



INVESTOR PRESENTATION

AUGUST 2022





Supplying Essential Semiconductor Solutions Worldwide

Capitalizing on the demand for SiC devices



From mobile to computing, industrial, automotive, telecom, and medical,
our products enable virtually everything around you.



Safe Harbor Statement



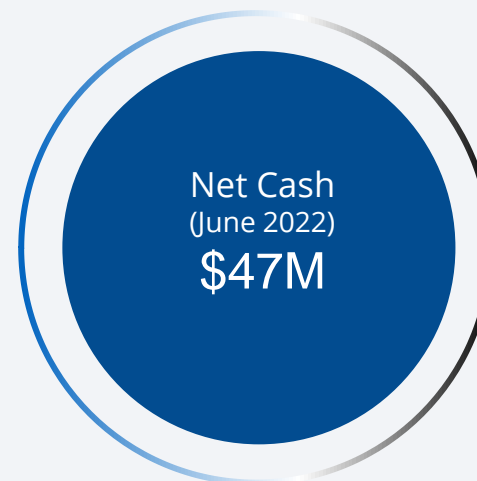
This Presentation may contain certain statements or information that constitute “forward-looking statements” (as such term is defined in Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended, and the Private Securities Litigation Reform Act of 1995). In some, but not all, cases, forward-looking statements can be identified by terminology such as “may,” “plan,” “anticipate,” “seek,” “will,” “expect,” “intend,” “estimate,” “anticipate,” “believe,” “continue,” “predict,” “potential,” “project,” “should,” “would,” “could”, “likely,” “future,” “target,” “forecast,” “goal,” “observe,” and “strategy” or the negative of these terms or other comparable terminology. Examples of forward-looking statements include statements regarding Amtech System, Inc.’s (“Amtech” or the “Company”) future financial results, operating results, business strategies, projected costs, products under development, competitive positions, plans and objectives of Amtech and its management for future operations, efforts to improve operational efficiencies and effectiveness and profitably grow our revenue, and enhancements to our technologies and expansion of our product portfolio. Such forward-looking statements and information are provided by the Company based on current expectations of the Company and reflect various assumptions of management concerning the future performance of the Company, and are subject to significant business, economic and competitive risks, uncertainties and contingencies, many of which are beyond the control of the Company. These risks, uncertainties and other factors are further described under “Risk Factors,” “Management’s Discussion and Analysis of Financial Condition and Results of Operations” and elsewhere in the documents filed by the Company with the Securities and Exchange Commission from time to time. Accordingly, there can be no guarantee that such forward-looking statements or information will be realized. Actual results may differ materially from historical results and expectations based on forward-looking statements made in this document or elsewhere by or on the Company’s behalf. No representations or warranties are made as to the accuracy or reasonableness of any expectations or assumptions or the forward-looking statements or information based thereon. Each recipient of forward-looking statements should make an independent assessment of the merits of and not to place undue reliance upon such forward-looking statements, including projections, and should consult its own professional advisors. Except as required by law, we undertake no obligation to publicly update forward-looking statements, whether as a result of new information, future events, or otherwise.



AMTECH at-a-Glance

Positioned for strategic growth

Founded in 1981, Amtech Systems is a global supplier of semiconductor equipment and consumables to the power semiconductor industry



\$1.0B+ Total Addressable Market

1.3x YTD Book-to-Bill Ratio (June 2022)

Global supplier of leading premier brand name products

7 locations across four countries

40 years in business

312 employees





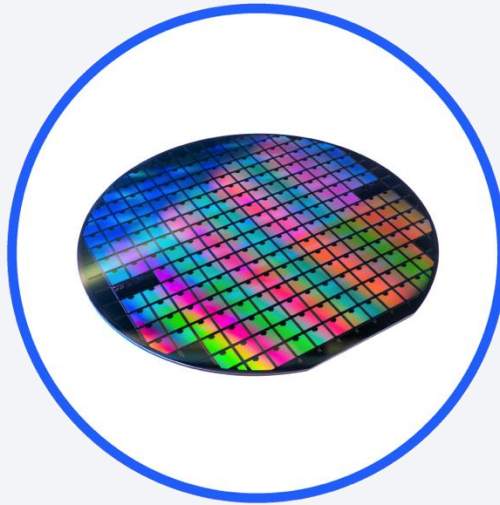
Semiconductor Ecosystem



Wafer

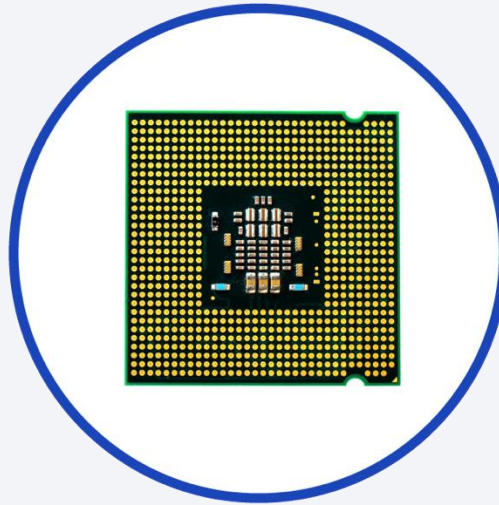
PR HOFFMAN
AMTECH GROUP

**INTERSURFACE
DYNAMICS**
AMTECH GROUP



Power Devices

**BRUCE
TECHNOLOGIES**
AMTECH GROUP



Semiconductor Package

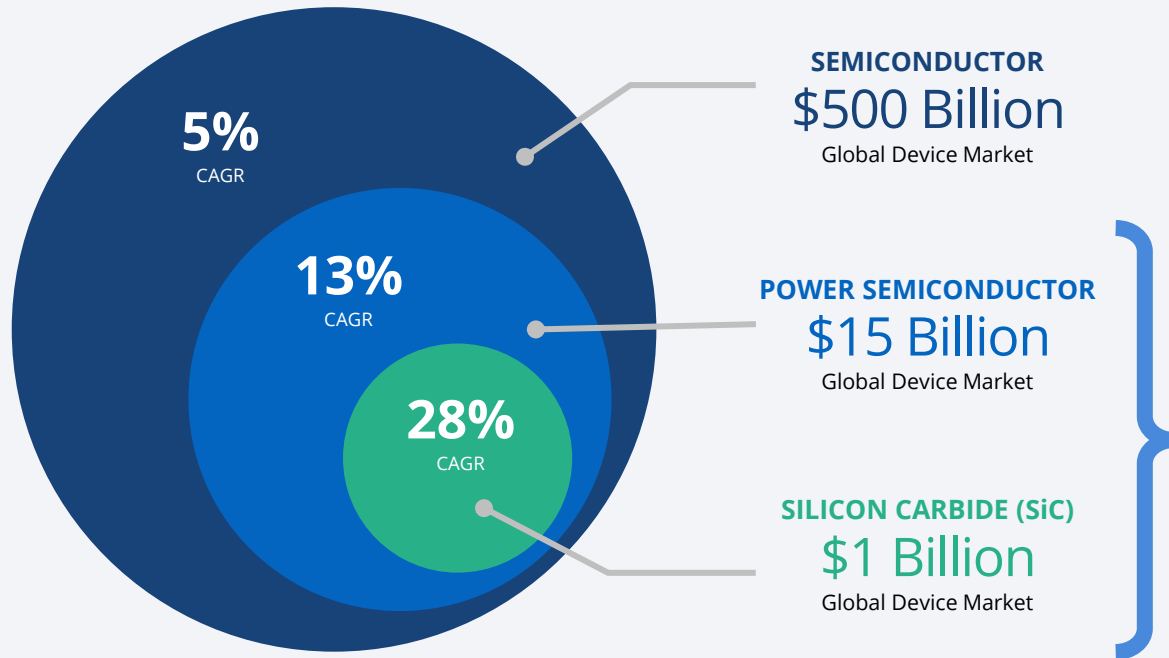
BTU International
AMTECH GROUP



Electronics Assembly



Strategic Focus on Silicon Carbide and Power Semiconductor Sectors



By focusing specifically on two high-growth sectors of the semiconductor market, **Silicon Carbide** and **Power Semiconductors**, we plan to **maximize our revenue** and **expand our operations**.

Source: Yole, Market Research Future and Fortune Insight

Power semiconductors are embedded in virtually everything and are the foundation of megatrend technologies



Renewable Energy



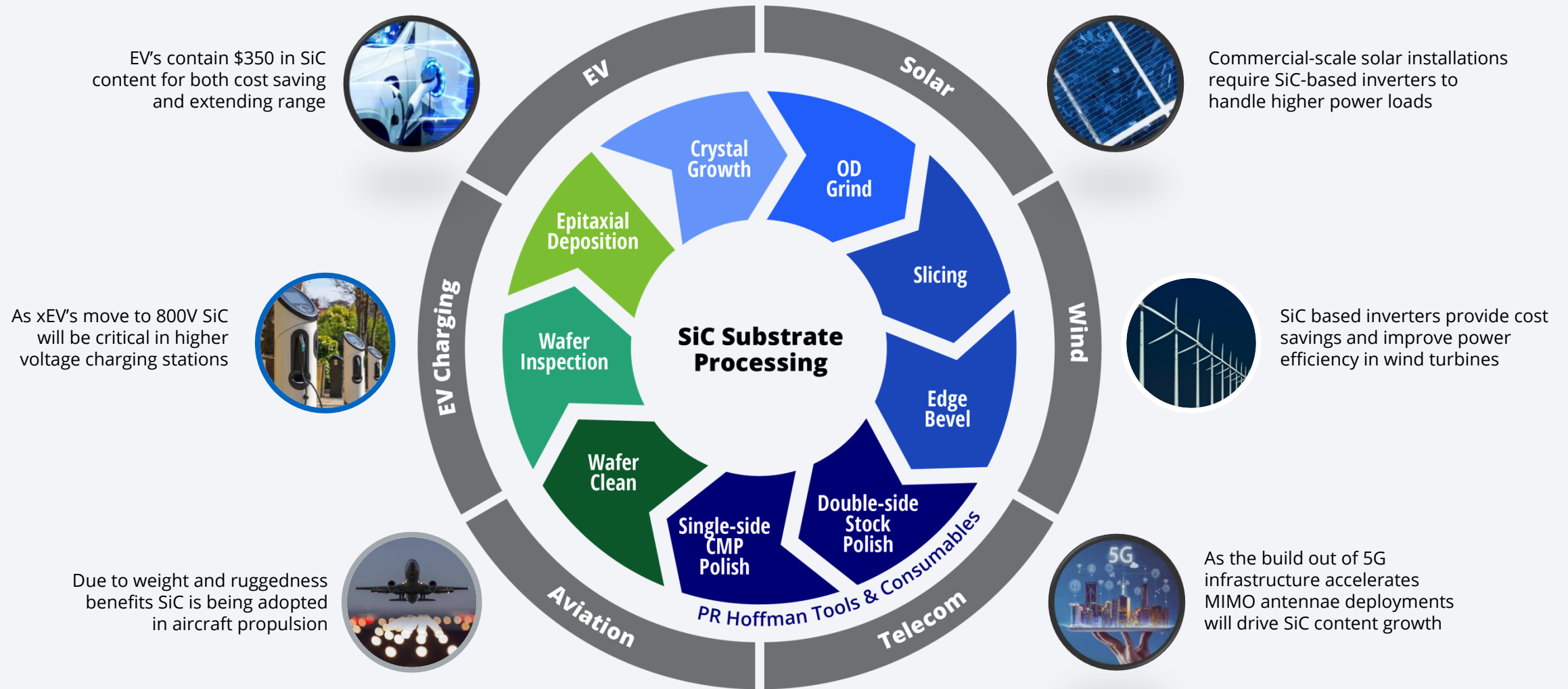
Automotive



Telecom



Silicon Carbide Value Cycle

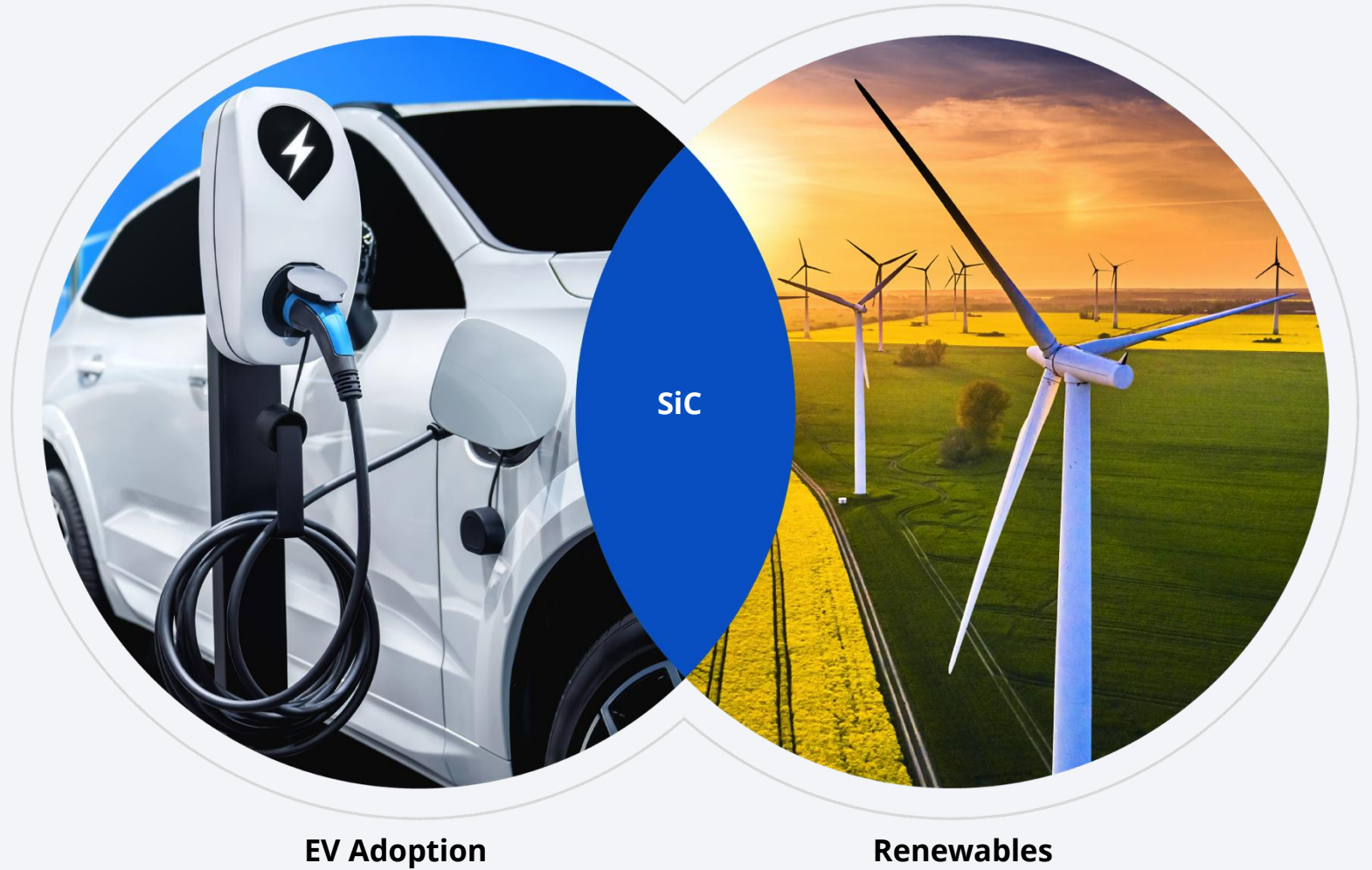
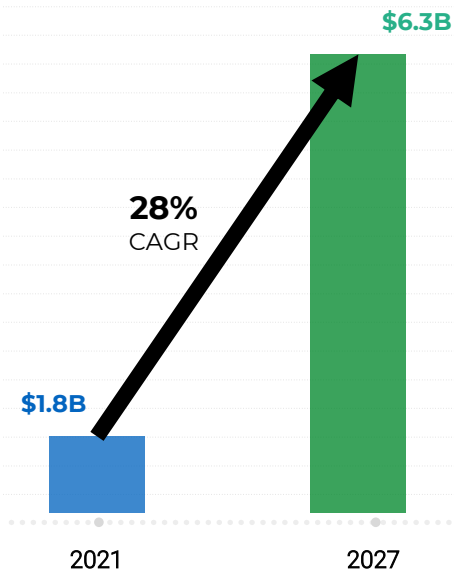


*Source: Cowen, Compound Semiconductors: The Crown Joule of High Voltage, May 2022

SILICON CARBIDE GROWTH DRIVERS

Silicon Carbide (SiC)
is highly levered to
multiple disruptive
markets

SiC FORECAST





Silicon Carbide (SiC): Accelerating the Adoption of Electric Vehicles



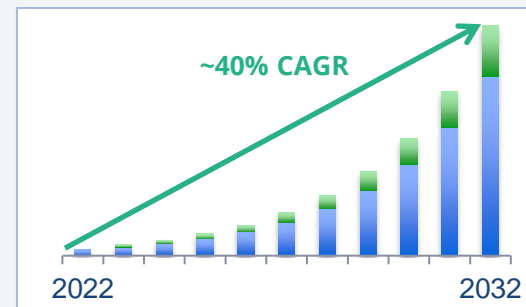
**Automotive market
will represent 79%
of the Worldwide
SiC device market
in 2027¹**

¹Source: YOLE Power SiC Market & Technology
Report 2021



Electric vehicles in operation are forecast to grow at ~40% CAGR over next decade with DCFC expected to outpace overall market growth.²

²Source: Bloomberg New Energy Finance, EVgo estimates.



Key Automotive Applications:

- EV Inverters
- EV On-Board Charging
- EV Fast-Charging Stations





Efficient high-voltage power conversion and transmission is a gating factor to clean energy adoption.

As the world becomes increasingly interested in clean energy, the need for semiconductors that can handle high temperatures and voltages grows. Silicon carbide is a material that meets this need, and its advantages are becoming more and more evident.

Key Advantages:

- High thermal conductivity
- High-frequency switching
- Larger device current



Silicon Carbide (SiC) advantages for EV and Renewable Energy



ENABLING SOLUTIONS THAT ARE MORE EFFICIENT, SMALLER, AND MORE COST-EFFECTIVE (than silicon)



Enhancing EV Performance

- 20% increase in EV battery range
- Creates lower-cost, energy-efficient fast chargers¹
- Reduces the size of battery needed
- Faster charging time



Renewable Energy Systems

- More reliable and deliver superior performance in handling grid-scale voltages²
- Enables high-frequency switching without loss of efficiency
- Significant increase in power conversion efficiency and associated energy storage³
- Smaller and lighter equipment with lower capital, installation and maintenance costs³

¹www.energy.gov

²www.powerelectronicsnews.com

³https://www.infineon.com/dgdl/Infineon-Next_level_power_density_in_solar_and_energy_storage_with_silicon_carbide_MOSFETs-Whitepaper-v01_00-EN.pdf





COMPETITIVE ADVANTAGE

Positioned to Capture the Market Opportunity

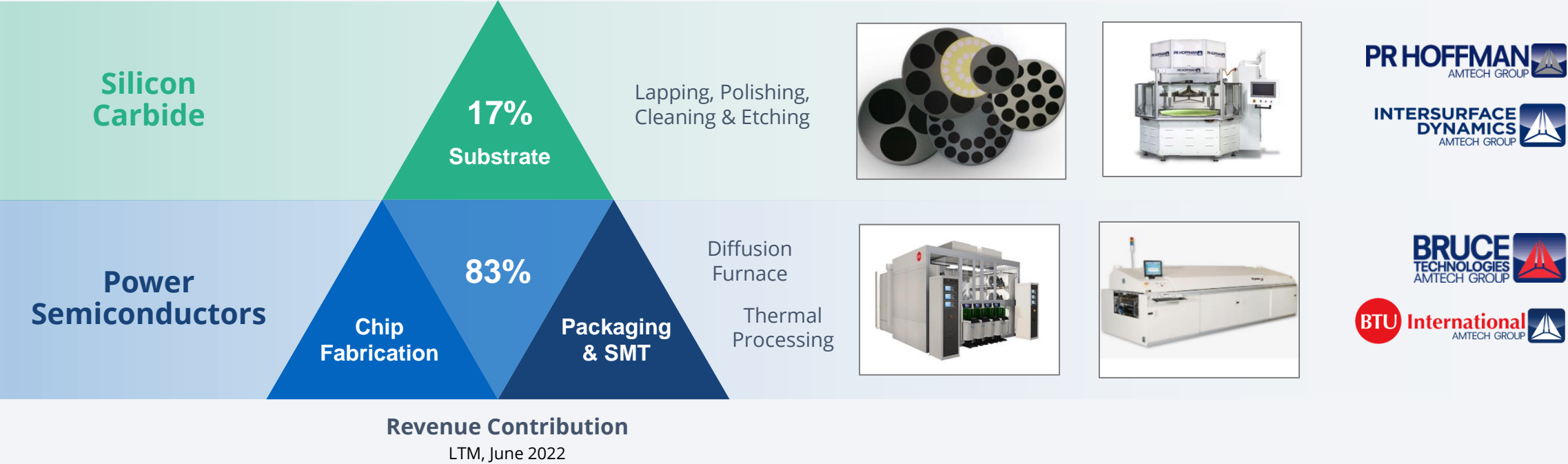


POSITIONED FOR GROWTH

Diversified product portfolio for the semiconductor market



Addressing several fundamental process steps in chip manufacturing



Supporting EV growth across the entire portfolio



LAPPING, POLISHING,
CLEANING & ETCH PRODUCTS

Highly levered to Silicon Carbide (SiC) Market



Customers account for:

>80% of SiC
substrate
market share

Market Leading

In lapping & polishing consumables & machines for SiC/GaN, Si & LED

Strong Growth Potential

Next-generation products closely aligned with SiC growth opportunities

Dominant Customer Base

Top 2 customers account for >80% of SiC substrate market share

Premier Brands



POLISHING TEMPLATES

CARRIERS

CHEMICALS

MACHINES



Supporting EV growth across the entire portfolio

**Serving Multiple
Industries Including:
Automotive, RF,
Consumer & Industrial
Electronics, Mobility,
and Computing**

Serving top players in the
market including the

#1 power
semiconductor
producer

Leadership Position

Top 300mm HTR Diffusion Furnace for
power semiconductor fabs

Robust Growth Outlook

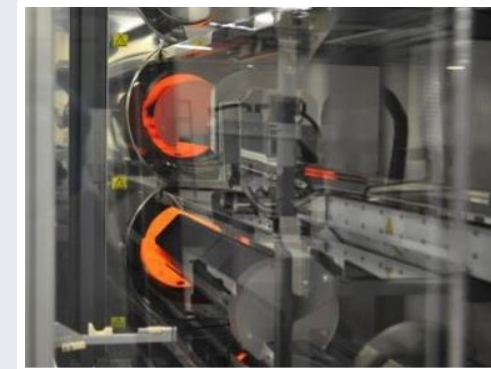
Broad need for high power applications and
growth in xEV and auto electronics content

Dominant Customer Base

Serving top players in the market including
the #1 power semiconductor producer

Premier Brand

Serving Industry Since 1968



HTR DIFFUSION FURNACE



300mm CLUSTERED HTR
DIFFUSION FURNACE SYSTEM

DIFFUSION FURNACES



Supporting EV growth across the entire portfolio

High performance products for power chip fabrication



Foundation for overall
growth opportunities

>80% OF REVENUE*

*Including Bruce Diffusion
products



Revenue Foundation

funding overall growth opportunities

Industry Level Growth

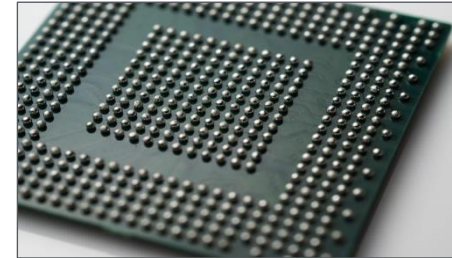
Growth rates track semiconductor industry
growth cycles

Automotive Alignment

Strong participation across multiple product
lines and applications for key components in
both ICE and EV supply chain

Premier Brand

Serving Industry Since 1950



ADVANCED PACKAGING

SMT FOR ELECTRONICS

SELECTIVE SOLDERING

CUSTOM FURNACES



Supporting EV growth across the entire portfolio

STREAMLINED AND FOCUSED ON SEMICONDUCTOR GROWTH

Acquisition Timeline

1996
Founded 1938



PR HOFFMAN
AMTECH GROUP

Substrate
Lapping, Polishing, Cleaning, Etching

2005
Founded 1968



BRUCE TECHNOLOGIES
AMTECH GROUP

Chip Fabrication
Diffusion Furnace

2015
Founded 1950



BTU International
AMTECH GROUP

Packaging & SMT
Thermal Processing

2021
Founded 1985



INTERSURFACE DYNAMICS
AMTECH GROUP

Process Chemicals
Semiconductor and semiconductor materials





FINANCIAL DISCIPLINE

Capital Allocation to Support Long-Term Growth



Ample liquidity to invest in profitable growth opportunities

STRONG BALANCE SHEET (as of June 30, 2022)



\$48M

Cash & Cash Equivalents

\$94.6M

Shareholders Equity

\$131M

Total Assets

14.2M

Weighted Average Diluted
Shares Outstanding

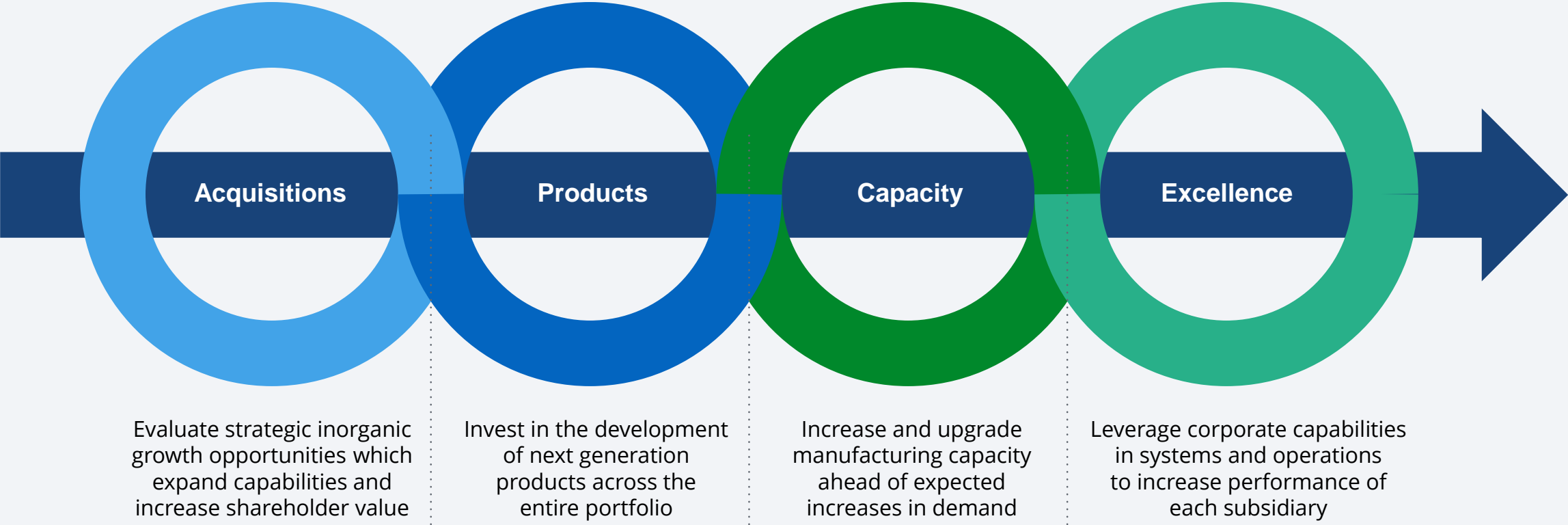




Our Strategy for Sustainable Growth

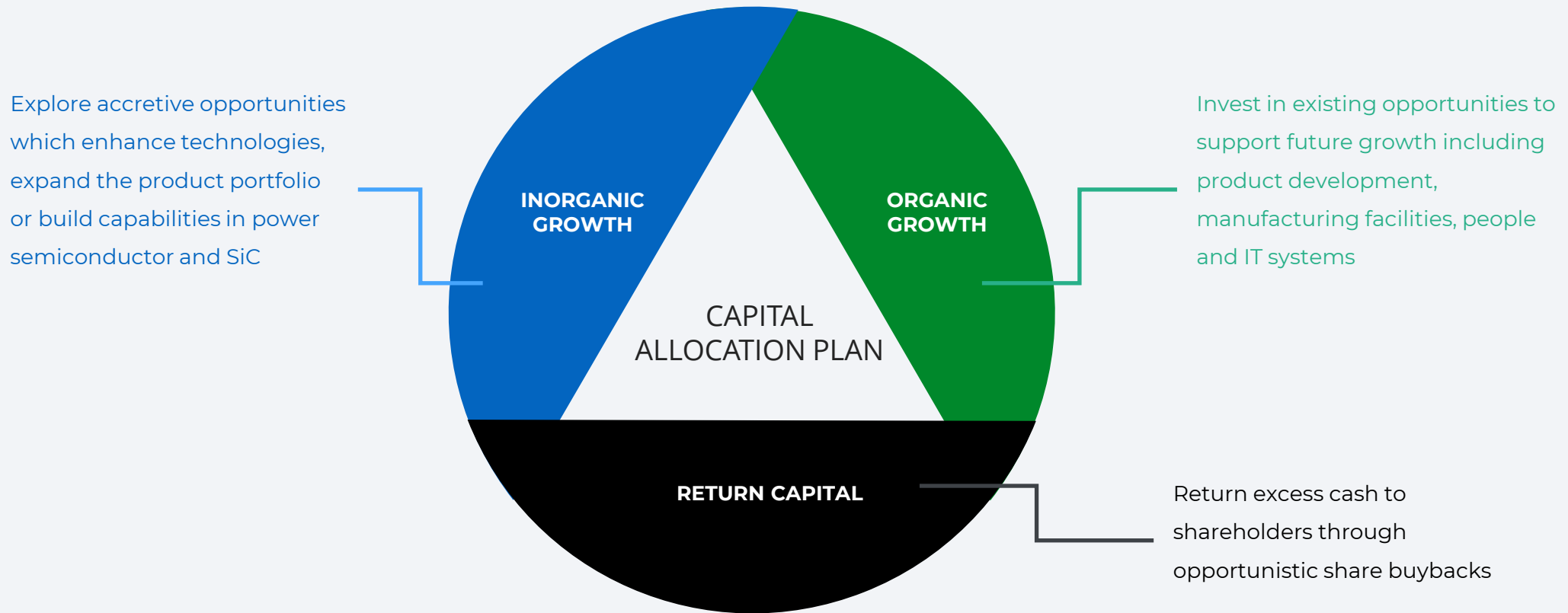


By focusing specifically on two high-growth sectors of the semiconductor market, Silicon Carbide and Power Semiconductors, we plan to maximize our revenue and expand our operations.





Opportunities are evaluated based on their ability to increase shareholder value over time





INVESTMENT OPPORTUNITY

Supplying Essential Semiconductor Equipment Worldwide

Capitalizing on the demand for SiC devices



FOCUSED

Focused on two high-growth sectors: Silicon Carbide and Power Semiconductor



AGILE

Diversified product portfolio with ability to move with the market through acquisitions



RESOURCED

Strong financial profile and long-term operating leverage to invest in growth opportunities

