

MALAYSIAN PACIFIC INDUSTRIES BERHAD

INVESTOR RELATIONS CONTACT



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Malaysian Pacific Industries Berhad

INVESTOR PRESENTATION

Q4 FY2023 (Apr-Jun '23)

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Business overview



MPI – A MEMBER OF THE HONG LEONG GROUP

Hong Leong Group and MPI

- The Hong Leong Group was established over 50 years ago and is one of the largest conglomerates in Asia
- Carsem and Dynacraft are operating companies within Malaysian Pacific Industries, which is a part of the Manufacturing & Distribution Services segment of Hong Leong Group
- Carsem was acquired by Hong Leong over 30 years ago
- Carsem has 49 years experience in semiconductor assembly and testing
- Today, Carsem is one the most trusted and recognized names in the Outsourced Semiconductor Assembly & Test (OSAT) Industry

Hong Leong Group Holdings

- Banking & Financial Services segment (2) is the largest segment with over 300 banks in Asia including insurance services
- Property Development & Investment segment (3) builds and manages commercial and residential real estate around the world
- Hospitality & Leisure segment (4) is comprised of hotel and casino operators in Macau and Las Vegas
- Hong Leong continues to grow by acquisition and owns more than 50% stake in each of their group companies





Financial performance snapshot

Revenue (RM million)

482

Q4 FY23

Net cash (RM million)

801

as of Q4 FY23

Note: FY23 = July 2022 – June 2023

STRONG FUNDAMENTALS CREATE BUSINESS RESILIENCE IN TOUGH TIMES



Malaysian Pacific Industries Berhad

Business outlook

- Trends, such as the switch to battery electric vehicles, autonomous driving, vehicle connectivity;
 - Robust growth in computing (servers), and in industrial & renewable energy segments;

 - Elevated inventory levels and dipping chip prices;
 - End market demand drop and deferment; and
 - Industrywide talent scarcity
- Prudent cost management measures such as energy consumption optimisation, freight cost reduction, etc.;
 - Close collaboration with customers to ensure a healthy overall sales pipeline short & long term;
 - Capacity expansions at China and Malaysia a reliable supply centre based out of Malaysia and China;
- Strong cash position to pursue technology/ company acquisitions to move further into advanced packaging space;



Semiconductor industry

growth has slowed

down



Economic headwinds (inflation and recessionary risks) persist leading to sluggish end consumer demand environment (global GDP growth to drop to 3% in 2023, as per IMF);

• Weak 2023 outlook with expectations of a 11% drop in semiconductor industry revenue vs. 2022 (Gartner); • Elevated inventory levels and dipping chip prices are fueling the slowdown in semiconductor industry

• Adoption of 5G, digitalisation, artificial intelligence, and sensing devices • Intelligent applications such as smart watches, etc.

Long term growth drivers

• Higher costs – labour, energy, water, transportation, equipment, and raw materials from suppliers;

• upskilling and specialized hiring plans in place

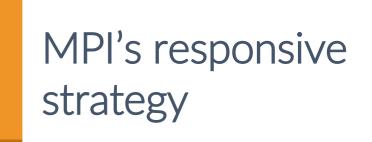
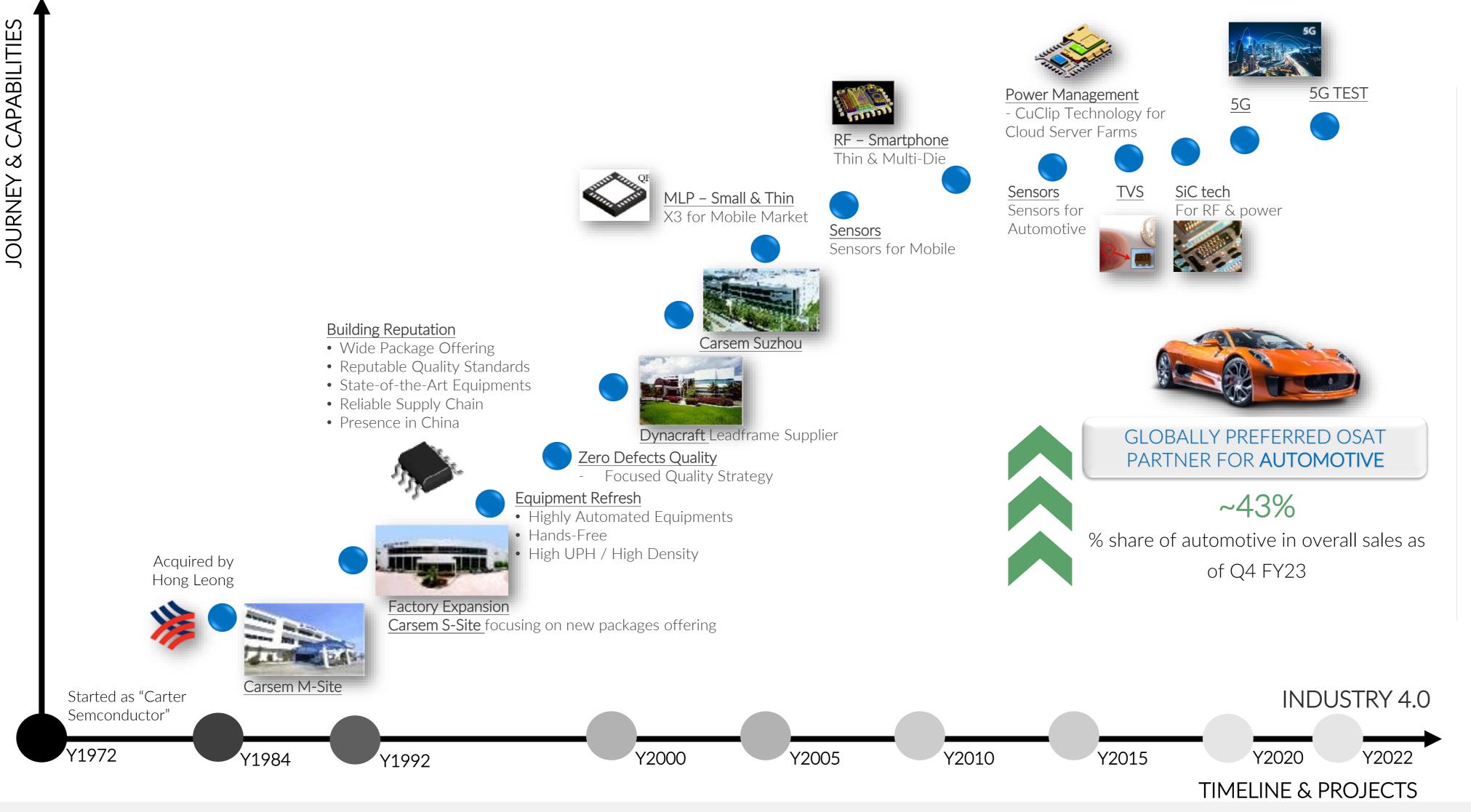


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Malaysian Pacific Industries Berhad

Our journey

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Carsem One of the most trusted OSAT partners globally

100% Malaysian

Healthy Balance Sheet (Equity to debt 100:0)

Semiconductor Experience – 50 years

Board of Directors

YBHG DATUK KWEK LENG SAN

CHAIRMAN; Non-Executive/ Non-Independent

- Appointed to BoD of MPI in Jul 1990, and as GMD of MPI from Sept 1990-Aug 1993; Member of the nominating committee
- Chairman of Hong Leong Industries Bhd., Hume Industries Bhd., and Southern Steel Bhd.; Director of Hong Leong Company (Malaysia) Bhd

MANUEL ZARAUZA

GROUP MANAGING DIRECTOR/ Non-Independent

- Over 25 years of experience across various manufacturing sectors
- April 2015-Aug 2016: Joined HLMG Management as its Managing Director
- Aug 2016-Present: Group Managing Director of MPI

YBHG DATO' MOHAMAD KAMARUDIN **BIN HASSAN**

Non-Executive Director/ Independent

- Mar 2015: Appointed to board of MPI, and is a member of the Board Audit & Risk Management Committee of MPI
- Is a Director of Duopharma Biotech Bhd and Muhibbah Engineering (M) Bhd, and ManagePay Systems Bhd

DR TUNKU ALINA BINTI RAJA MUHD ALIAS

Non-Executive Director/Independent

- member of Nominating Committee of MPI Bhd, MBSB Bank Bhd and Raja Alias Foundation Alina); Managing Partner till 2011, Consultant now
- Jan 2018: Appointed to board of MPI, and is a • Is a Director of IJM Corporation Bhd, Batu Kawan • 1992: Set-up legal firm (Wong Lu Peen & Tunku



IR. DENNIS ONG LEE KHIAN

Non-Executive Director/ Independent

- Nov 2014: Appointed to board of MPI; is the Chairman of the Nominating Committee and a member of the Board Audit & Risk Management Committee of MPI
- Held directorships in Shell Malaysia Trading Sdn Bhd, Champ Distributors Sdn Bhd, Lubetech Sdn Bhd, Assar Chemical Dua Sdn Bhd and was the Chairman of the Board for UMW Pennzoil Distributors Sdn Bhd.

MS FOO AI LI

Non-Executive Director/ Independent

- Appointed as an Independent Non-Executive Director of the Company on 1 September 2021.
- She is presently attached to CDC Consulting Sdn Bhd providing advisory work.
- Her last position in the energy industry was as the Chief Financial Officer of Hengyuan Refining Company Berhad (formerly Shell Refining Company (FOM) Berhad) from 2016 to 2019.



Management team



MANUEL ZARAUZA, GROUP MANAGING DIRECTOR, MPI

Over 25 years of manufacturing sector experience; Previously with Siemens, Osram Opto Semiconductors, and Seoul Semiconductor



ERIC CHEAH CFO, MPI

Extensive experience across large-scale semiconductor manufacturing & in KPMG



INDERJEET SINGH GM, CARSEM S-SITE, MY

Started his career at Carsem & went on to hold various management positions



Previously held senior leadership positions at NXP semiconductors

MANY YEARS OF CONSOLIDATED EXPERIENCE IN THE INDUSTRY



Malaysian Pacific Industries Berhad



MURALITHARAN GM, CARSEM M-SITE, MY



RAYMOND SHI GM, CARSEM SZ-SITE, CHINA

More than 20 years of experience with Carsem SZ handling operations



CK LEE HEAD, CARSEM CHINA

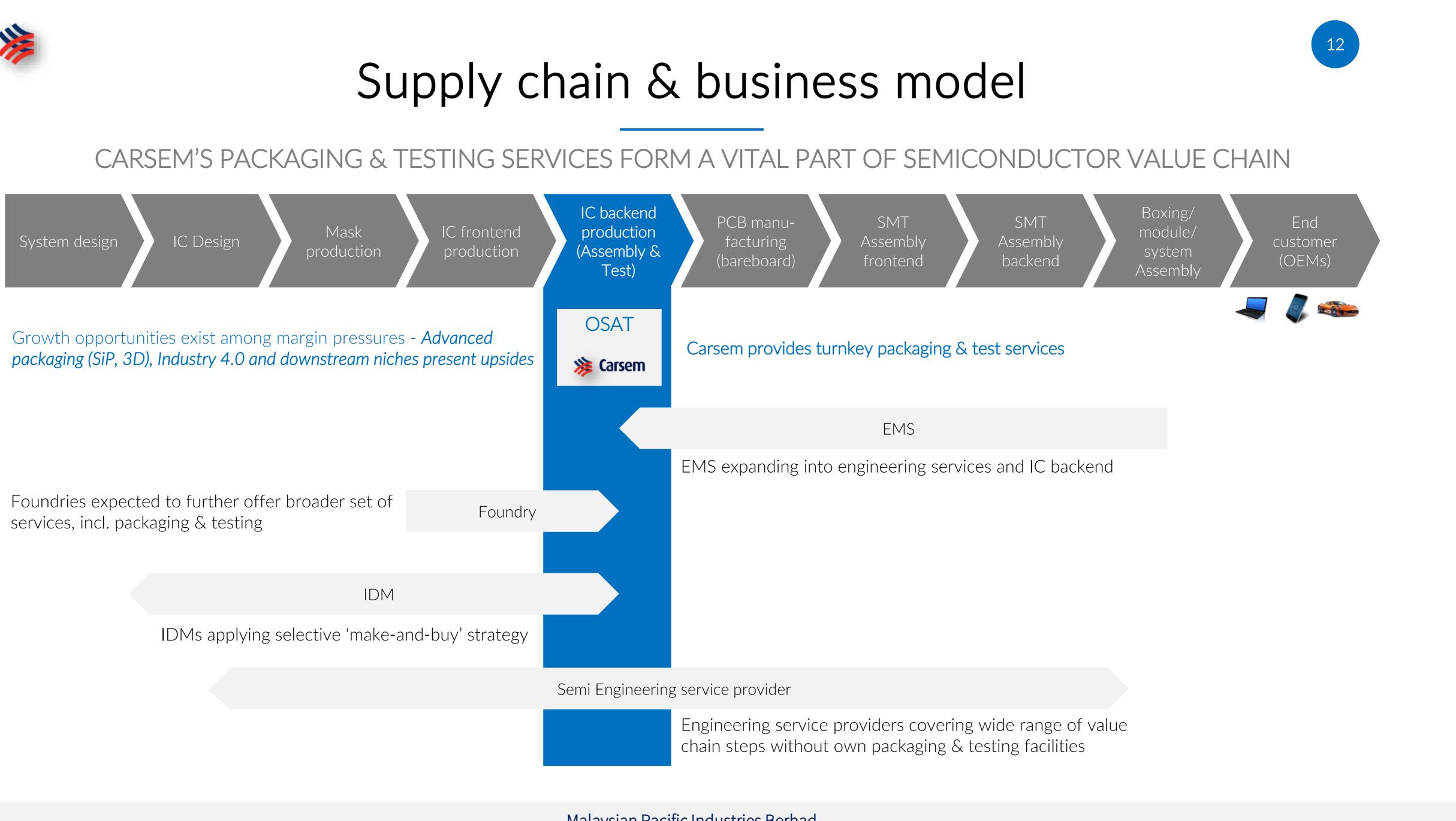
Started his career at Carsem & went on to hold various management positions



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Wide portfolio

COMPREHENSIVE TURNKEY PACKAGING & TEST SERVICES



ACROSS KEY APPLICATIONS



Industrial





Consumer & Communications

PC/ Notebook





Geographic footprint

BROAD GEOGRAPHIC PRESENCE, SERVING A GLOBAL CUSTOMER BASE

CARSEM NORTH AMERICA

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Manufacturing plants & Sales offices

0





Carsem (M-Site, Ipoh)

- Floor Space: 436K sq. ft. (40,500 sq. m.)
- Workforce: 2,261 employees
- GM: Muralitharan

Carsem (S-Site, Ipoh)

- Floor Space: 640K sq. ft. (60,000 sq. m.)
- Workforce: 3,152 employees
- GM: Inderjeet Singh

Carsem Suzhou, China

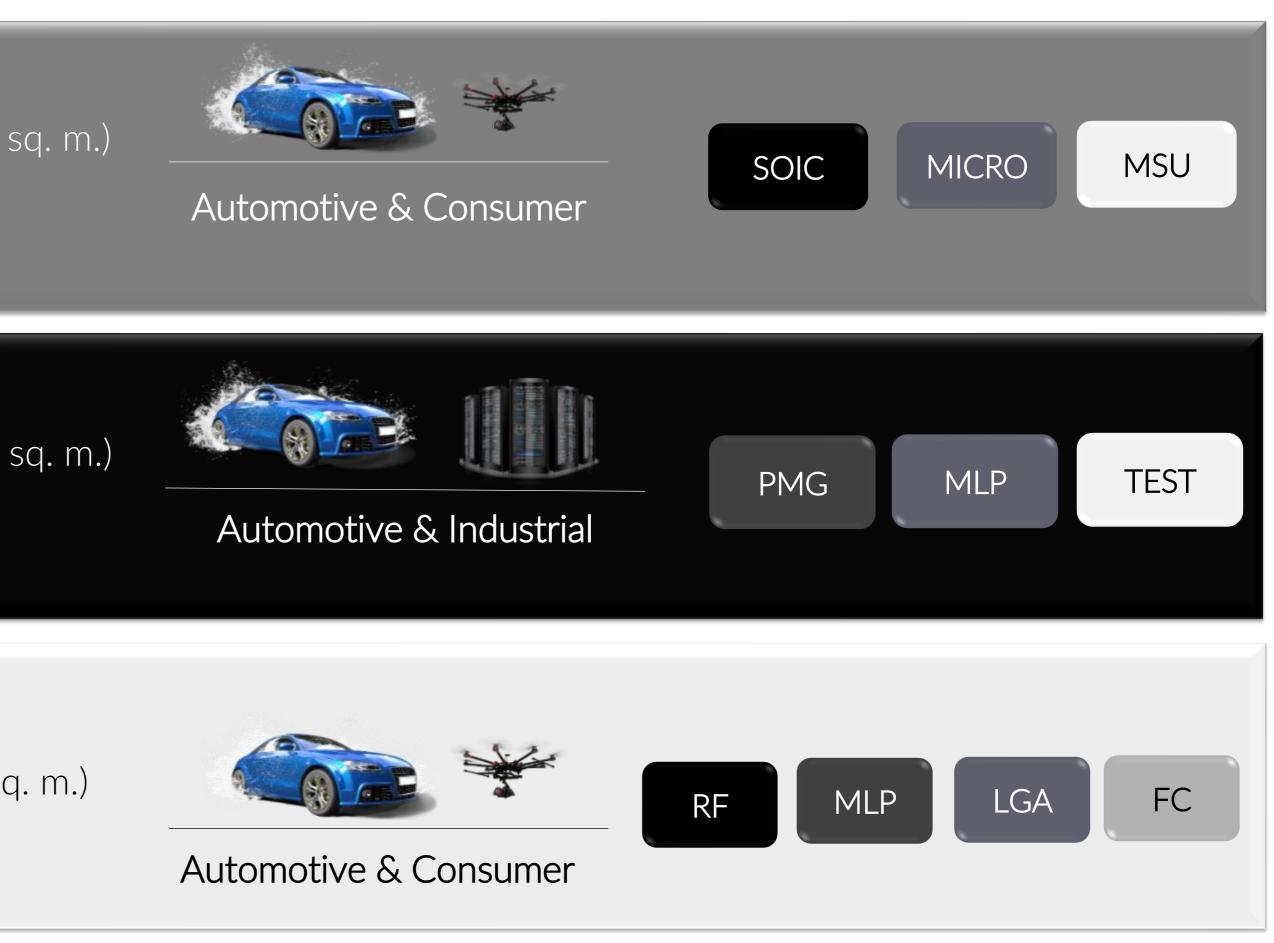
- •Floor Space: 600K sq. ft. (56,000 sq. m.)
- •Workforce: 1,877 employees
- •GM: Raymond Shi





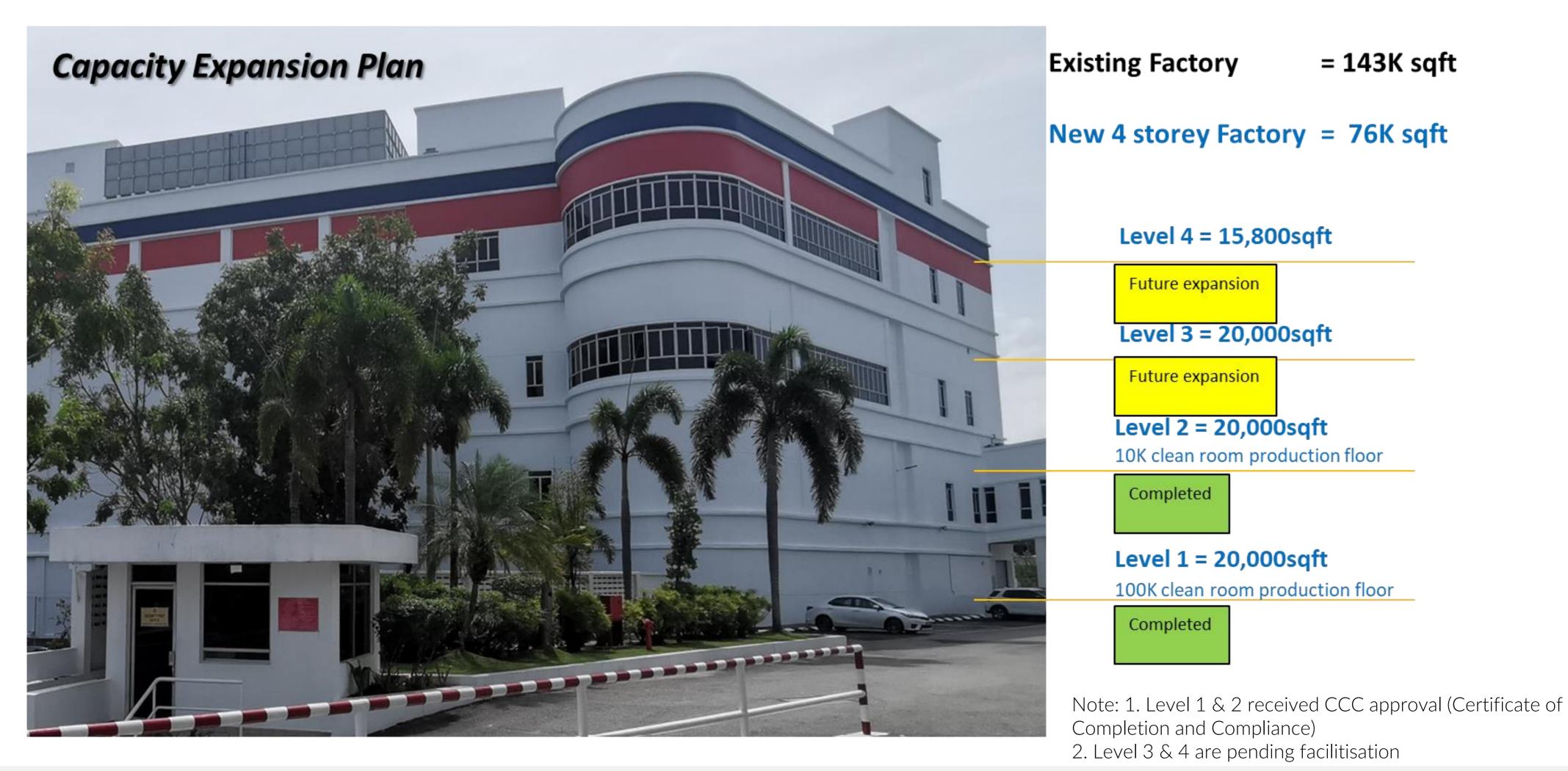


CARSEM MANUFACTURING SITES & BUSINESS UNITS





OUR FACTORY EXPANSION PLANS CONTINUE AT M-SITE





DESPITE NEAR TERM CHALLENGES, CONSTRUCTION OF NEW FACTORY AT SUXIANG IN CHINA CONTINUES



2023-Apr Foundation work 2023-May Foundation work 2023-Jun Scaffolding work

2023-Jul

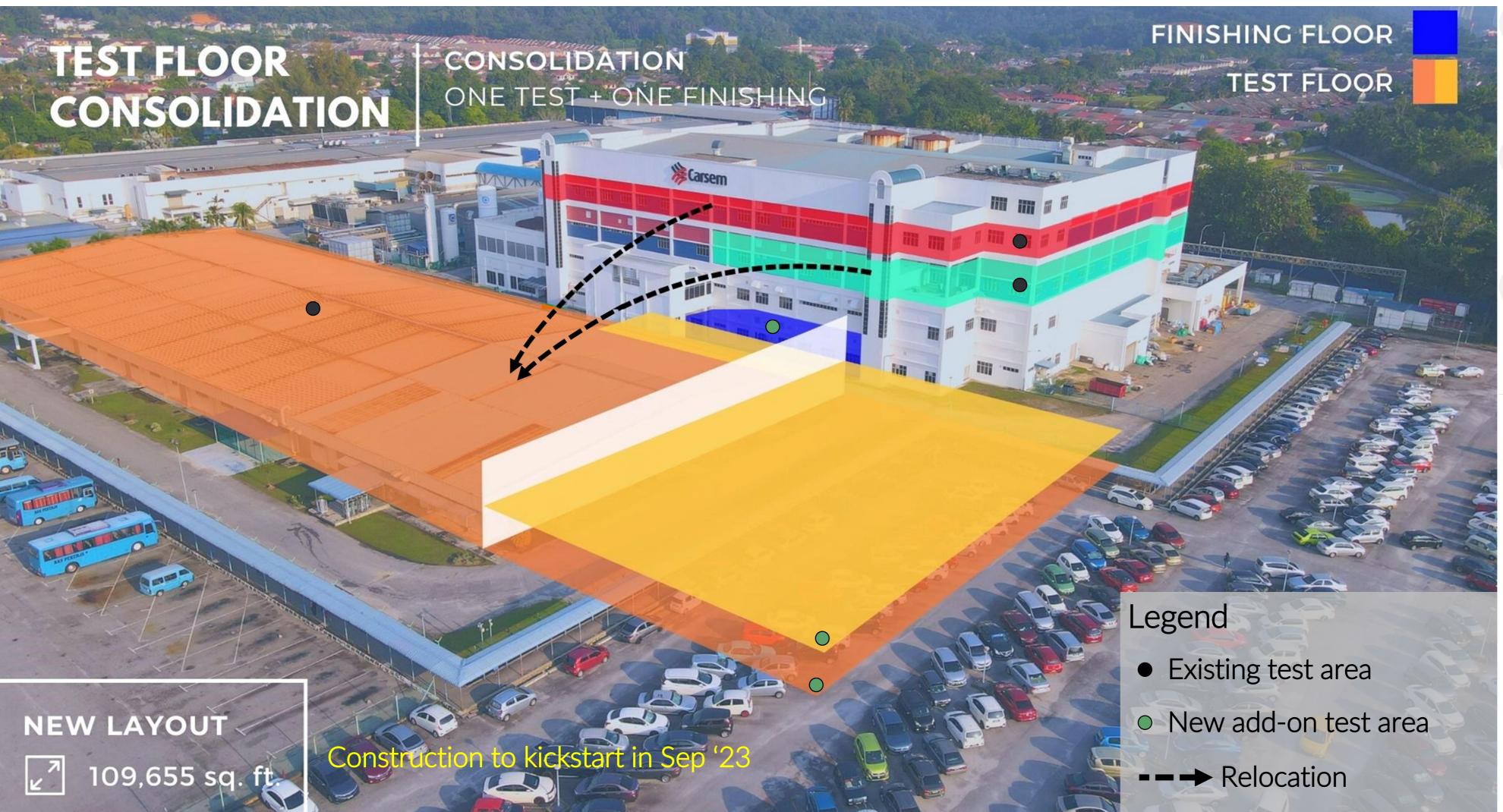




Production expected to commence by 2025



INVESTING AT S-SITE TO STRENGTHEN CAPABILITIES FOR THE GROWING AUTOMOTIVE & INDUSTRIAL SEGMENTS



1 Equipment standardization

Replacing current legacy handlers with newer high efficiency test handlers

One floor consolidation 2

Expanding test floor to support the additional machines

Test automation 3

Overhead tunnel

Benefits

- ✓ Achieve world class OEE
- ✓ Eliminate variance of test machines
- ✓ Consolidate floor space
- ✓ Automate test operations (Industry4.0, AI)
- ✓ Develop 5G capabilities

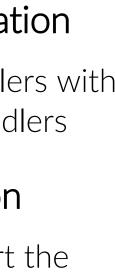




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Sustainability performance



FY23 PERFORMANCE SNAPSHOT





Sustainability at MPI

OUR APPROACH IS RESPONSIBLE & RESPONSIVE, DRIVEN BY 3 THEMES





UN Sustainable Development Goals

6 PRIORITY SDGs MOST ALIGNED WITH OUR BUSINESS





| 5 a | MPI makes a significant contribution towards employment and economic growth | 8 DECENT WORK AND ECONOMIC GROWTH |
|-----------|-------------------------------------------------------------------------------------------------------|----------------------------------------------|
| ire :y | MPI actively focuses on innovation, technology and related infrastructure development | 9 INDUSTRY, INNOVATION AND INFRASTRUCTURE |
| nt | MPI has a role to play in emissions control, energy efficiency improvement and waste management | 13 CLIMATE ACTION |

22







GM gembawalk to IETS system



Initial discussion with NGO @ DOE to organise River Cleaning Program at Sungai Meru

GM gembawalk to final water discharge point







Carsem M has also collaborated with the Department of Environment to organise Environment Day and "Kempen Sembang Sungai Meru

Environment

IMPROVING PREPAREDNESS AND RECEIVING RECOGNITION



In 2022, Carsem M was specially invited to participate in the Perak State level National Environment Day Ceremony officiated by the Menteri Besar of Perak, YAB Dato' Seri Shaarani





EMPLOYEE AWARENESS

EMERGENCY PREPAREDNESS & RESPONSE



Safety committee meeting



Health & safety





Plant inspection



Plant inspection



5S audit



Machinery inspection

Accident investigation



Safety committee meeting





TRAINING & UPSKILLING IS AMONG OUR TOPMOST STRATEGIC PRIORITIES

Online & offline training - ISO37001 Training, Automotive Series Training, Engineer Core Competency – DOE, 8D, Customized Course – Leadership Series



ISO37001 Standard Training





DOE Training



Training & education

Automotive Series Training

8D & 3X5 Why Training

Feam Bonding Training

Team Bonding Training





Training, sports & recreation

Continuous education program for chemical handlers and noise hearing conservation











Carsem C.E.R.I.A & Hong Leong Sports carnival







Anti-bribery & anti-corruption

LEADING ETHICALLY & TRANSPARENTLY

Certification for implementing Anti-Bribery Management Systems, complying with ISO 37001:2016.

| Operating subsidiaries | Certifying authority | Statı |
|---------------------------|-------------------------------------------------------|-------|
| Carsem M | SIRIM QAS International Sdn. Bhd. | Re-c |
| Carsem SZ | Shanghai Ingeer Certification Assessment Co., Ltd. | Cert |
| DCI | SIRIM QAS International | Cert |



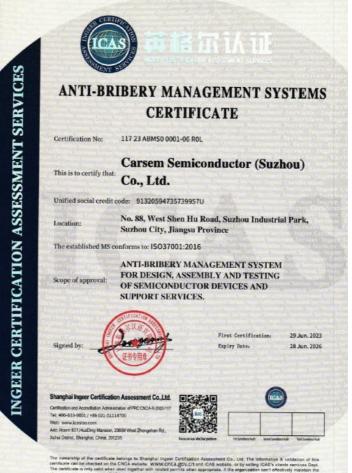
US

certified in FY23

tified in FY23

tified in FY23







MALAYSIAN PACIFIC INDUSTRIES BERHAD (INCLUDING CARSEM (M) SDN. BHD. AND DYNACRAFT INDUSTRIES SDN. BHD.) CARSEM (M) SDN. BHD. - M SITE JALAN LAPANGAN TERBANG 31350 IPOH PERAK DARUL RIDZUAN MALAYSIA

QAS

CERTIFICATE



ISO 37001:2016 MS ISO 37001:2016 ANTI-BRIBERY MANAGEMENT SYSTEMS – REQUIREMENTS WITH GUIDANCE FOR USE

Scope of Certification

ANTI-BRIBERY MANAGEMENT SYSTEM FOR DESIGN AND ASSEMBLY OF SEMICONDUCTOR DEVICES.

Certification structure = Multi-site The validity of this certificate depends on the validity of the main site certificate.



BALAYSE Tel: 80-3-5544640 Fax: 60-3-5544678

http://www.airim-gas.com.my /www.replantiancertified.com.my

26 April 2023 Issue date 31 March 2021 Original certification : 30 March 2024 Expiry date ABMS 00188-S1 Certificate no.

mailie 1____ Nur Fadhllah binti Muhammad Chief Executive Officer SIRIM QAS International Sdn. Bhd.



CERTIFICATE



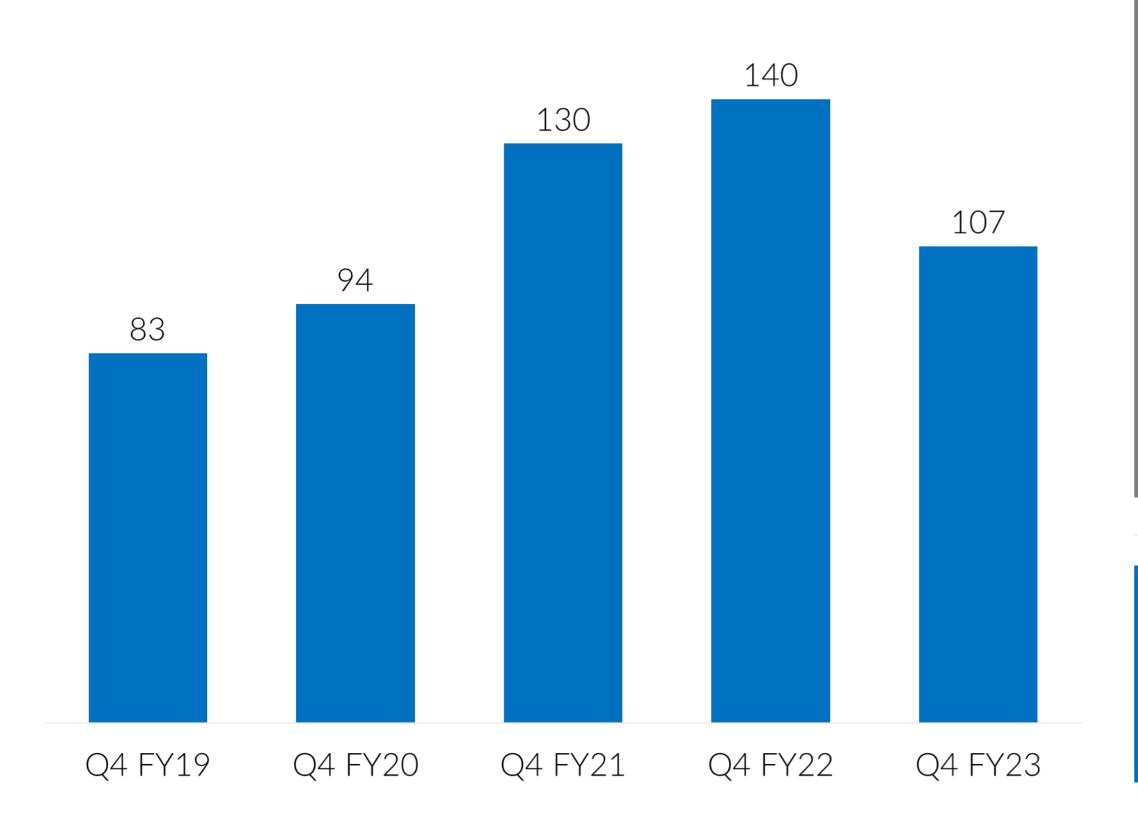
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GLOBAL SEMICONDUCTOR INDUSTRY REVENUE IS EXPECTED TO DECLINE BY 11% IN 2023

MPI Revenue (US\$ million)



Economic headwinds persist leading to weak end consumer demand environment

- ✓ Worldwide EV car sales up by 37% annually EV gaining market share - captured 19% of the market
- ✓ Global PC Shipment dropped drastically by 12% annually - slight pick up on quarterly basis, GaN to be the gamechanger
- ✓ Smartphone shipment fell further by 10% annually 6th consecutive quarter of decline

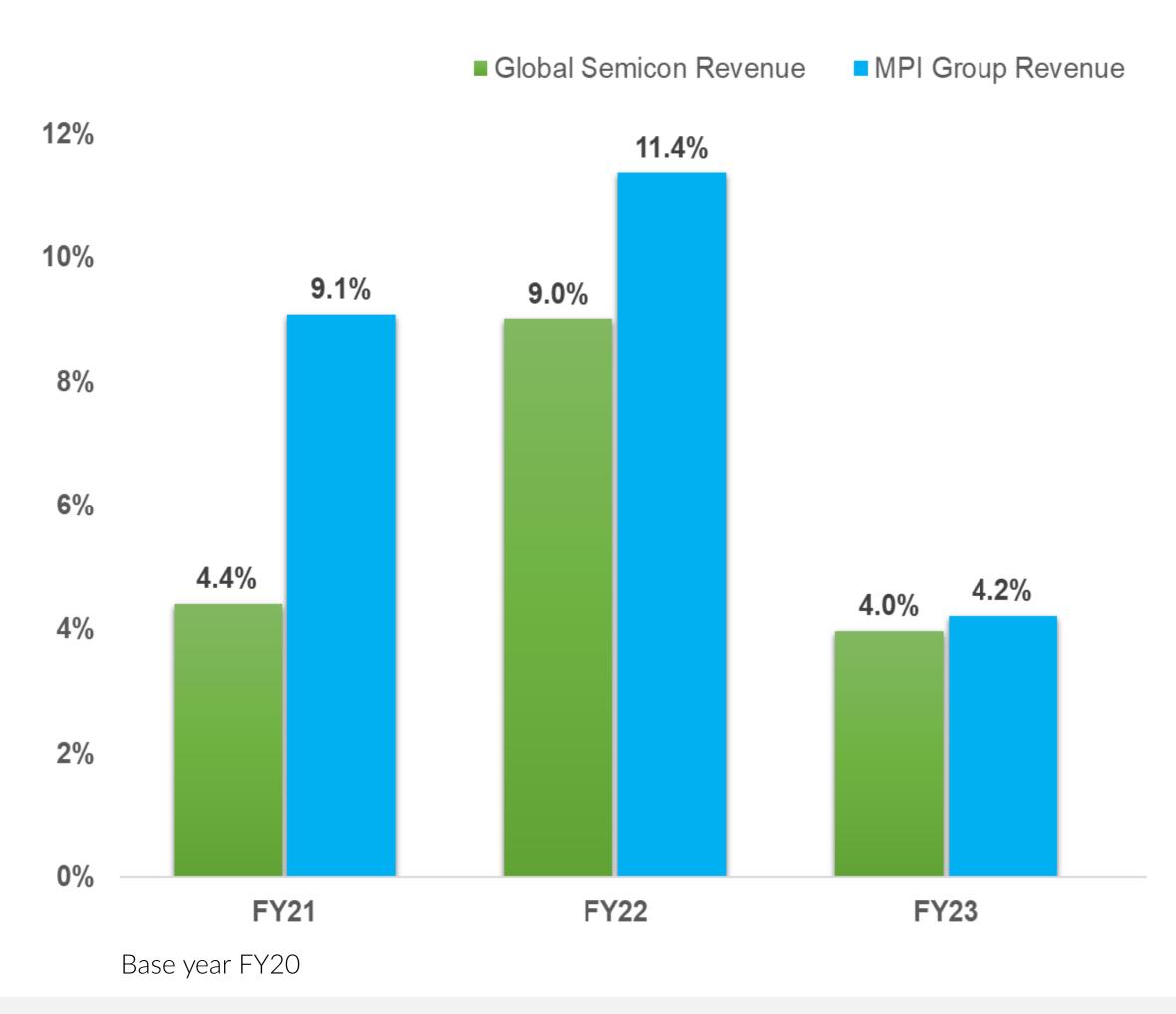
Elevating inventories & dipping chip prices, fueling the decline of semiconductor market







MPI HAS OUTPACED INDUSTRY GROWTH EVEN IN PREVALENT MARKET ADJUSTMENTS



Right strategy – market segment to play in, competitive pricing

Investments in growth areas

Anchor customers

Strong cash position





OTHER CHALLENGES IN SHORT TERM AFFECTING TOPLINE & BOTTOMLINE



Commercial electricity tariff hike

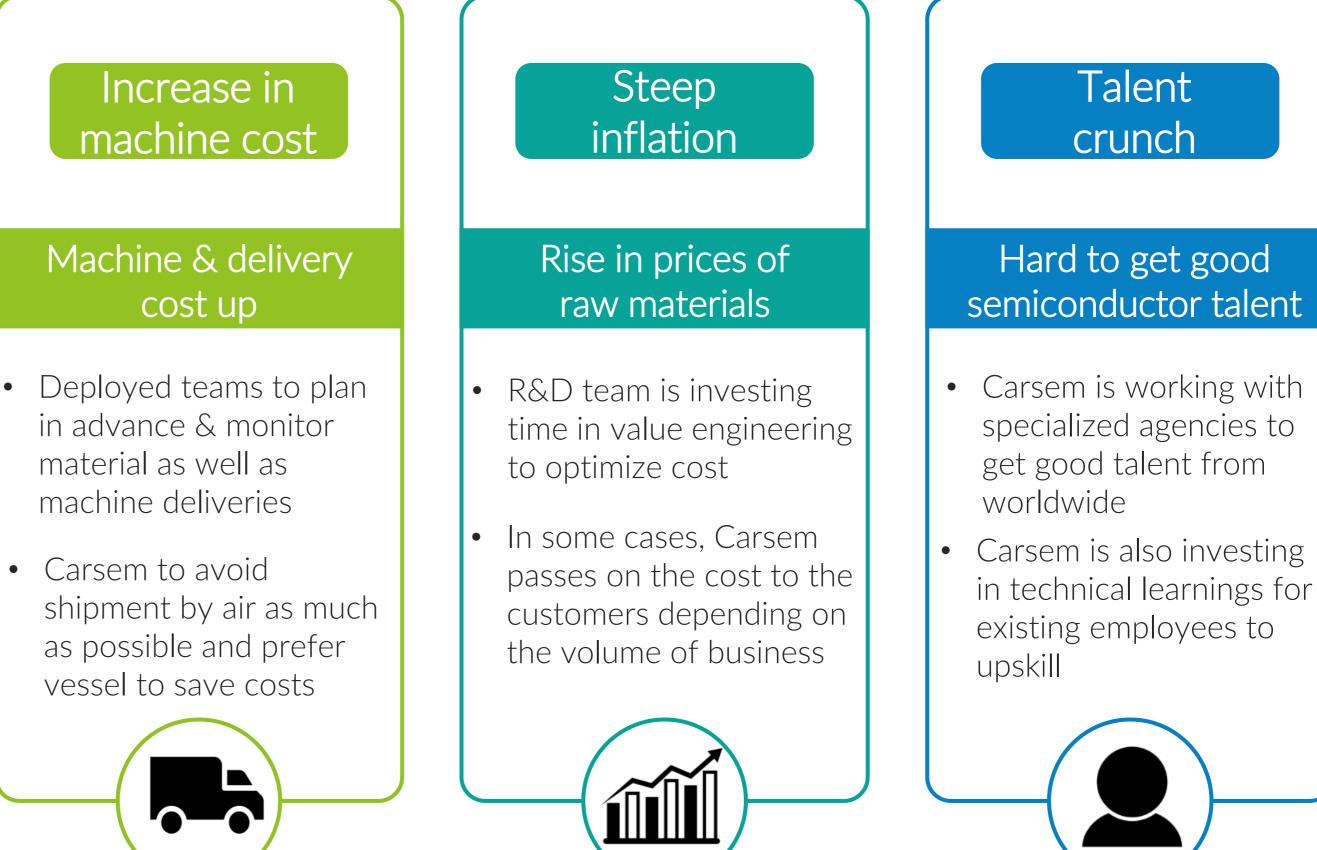
- Upgrading to efficient facility equipment, digital sensors to track electricity consumption and installing solar panels
- Requires substantial investment

Employee wages & working hours

Wage increase & 45 hour working week

- Driving plantwide digitalization & floor space consolidation
- Optimizing each resource to increase. plant wide productivity









MPI's response

COST PRUDENCE MEASURES – IMMEDIATE RESPONSE TO MARKET CONDITIONS



Smart Sense to monitor electricity on each machine

Digital transformation and automation initiatives for better OEE





Continuous measures are taken to make a positive impact on costs, make processes efficient and proliferate it to all the sites



Freight cost reduction by consolidating shipments bi-weekly



Alternative energy – Solar

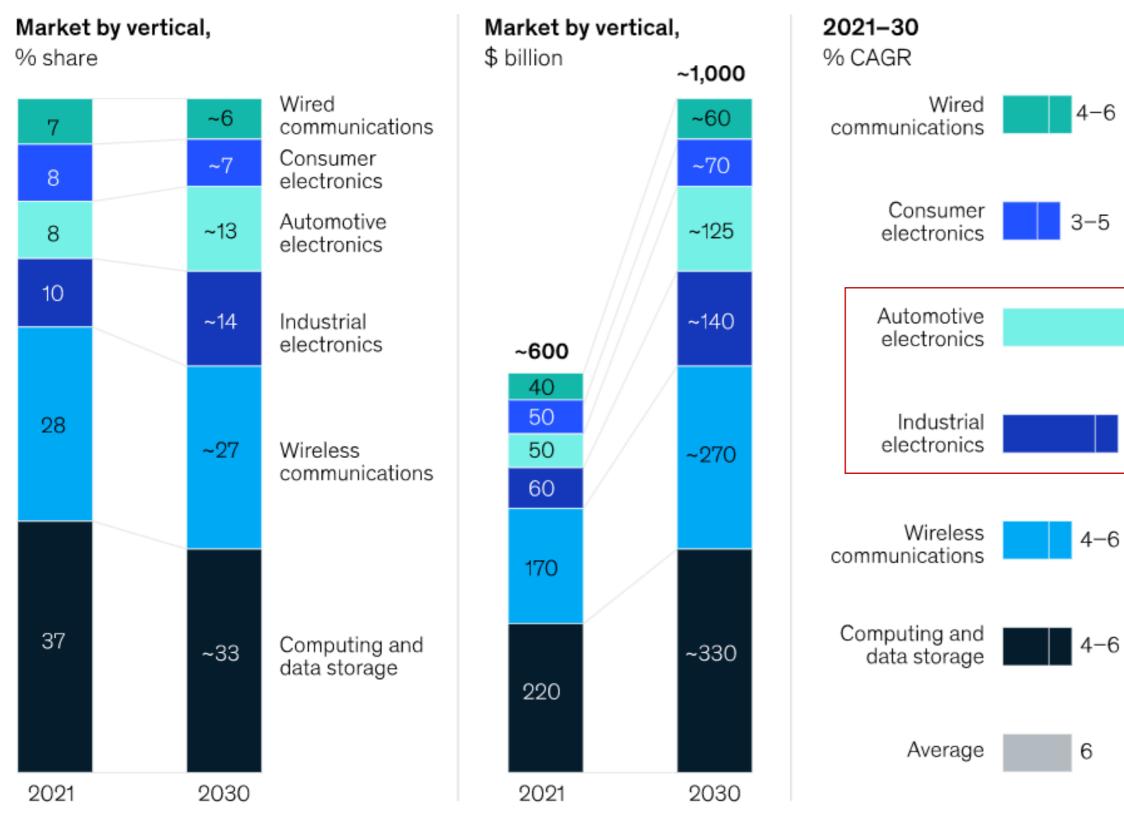


Ongoing discussions with vendors to install solar panels on the rooftop





Global semiconductor market, 2021-30



Source: McKinsey

LONG TERM SEMICONDUCTOR DEMAND IS SET TO GROW, DRIVEN BY AUTOMOTIVE AND INDUSTRIAL SEGMENTS







Growth strategy

4



Sales

• Strategic sales across application & geography segments

• Sharp sales pipeline management



People

- Strategic workforce restructuring & hiring • Upskilling, training
 - Covid mitigation, Employee engagement



OUR LONG TERM VISION IS TO BE THE LEADING OSAT FOR AUTOMOTIVE, DRIVEN BY 4 STRATEGY TENETS

Technology



- Investing in SiC, MEMS sensors, GaN, 5G testing
- Advanced packaging inorganic options for modules/ 3D printing/ design house
- Robust R&D; own product (TVS)

Quality



- Zero Defects Culture
- Automation, high productivity
- State-of-the-Art Equipments •



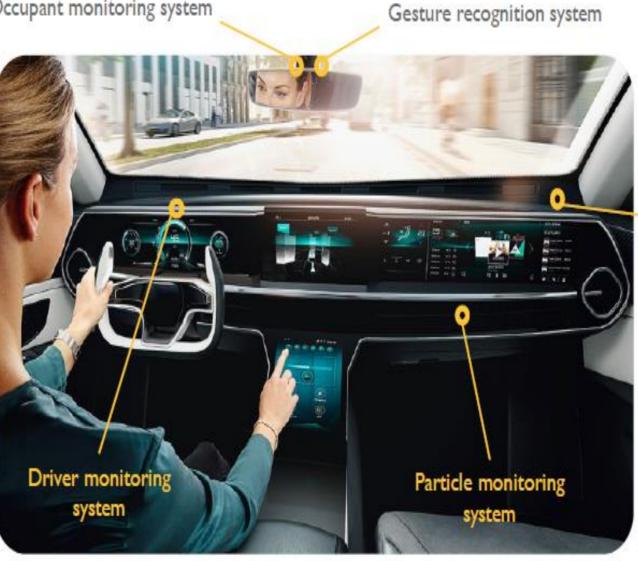


Sales – Target segments to play in

Continued investments in complex packaging technologies



Occupant monitoring system



SiC adoption in EVs is gaining momentum – Experience of handling SiC packaging will lead the way

Customized sensors used for monitoring several data points multi-functionality in small, costcompetitive, customized packages

Malaysian Pacific Industries Berhad



MPI MADE A STRATEGIC MOVE TOWARDS UPCOMING TECHNOLOGIES

Active noise cancellation system

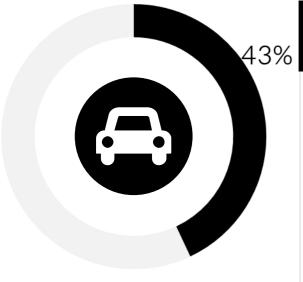


5G technology has a bright future – it is small for Carsem right now but in the next few years it will ramp up





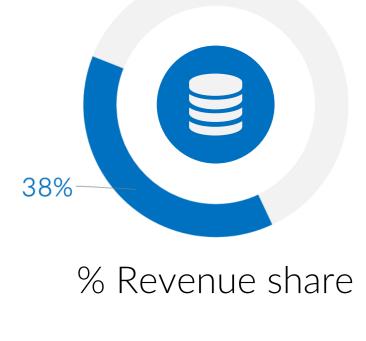
Sales – Revenue composition



% Revenue share

AUTOMOTIVE

• Long term growth is driven by **electrification**, ADAS/ AD, safety, and connectivity trends



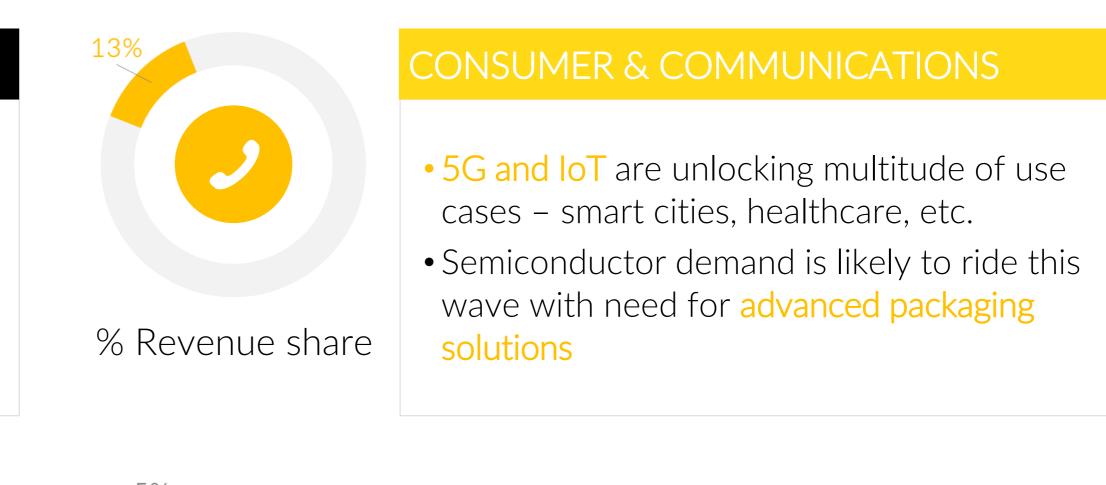
INDUSTRIAL

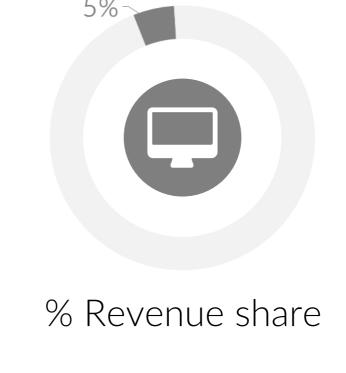
- With **Big Data and Industry4.0** gaining further momentum, need to power data centers & servers is growing
- This high power & high efficiency requirement is fueling new innovations

NOTE: Remaining 1% share of revenue is towards Miscellaneous applications



AUTO REMAINS STRATEGIC – GROWN FROM ~29% IN FY18 TO 43% OF OUR SALES NOW





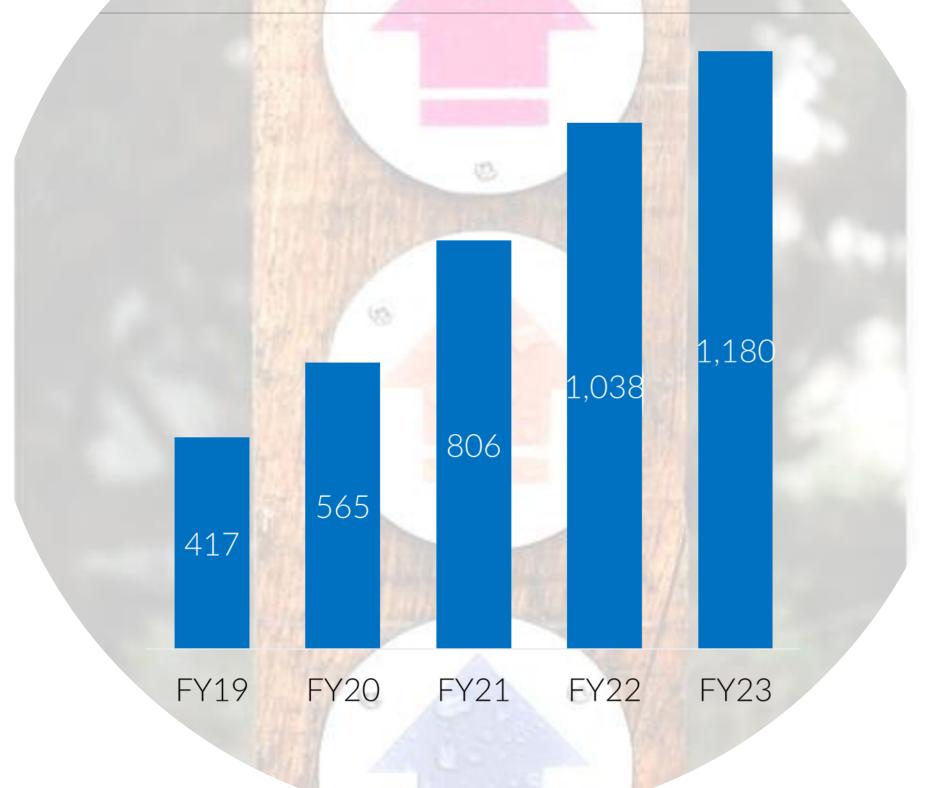
PC/ NOTEBOOK

• Consumer electronics industry sales witnessing significant downward trend as the demand induced from trends such as WFH, online education, etc. normalizes with opening up of offices/ schools across economies



HEALTHY PIPELINE BUT RECESSIONARY RISKS HAVE PUSHED PROJECTS TO FUTURE QUARTERS

NEW PROJECT INTRODUCTIONS (#)





- Carsem has a healthy order book with major projects coming from the Automotive segment
- Pipeline is full but the recent wafer shortage & end ● customer demand drop/ postponement has pushed projects to future quarters
- Ease of travel has helped Carsem team & ulletcustomers engage in on-site physical meetings, driving closer collaboration on new pipeline projects in the last 6 months



Technology – Automotive segment

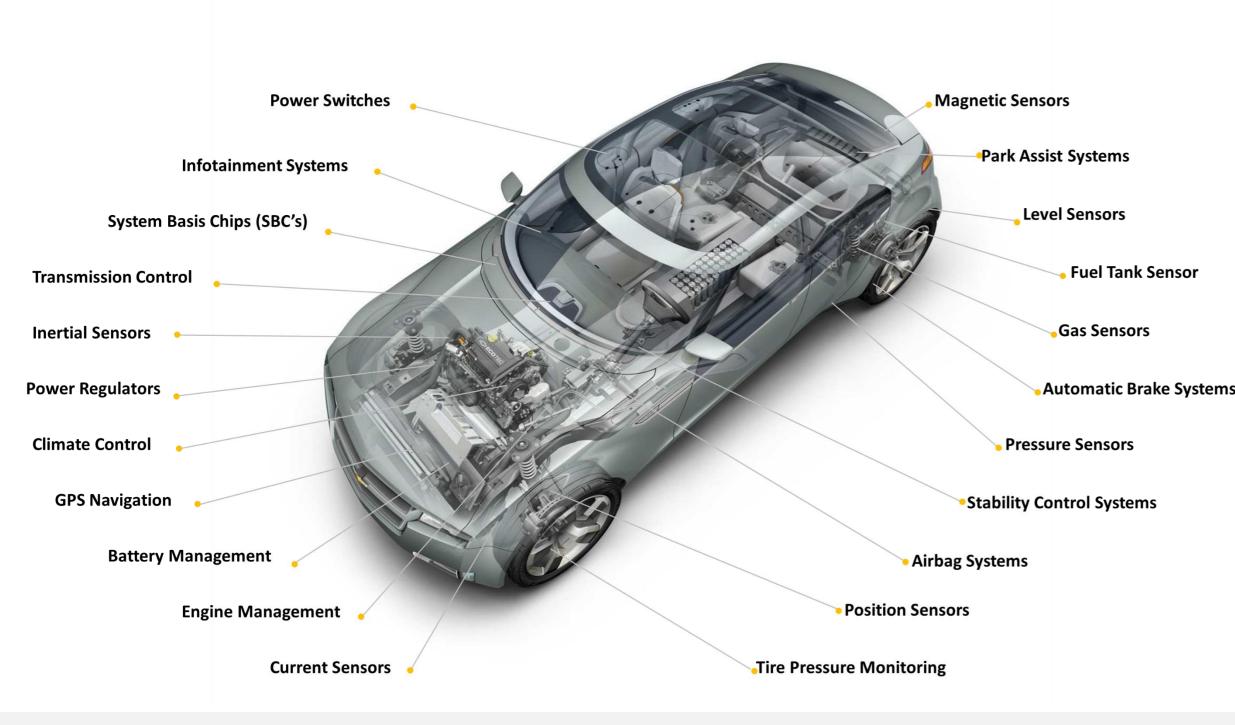
INNOVATING IN LINE WITH STRATEGY TO BE GLOBALLY PREFERRED OSAT PARTNER FOR AUTOMOTIVE

Major trends impacting semiconductor demand (Mobility disruptions)

Electrification Novel battery technologies, growth of electrical powertrain, demand for power electronics

Autonomy Surge in autonomous driving platforms & advanced safety features

>20 years as a certified automotive supplier



Malaysian Pacific Industries Berhad





Connectivity

New use cases (V2X, V2V, OTA) - progression in connectivity technology (5G, WIFI-6)

Carsem Technology Value Propositions & Activities

MEMS & Sensors – riding 'Electrification' and 'Sensorization' wave

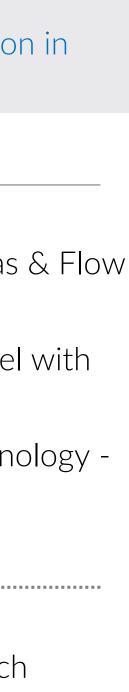
- ✓ SiP Pressure sensors for ICE and Safety are ramping up for Automotive, Gas & Flow sensors – safe launch production stage
- ✓ Expanding in temperature/ humidity sensor applications with qual, in parallel with ramp up phase - production tooling NRE on going with tool fabrication
- \checkmark New focused development: current sensor for EV with wettable flank technology sample launched for qualification
- ✓ New design concept under review for Lidar / Radar segment

Power Packaging

- ✓ MIS solution Automotive PMIC Module, pass qualification, under safe launch
- ✓ Module development with SiC for automotive

RF for Connectivity

 \checkmark Differentiated support on diverse applications using Gallium Nitride (GaN) technology

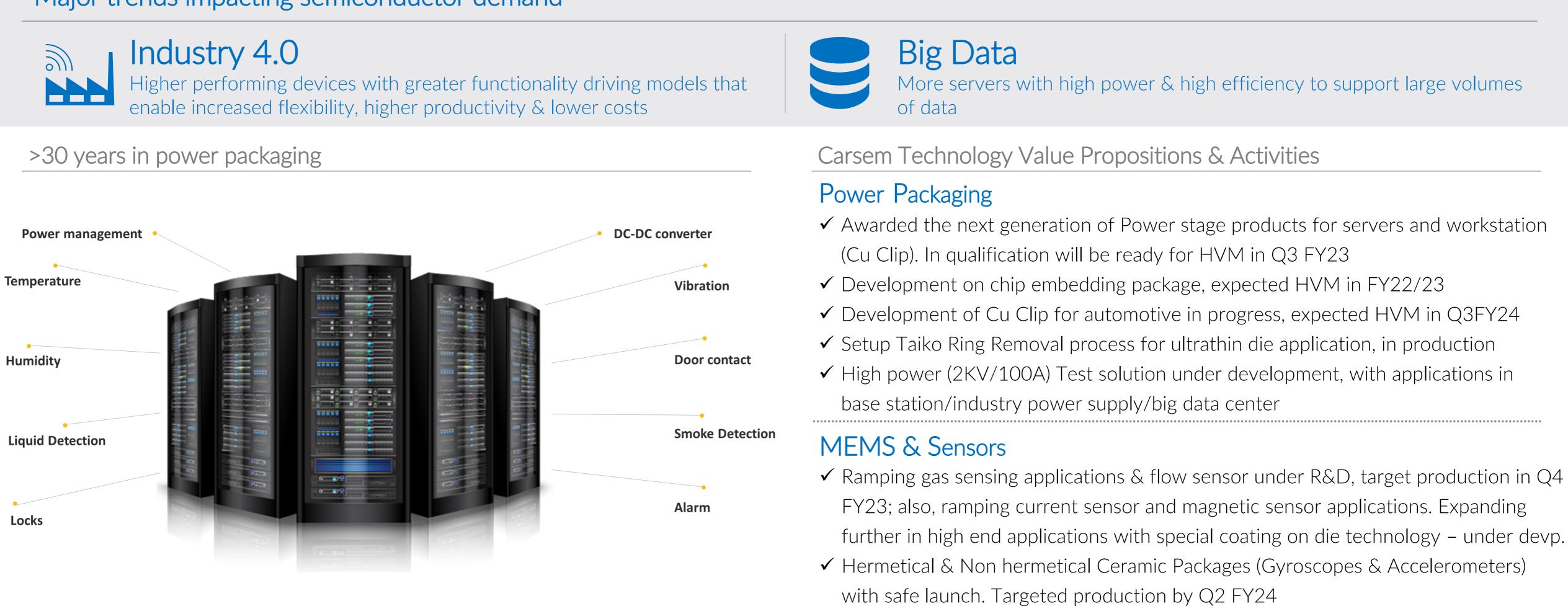




EXPANDING PORTFOLIO ALIGNED WITH TRENDS IN ADVANCED PACKAGING & TESTING FOR POWER

Major trends impacting semiconductor demand







Technology – Industrial segment



Technology – Consumer/ communications segment

Major trends impacting semiconductor demand

High data rates, massive connectivity and ultra-low latency, catalyzing remote health care, autonomous driving, AR/ VR experiences

Carsem in Communication

5G







IoT

Need for combining functionalities – security, connectivity & microprocessors stimulating usage of sensors, actuators & computing power

Carsem Technology Value Propositions & Activities

RF (5G mobile, WiFi6)

- ✓ FC MIS with underfill plus exposed die process start HVM in Q4FY23
- ✓ QFN SIP solution : FC+ SMT, power management application under development, high end wireless charging, fast charging, Li-Ion battery management

Power Packaging

- ✓ RF Power (mid-high) packaging expertise for handphones/ 5G base stations; high volume manufacturing experience of handling GaN
- \checkmark RF module/ high power switch for 5G base stations remains focus

MEMS & Sensors

- \checkmark Optical sensor using clear compound under volume production (for VR, wearables, etc.); and IMU for hand held devices with qualification lot shipped
- \checkmark Expanding into high grade BOM for RF segment and qual in progress





Technology–Immediate focus

SIC - UNLOCKING RF & POWER APPLICATIONS

CARSEM ADVANTAGE

- \checkmark Already working with the No.1 SiC wafer supplier in the world
- ✓ Optimized packaging & performance for better results
- ✓ Ongoing advanced SiC packaging solutions for major customers in Europe and China
- ✓ Dedicated SiC technology trained team for assembly & test
- ✓ Enhanced dedicated floor space & lines to cater to latest technology – SiC & GaN
- ✓ Witnessing double digit growth YoY with strong pipeline for the coming years in SiC

SiC technology for power has a promising future, globally

Carsem S-site at Ipoh, Malaysia is already working with major players on pipeline for SiC packages

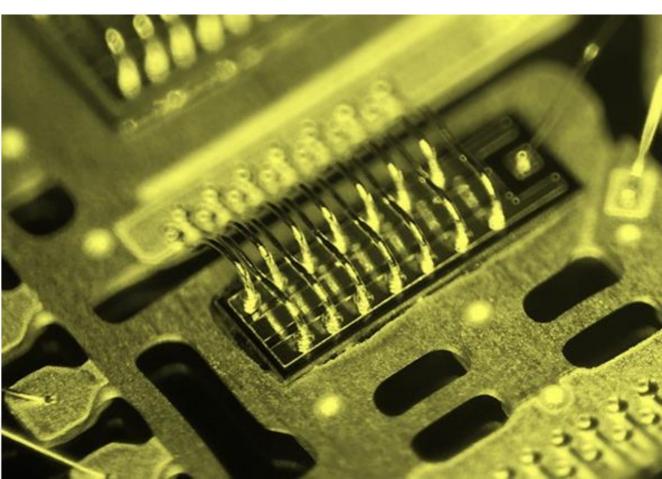


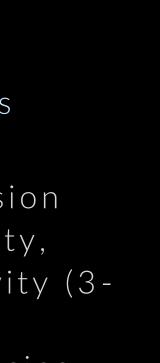




Benefits of SiC over previous gen materials ✓ Wider bandgap,

- ✓improved energy conversion efficiency & power density,
- ✓ higher thermal conductivity (3-4X Si/GaAs/GaN),
- ✓ higher switching frequencies, and reduced system size



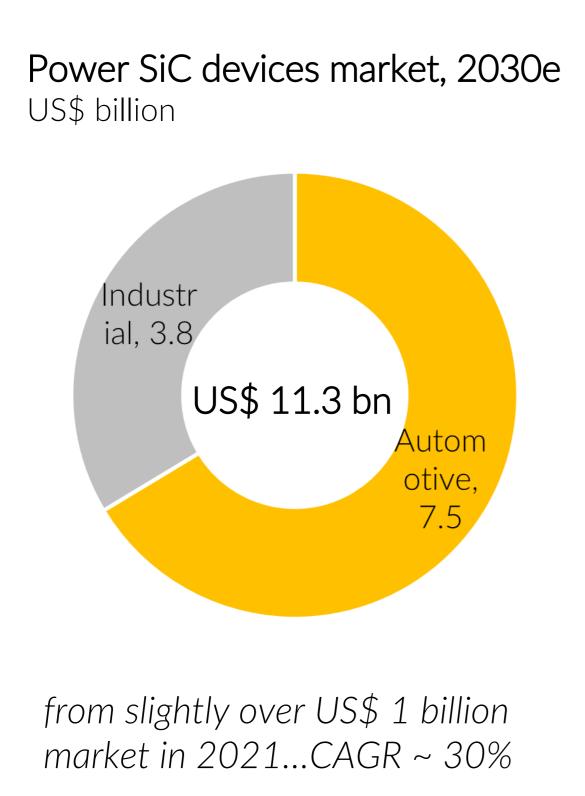




Technology–Immediate focus

GROWING DEMAND FOR SILICON CARBIDE TECHNOLOGY

The silicon carbide device market is accelerating at breakneck speed, driven by automotive

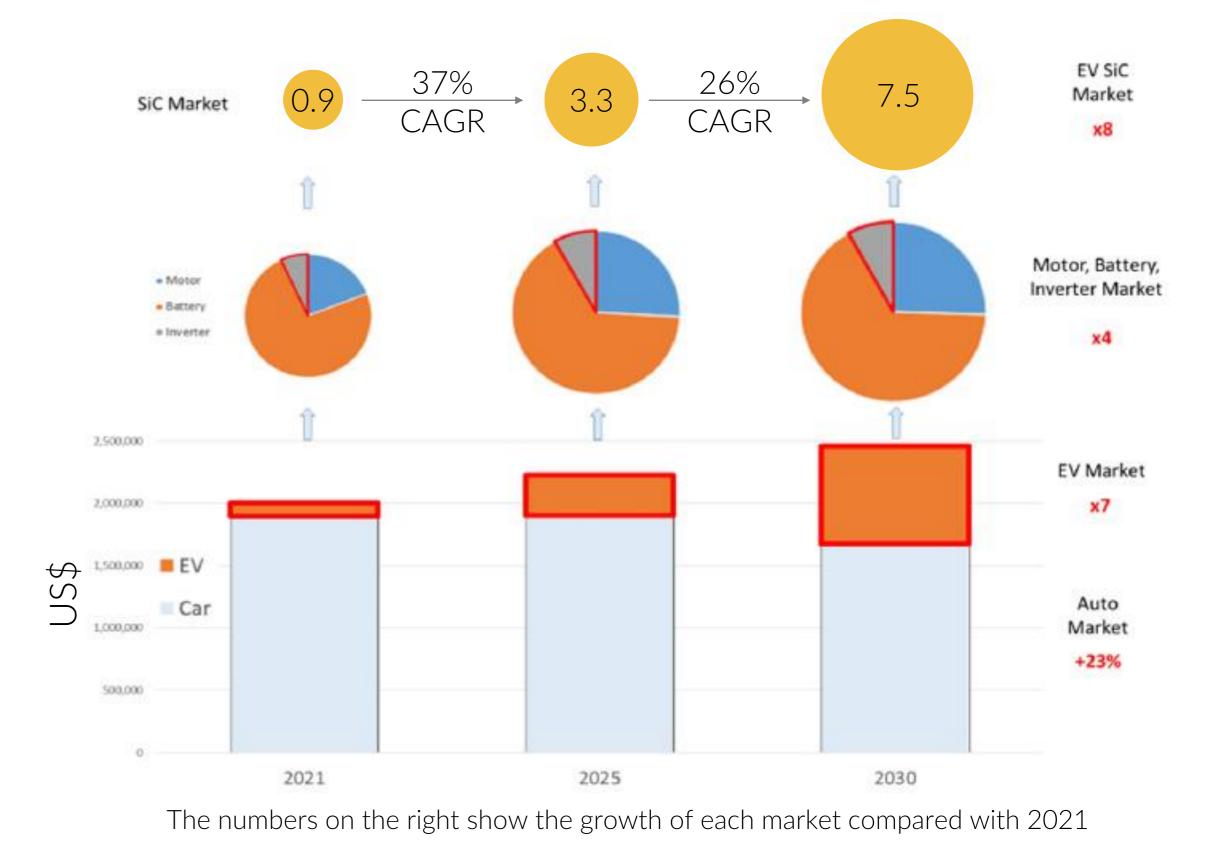


Source: Goldman Sachs Global Investment Research





Auto-related (EV) SiC market growth to stand out, rising to US\$3.3bn in 2025 and to US\$7.5bn in 2030 from ~ US\$0.9bn in 2021

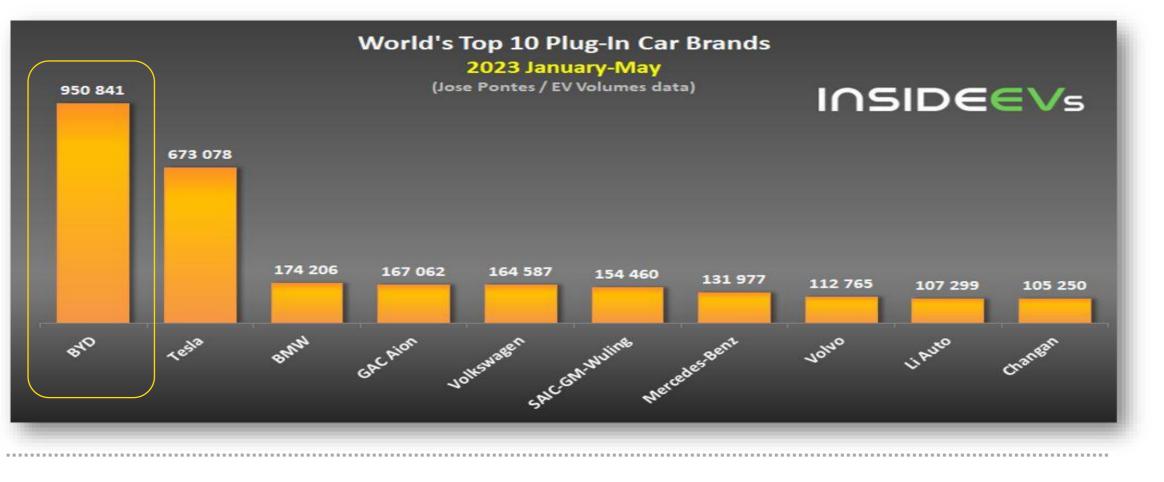




Technology–Immediate focus

STRATEGIC FOCUS ON AUTOMOTIVE SEGMENT GROWTH IN CHINA

Chinese brand is No.1 in EV Sales in 2022 & 2023 YTD BYD beats Tesla in 2022 EV sales, as the world's No 1 electric car seller vindicated Warren Buffett's bet



- Strong EV sales in China
- 83 automotive projects are already in different stages of pipeline
- Transfer some technology & experience manpower from Ipoh, Malaysia









GaN FOR RADIO FREQUENCY (RF) APPLICATIONS – 5G BASE STATIONS

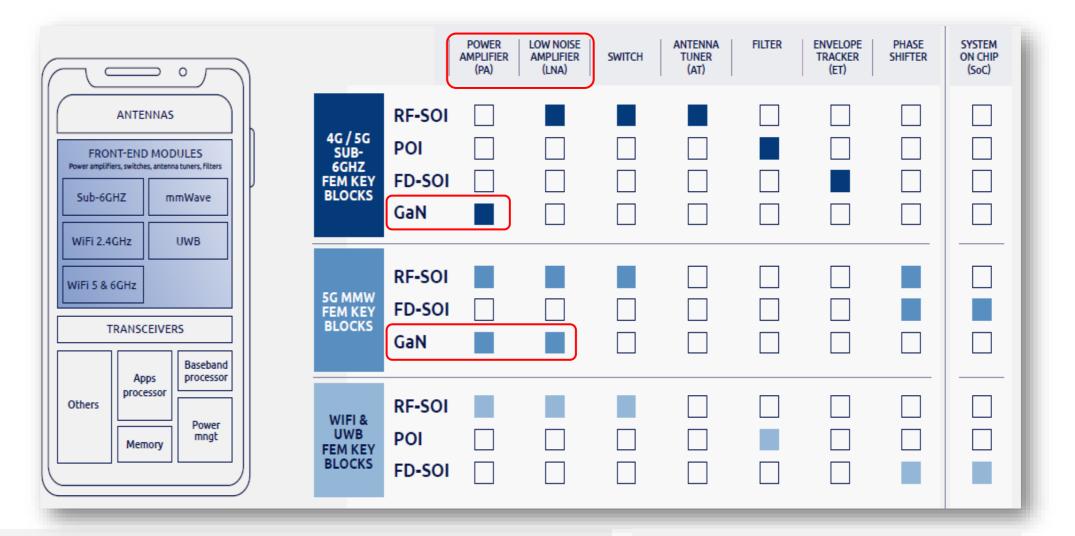


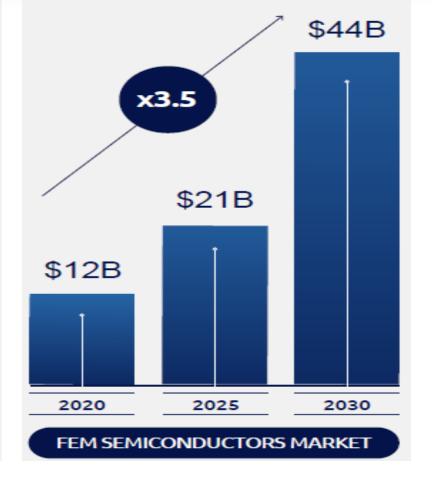
Significant growth is projected for front end modules (FEM) in the next 8 years

- Carsem spent US\$ 12Mil for 5G RF FEM. Carsem Suzhou already has experience in FEM for \checkmark 4G/5G, include DiFEM Module/DiFEM Module/Duplexer+ Quadruplext and Inregular SiP package, expected initial production in Q2FY24
- ✓ Industry technology trend suggests that the business of GaN related FEM will be much more than 4G
- Carsem Suzhou is already engaging with main 5G players of China for 5G base stations FEM \checkmark



Technology – Immediate focus





Source: Yole, Ericsson, Soltec, Qualcomm



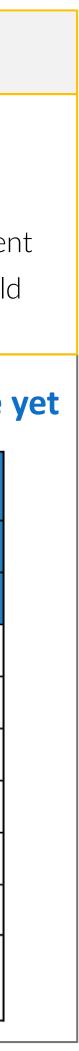
Technology – Future focus

Carsem Suzhou has been working extensively on 5G test technology 5G – Next Generation of mobile broadband development \checkmark CSZ is working with 10+ customers for 5G device testing ✓ Completed 5G and Wifi7 RF test capability development, up to WiFi7 7.125GHz ✓ Continuing engagement with specialized customer for 5G FR2 (mmWave) testing development ----✓ Building an exclusive 5G RF domain specific test development team to be the best in this field **4**G 1**G** 2G 3G 5G 11 care 40 21.6 20 0 CSZ R&D capability - able to support 5G sub 6GZ, but not ready for 5G mmWave yet ✓ Exponentially faster download & upload speed ✓ Drastically decreased latency ✓ Implementation of IOT, Autonomous Cars, Artificial intelligence. ✓ High frequency signals on shorter wavelengths will require more base stations than usual 4G 5G use cases ¦⊙| (0 🎲 Games Smart Driving HD Voice High reliable apps Smart City Cloud Office Ĩí. Smart Factory Smart Healthcare Smart Home Smart Traffic



5G TESTING

| | 2Ĝ | <u>3</u> 6 | Age | 🏭 5G | |
|---------------------------------------------------------|--------------|--------------|--------------|------------------------------|-----------------|
| Bandwidth | 800MHz~2GHz | 2GHz~2.2GHz | 1.7G~2.7G | 3.3GHz~6.0GHz (Sub- 6GHz) | >28GHz (mmWave) |
| Product | 6MHz~24MHz | 15MHz | 15MHz~130MHz | <1G Hz | >1G Hz |
| Switch | \checkmark | \checkmark | ~ | \checkmark | |
| Filter (SAW/BAW) | \checkmark | \checkmark | \checkmark | \checkmark | |
| Diplexer/Multiplexer | \checkmark | \checkmark | \checkmark | \checkmark | |
| PA (Power Amplifier) | \checkmark | V | \checkmark | \checkmark | |
| LNA (Low Noise Amplifier) | \checkmark | \checkmark | \checkmark | \checkmark | |
| Antenna Tuner | \checkmark | \checkmark | \checkmark | \checkmark | |
| SiP (include 2 or more components into a package) | \checkmark | \checkmark | \checkmark | \checkmark | |





Technology – Future focus

Entirely new SMT Line

3D X - Ray



CARSEM MALAYSIA

- ✓ Assembling advanced packages with complete flexibility for customization
- ✓ Major portfolio of advanced packages is with big semiconductor companies in NA & EU
- ✓ Investing in superior machines and skilled manpower to handle advanced packaging

BENEFITS OVER STANDARD PACKAGES

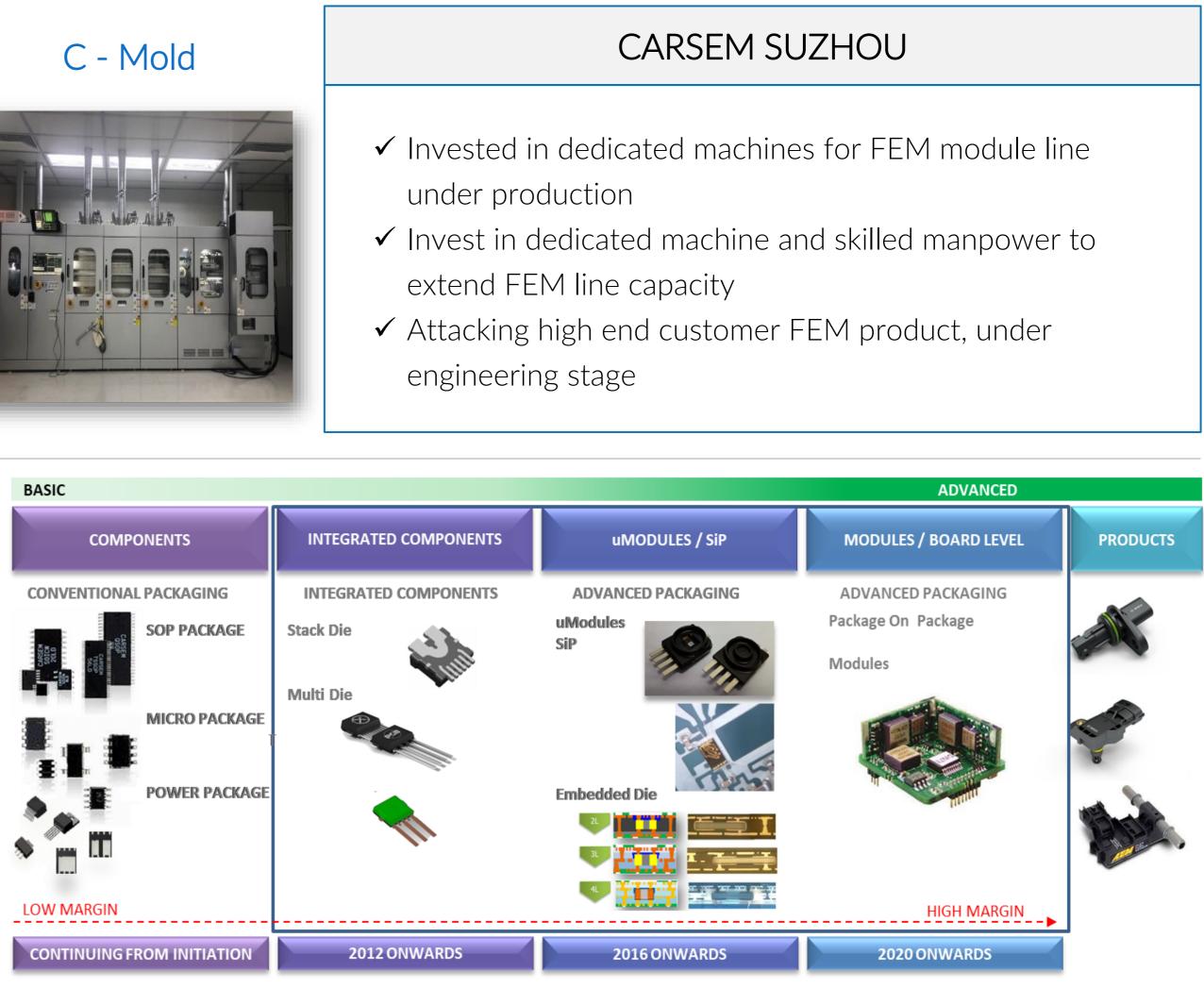
RELIABILITY ROBUST REDUCED SIZE CUSTOMIZABLE COST SAVING PERFORMANCE



MODULES



- ✓ Invested in dedicated machines for FEM module line under production
- extend FEM line capacity
- engineering stage





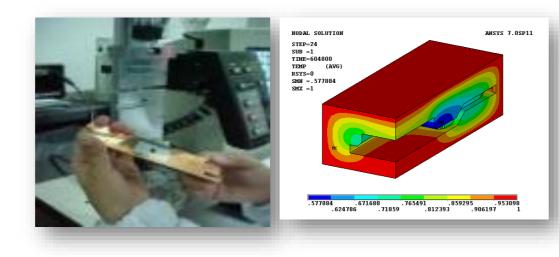
Technology – Carsem technology center

DEDICATED TECHNOLOGY CENTER TO DRIVE INNOVATION & TECHNOLOGY DEVELOPMENT

CARSEM TECHNOLOGY CENTER (CTC) – 4M APPROACH TO R&D

MATERIAL

- Materials lab,
- Design & Simulation



MACHINE



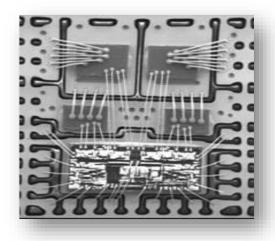
Dedicated to package/process/materi als development

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METHODOLOGY

- Process development
- Total 75 active patents



MAN (HUMAN CAPITAL/ EXPERTISE)

 Total headcount: 66 (Technical Management ~8%, Project
Management ~34%, Engineering ~58%)

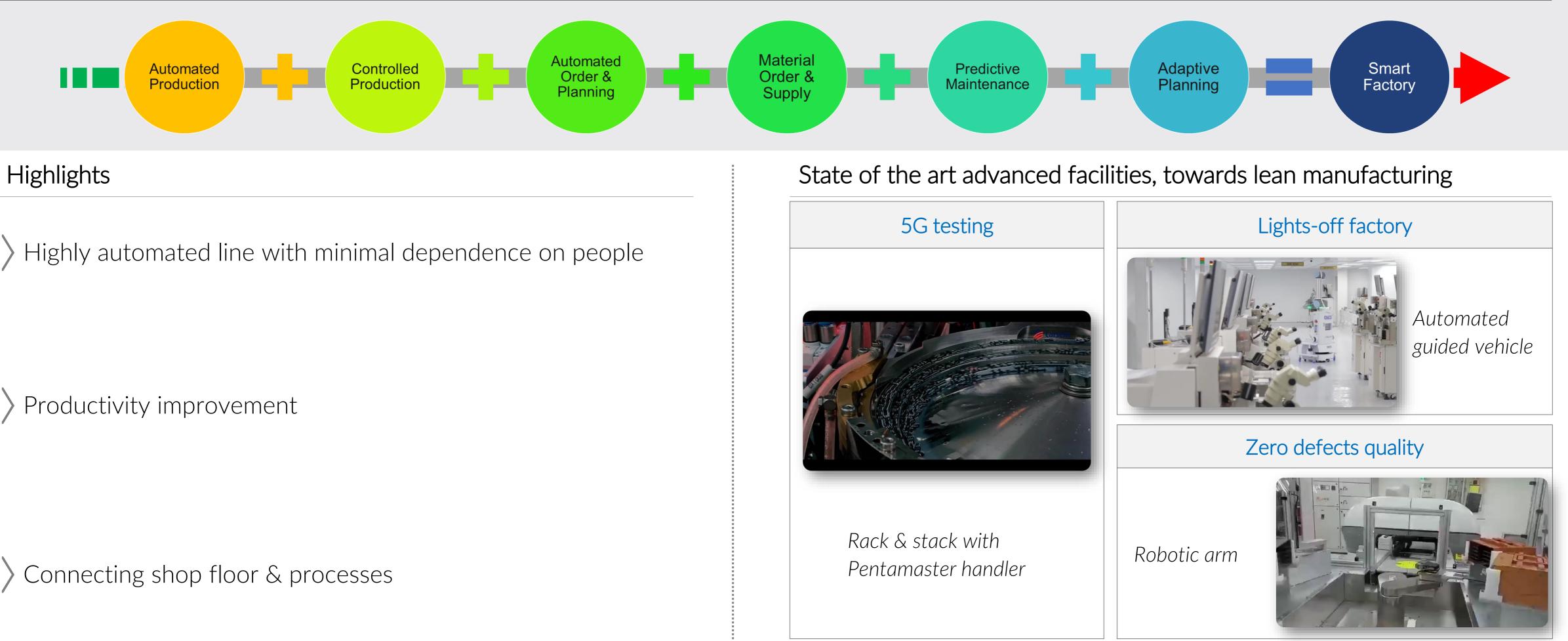




Quality & productivity focus

INVESTING IN AUTOMATION & INDUSTRY4.0 TO ACHIEVE ZERO DEFECTS & HIGH PRODUCTIVITY GOALS

End Game – Smart factory



Highly automated line with minimal dependence on people

Productivity improvement

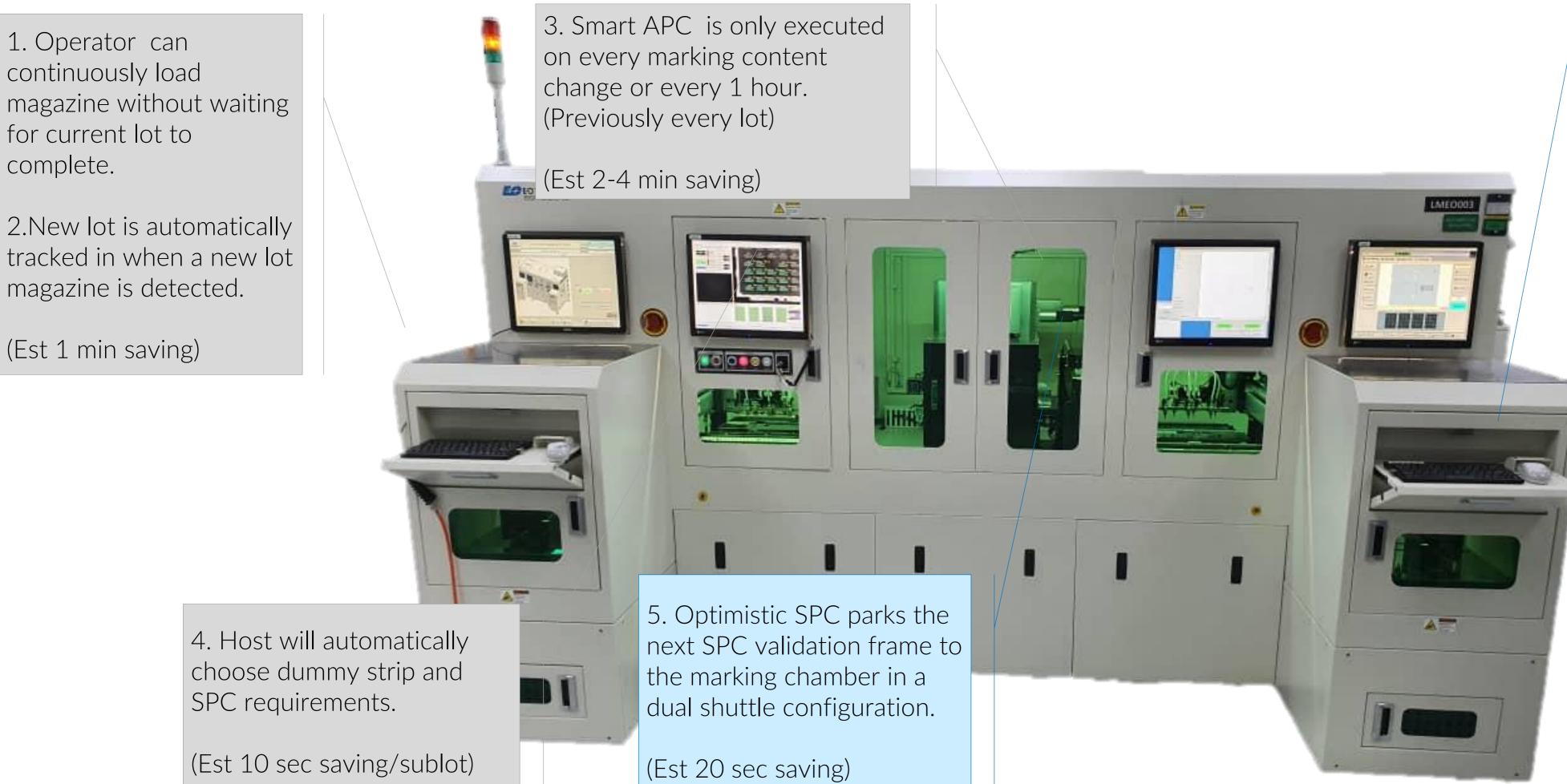
Connecting shop floor & processes





complete.

Quality & productivity focus





AUTOMATION: EO Laser Continuous Run Enhancement

6. After machine validates all frames is complete, magazine change is done and lot is tracked out.

(Est 1 min saving)

Improvement:

UPH increase by 19%

Legend :

Changes on machine

Changes on host







Quality & productivity focus

CERTIFIED ON INDUSTRY'S LEADING PERFORMANCE PARAMETERS



Certificate Certificate Registr. No. 01 111 028556/0 IATE Certificate No. 0308275

S

Carsem (M) Sdr. Bhd. (M-3 Jalan Lapangan Terbeng, 30720 (poh, Perak, Malaysia

CERTIFICATE

CARSEM (M) SDN. BHD. SITE 2

M-SITE JALAN LAPANGAN TERBAN 31350 IPOH PERAK DARUL RIDZUAN MALAYSIA

has implemented a complying with ISO 45001 : 2018 OCCUPATIONAL HEALT with guidance for use

Scope of certification

ASSEMBLY OF SEMI

Mohd Azanuddin Salleh Charl Executive Officer SIRIM GAS International Son. Bhd.

Insue date : 62 March 2020 Original certification date : 18 December 2015 Expiry dats : 17 December 2021 Certificate no. : OHS 06640

- IQNet

GAS International Set, 804. Conversion 61031-4 1, Remotern Data' Handare Sectors 1, 1-0. Nex 1028 6008/544 Alane Stimute Data Theorem 10, 1-10-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-10, 1-1

HUT Produced Con Control An Graven Stern - STAL Cologe - HERN

TŪVRheinland[®] Precisely Right.

ESD Control

Applicable to Design, Assembly, Testing & Finishing of semiconductor component

IATF 16949:2016

Design & manufacturing of semiconductor components

ISO 45001:2018

Occupational Health & Safety Management System implemented in compliance







| 2007/17 グリーンバートナー使党の貢献できかま Andration of Green Partner Centification Am : アウロップベイビス(10)、自作 Augusteme III Part (10) | Sony Green Partner Program |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|
| $\label{eq:constraints} \begin{split} & 1000^{-1} - \sqrt{m+4} REREY FIER STATUS LODO CARNEN LUFEY, \\ & 402 < 0.000000000000000000000000000000000$ | |
| Control Assing Device Not. Int | Environmental quality assurance activities |
| $(2m-2^{2}m-(4m\pi)m^{2}T^{2}T^{2}T^{2}T^{2}T^{2}T^{2}T^{2}T$ | |



ISO 9001:2015

Design & manufacturing of semiconductor components

Awards and recognitions



Best supplier award, 2022

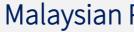
Best Partner Award, 2022

Best supplier award, 2022

HEK, China

PSE, China

QST, China







QUALITY & PEOPLE

Best quality service award, 2022

EPM, China

Best supplier award, 2022

Awards to assembly and test engineering team, 2022

Kangxi, China

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TABLE OF CONTENT





Financial highlights

| REVENUE | With the challenges faced in China & worldw |
|------------|------------------------------------------------|
| EPS | Despite all the challenges & high costs, MPI C |
| CAPEX | Good or bad times, Carsem invests in replacin |
| CASH | Even in these uncertain market dynamics – N |
| CHALLENGES | Geopolitical stress, global end market deman |
| SEGMENTS | Automotive segment is strengthening; Autom |

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Q4 FY23 SNAPSHOT

wide consumer demand drop, MPI closed Q4 FY23 at US\$ 107M

Q4 EPS witnessed a positive swing of ~ 13 Sen

ing old machines & getting new technology in. Q4 FY23 – RM 59M

MPI cash increased in Q4 by 4% YoY to RM 801M

nd drop, Rise in costs & Manpower constraints

motive (43%); Industrial (38%); Consumer (13%)

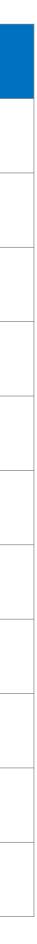




MPI GROUP RESULTS AT A GLANCE

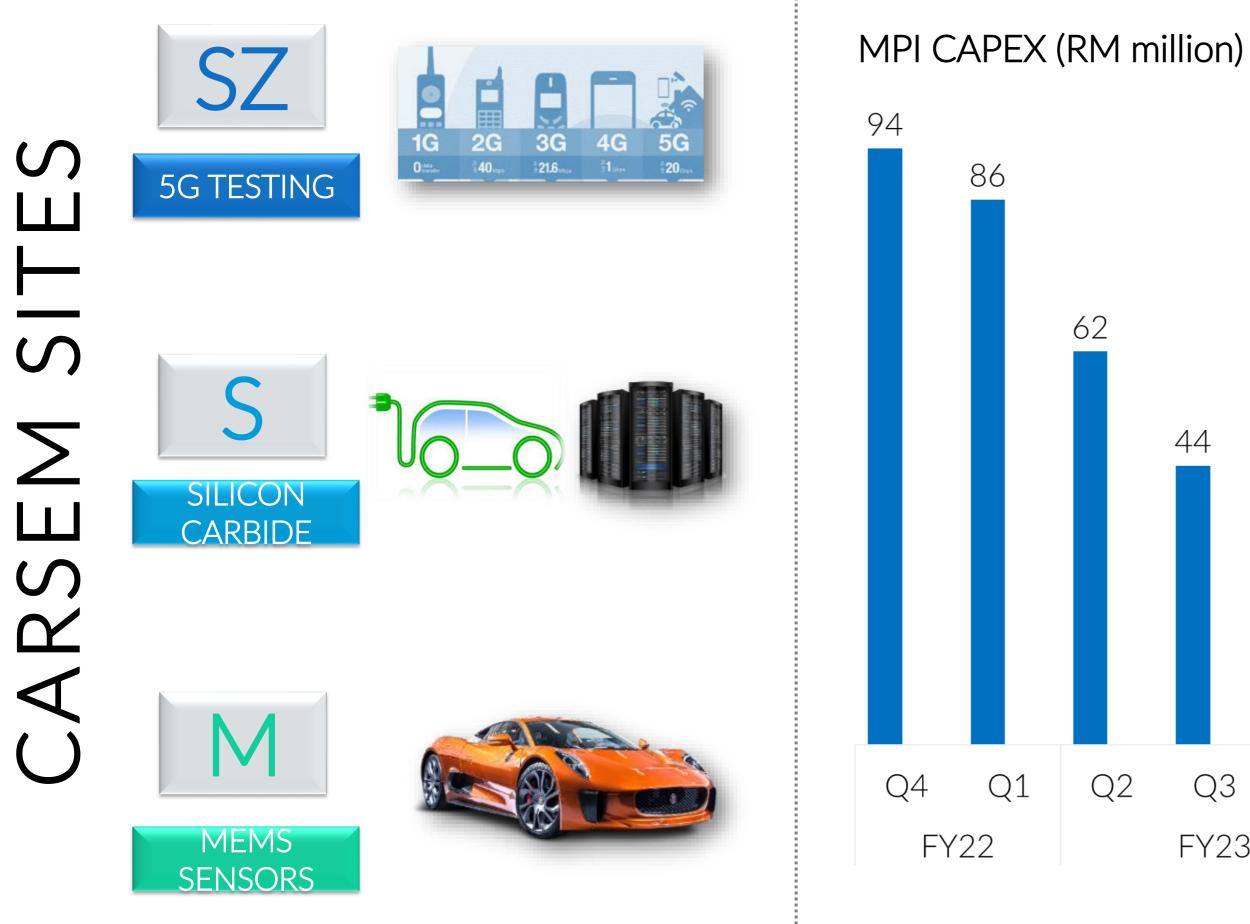
| | Q4 FY23 | Q3 FY23 | Q4 FY22 | Q4 vs Q3 | Q4 vs Q4 | YTD FY23 | YTD FY22 | YoY |
|-----------|---------|---------|---------|----------|----------|----------|----------|------|
| | RM mil | RM mil | RM mil | % | % | RM mil | RM mil | % |
| Revenue | 482.4 | 471.9 | 612.0 | 2% | -21% | 2,044.7 | 2,416.1 | -15% |
| (LAT)/PAT | 17.1 | (8.4) | 93.0 | >100% | >-82% | 108.1 | 384.9 | -72% |
| PATAMI | 8.1 | (17.8) | 80.5 | >100% | >-90% | 61.3 | 328.9 | -81% |
| EPS (sen) | 4.09 | (8.97) | 40.47 | >100% | >-90% | 30.84 | 165.62 | -81% |
| EBITDA % | 21% | 17% | 30% | | | 23% | 31% | |
| Capex | 58.9 | 44.3 | 93.9 | 33% | -37% | 251.7 | 729.7 | -66% |
| Dividend | 50 | 0 | 50 | | | 70 | 70 | |
| Net Cash | 801.4 | 812.9 | 771.6 | | | 801.4 | 771.6 | |
| EDR | 100:0 | 100:0 | 100:0 | | | 100:0 | 100:0 | |
| ROSF | 0.4% | -0.9% | 4.7% | | | 3.1% | 19.4% | |

Key financials





CONTINUING STRATEGIC INVESTMENTS FOCUSING ON SENSORS, 5G TESTING & SIC/ GAN TECHNOLOGIES



03

FY23

04

Investments

59

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- Hire domain specific relevant people across the globe to • support business operations & sales
- Investing in **research & development** to deliver latest • technology solutions to our customers



- Continuing Industry 4.0 via automation in each factory to ● have zero defects quality
- **Upskilling** existing operational & technical manpower to be ● able to perform better with latest technology
- Looking for **more anchor customers** to secure more \bullet guaranteed business in future





STRONG NET CASH POSITION MEANS STABILITY IN UNCERTAIN TIMES

NET CASH (RM million) position remained healthy



MPI is cash rich despite significant capital expenditure and expenses towards managing externalities

Cash

Malaysian Pacific Industries Berhad

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Statement of Profit or Loss

| | Q4FY23 | Q4FY22 | Changes |
|------------------------------------------|-----------|-----------|-----------|
| | RM '000 | RM '000 | % 010(|
| Revenue | 482,426 | 612,035 | -21% |
| Cost of sales | (443,389) | (490,371) | -10% |
| Gross profit | 39,037 | 121,664 | -68% |
| Operating expenses | (35,235) | (29,189) | 21% |
| Other operating (expenses)/income | 7,064 | 7,926 | -11% |
| (Loss)/Profit from operation | 10,866 | 100,401 | -89% |
| Interest income | 8,516 | 3,380 | 152% |
| Interest expenses | (2,732) | (2,361) | 16% |
| (Loss)/Profit before taxation | 16,650 | 101,420 | -84% |
| Taxation | 453 | (8,373) | -105% |
| (Loss)/Profit for the period | 17,103 | 93,047 | -82% |
| (Loss)/Profit attributable to: | | | |
| Owners of the Company | 8,137 | 80,488 | -90% |
| Non-controlling interests | 8,966 | 12,559 | -29% |
| (Loss)/Profit for the period | 17,103 | 93,047 | -82% |
| (Loss)/Earnings per ordinary share (sen) | | | |
| Basic | 4.09 | 40.47 | -90% |
| Ratio | | | |
| GP % | 8% | 20% | |
| (LBT)/PBT % | 3% | 17% | |
| (LAT)/PAT % | 4% | 15% | |
| EBITDA% | 21% | 30% | |





Statement of Financial Position

| | 30/06/2023 RM'000 |
|----------------------------------------------------|----------------------|
| Non-current assets | 1,416,233 |
| Property, plant and equipment | 47,298 |
| Right-of-use assets | 27,026 |
| Investment properties | 46 |
| Investments | 1,490,603 |
| Current Assets | 149,537 |
| Inventories | 318,871 |
| Trade and other receivables, including derivatives | 4 |
| Tax recoverable | 1,053,096 |
| Cash and cash equivalents | 1,521,508 |
| TOTAL ASSETS | 3,012,111 |

| 30/06/2022 |
|------------|
| RM'000 |

| 1,511,323 |
|-----------|
| 52,285 |
| 27,897 |
| 46 |
| 1,591,551 |

206,279 356,139 62 964,826 1,527,306

3,118,857



| | 30/06/2023 | 30/06/2022 |
|-----------------------------------------------------------------|--------------------|--------------------|
| | RM'000 | RM'000 |
| Equity | | |
| Share Capital | 352,373 | 352,373 |
| Reserves | 1,826,261 | 1,811,656 |
| Treasury shares | (163,816) | (163,816) |
| | 2,014,818 | 2,000,213 |
| Non-controlling interests | 345,570 | 321,568 |
| | 2,360,388 | 2,321,781 |
| Non-current liabilities | | |
| Borrowings (unsecured) | 79,480 | 180,100 |
| Lease liabilities | 21,788 | 23,566 |
| Deferred tax liabilities | 6,936 | 2,269 |
| | 108,204 | 205,935 |
| Current liabilities | | |
| Trade and other payables, including derivatives | 346,104 | 543,813 |
| Borrowings (unsecured) | 172,184 | 13,170 |
| Lease liabilities | 3,177 | 2,781 |
| Current tax liabilities | 22,054 | 31,377 |
| | 543,519 | 591,141 |
| TOTAL LIABILITIES | 651,723 | 797,076 |
| TOTAL EQUITY AND LIABILITIES | 3,012,111 | 3,118,857 |
| Net Assets per share attributable to owners of the Company (RM) | 10.13 | 10.06 |
| Net Cash EDR | 801,432 100 : 0 | 771,556 100 : 0 |

Statement of Financial Position







Carsem continues to invest in SiC & GaN Technology, 5G Testing, MEMS Sensors to grab the next wave of opportunities



Net Cash (RM 801M for investment & M&A), No debts

MPI closes at US\$ 107M, despite several global challenges and demand drop across market segments

Investing in expansion - new factory in Ipoh, additional floor in Carsem S – Site (Ipoh) & a new site in China



Thank You



Malaysian Pacific Industries Berhad

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