

Safe Harbor

This presentation contains 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 net revenue, operating expenses, net income, diluted earnings per common share, non-GAAP operating expenses, non-GAAP net income, diluted non-GAAP earnings per common share, 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; the impact, financial or otherwise, of any organizational changes; market and technology trends, including the expected impact of the Covid-19 pandemic; the development of new products and the success of their introductions; 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 statements involve risks and uncertainties, and actual results may differ materially from those projected in the forward-looking statements. 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, effect 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 "Adjusted EBITDA," "Adjusted EBITDA – as a % of Net Sales," "Adjusted Operating Income," "Adjusted Operating Margin," "Adjusted Gross Profit," "Adjusted Gross Profit," "Adjusted Gross Profit," "Adjusted Gross Margin – as a % of Net Sales," "Adjusted Segment Profit," "Adjusted Segment Profit Margin," "Non-GAAP Operating Expenses," "Non-GAAP Tax Rate," "Non-GAAP Net Income," "Non-GAAP Earnings per Share," and "Diluted Non-GAAP Earnings per Common 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.



Entegris at a glance.





A world-class supplier of advanced materials and process solutions for the semiconductor and other high-tech industries



Founded 1966



2019 Revenue \$1.6B



Headquarters Billerica, MA



Business Divisions

Specialty Chemicals & Engineered Materials (SCEM)

Microcontamination Control (MC)

Advanced Materials Handling (AMH)



2019 R&D investment ~8% revenue

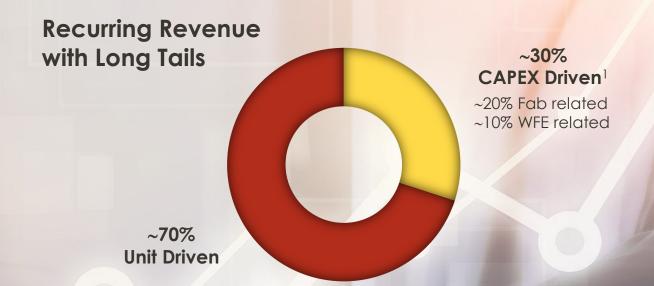


Employees 4,000+



Our platform is differentiated and resilient...





"Sticky" Solutions

Critical part of process recipe

Long product lifecycles

Diverse customer base

Low customer concentration and broad distribution across supply chain

Broad product offering

Several thousand products sold Majority of products tied into customer roadmaps

...and agnostic to specific technology shifts

Long-term secular industry growth.

Now Then Secular Accelerated Wafer Start Singular Slower growth and Multiple new growth and Growth greater volatility drivers drivers improved stability 2x GDP **Automotive** and



By 2025 there will be over 75 billion installed IoT devices worldwide² Volume of global data to increase 10x to 175 Zettabytes from 2016 to 2025³



Entegris value add.

Entegris

Helping customers achieve higher yields and new levels of performance and reliability



New device architecture enabled by



Number of elements from the

Periodic Table used to make advanced semiconductors has quadrupled since the 1990s

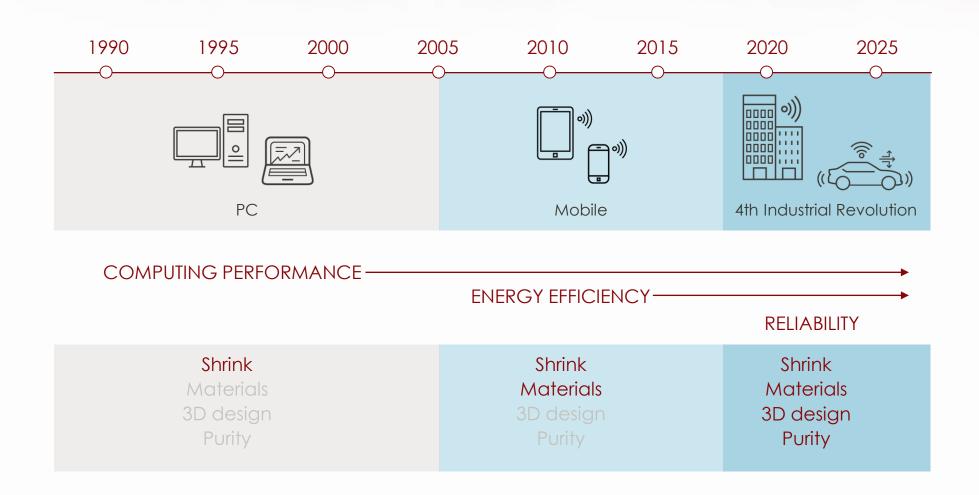
Greater Purity

Drives higher wafer yield, device speed, device energy efficiency, and device reliability

Materials intensity is the new Moore's Law.



Advanced materials enable the emergence of 3D architectures in logic and memory



Greater materials intensity...



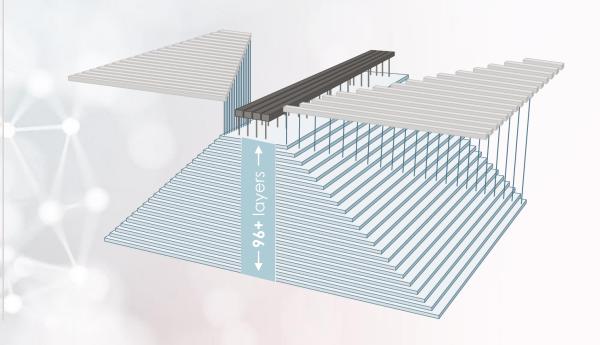
Advanced chip architectures will drive increased process complexity and require more atomic scale precision materials

Increased Process Complexity

Change from 20 nm to 7 nm logic technology results in a **2x increase** in processing steps

More Spending Per Wafer

~3x materials spending per wafer increase is expected for both logic devices and 3D NAND for Entegris' markets¹ New multi-layer memory device structures require new higher value, highly engineered materials

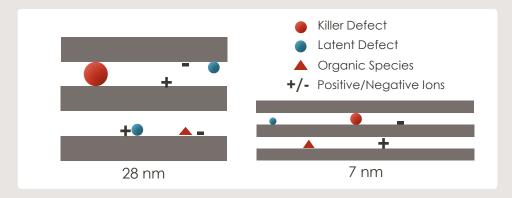


...means new product opportunities for the industry – and Entegris

Achieving the highest levels of purity.



In the size and types of contaminants...



...and the concentration level of contaminants



PURITY IS KEY: Wafer Yield | Device Performance | Device Energy Efficiency | Device Reliability

A 1% yield improvement can mean:

\$150M/year net profit in leading-edge logic¹

\$110M/year net profit for 3D NAND fabs²

¹ Assumes 10 nm logic fab, 60K wafer starts per month.

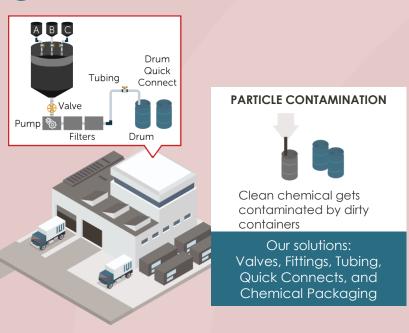
² Assumes 64 layer 3D NAND fab, 60K wafer starts per month.

Clean Chemical Delivery

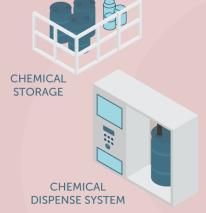


End-to-end solutions for improved yield, reliability, and performance

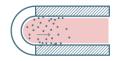








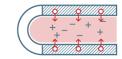




Surface particles that have not been flushed from interior tubing surfaces will release into the chemical over time.

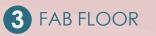
Our solutions: High-purity Tubing, Fittings, Valves, and Filters

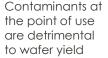
METALLIC CONTAMINATION



As chemical sits in long tubing runs, metallic ions can leach into the chemicals

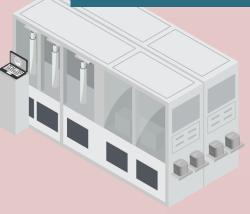
Our solutions: Ultraclean PFA Tubing, Fittings, and Valves







Our solutions: Filters, Purifiers, FOUPs



More filtration points and greater frequency of filter changeout Higher-purity chemical packaging and fluid management systems Microenvironmental wafer protection from bare to finished wafer



Increased SAM

Our sales growth algorithm.







- Greater materials intensity
- Higher purity requirements
- Market share gains



We offer the broadest solutions portfolio.



Uniquely positioned to address precision, purity, integrity, and safety challenges

Specialty Chemicals & Engineered Materials

Microcontamination Control

Liquid filters and purifiers

Gas filters/diffusers/purifiers

Airborne molecular contamination control

Advanced Materials Handling

Microenvironments

Fluid handling

Sensing and control

Liquid packaging

Post Etch/CMP cleans

SDS/VAC delivered gases

Plating and CMP components

Advanced deposition materials

Graphite and SiC

Specialty coatings

Specialty chemicals

Leading to shorter development times and unique co-optimized systems and solutions

The broadest portfolio of solutions.



Specialty Chemicals and Engineered Materials: Creating advanced materials with better electrical and structural properties



SDS/VAC delivered gases
Post Etch/CMP cleans
Plating and CMP components
Advanced deposition materials
Graphite and SiC
Specialty coatings
Specialty chemicals

3-year outlook1:

Sales growth: 200-300 bps above market

Adjusted operating margin³: 23%-25%



The broadest portfolio of solutions.



Microcontamination Control: Delivering ultrapure solutions to improve chip performance, reliability, and cost

Liquid filters and purifiers

Gas filters, diffusers, and purifiers

Airborne molecular contamination control

3-year outlook1:

Sales growth: 200-400 bps above market

Adjusted operating margin³: 33%-35%





Ensuring air, gas, and liquid purity

The broadest portfolio of solutions.



Advanced Materials Handling: Protecting critical materials throughout the supply chain



Microenvironments
Fluid handling
Sensing and control
Liquid packaging

3-year outlook:

Sales growth: Flat – 100 bps above market

Adjusted operating margin³: 19%-21%





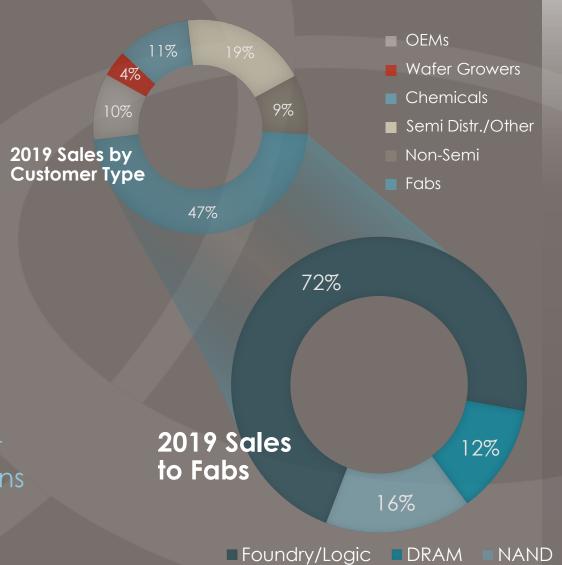


A uniquely capable development partner

Translating our logic/foundry expertise to address fast-growing needs in memory

Assuring supply-chain purity for advanced and mainstream chips

Expanding our served addressable market with new materials and purification solutions



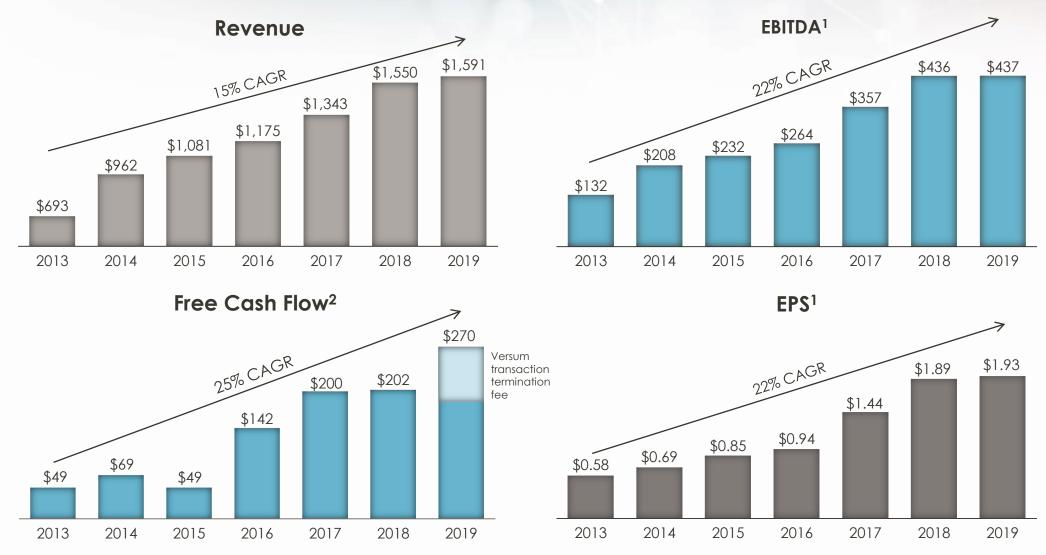
Financial Track Record



Historical financials - growth through cycles.



\$ in millions, except EPS



Capital Allocation and M&A



Liquidity and Capital Structure

\$ in millions

| Liquidity | 03/28/2020 | 06/27/2020 |
|-----------------------------------|------------|------------|
| U.S. Cash | \$134 | \$313 |
| Foreign Cash | \$201 | \$219 |
| Total Cash | \$335 | \$532 |
| Undrawn Revolving Credit Facility | \$158 | \$300 |
| Total Liquidity | \$493 | \$832 |

| Debt Structure | 03/28/2020 | 06/27/2020 | Covenants |
|--|------------|------------|----------------------------|
| Senior Secured Term Loan (due 2025) | \$396 | \$245 | No maintenance covenants |
| Senior Unsecured Notes (due 2026) | \$550 | \$550 | No maintenance covenants |
| Revolving Credit Facility (drawn amount) | \$142 | _ | 3.75x secured net leverage |
| New Senior Unsecured Notes ¹ (due 2028) | _ | \$400 | No maintenance covenants |
| Total debt | \$1,088 | \$1,195 | |



Thoughtful and balanced capital allocation.



More than \$4.0 billion allocated over the past 6 years¹

| Acquisitions | Acquisition of ATMI in 2014 (\$810M 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 | \$763M |
| СарЕх | Increased investments to support superior growth and results | \$618M |
| Debt Repayment ² | Deleveraging increases financial flexibility | \$646M |
| Share Buyback | Initiated \$10M quarterly share buyback in Q3 2017; increased to \$15M in Q2 2019 | \$319M |
| Dividend | Initiated dividend in October 2017, increased to \$0.08 per share in July 2019 | \$111M |



¹Reflects 2013-Q2 2020 capital allocations.

²Debt reduction following ATMI purchase to 11/18 refinance and through Q2 2020.

Creating value via strategic acquisitions.





Global Measurement Technologies, Inc. acquisition.





Market leader of yield enhancing analytical instruments for chemical mechanical planarization (CMP) slurries and formulated cleaning chemistries used in the semiconductor manufacturing process



Acquired on July 10, 2020

Part of Advanced Materials Handling (AMH) segment

Purchase price: ~\$36 million





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