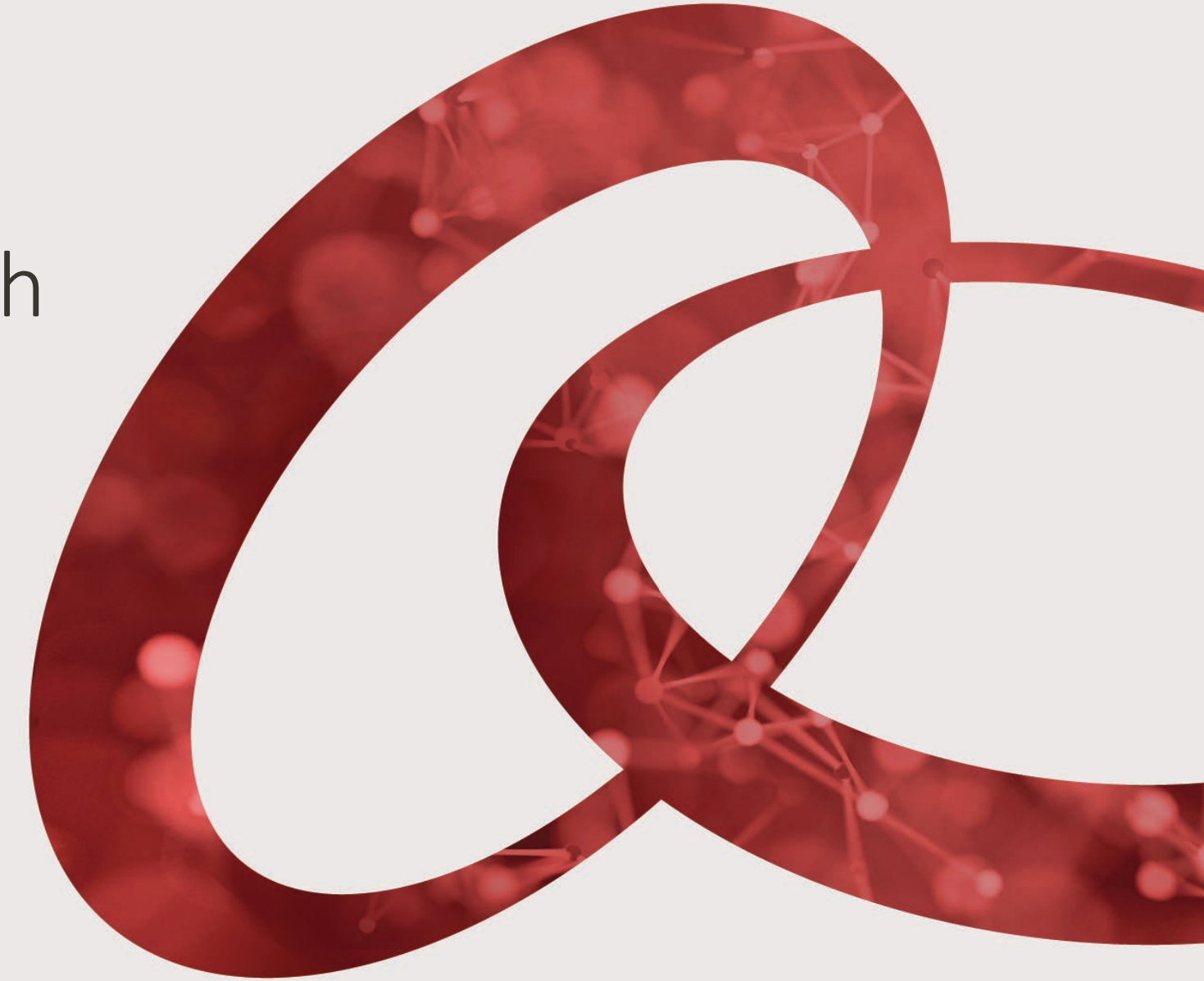
Positioned for Growth



Bertrand Loy

President and CEO

Entegris

Entegris at a Glance

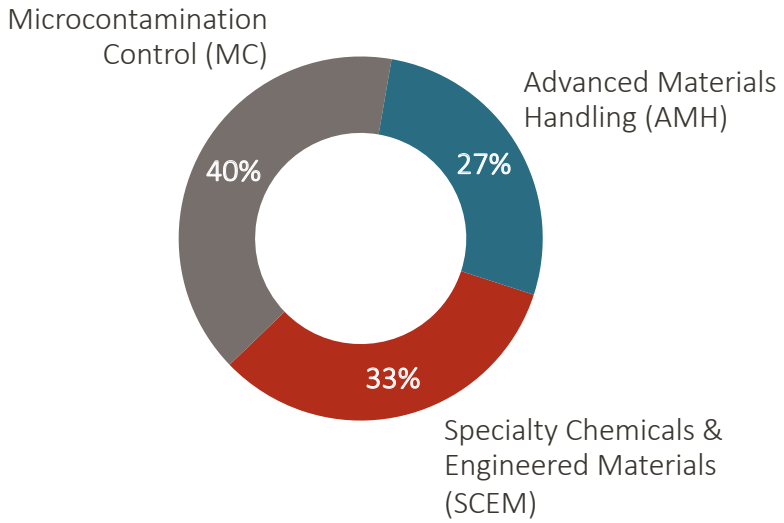
Founded
1966

2020 Revenue[1]
$1.8B

Headquarters
Billerica, MA

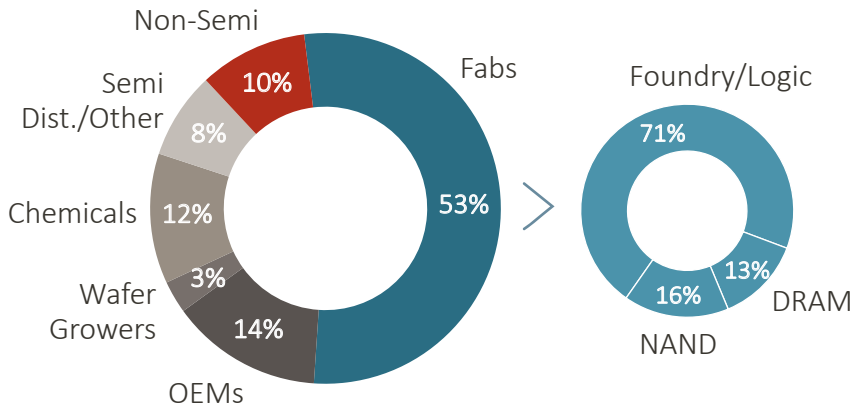
Employees
5,000+

Divisions[2]



Sales by Customer Type[3]

90% semiconductor



Our Mission

To help our customers improve their productivity, performance and technology by providing enhanced materials and process solutions for the most advanced manufacturing environments

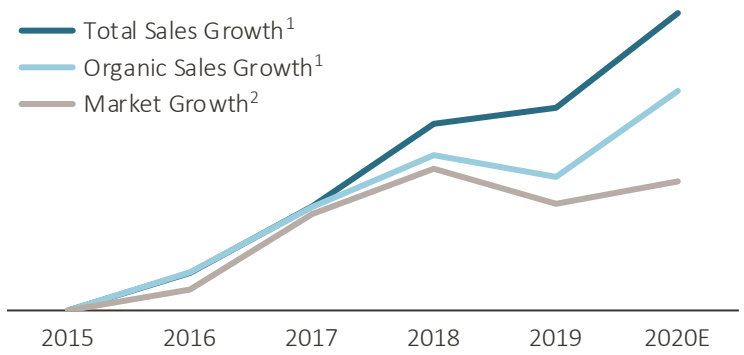
[1] Assumes midpoint of guidance for 2020 (provided on 10/22/20). [2] Percentage of Entegris revenue (2020 estimate). [3] Q1-Q3 2020.

Our Platform is Differentiated and Resilient…

Recurring Revenue

~70%
UNIT DRIVEN

Sales Growth vs. Market



"Sticky" Solutions	• Products spec'd into nodes • High switching cost • Long product tails
Broad Product Offering	• 15,000+ products • No single product platform >4% of sales
Diverse Customer Base	• One customer over 10% of sales • Top 10 customers ~45% of sales • Sell across supply chain (fabs ~50% of sales)

…and agnostic to specific technology shifts

[1] Indexed – assumes midpoint of guidance for 2020 (provided on 10/22/20).
[2] Market is a CapEx and MSI blended index – 70% MSI and 30% CapEx.

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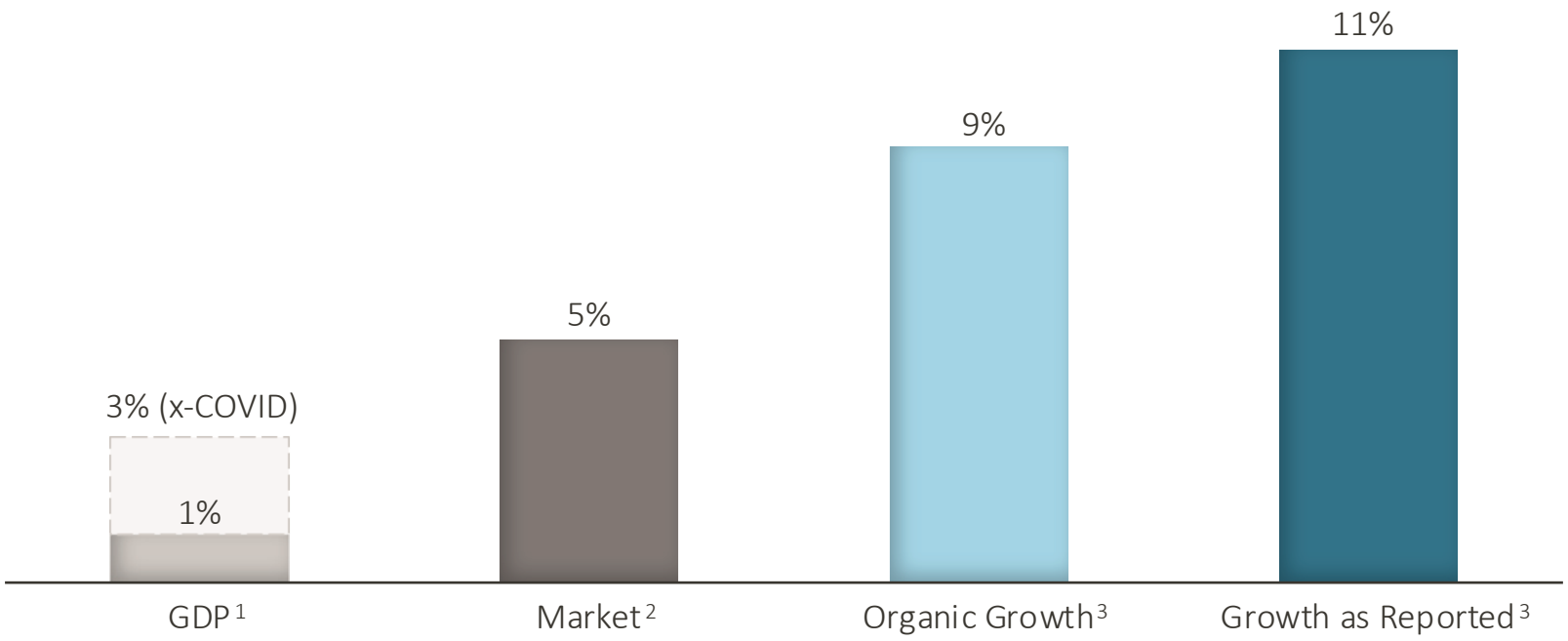
An Exciting Growth Story…

2015-2020 CAGR

Entegris Revenue Growth vs. GDP and Industry



[1] GDP CAGR from pre-COVID-19 forecast was 3%. [2] Market is a CapEx and MSI blended index – 70% MSI and 30% CapEx.
[3] 2015-2020 CAGR – assumes midpoint of guidance for 2020 (provided on 10/22/20).

…With More Potential Ahead

- Our core semi markets are poised for strong secular growth
- Our value proposition is increasingly important to the semiconductor industry
- Catching new technology inflections will allow us to outgrow the market
- Maintaining our differentiation will help us gain share
- Our capital allocation choices will continue to be targeted and value enhancing

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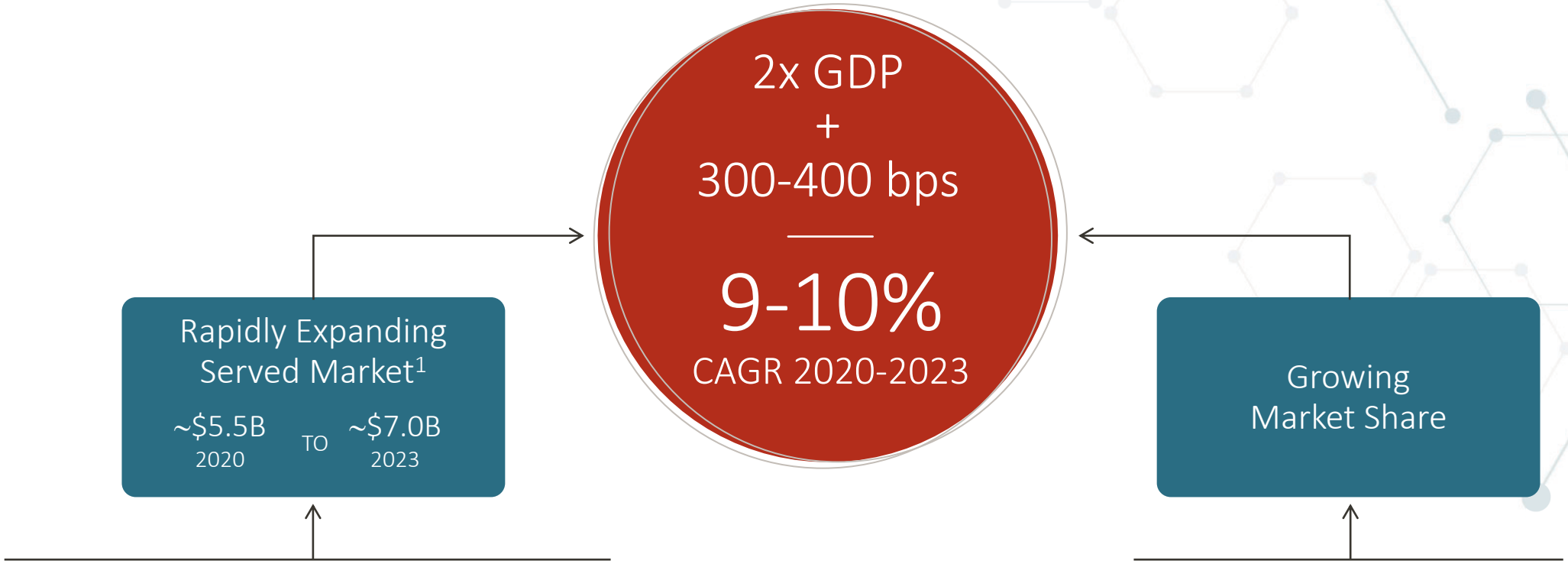
Organic Sales Growth Formula



1. Accelerating chip demand
2. Growing Entegris content per wafer
3. More wafers produced at the leading edge

- Technology leadership
- Operational excellence
- Unique customer engagement

[1] Entegris estimates.

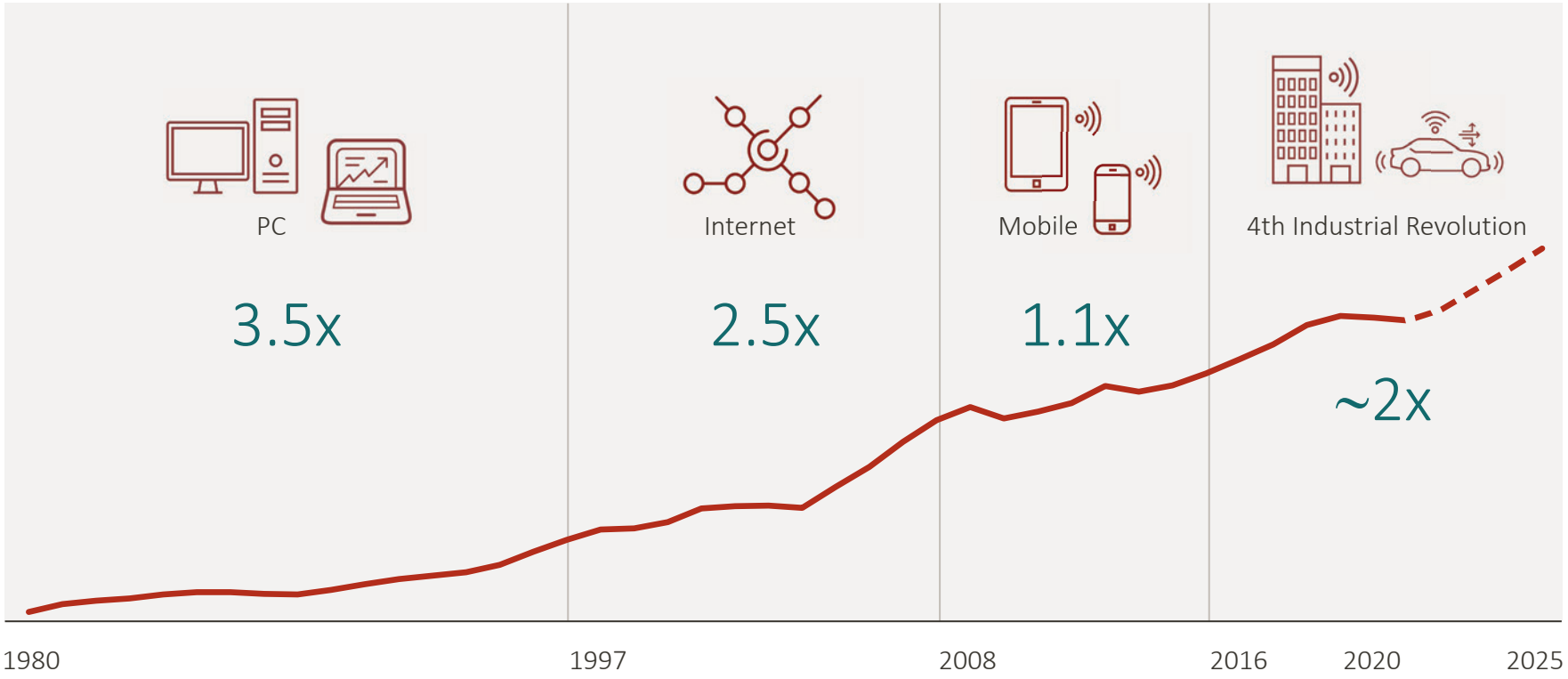
1

The Industry Lift

Our Rapidly Expanding Served Markets

Strong semiconductor demand to continue

Semiconductor MSI Growth[1] vs. GDP Growth[2]



5G

30% IC content increase
5G vs. 4G smartphone

Internet of Things

3x IoT devices in 2025 vs. 2020

Data Explosion

3x annual data creation
2025 vs. 2020

Autonomous Vehicles

50% car BOM cost will be
electronics by 2030

[1] Sources: Entegris analysis and SEMI. Three-year moving average MSI (million square inch of silicon). [2] Source: World Bank.

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2

SAM Expansion

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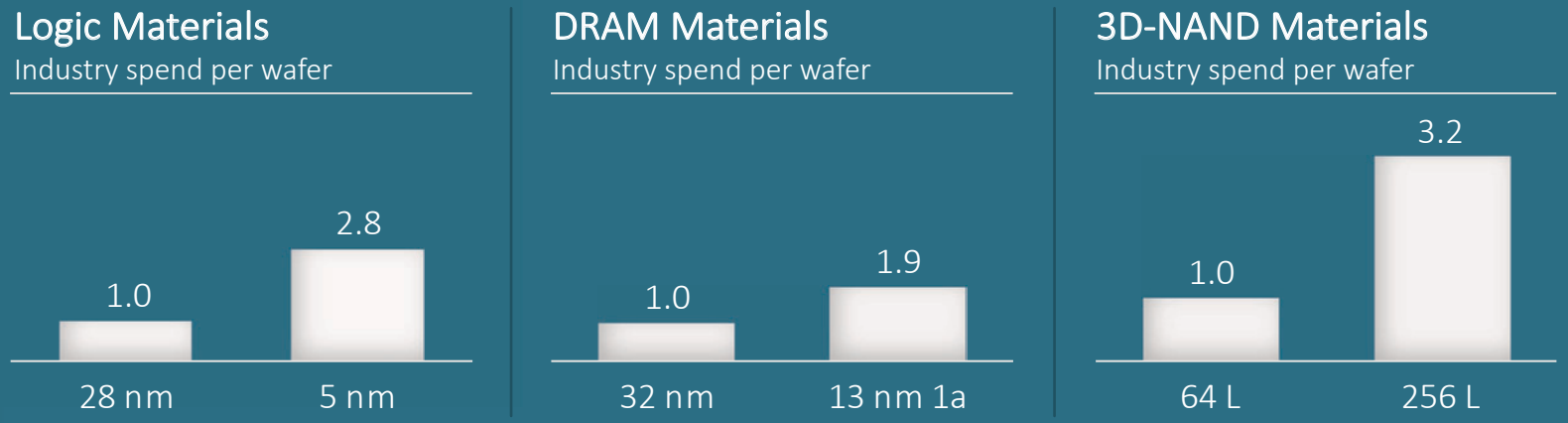
Our Rapidly Expanding Served Markets

2.1 Growing materials content opportunity per wafer – *SCEM*

Materials science is increasingly driving the leading-edge semiconductor industry roadmap

Leading Edge Logic and Memory Materials Spending Increase



What customer problems are we trying to solve?

- High aspect ratio 3D architectures
- Gate all around (GAA)
- New interconnect metals for faster performance to replace W and Cu

Our solutions/opportunities

- Thinner film materials
- Selective wet etch chemicals for 3D structures
- New interconnect metals such as Co, Mo, Ru

Our customers are introducing more complex architectures and are actively searching for new materials with better electrical and structural properties to improve the performance of their devices

Sources: IC Knowledge, Entegris analysis. Represents leading edge only. Materials data has been normalized, and includes ALD and CVD precursors, implant gases, electroplating chemicals, and wet etch/clean chemicals for the per wafer materials spending analysis, products which broadly represent approximately 75% of SCEM leading-edge revenue exposure.

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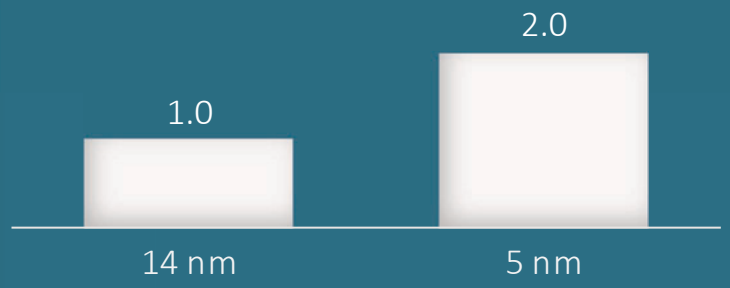
Our Rapidly Expanding Served Markets

2.2 Growing filtration opportunity per wafer – *MC*

Our contamination control expertise is increasingly critical to yield optimization and chip reliability

Leading Edge Logic and Memory Filtration Spending Increase

Liquid Filtration
Revenue per logic wafer



Liquid Filtration
Revenue per 3D-NAND wafer

What customer problems are we trying to solve?

- Enable further miniaturization
- Enable new metals susceptible to new contaminants
- Maximize yields and throughput
- Increase device long-term reliability

Our solutions/opportunities

- Selective removal of new classes of contaminants
- Sieving and non-sieving methods
- Tighter retention and higher flow rate

Our customers understand that greater process purity translates to a reduction of killer defects and latent defects

Source: Entegris analysis. Represents leading edge only. Liquid filtration data has been normalized and includes Entegris liquid filtration and purification product sales to fabs for both bulk and point-of-use applications in WEC, photolithography, and CMP, products which broadly represent approximately 60% of MC leading-edge revenue exposure.

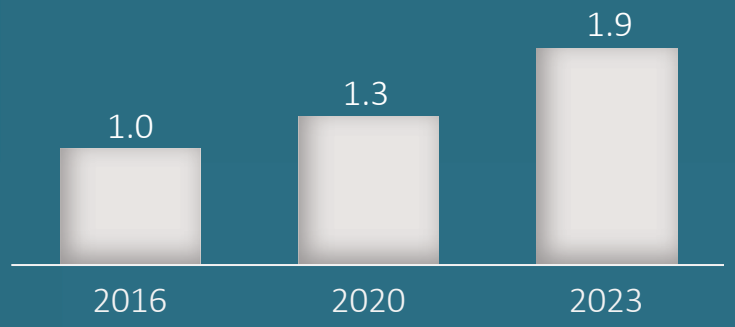
Our Rapidly Expanding Served Markets

2.3 Purity requirements across the supply chain on the rise – *MC and AMH*

Our comprehensive product portfolio and intimate application knowledge set us apart to provide end-to-end solutions across industry supply lines

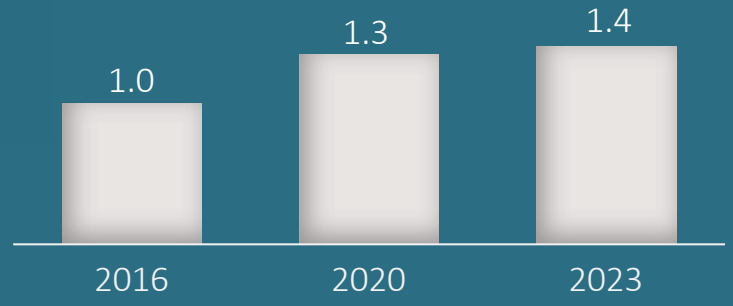
Annual Chemical Shipments in SEMI Industry

In gallons



Liquid Filtration Spending per Shipment

Revenue per gallon



What customer problems are we trying to solve?

- Greater purity levels required in bulk chemical manufacturing
- Greater number of chemistries subject to these increasing purity requirements
- Integrity, purity, and safety needed to be ensured during transportation and delivery through the fab

Our solutions/opportunities

- More advanced filters used in bulk chemical manufacturing
- More points of filtration across the ecosystem
- More frequent filter replacement required
- Migration away from metal and glass containers to adopt polymer-based high purity packaging solutions

Our semiconductor fab customers expect tighter control over purity and integrity of critical process chemistries from bulk manufacturing to point of dispense

Sources: Linx and Entegris. Data has been normalized, and includes photoresist and ancillaries, CMP slurry, formulated cleans (post etch and post CMP), and commodity cleans (acids, solvents, IPA, and other chemicals).

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More Wafers Produced at the Leading Edge

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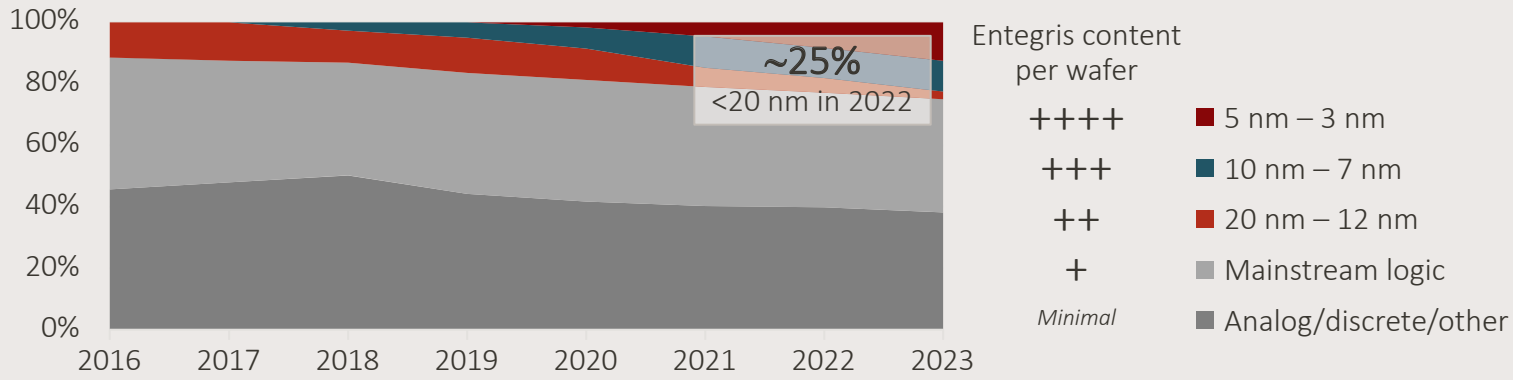
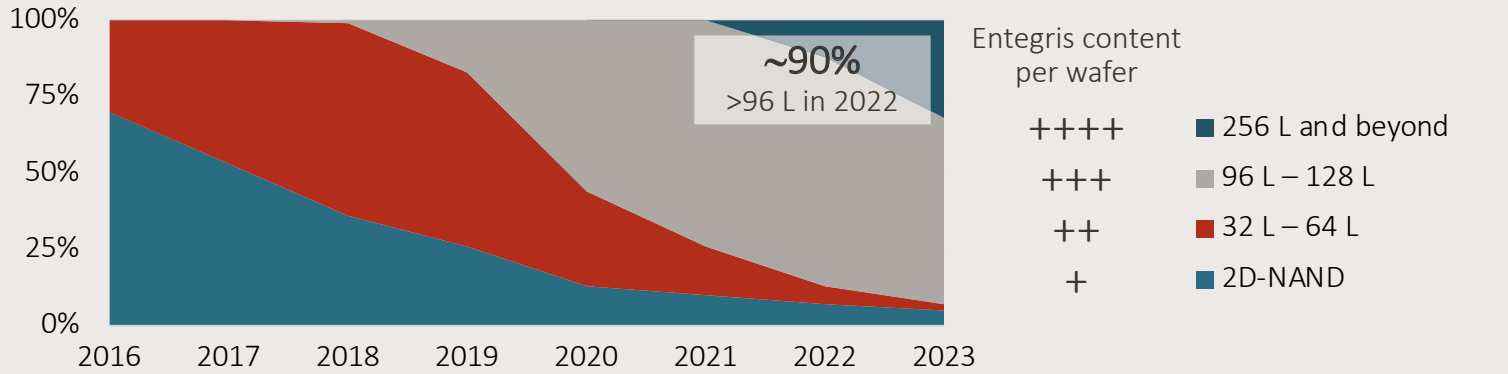
More Wafers Produced at the Leading Edge

Accelerating wafer transitions to advanced architectures where we enjoy greater content per wafer

Leading Edge Logic Capacity by Node[1]



NAND Capacity by Technology[2]



- 5G/AI will drive migration to faster and larger computing devices
- Data explosion will drive memory to higher storage density architectures

Source: Gartner, SEMI, company reports, Entegris analysis. [1] Percent of total non-memory industry capacity. [2] Percent of total NAND industry capacity.

4

Enhancing Our Differentiation

Gaining Share

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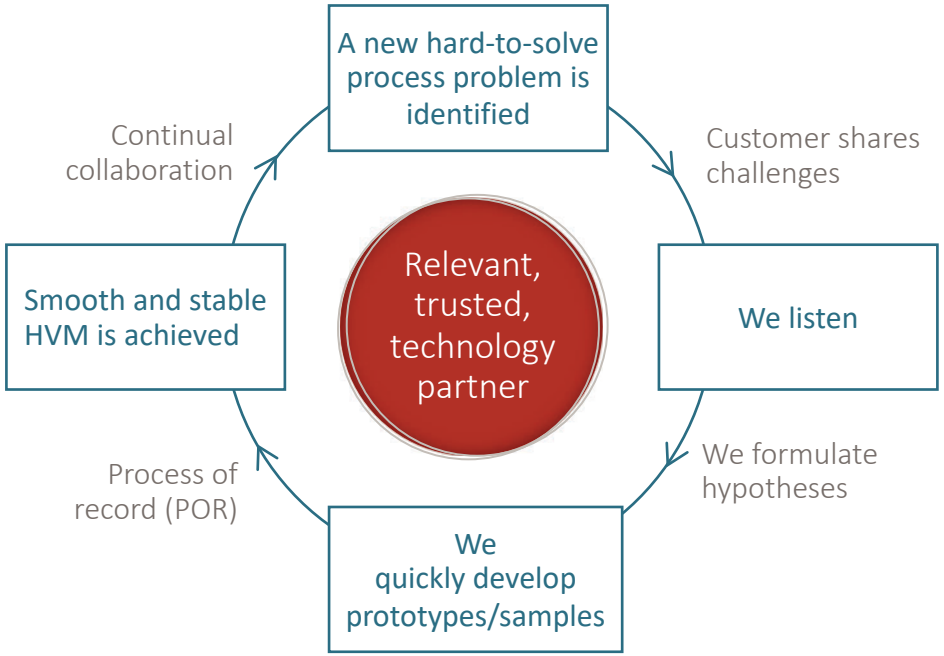
Our Customer-Driven Innovation Model…

Customer-driven Innovation

Our Entegris Flywheel



+

Our Value Proposition

…drives shared organization purpose and competitive advantage

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5

M&A Approach

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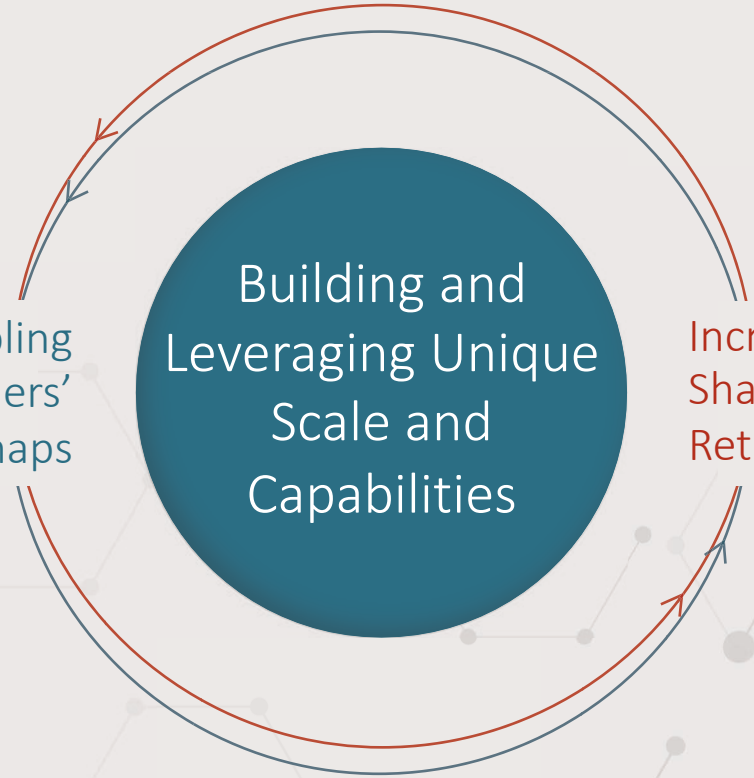
Targeted Acquisitions to Strengthen Fit and Purpose Compounding Value for our Customers and Shareholders

HOW?

- New materials
- New separation technology
- Select sensing and control
- Next-gen packaging and delivery solutions



HOW?

- Accretion year two
- High-single digit ROIC year three
- Growth enhancing

Expanding our served markets
Solidifying our competitive position

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6

Financial Objectives

2023 Illustrative Financial Model

~$2.4B
SALES

~20%
ROIC

$3.75
TO
$4.00
NON-GAAP EPS

Includes capital allocation scenarios

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7

CSR Approach

Our CSR Program

Innovation

Using our legacy of innovation to enable technologies that transform the world and have a positive impact on people throughout the global community

2030 Goals

1. Invest at least 55% of OpEx in R&D
2. Commit 100% of innovation portfolio to advance our customers' technology roadmaps
3. Align 100% of innovation portfolio to advance the U.N. sustainable development goals (SDG)

Safety

Ensuring safety in the workplace for our colleagues and in the products we deliver for our customers

2030 Goals

1. Strive for an injury-free work environment at all Entegris facilities
2. Create an environment where >95% of colleagues say "Entegris is a safe place to work"
3. Achieve 100% manufacturing participation rate in proactive reporting of safety opportunities

Personal Development and Inclusion

Supporting the development and growth of our colleagues and striving to create a diverse and inclusive environment where everyone is treated with respect and dignity

2030 Goals

1. Invest >$30 million in STEM scholarships and engineering internships for women and individuals from under-represented communities
2. More than 50% of the new engineers we hire will be women and/or individuals from underrepresented groups

   Aim to achieve 50% diversity among board members
3. Increase participation in real-time learning opportunities and internal training hours by more than five times the hours completed in 2020

Sustainability

Limiting the impact that our global operations have on the environment by reducing our consumption of energy and water and by relying on electricity produced from renewable sources

2030 Goals

1. Reduce energy consumption by more than 20% per revenue dollar
2. Achieve 100% electricity consumption generated from renewable sources, where available
3. Decrease water consumption by more than 50% per revenue dollar

www.entegris.com/csr

What we do as a business must be inextricably linked to what we stand for as an organization and have a lasting, positive impact on our world

Six Reasons to Own Entegris

1. Exciting industry with secular growth
2. Accelerating exposure to key technology inflections
3. Strong competitive moats
4. Resilient business model
5. Highly cash generative
6. Disciplined capital allocation with optionality

Entegris is a value compounder

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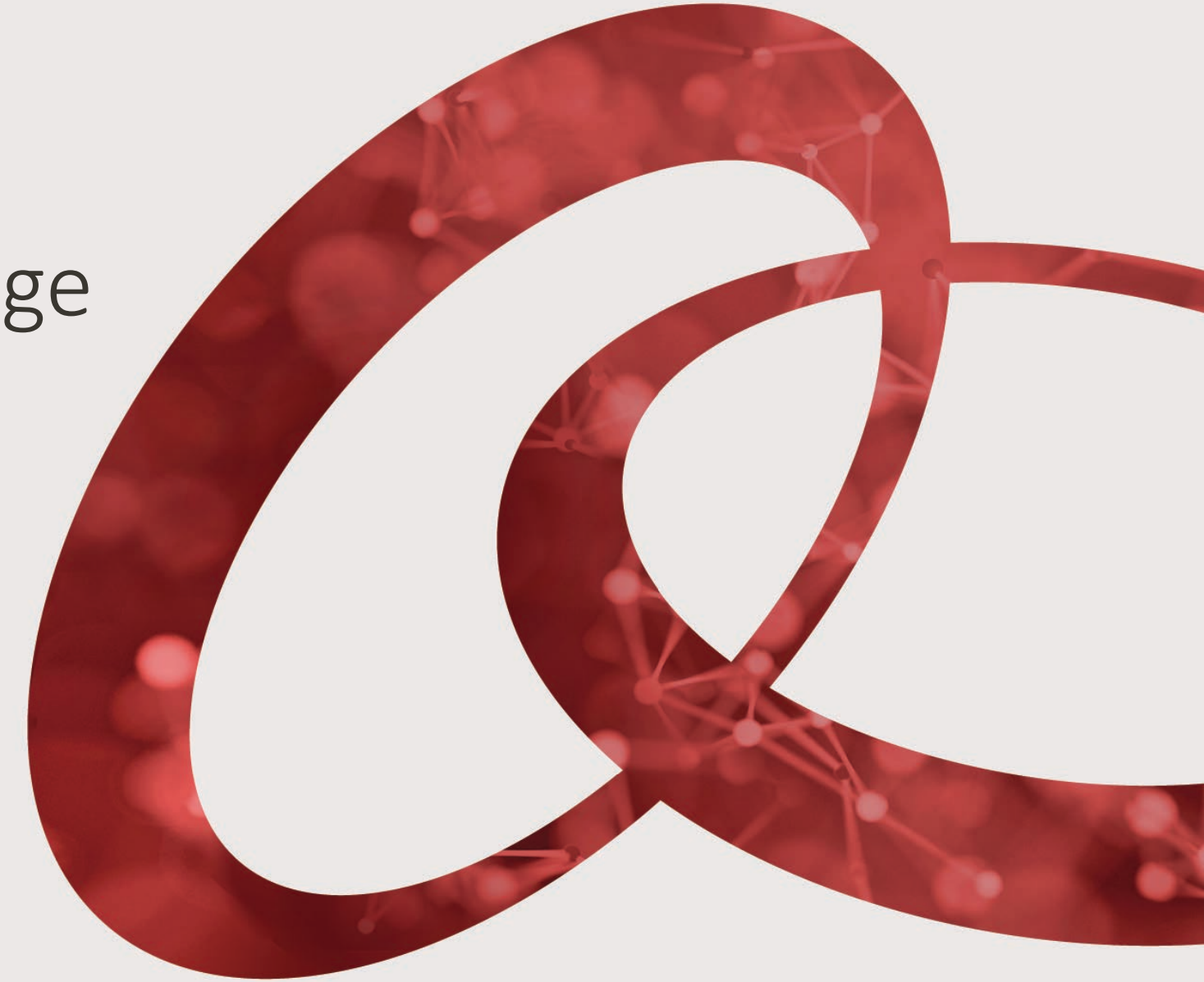
Differentiation and Competitive Advantage



Todd Edlund

Executive Vice President and
Chief Operating Officer

Entegris

Entegris is a Trusted Partner for our Semiconductor Customers

Our Competitive Advantage

Technology Portfolio

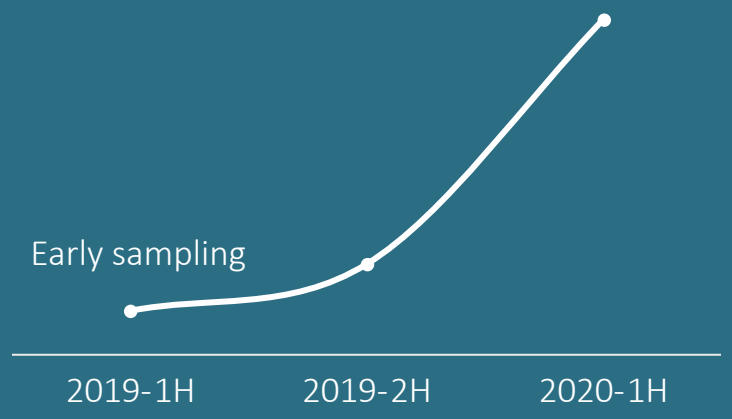
Our Advantage

Applications expertise, close collaboration with our customers, broadest technology portfolio

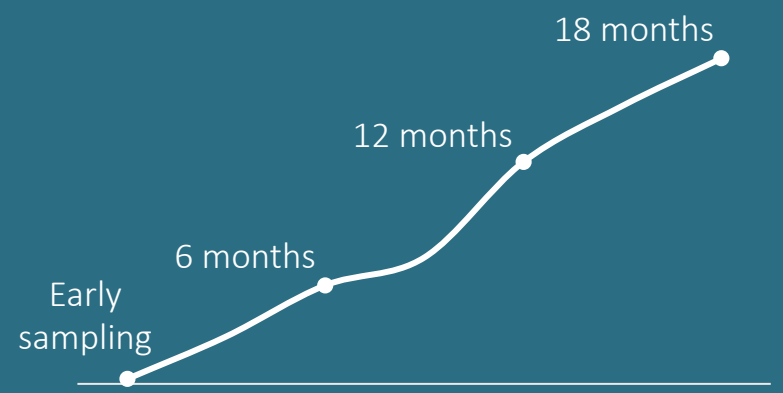
Key areas of competitive advantage:

- Significant R&D investment and IP sharing
- R&D/IP focused on advanced nodes
- Technical resources close to customers
- Trusted tech partner: concept to HVM

Torrento® 2 Filter Production Ramp



Metal Precursor Ramp (ADM)



Source: Entegris product data

Global Infrastructure

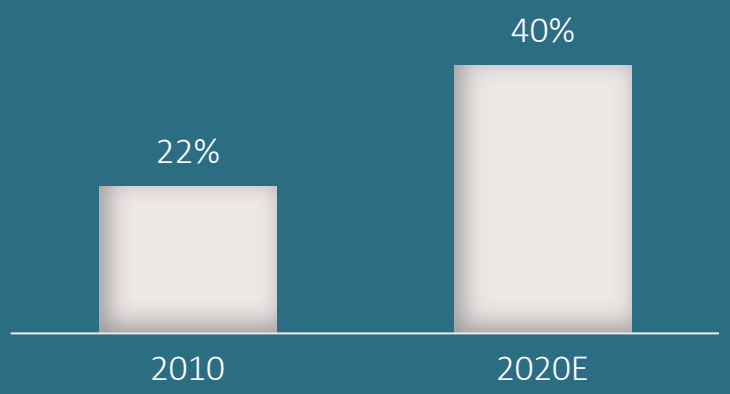
Our Advantage

Global footprint increasingly valued in changing world

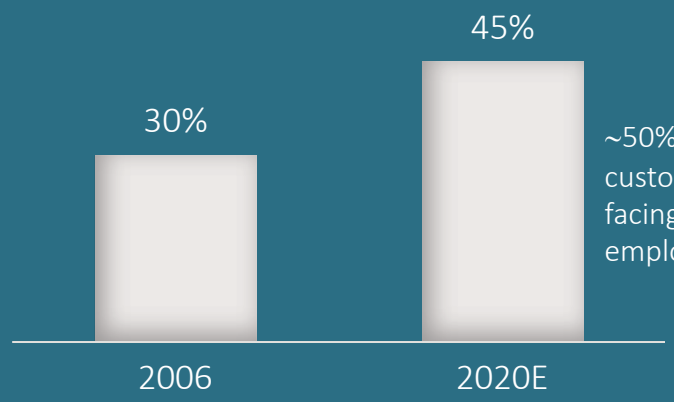
Key areas of competitive advantage:

- Key resources close to customers, local sourcing alternatives
- Continuing to build our Asia footprint – planned Taiwan Manufacturing Center
- Resilient world-class global supply chain and logistics

Revenue from Asia Plants
% of Global



Asia Headcount
% of Global



~50% of customer-facing employees

Source: Entegris sales and headcount data. 2020 estimate.

Operational Excellence

Our Advantage

Intense alignment to demands of our semiconductor customers

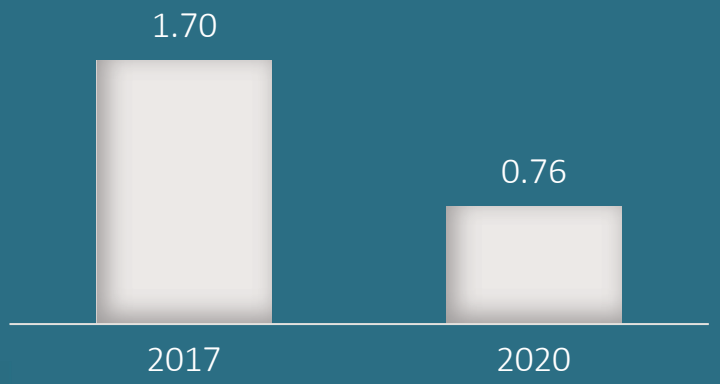
- **Lam Research** 2020 Ramp Performance Award
- **Taiwan Continuous Improvement Awards** 2019 Silver Award
- **Samsung** 2019 Best in Value Award

Three consecutive wins!

Key areas of competitive advantage:

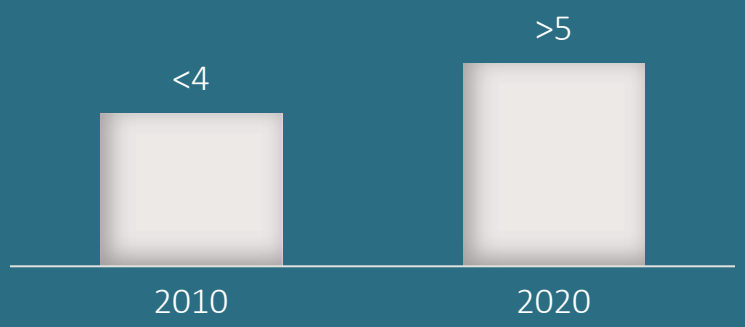
- Global Operations and Supply Chain organization, led from Asia – maximizing portfolio of factories
- Relentless focus on quality and safety
- Our scale can influence materials development
- Automation and big data applications

Total Recordable Injury Rate[1]



Focus on Safety

Sigma Level[2]



Focus on Quality

[1] 2020 is Q320 YTD. Calculation: number of employees injured per year per 100 employees. [2] 2020 is Q320 YTD.

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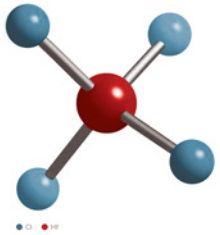
Specialty Chemicals and Engineered Materials (SCEM)

Unit-driven advanced materials – enabling complex chip designs

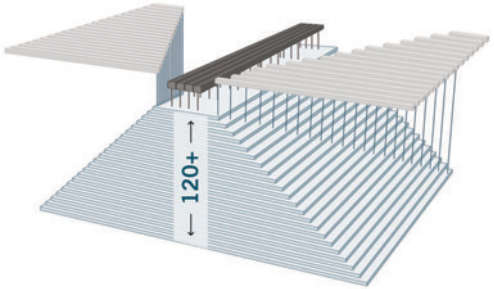
~95% Unit Driven



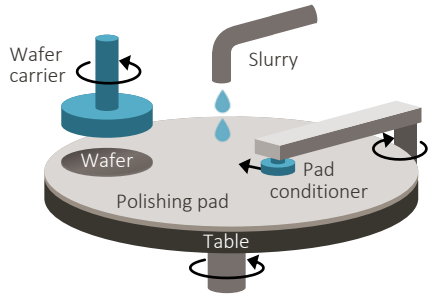
Advanced deposition materials

Specialty chemicals and advanced coatings

Specialty gases



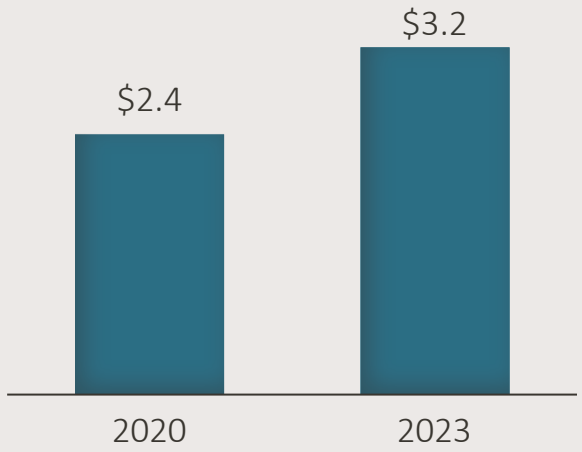
Selective etch chemistries



CMP chemistries and components

SAM[1]

$ in billions



SAM growth drivers:

- Semi growth
- Materials intensity
- Novel materials

[1] SAM includes semiconductor market only. Entegris estimates.

Specialty Chemicals and Engineered Materials (SCEM)

Unit-driven advanced materials – enabling complex chip designs

WHY WE WIN

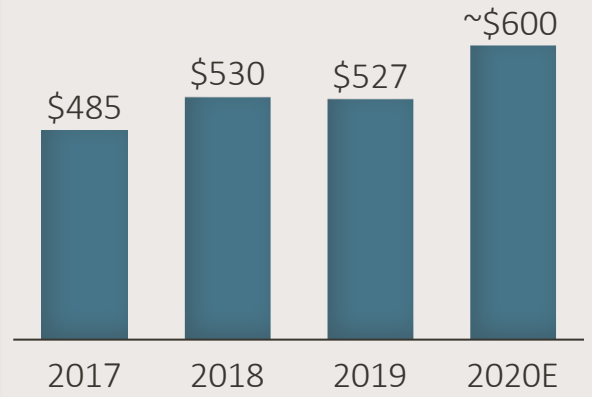
- World leader in safe gas delivery systems
- Advanced metals/solids delivery leader
- Tailored advanced cleaning and selective etch chemistries
- Chemical synthesis = vertical integration

KEY GROWTH OPPORTUNITIES

- Advanced deposition materials
- Selective etch chemistries
- Advanced coatings

2017-2020 Sales
$ in millions

~7% CAGR[1]



Three-year outlook:

Sales growth[2]:
300-500 bps above market

Adj. operating margin[3]: 25-27%

[1] As reported 2017 to 2019. 2020E assumes midpoint of guidance for 2020 (provided on 10/22/20). [2] Organic sales growth. [3] Non-GAAP adjusted measure.

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Microcontamination Control (MC)

Filtration solutions that improve customers' yield, reliability, and cost

70% Unit Driven

Liquid filters and purifiers

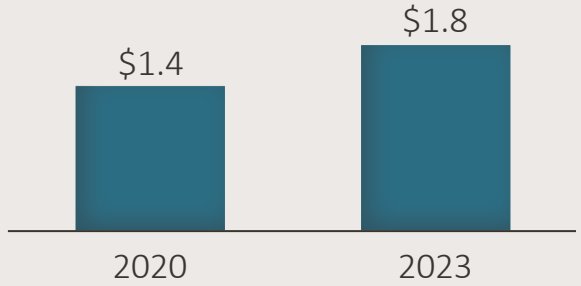
Environmental filters

30% CapEx Driven

Gas filters and purifiers

SAM[1]

$ in billions



SAM growth drivers:

- Semi growth
- Higher purity needs
- Yield challenges

[1] SAM includes semiconductor market only. Entegris estimates.

Microcontamination Control (MC)

Filtration solutions that improve customers' yield, reliability, and cost

WHY WE WIN

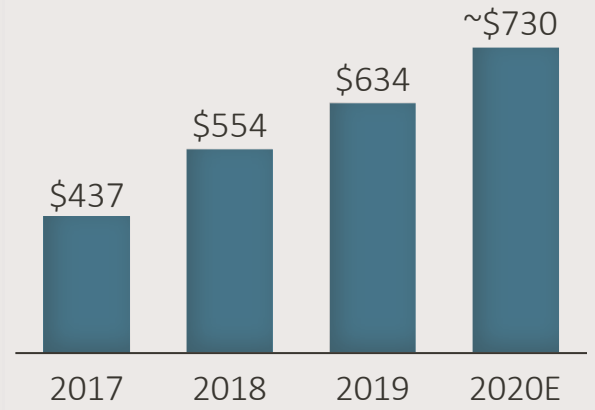
- Separation science – able to direct the roadmap
- Semiconductor focus = applications expertise
- Ability to match solutions to customer challenge and ramp quickly

KEY GROWTH OPPORTUNITIES

- Leading-edge filtration
- Bulk chemical filtration
- Bulk purification
- Non-semi markets

2017-2020 Sales
$ in millions

~19% CAGR[1]



Three-year outlook:

Sales growth[2]:
300-500 bps above market

Adj. operating margin[3]: 34-36%

[1] As reported 2017 to 2019. 2020E assumes midpoint of guidance for 2020 (provided on 10/22/20). [2] Organic sales growth. [3] Non-GAAP adjusted measure.

Entegris

Advanced Materials Handling (AMH)

Solutions that improve customers' yield by protecting critical materials

50% Unit Driven

Liquid packaging

Biologics Bag
(e.g. for COVID-19 medicines)

Wafer and IC shipping

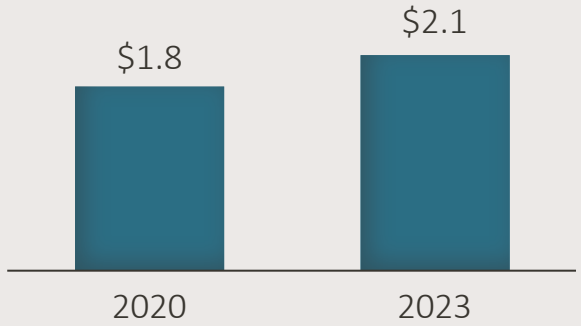
50% CapEx Driven

Wafer handling

Reticle handling

Fluid delivery

SAM[1]
$ in billions



SAM growth drivers:

- Semi growth
- Higher purity needs
- Materials consumption

[1] SAM includes semiconductor market only. Entegris estimates.

Advanced Materials Handling (AMH)

Solutions that improve customers' yield by protecting critical materials

WHY WE WIN

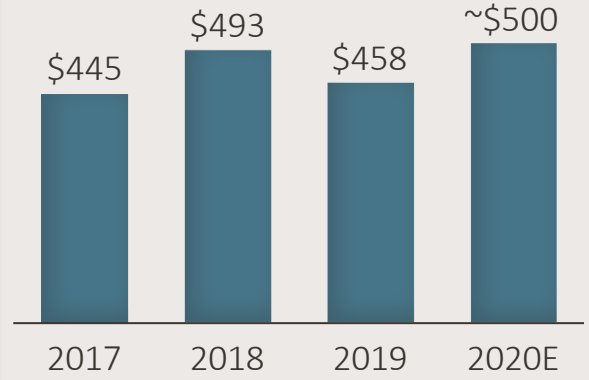
- Uniquely able to serve end-to-end chemical integrity – across divisions
- Sustained leadership in control of microenvironments
- Ability and position to guide polymer development roadmaps

KEY GROWTH OPPORTUNITIES

- Chemical packaging – capacity additions
- EUV lithography
- Environment, sustainability, and safety
- Non-semi markets

2017-2020 Sales
$ in millions

~4% CAGR[1]



Three-year outlook:

Sales growth[2]:
100-200 bps above market

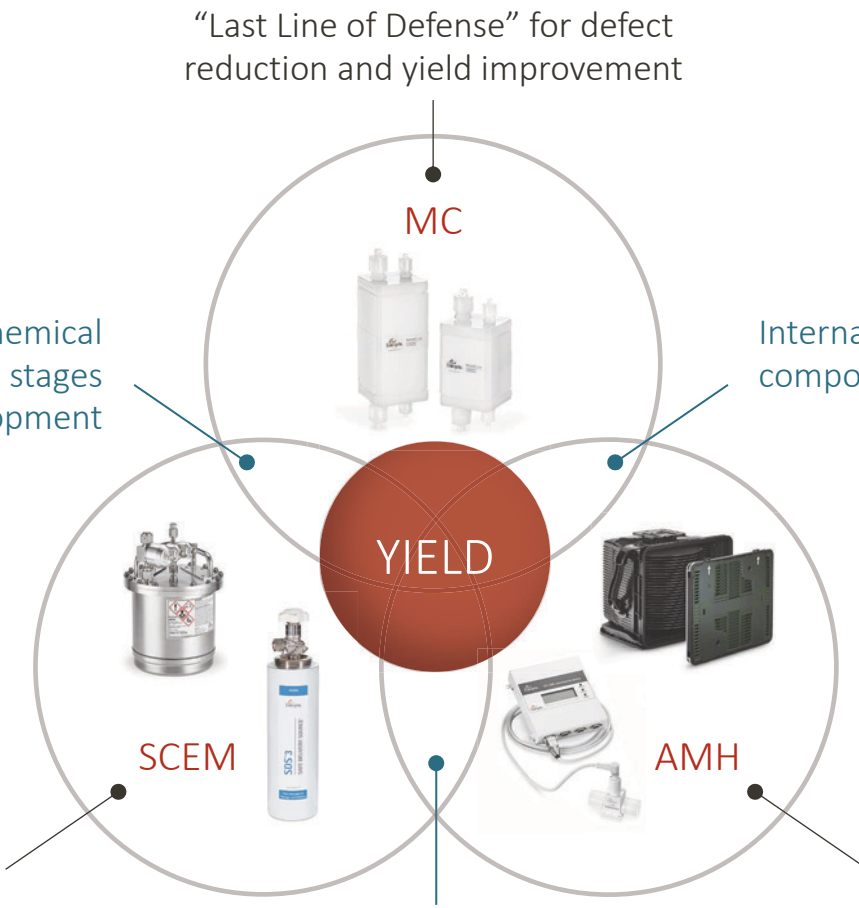
Adj. operating margin[3]: 20-22%

[1] As reported 2017 to 2019. 2020E assumes midpoint of guidance for 2020 (provided on 10/22/20). [2] Organic sales growth. [3] Non-GAAP adjusted measure.

Entegris

Portfolio Advantage of Three Divisions

Collaboration across divisions contributes to share gains



Entegris

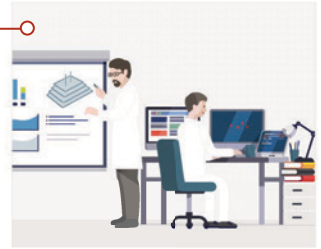
Mission-Critical Solutions for the Entire Manufacturing and Supply-Chain Ecosystem

Entegris: a trusted partner

Comprehensive portfolio of performance materials
- Deposition materials
- Selective etch chemistries
- Formulated cleans
- Doping gases

Capabilities across the materials supply chain
- Small scale production
- Synthesis
- Purification
- Advanced metrology
- Particle size analysis
- Packaging
- Scale-up to HVM

RESEARCH AND DEVELOPMENT

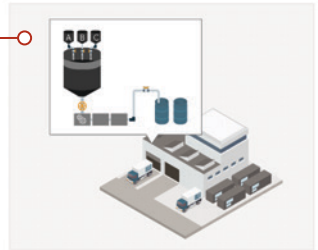


Material integrity and delivery
- Liquid packaging
- Pumps
- Valves
- Tubing
- Fittings
- Liquid filters
- Particle size analysis

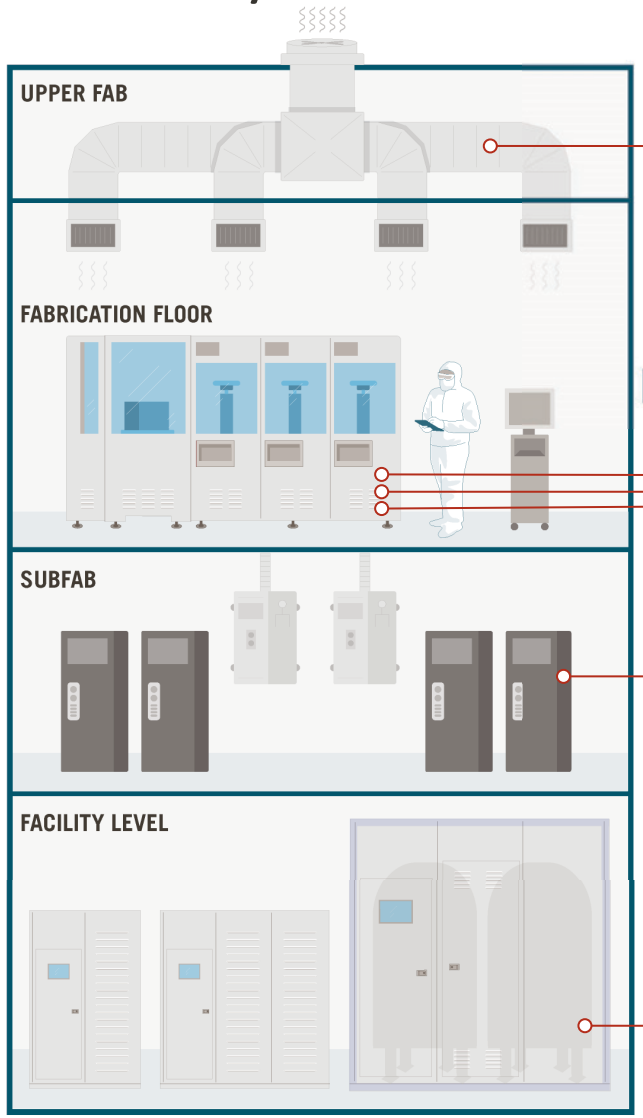
Wafer cleanliness and integrity
- FOSBs
- Particle size analysis

WAFER GROWER

CHEMICAL MANUFACTURER



GAS MANUFACTURER



Environment purity
- AMC filters

Particle and contamination control
- Finished wafer shippers

Substrate cleanliness and integrity
- FOUPs
- Reticle carriers

Material purity
- Gas purifiers
- Gas filters
- Liquid filters
- Specialty coatings

Material integrity, delivery, and control
- Precursor delivery systems
- Safe gas delivery systems
- Liquid packaging
- Valves
- Fittings
- Tubing
- Liquid filters
- Sensing & control
- Particle size analysis

Material purity
- Bulk gas purification systems

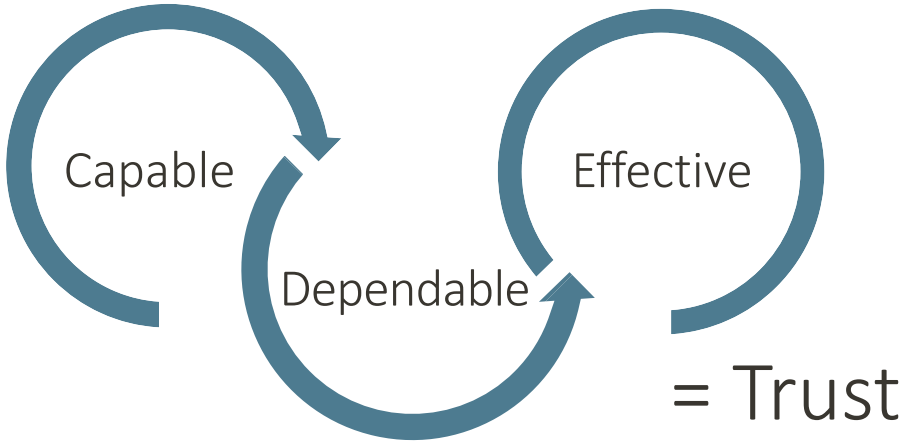
Takeaways

Entegris materials solutions + materials protection = speed to yield

We win by:

- First to the table as a solutions partner
- Executing on fast development, and ramp
- Consistent performance

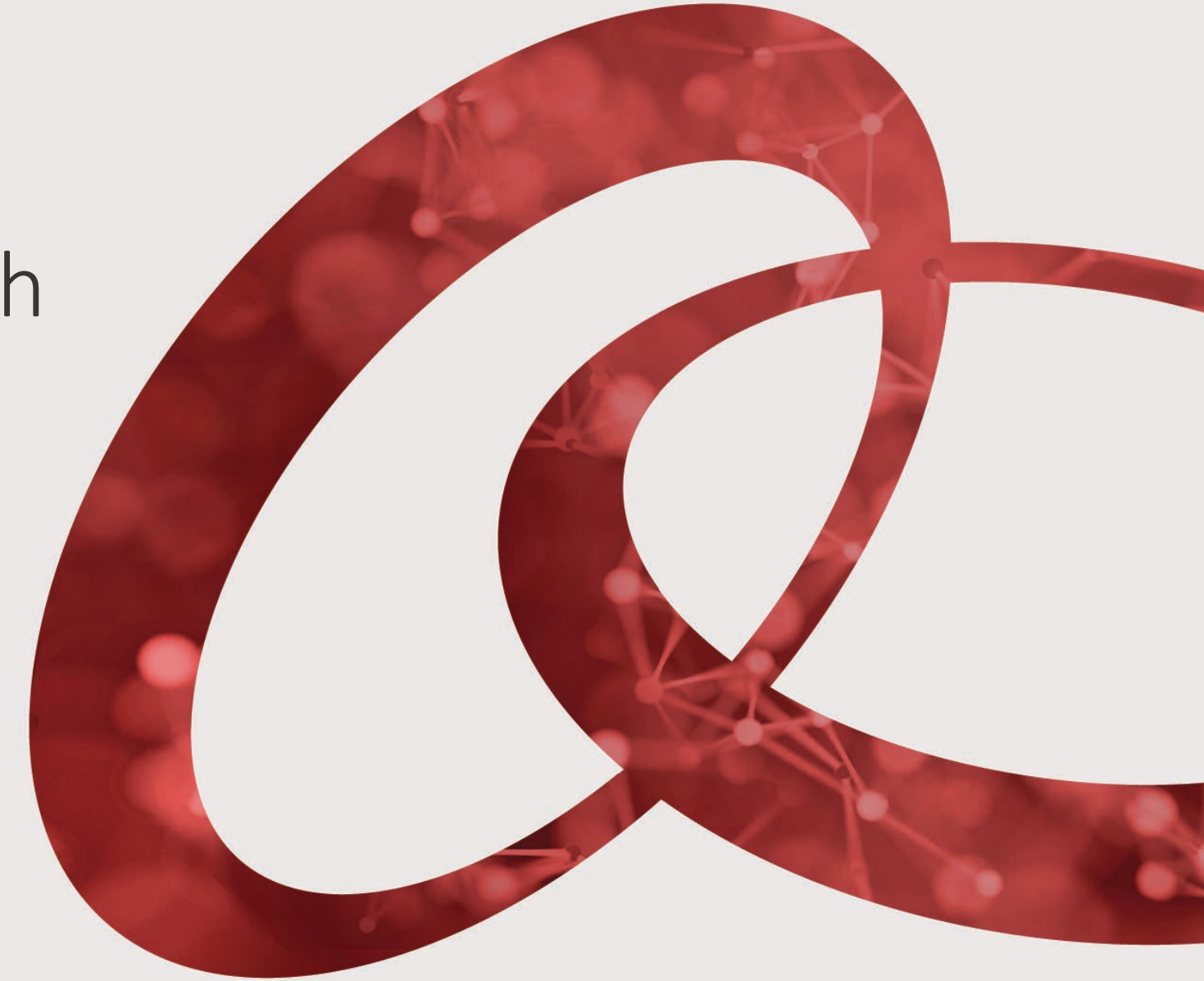
Entegris has established itself as the smart choice for our customers



Innovating for Growth

James A. O’Neill, Ph.D.

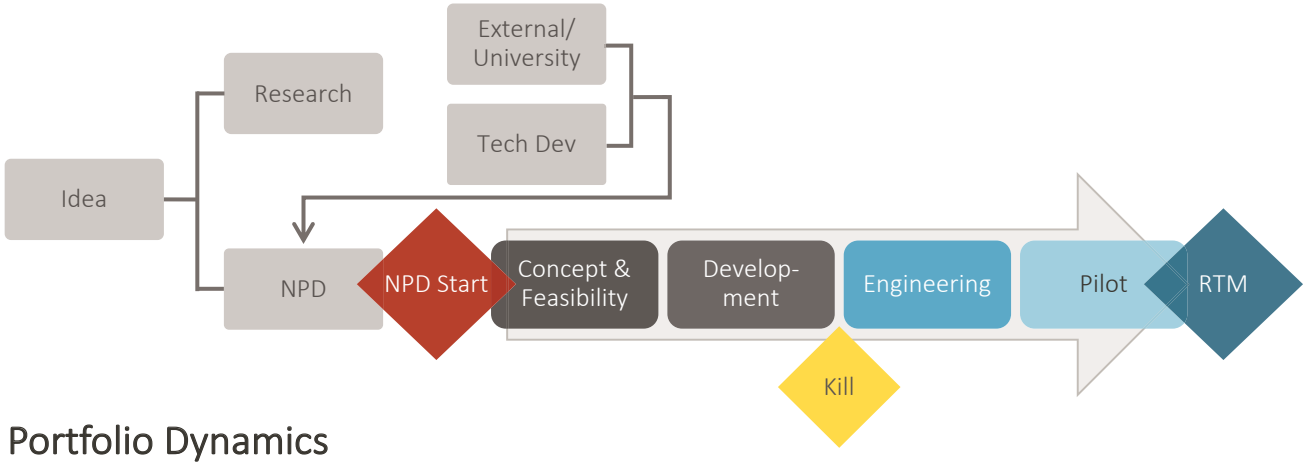
Senior Vice President and
Chief Technology Officer



Entegris

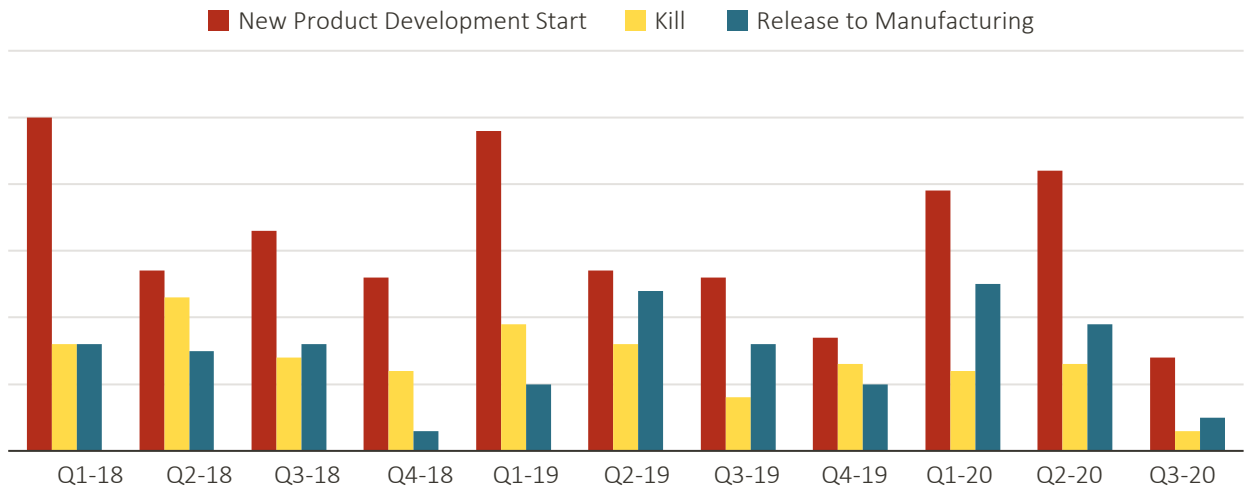
Innovating for Growth

Strong product management culture with discipline around portfolio

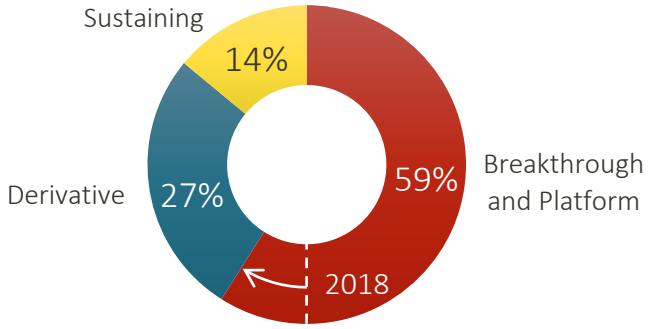


Portfolio Dynamics

Number of projects



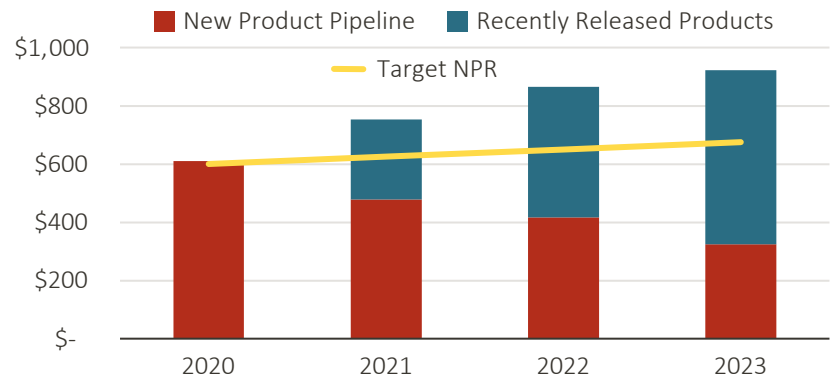
Project Spending



Future sales growth supported by real opportunities in R&D pipeline

New Product Revenue (NPR)

$ in millions



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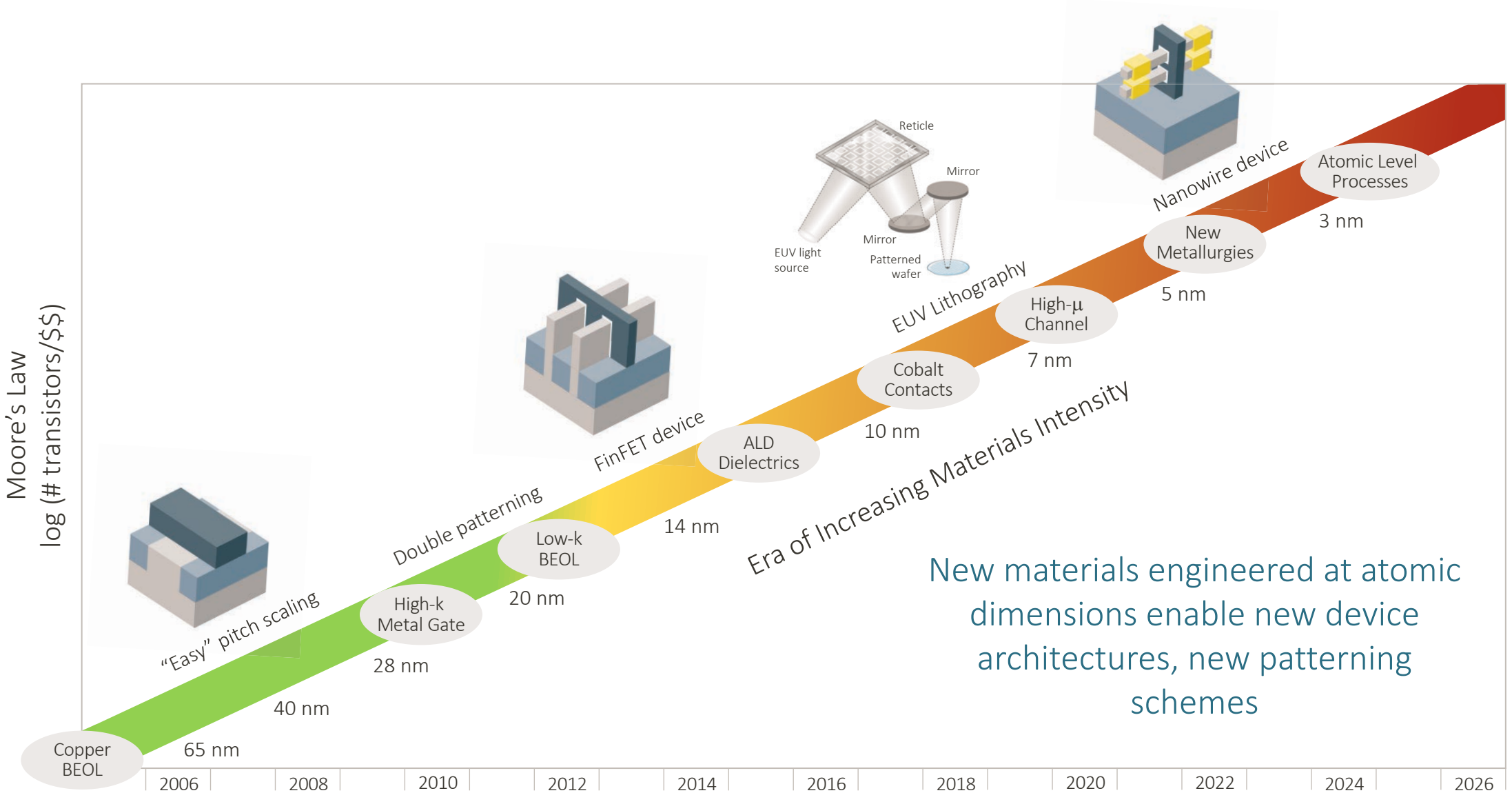
Delivering Performance: Era of Increasing Materials Intensity

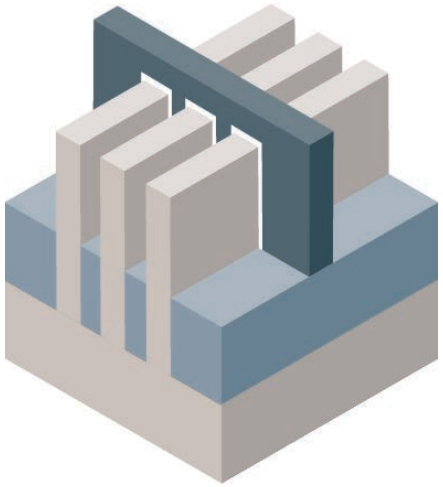


New materials engineered at atomic dimensions enable new device architectures, new patterning schemes

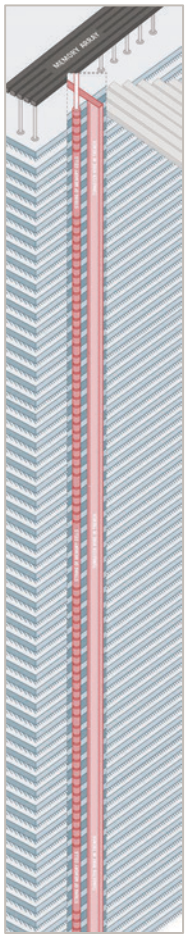
Source: Entegris.

Entegris

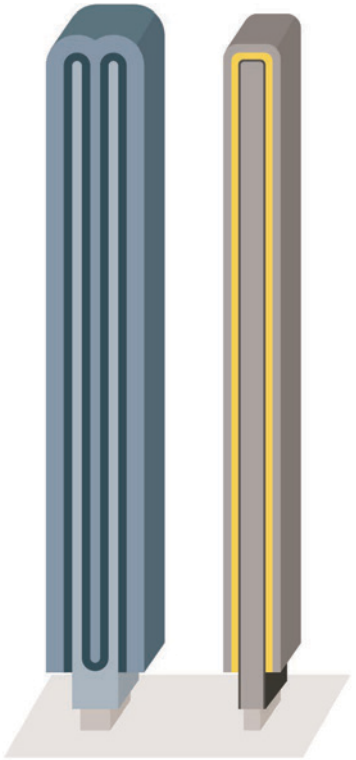
The Challenge our Customers are Facing



FinFET Logic Device



3D NAND Device



DRAM Capacitor

Smaller/Taller Structures Require:

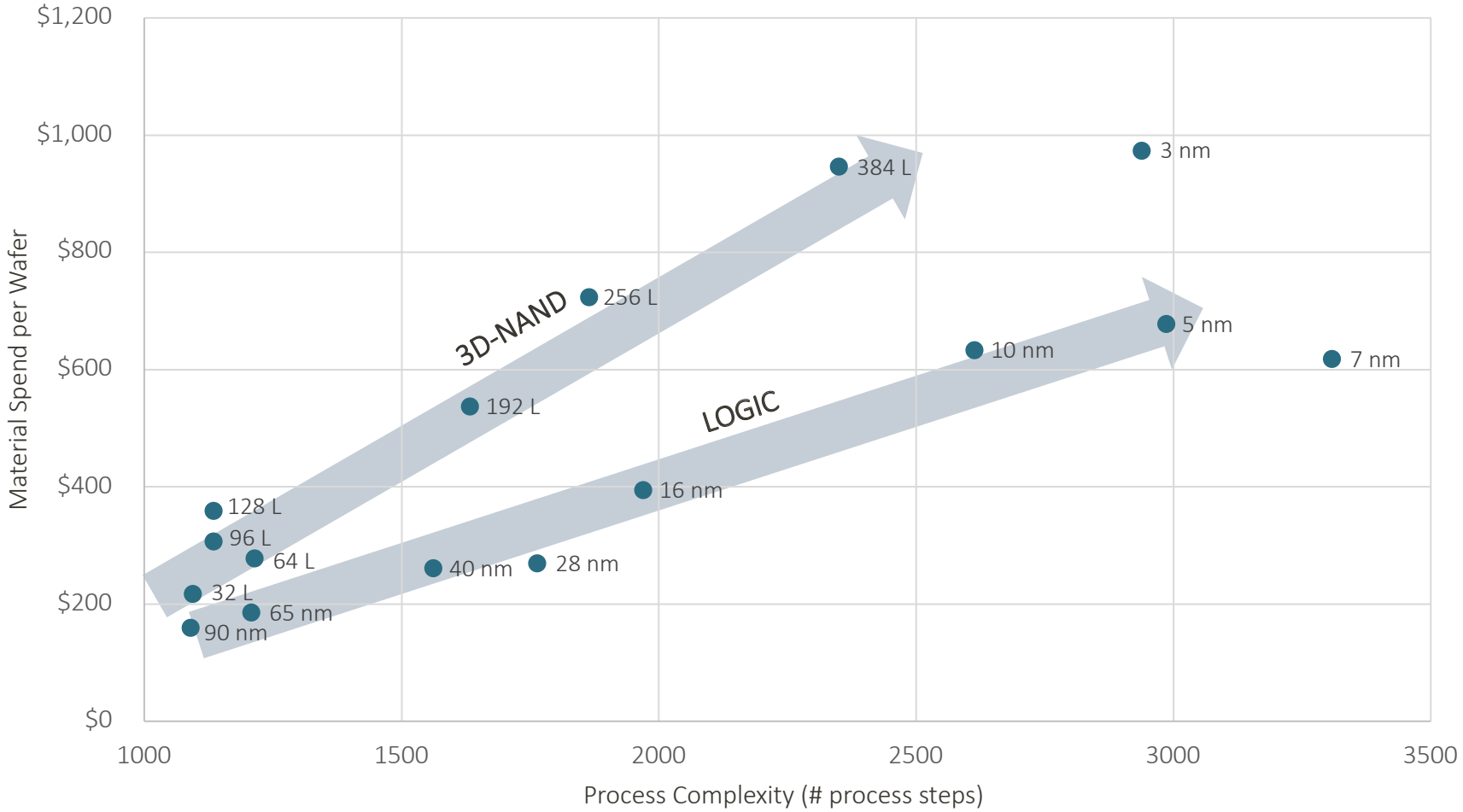
- New performance materials
- Atomic scale precision and control
- PPQ level purity
- Zero defectivity

… All at the same time

Entegris

Higher Performance and More Complex Chips

Advanced nodes use more materials and present greater yield challenges – both are opportunities for Entegris



Source: IC Knowledge, Entegris.

3D-NAND

From 64 to 128 layers

CVD STEPS +48%

WET STEPS +36%

Logic

From 10 nm to 5 nm

ALD STEPS +33%

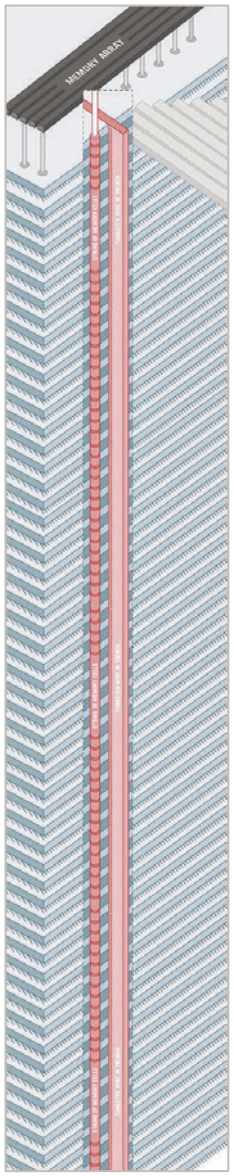
WET STEPS +6%

Inflection 1: Vertical Integration

Key challenges

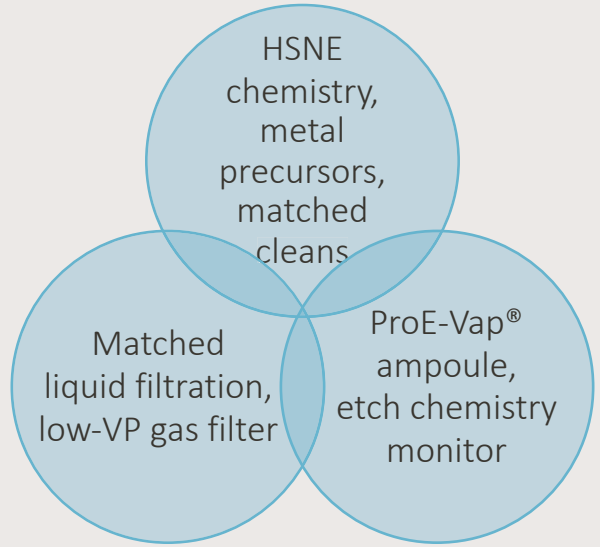
- Increasingly narrow structures (96 L ⟶ >200 L)
- Very small features (atomic-scale processing)
- Complex material stack (high etch selectivity)
- Improved resistivity (new metallurgies)
- Improved defect control (extreme conformality)

Entegris offers complete materials and yield solutions for rapidly growing memory market



3D-NAND structure

Entegris Value Proposition

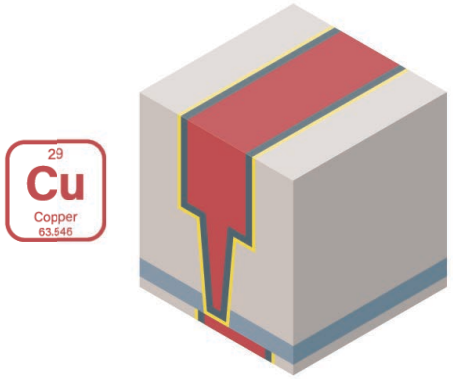


HSNE – highly-selective nitride etch.

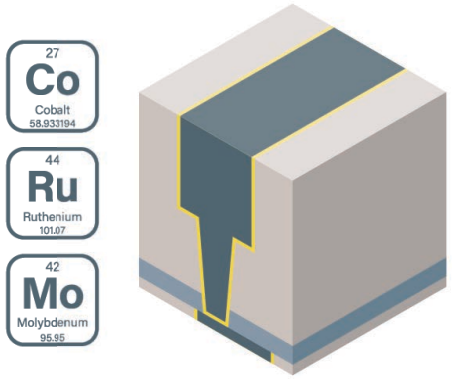
Inflection 2: Post Cu/W Interconnects

Key challenges:

- Scalable interconnects (finer patterns)
- Improved resistivity and reliability (new metals)
- Downstream integration (CMP and wet processing)
- Improved defectivity control



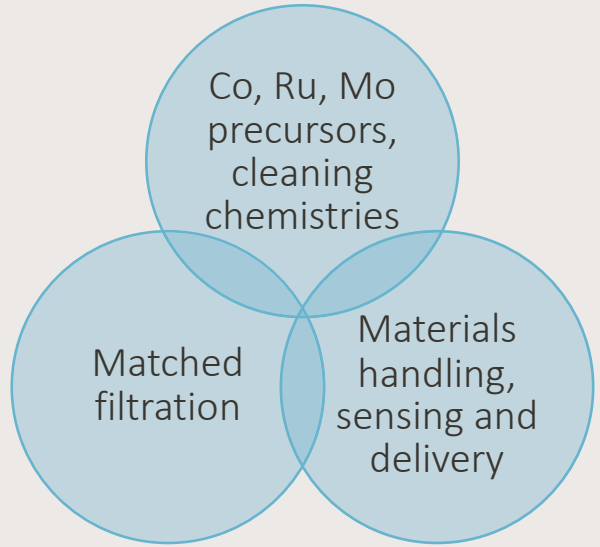
Copper interconnects require barrier layer that limits scaling



New materials required to scale advanced interconnect

Change in interconnect metal plays into Entegris portfolio of deposition, clean, filtration, and delivery

Entegris Value Proposition



CMP – chemical mechanical polishing.

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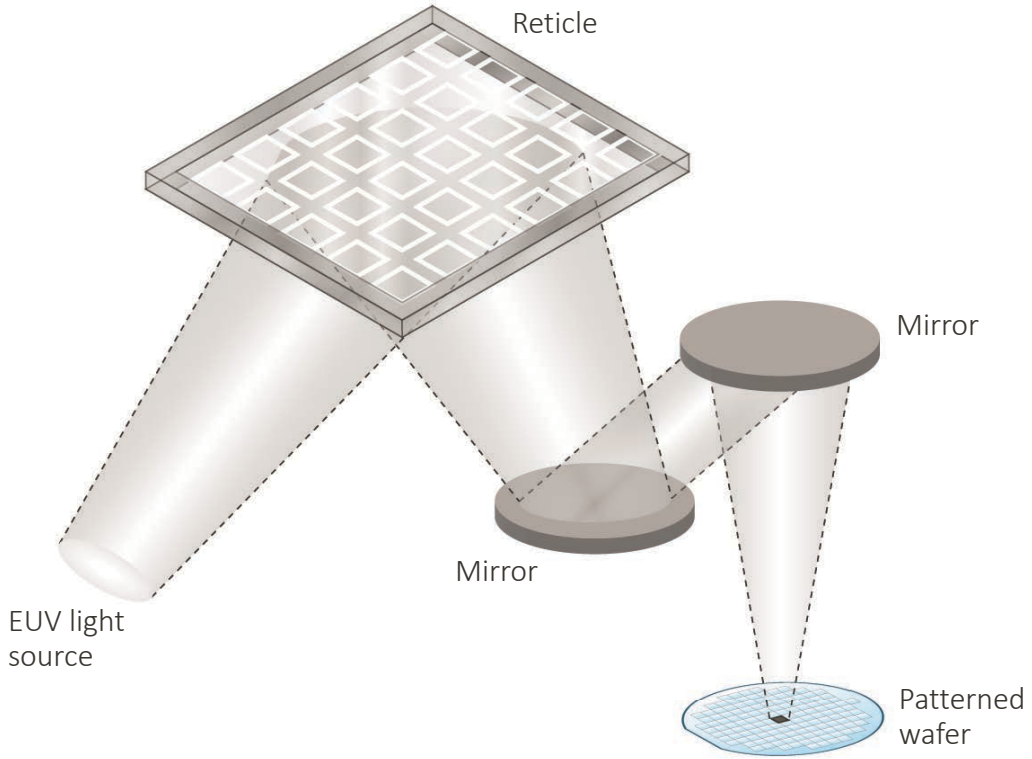
Inflection 3: Extreme Ultraviolet Lithography (EUV)

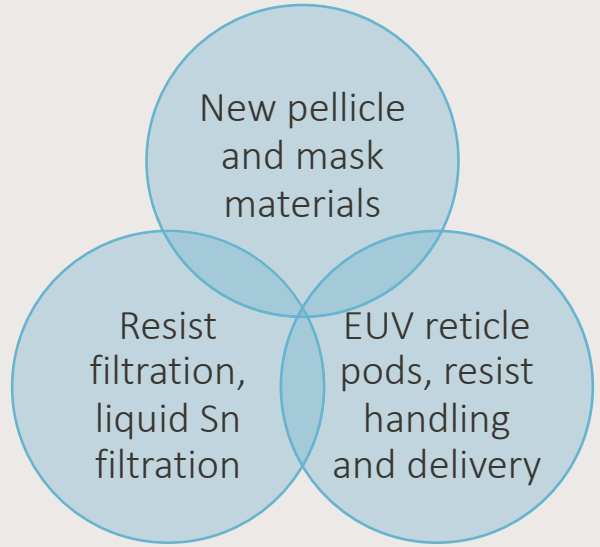
Key challenges:

- "Built-in" process variability (stochastic noise)
- New materials (resist, mask, pellicle)
- Improved defectivity control (finer patterns)



Increased EUV adoption drives new materials and defect control opportunities for Entegris

Entegris Value Proposition



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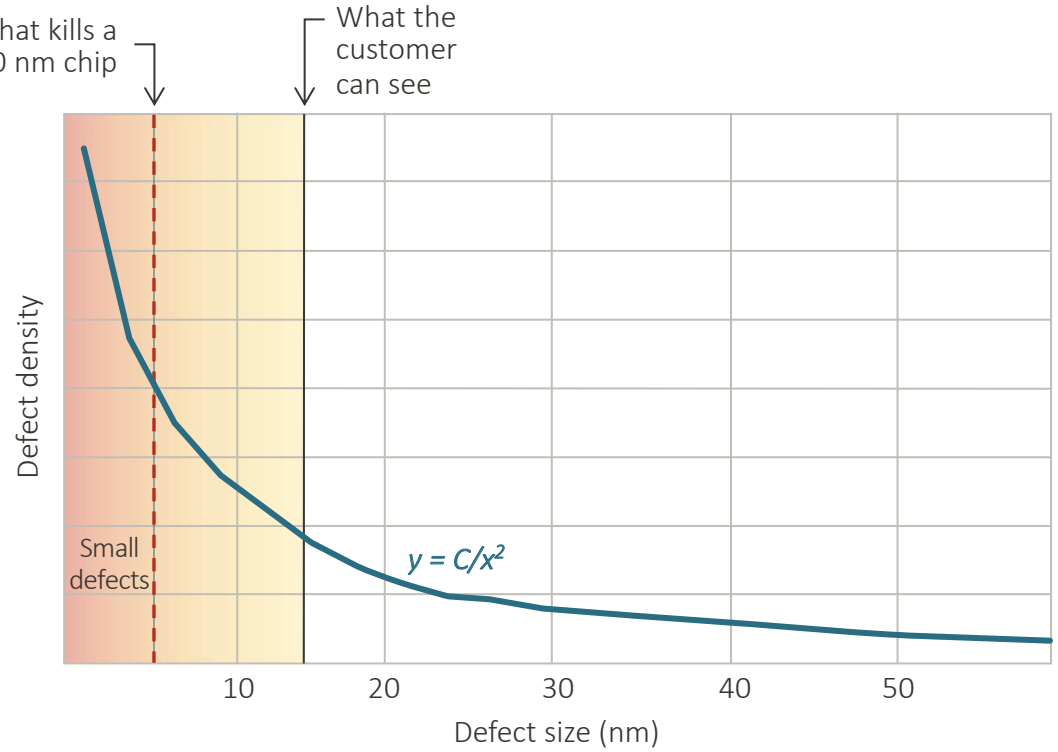
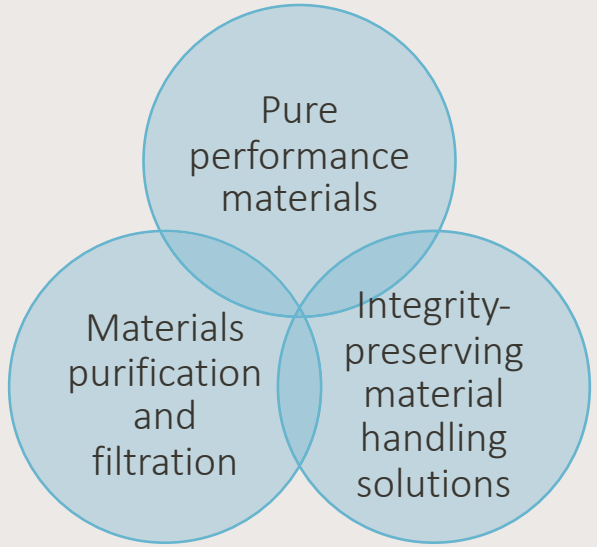
Inflection 4: Drive Toward Zero Defects

Key challenges:

- Increasing reliability requirements (automotive)
- Increasing process complexity (yield ramps)
- Undetectable defects (latent fails)
- Time-to-yield



Entegris Value Proposition



Automotive reliability requirements drive SAM growth for defect control at leading-edge and mainstream fabs

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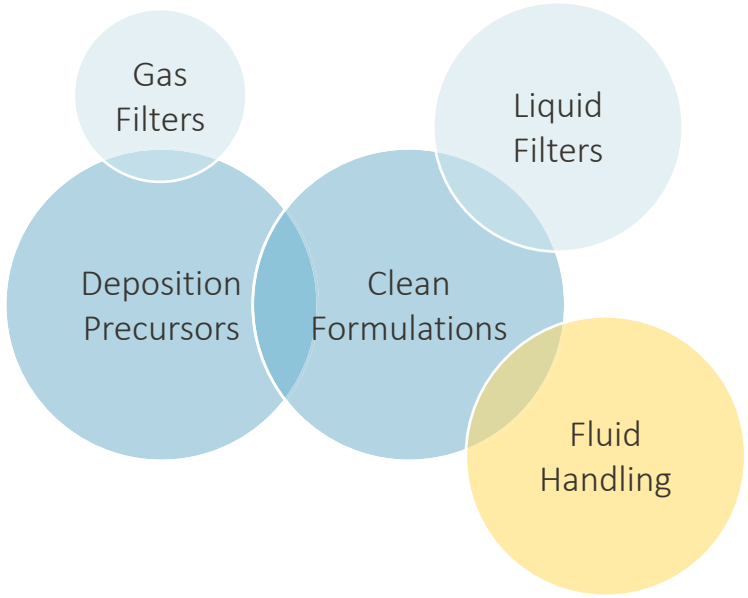
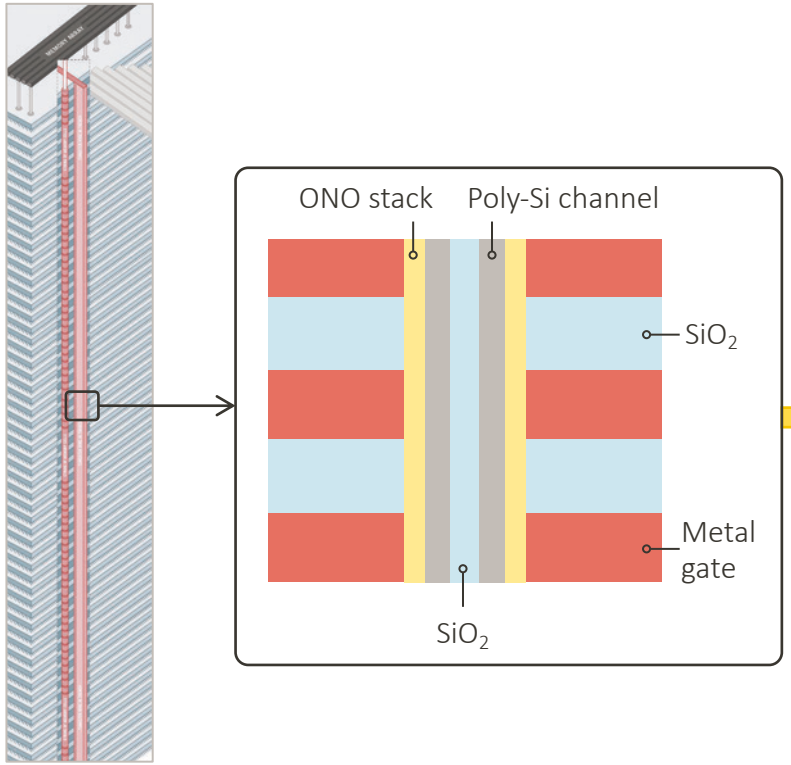
Leveraging the Whole Portfolio: New Metallurgies for 3D-NAND

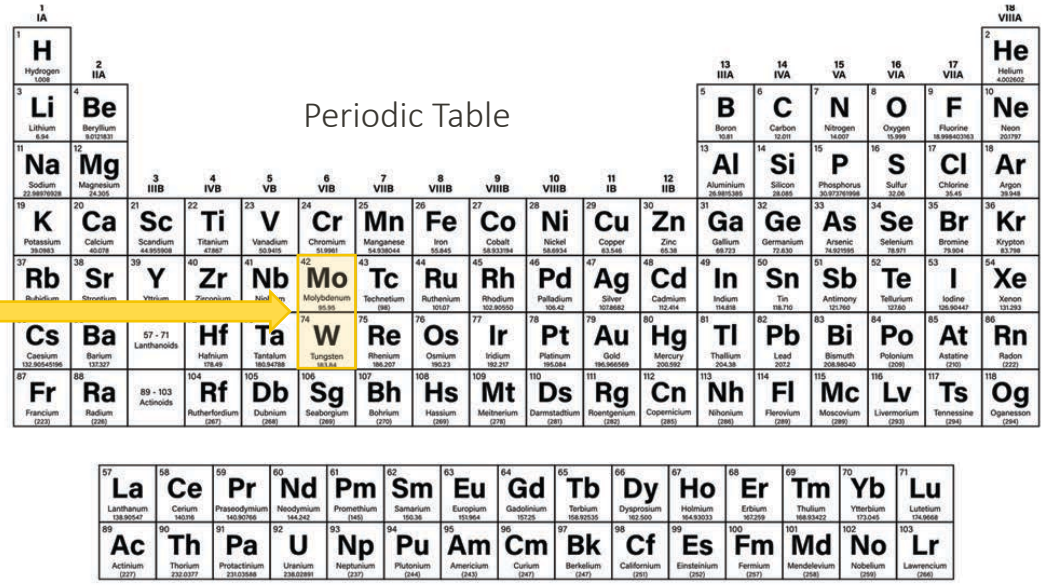


Cascade of value

- Taller 3D-NAND requires more conductive metal (Mo)
- New clean formulations required to match metallurgy
- New filters required to match clean formulation



Tungsten (W) to Molybdenum (Mo)



ONO – oxide-nitride-oxide dielectric stack.

So What Does it all Mean for Entegris?

Unprecedented number of process innovations create opportunities that Entegris is uniquely positioned to address

More

Process Innovation	Opportunity
Silicon – logic, memory	More materials
Atomic-scale processing	New precursors, selective etches, filters
Shrinking – EUV	Filters, reticle pods, clean packaging
Vertical architectures – 3D-NAND	New precursors, selective etches, filters
New device architectures	New precursors, selective etches, filters
Novel interconnects	New precursors, clean formulations, filters
Zero defects	Purifiers, filters, FOUPs, clean packaging

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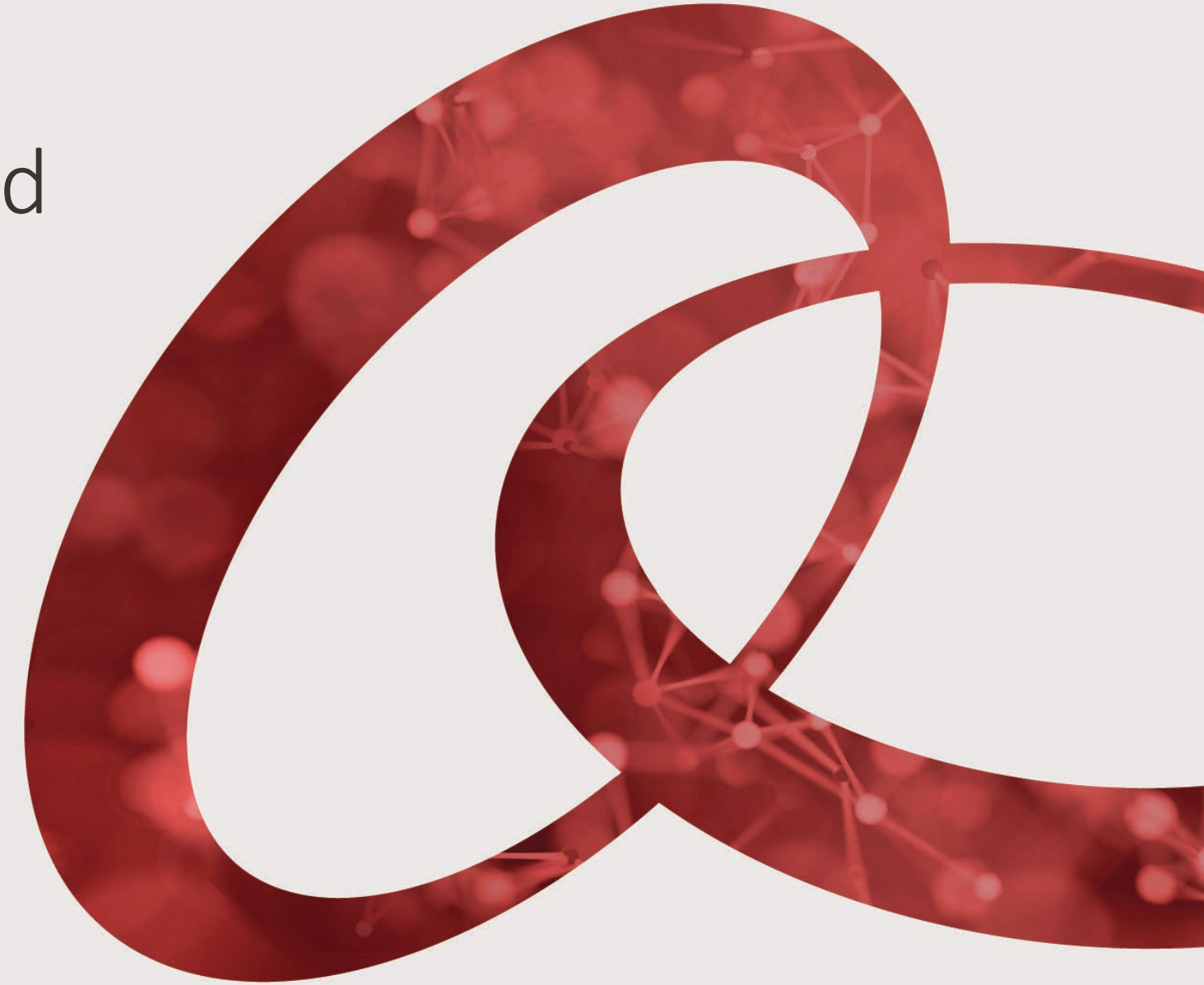
Financial Strength and Flexibility



Greg Graves

Executive Vice President and
Chief Financial Officer

Entegris

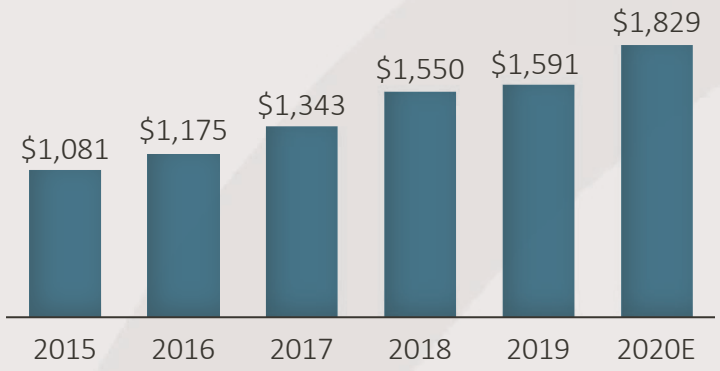
Historical Financials

Growth through cycles

2015-2020 Revenue[1]

$ in millions

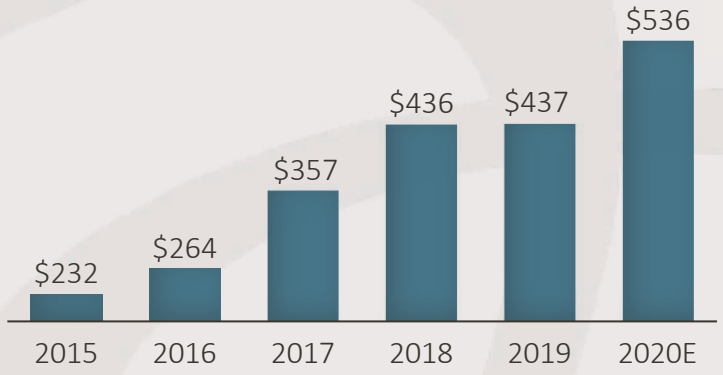
11% CAGR



2015-2020 EBITDA[2]

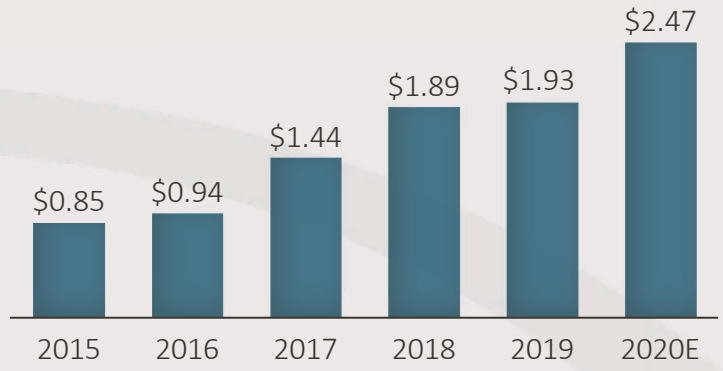
$ in millions

18% CAGR



2015-2020 non-GAAP EPS

24% CAGR



- Revenue outgrowth in excess of our 200 to 300 basis point target
  - Market growth CAGR from 2015 to 2020 estimated to be 5%
- ~40% EBITDA flow through achieved over the period

[1] 2020 – assumes midpoint of guidance for 2020 (provided on 10/22/20). [2] Non-GAAP; 2020 estimate assumes Q4 EBITDA flat to Q3.

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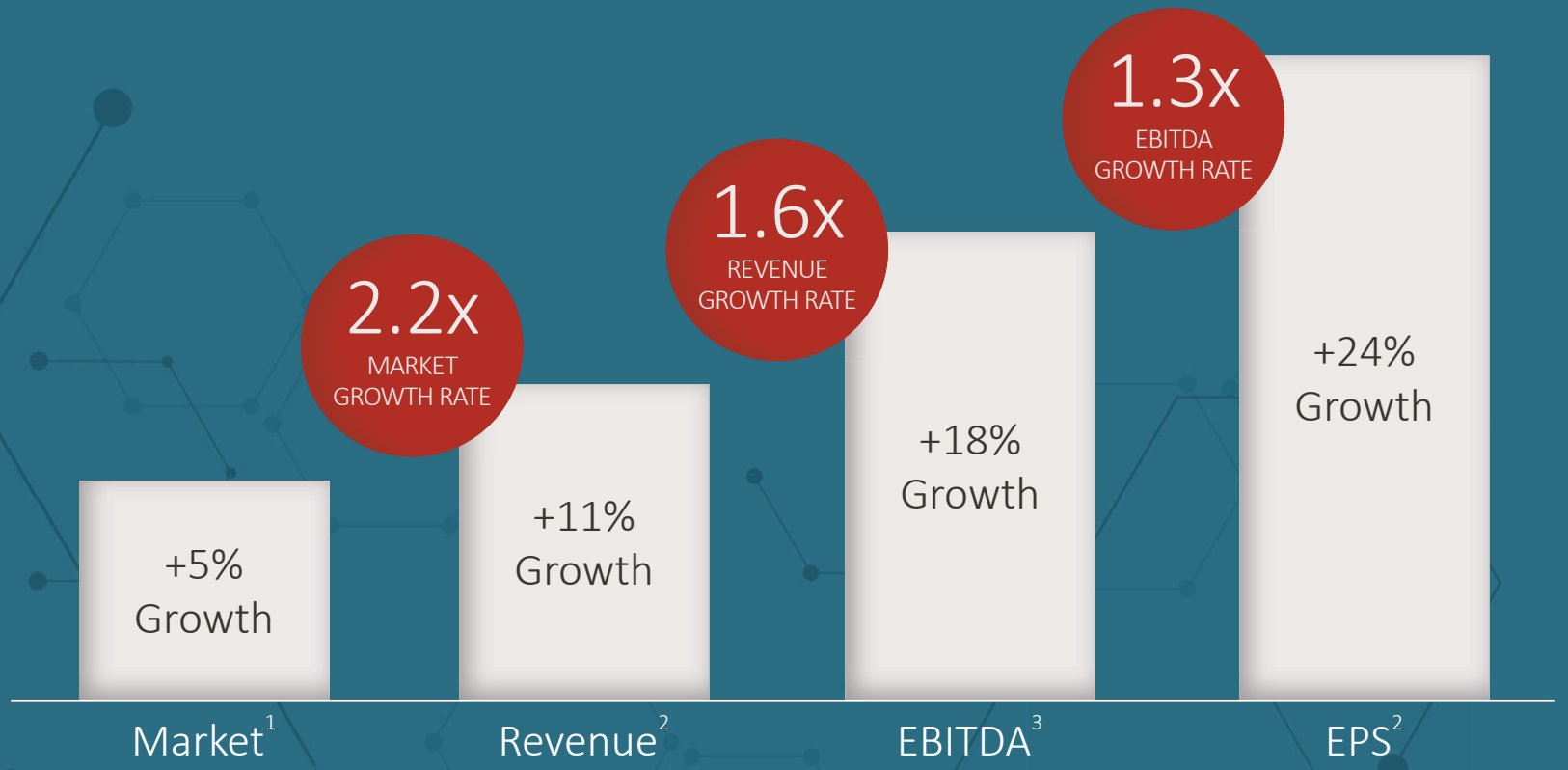
Multiplier Model

2015-2020 performance (including M&A)



[1]Market is CapEx and MSI blended index – 70% MSI and 30% CapEx. [2] 2015–2020 CAGR – assumes midpoint of guidance for 2020 (provided on 10/22/20). [3] Non-GAAP; 2020 estimate assumes Q4 EBITDA flat to Q3.

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Entegris Capital Allocation Principles

Capital allocation priorities

1 Investments in R&D and CAPEX

- ER&D target:
  Trending to 9% of sales
- CapEx target:
  7% to 8% of sales

2 Value Accretive Acquisitions

- Intend to be a consolidator
- Targets:
  Core semiconductor and other adjacent markets

3 Return of Capital: Dividends and Share Buybacks

- 60% target payout of annual free cash flow
- Dividend target:
  Ongoing dividend with incremental increases as free cash flow warrants
- Share buybacks:
  Approximately $15 million per quarter, plus opportunistic buybacks when appropriate

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Thoughtful and Balanced Capital Allocation

More than $4.0 billion allocated over the past six years[1]

Acquisitions	Acquisition of ATMI in 2014 ($809M net of cash acquired), PSS, SAES Pure Gas, DSC, MPD, Anow, Sinmat, GMTI continued "bolt on" acquisitions, broadened capabilities, and leveraged global platform	$1.6B
ER&D	Continued investments and deployment of new products, increased customer value, and drove competitive advantage	$801M
CapEx	Increased investments to support superior growth and results	$651M
Share Buyback	Initiated $10M quarterly share buyback in Q3 2017; increased to $15M in Q2 2019	$340M
Dividend	Initiated dividend in October 2017, increased to $0.08 per share in July 2019	$122M

[1] Reflects 2013-Q3 2020 capital allocations. Debt repayments included in total, but not in table.

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Disciplined and Value Accretive M&A

		Strategic		
		Unit vs. Capex	Core Semi	Adjacent Markets
2014	ATMI	Unit	✓	
2017	TRINZIK	Unit	✓	
2018	Particle Sizing Systems PSS	CapEx	✓	
2018	SAES Pure Gas The Technology of Pure Gas	CapEx	✓	
2019	Digital Specialty Chemicals DSC	Unit	✓	✓
2019	MPD Chemicals	Unit	✓	✓
2019	ANOW	Unit	✓	✓
2020	SINMAT INNOVATIVE CMP SOLUTIONS	Unit	✓	✓
2020	Global	CapEx	✓	

Estimated M&A Contribution to 2020 Results[1]

Incremental sales:	~$700M
Incremental EPS:	~$0.60

[1] Estimated 2020 impact for acquisitions made since 2014.

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Capital Structure

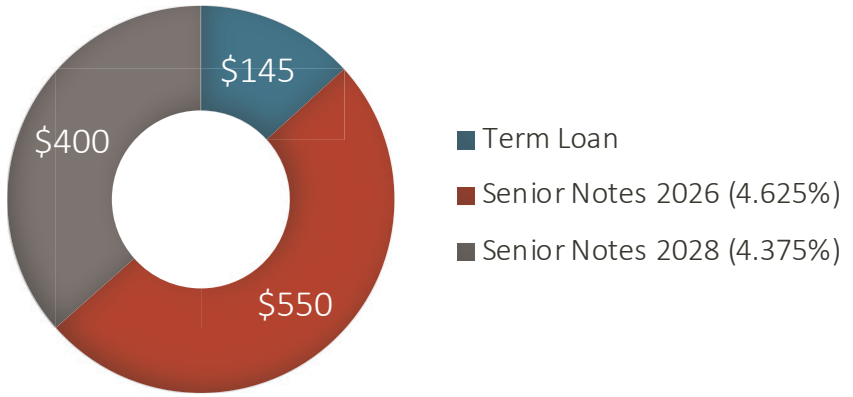
Conservative and flexible – with optionality

Capital Structure Targets

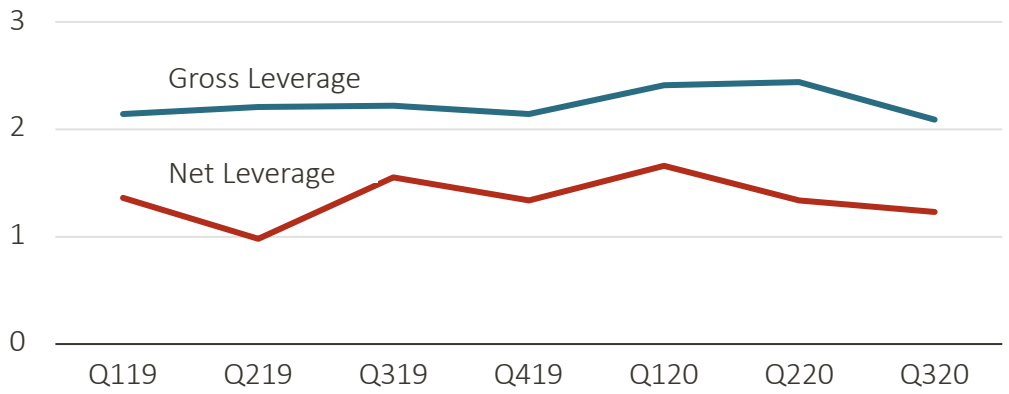
- Minimum cash balance of approximately $200 million (globally)
- Maintaining debt rating of Ba1 or better
- Max gross leverage: 3.75x (for right M&A)

Total Debt: ~$1,095M[1]

$ in millions

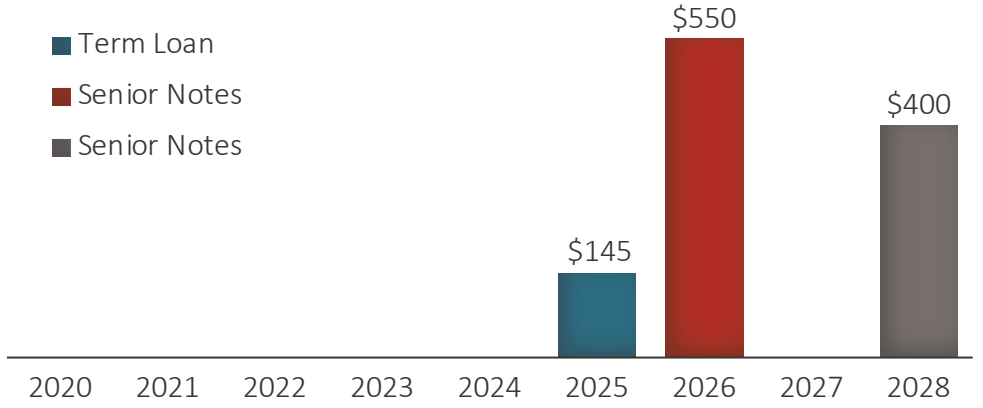


Leverage Ratios[1]



Debt Maturity Schedule

$ in millions



[1] As of Q3 2020.

Increase Focus on Productivity

Continuous innovation mindset

How?

- Standardize | simplify | centralize | automate
- Greater use of shared services

Where?

- SG&A, supply chain, and manufacturing
- Functional organizations and core processes

Why?

- Increase scalability of business model
- Achieve and maintain attractive EBITDA levels (>30%)
- Protect ER&D investments critical to value proposition

Annual Target Model

Additional organic revenue assumes 40% incremental flow-through at EBITDA level

	External Target Model[1]				
Revenue ($ in millions)	$1,800	$2,000	$2,200	$2,400	$2,600
Adjusted operating margin[2]	~24%	~25%	~26%	~27%	~28%
Adjusted EBITDA margin[2]	~29%	~30%	~31%	~32%	~33%
Non-GAAP EPS[3]	>$2.35	>$2.75	>$3.15	>$3.55	>$4.00

[1] Represents sensitivity of adjusted operating margin, adjusted EBITDA margin and non-GAAP EPS to various hypothetical annual revenue levels. [2] Adjusted for amortization of intangible assets, one-time charges and expenses; EBITDA input to external target model assumes depreciation at ~5% of revenue. [3] External target model assumes interest expense of $50 million, tax rate of 18%, and shares outstanding equal 136 million.

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Organic Profit Growth Path

Illustrative model
Organic growth and operating leverage lead to EPS of >$3.55 by 2023

	2020 Estimate[1]		Year Three Illustrative Model[2]
Revenue	$1.83B	10% top-line growth	$2.4B
Adj. operating margin[3]	~25%		~27%
Adj. EBITDA margin[3]	~29%	300 bps improvement	~32%[4]
Non-GAAP EPS	$2.47		>$3.55[5]
ROIC[6]	~16%		~20%

Assumptions: 2x Semi growth in excess of GDP 3-4% Entegris' growth in excess of market

[1] Assumes midpoint of guidance for 2020 (provided on 10/22/20). [2] Represents sensitivity of adjusted operating margin, adjusted EBITDA margin and non-GAAP EPS assuming an approximately 10% increase in annual revenue to $2.4 billion.
[3] Adjusted for amortization of intangible assets, one-time charges and expenses. [4] Assumes ~5% of revenue for depreciation expense. [5] Assumes interest expense of $50 million, tax rate of 18%, and shares outstanding equal 136 million.
[6] ROIC definition: adjusted NOPAT/(invested capital – cash).

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Capital Allocation Scenarios[1]

	Potential Incremental EPS Impact
Share Repurchase 2x leverage	~$0.10
M&A – Small 2x leverage	~$0.25
M&A – transformational 3.5x leverage	~$0.50

[1] Represents scenarios (during 2021 to 2023) where excess domestic cash above $125M and additional leverage is used for share repurchase and/or acquisitions starting in 2021.

Six Reasons to Own Entegris

1. Exciting industry with secular growth
2. Accelerating exposure to key technology inflections
3. Strong competitive moats
4. Resilient business model
5. Highly cash generative
6. Disciplined capital allocation with optionality

Entegris is a value compounder

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Appendix

Reconciliation of GAAP Net Income to Adjusted Operating Income and Adjusted EBITDA

$ in thousands

	December 31, 2015	December 31, 2016	December 31, 2017	December 31, 2018	December 31, 2019
Net sales	$1,081,121	$1,175,270	$1,342,532	$1,550,497	$1,591,066
Net income	$80,296	$97,147	$85,066	$240,755	$254,860
Net income – as a % of net sales	7.4%	8.2%	6.3%	15.6%	16.0%
Adjustments to net income:					
Equity in net loss of affiliate	1,687	—	—	—	—
Income tax expense	10,202	22,852	99,665	13,677	63,189
Interest expense, net	38,238	36,528	31,628	30,255	42,310
Other (income) expense, net	(12,355)	(991)	25,458	8,002	(121,081)
GAAP - Operating income	118,068	155,536	241,817	292,689	239,278
Operating margin - as a % of net sales	10.9%	13.2%	18.0%	18.9%	15.0%
Charge for fair value write-up of acquired inventory sold	—	—	—	6,868	7,544
Deal and transaction costs	—	—	—	5,121	26,164
Integration costs	12,667	—	—	3,237	9,932
Severance and restructuring costs	—	2,405	2,700	460	12,494
Impairment of equipment and intangibles	—	5,826	10,400	—	—
Loss on sale of subsidiary	—	—	—	466	—
Amortization of intangible assets	47,349	44,263	44,023	62,152	66,428
Adjusted operating income	178,084	208,030	298,940	370,993	361,840
Adjusted operating margin - as a % of net sales	16.5%	17.7%	22.3%	23.9%	22.7%
Depreciation	54,305	55,623	58,208	65,116	74,975
Adjusted EBITDA	$232,389	$236,653	$357,148	$436,109	$436,815
Adjusted EBITDA – as a % of net sales	21.5	22.4	26.6	28.1	27.5

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Reconciliation of GAAP Net Income and Diluted Earnings per Common Share to Non-GAAP Net Income and Diluted Non-GAAP Earnings per Common Share

$ in thousands, except per share data

	December 31, 2015	December 31, 2016	December 31, 2017	December 31, 2018	December 31, 2019
GAAP net income	$80,296	$97,147	$85,066	$240,755	$254,860
Adjustments to net income:					
Charge for fair value write-up of inventory acquired	—	—	—	6,868	7,544
Deal and transaction costs	—	—	—	5,121	26,575
Integration costs	12,667	—	—	3,237	9,932
Severance and restructuring costs	—	2,405	2,700	460	12,494
Loss on debt extinguishment and modification	—	—	20,687	2,319	1,980
Net gain on impairment/sale of short-term investment or equity investment	(1,449)	(156)	—	—	—
Loss on sale of subsidiary	—	—	—	466	—
Impairment of equipment and intangibles	—	5,826	13,200	—	—
Versum termination fee, net	—	—	—	—	(122,000)
Amortization of intangible assets	47,349	44,263	44,023	62,152	66,428
Tax effect of legal entity restructuring	—	—	—	(34,478)	9,398
Tax effect of adjustments to net income and discrete items[1]	(8,248)	(16,637)	(26,046)	(17,812)	(3,124)
Tax effect of Tax Cuts and Jobs Act	—	—	66,713	683	—
Non-GAAP net income	$120,615	$132,848	$206,343	$269,771	$264,087
Diluted earnings per common share	$0.57	$0.68	$0.59	$1.69	$1.87
Effect of adjustments to net income	$0.29	$0.25	$0.85	$0.20	$0.07
Diluted non-GAAP earnings per common share	$0.85	$0.94	$1.44	$1.89	$1.93
Weighted average diluted shares outstanding	141,121	142,050	143,518	142,610	136,568

[1] The tax effect of pre-tax adjustments to net income was calculated using the applicable marginal tax rate during the respective years.

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Reconciliation of GAAP Net Income to Adjusted Operating Margin, Adjusted EBITDA and Adjusted EBITDA Margin

$ in millions

	December 31, 2020E[1]
Net sales	$1,829
Net income	$286
Net income – as a % of net sales	16%
Adjustments to net income:	
Income tax expense	59
Interest expense, net	48
Other (income) expense, net	(4)
GAAP - Operating income	389
Operating margin - as a % of net sales	21%
Charge for fair value write-up of acquired inventory sold	1
Deal and transaction costs	3
Integration costs	3
Severance and restructuring costs	4
Amortization of intangible assets	53
Adjusted operating income	453
Adjusted operating margin - as a % of net sales	25%
Depreciation	83
Adjusted EBITDA	$536
Adjusted EBITDA – as a % of net sales	29%

[1] 2020- assumes midpoint of guidance for 2020 (provided on 10/22/2020).

Reconciliation of GAAP Diluted Earnings per Share to Non-GAAP Diluted Earnings per Share

	December 31, 2020E[1]
Diluted earnings per common share	$2.11
Adjustments to net income:	
Charge for fair value write-up of inventory acquired	0.00
Deal and transaction costs	0.02
Integration costs	0.02
Severance and restructuring costs	0.03
Loss on debt extinguishment	0.02
Amortization of intangible assets	0.38
Tax effect of adjustments to net income and discrete items[1]	(0.11)
Diluted non-GAAP earnings per common share	$2.47

[1] 2020- assumes midpoint of guidance for 2020 (provided on 10/22/2020).