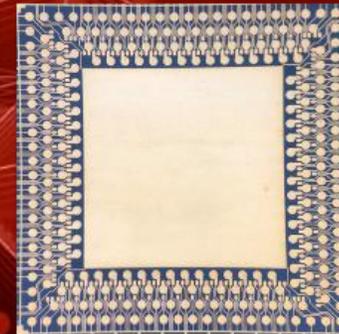


2019 Q1 Results Announcement

25 April 2019



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ASMPT Recognized as TOP 100 Global Tech Leaders

ONLY Back-end Equipment Supplier Being Recognized

2018 THOMSON REUTERS

TOP 100
GLOBAL TECH LEADER

“The Top 100 Global Technology Leaders are the organizations poised to propel the future of technology”,
Brian Scanlon, Chief Strategy Officer

Thomson Reuters, 2018

Corporate Overview

A World's Technology & Market Leader

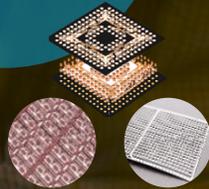
Q1 2019 Group Revenue
(CAGR 2009- Q1 2019 LTM 14.8%)

USD 467m

47.2%
SMT
Solutions

42.0%
Back-end
Equipment

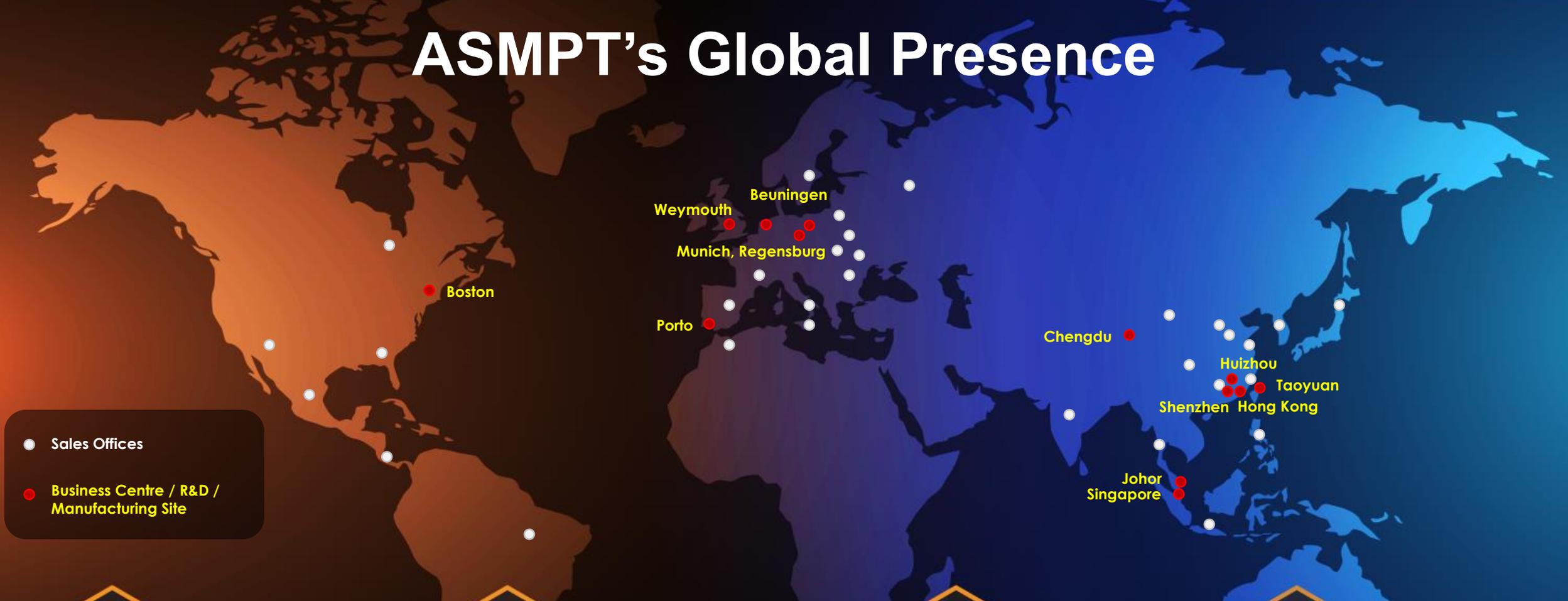
10.8 %
Materials



- In the semiconductor packaging equipment industry
- In the SMT solutions industry
- In CIS (CMOS Imaging Sensor) assembly equipment
- In LED equipment
- In Automotive electronics assembly equipment
- In the Lead frame market



ASMPPT's Global Presence



- Sales Offices
- Business Centre / R&D / Manufacturing Site



>2,000
Global R&D staff



>1,400
Patents on key leading edge technologies



10
R&D centres worldwide



12
Manufacturing facilities

ASMPT Major Facilities around the World



Hong Kong



Singapore



Munich



Regensburg



Boston



Porto



Longgang (龙岗)



Fuyong (福永)



Huizhou (惠州)



Chengdu (成都)



Taoyuan



Weymouth



Beuningen



Johor

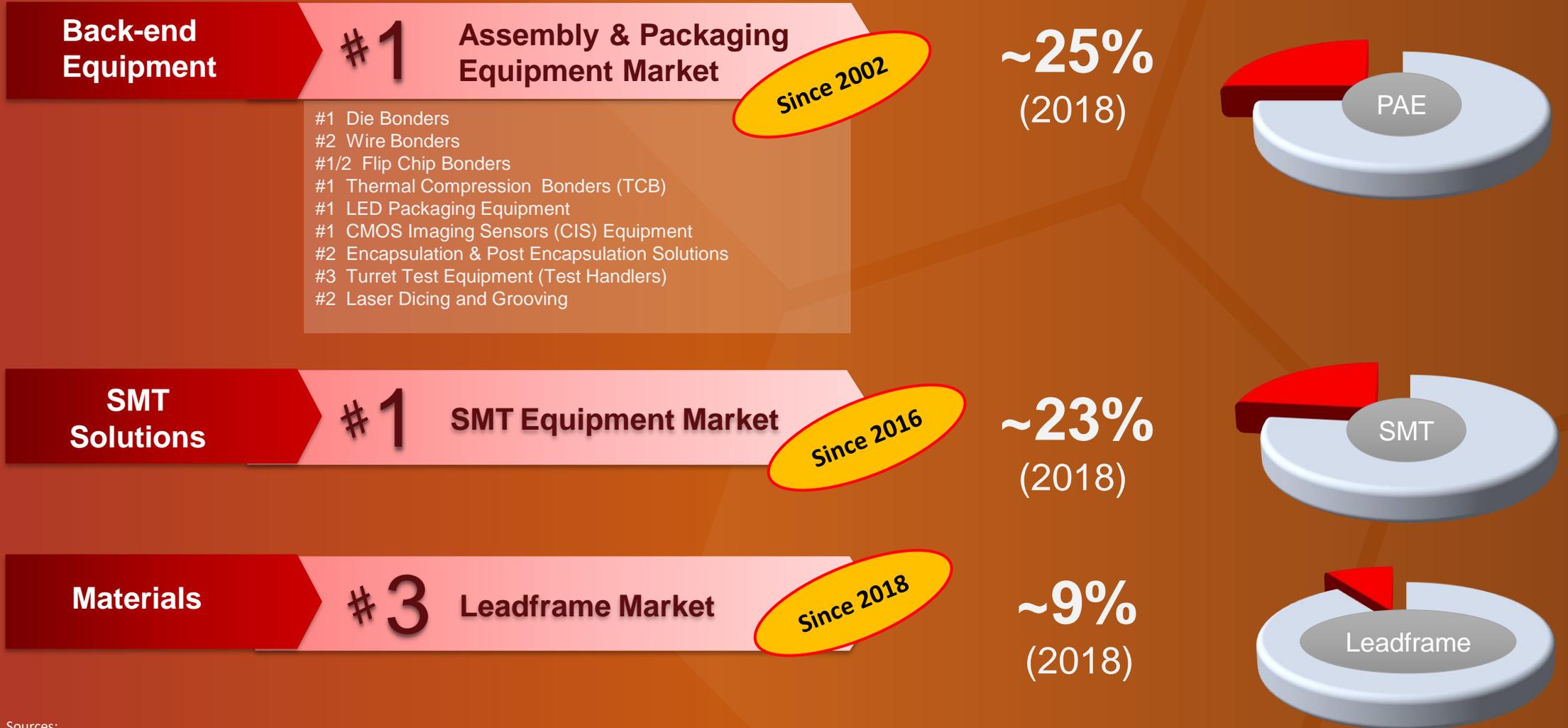


Johor Expansion
(Ready 2019)



Three Business Segments With Leading Market Positions

Worldwide Market Position & Share



Sources:

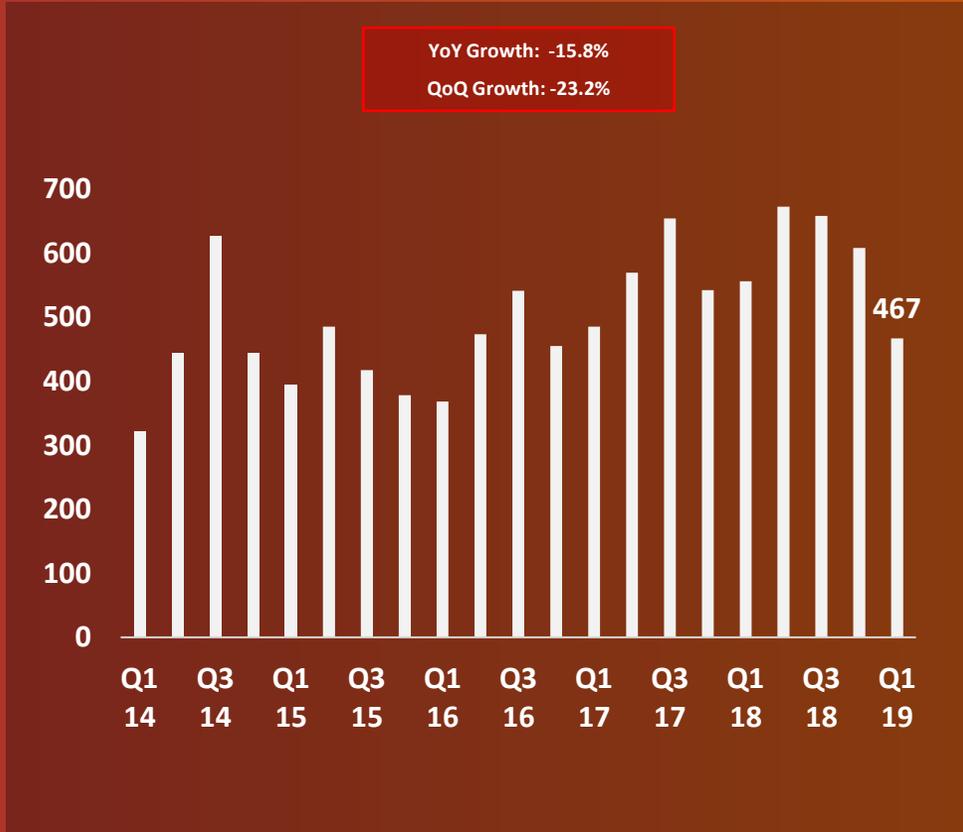
Market share for Back-end Equipment is based on information on packaging and assembly equipment market by VLSI, leadframe market by SEMI, and SMT market by ASMPT SIPLACE Market Intelligence

The slide features a background with a color gradient from dark orange on the left to light orange on the right. A large, dark brown hexagon is centered on the left side, containing the title text. On the right side, there are faint, light-colored geometric lines forming a network of interconnected shapes.

2019 Q1 Financial Highlights

Q1 Financial Highlights

Quarterly Group Billings (US\$ m)



Group	Q1 2019 Billings		
	USD	YoY	QoQ
Group	466.6m	-15.8%	-23.2%
Back-end Equipment Segment	195.9m	-30.4%	-15.9%
Materials Segment	50.5m	-32.3%	-15.5%
SMT Solutions Segment	220.2m	+11.4%	-30.1%

Group Bookings

Quarterly Group Bookings
(US\$ m)



The Worst is Over?

- Q1 Group Booking: ▼ 3.0% QoQ
- Q1 Backend EQT Booking: ▼ 4.2% QoQ
 - CIS rebound > 100% QoQ
- Q1 Materials Booking: ▲ 15.2% QoQ
 - Historically a leading indicator for the Market
- Q1 SMT Booking: ▼ 5.1% QoQ

Q1 Group Financial Highlights

Q1 2019	Group	
	YoY	QoQ
Bookings	-39.0%	-3.0%
Revenue	-15.8%	-23.2%
Gross Margin	-369bps	+93bps
EBIT	-64.1%	-34.7%
Net Profit	-82.4%	-49.0%
Net Profit Margin	-1121bps	-149bps

Factors affecting Q1 Profitability

- Product Mix
- Lower Sales volume
- Underutilization of capacity
- YoY OPEX increased by 6.6% mainly due to new acquisitions

**We Are Ready to
Ride the Next
Wave of Growth**

The “Smart” Era Made Possible with Data



Smart Factories

By 2022...

- 7 billion more Machine-to-Machine devices
- 300 EB/year



Smart Cars

By 2025...

- 8 million more Autonomous Vehicles
- 21,920 EB/year



Smart Things

By 2030...

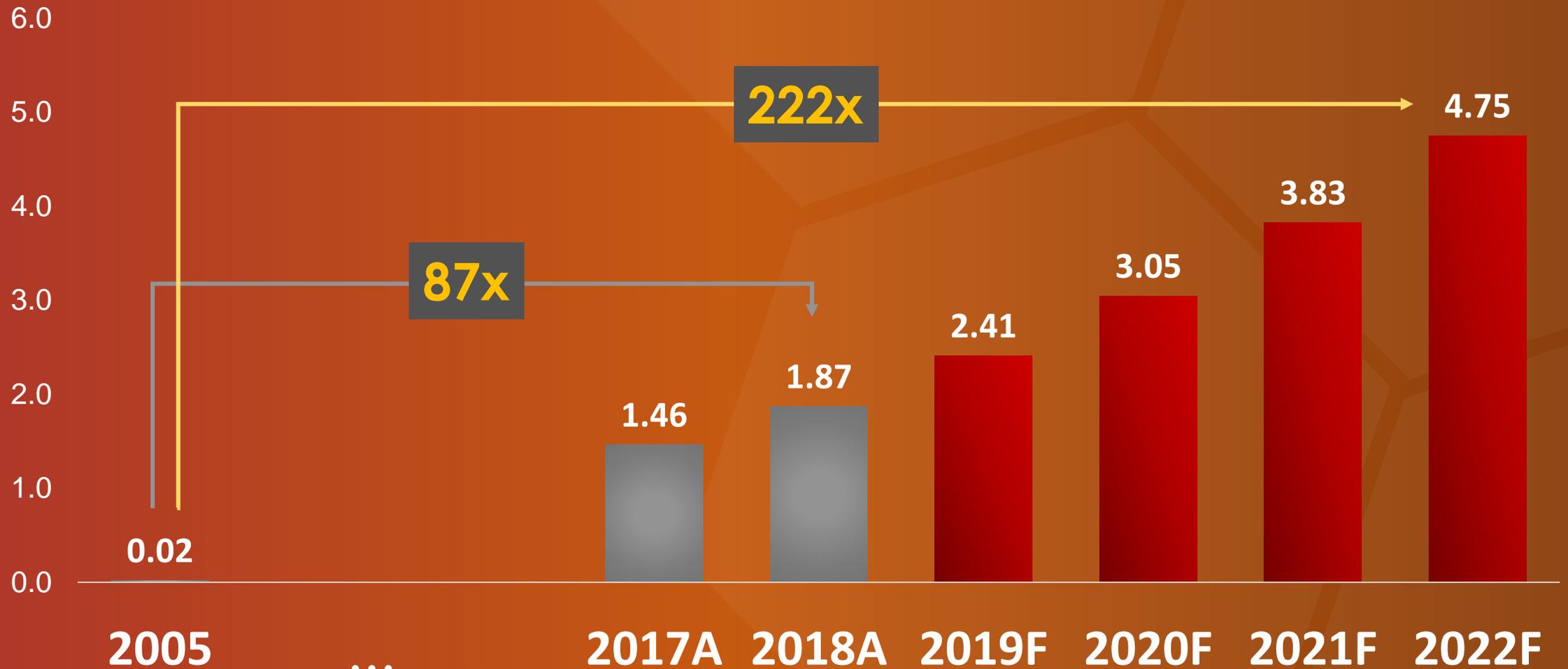
- 100 billion more units
- 11,500 EB/year

34 ZB more data generated in a year by 2030

From These Three Drivers Alone

Data Traffic to continue 'Exploding in Waves' over the next years

Global Data Traffic Facts (in Zettabytes)



Data-Centric Era will spur Semiconductor Demand



Critical Requirements to Enable the Digital World

Critical Requirements



Greater Storage



Higher Bandwidth



No Latency

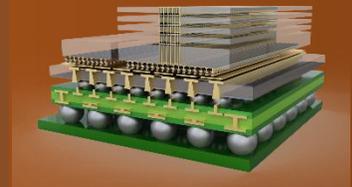


Lower Power

Technology Enabling Solutions

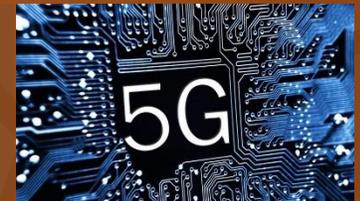
Advanced Packaging

*New structures, “right” form factor –
Having more with less*



5G Connectivity Infrastructure

*100x faster than 4G
Creates “near zero latency”*



Heterogeneous Integration

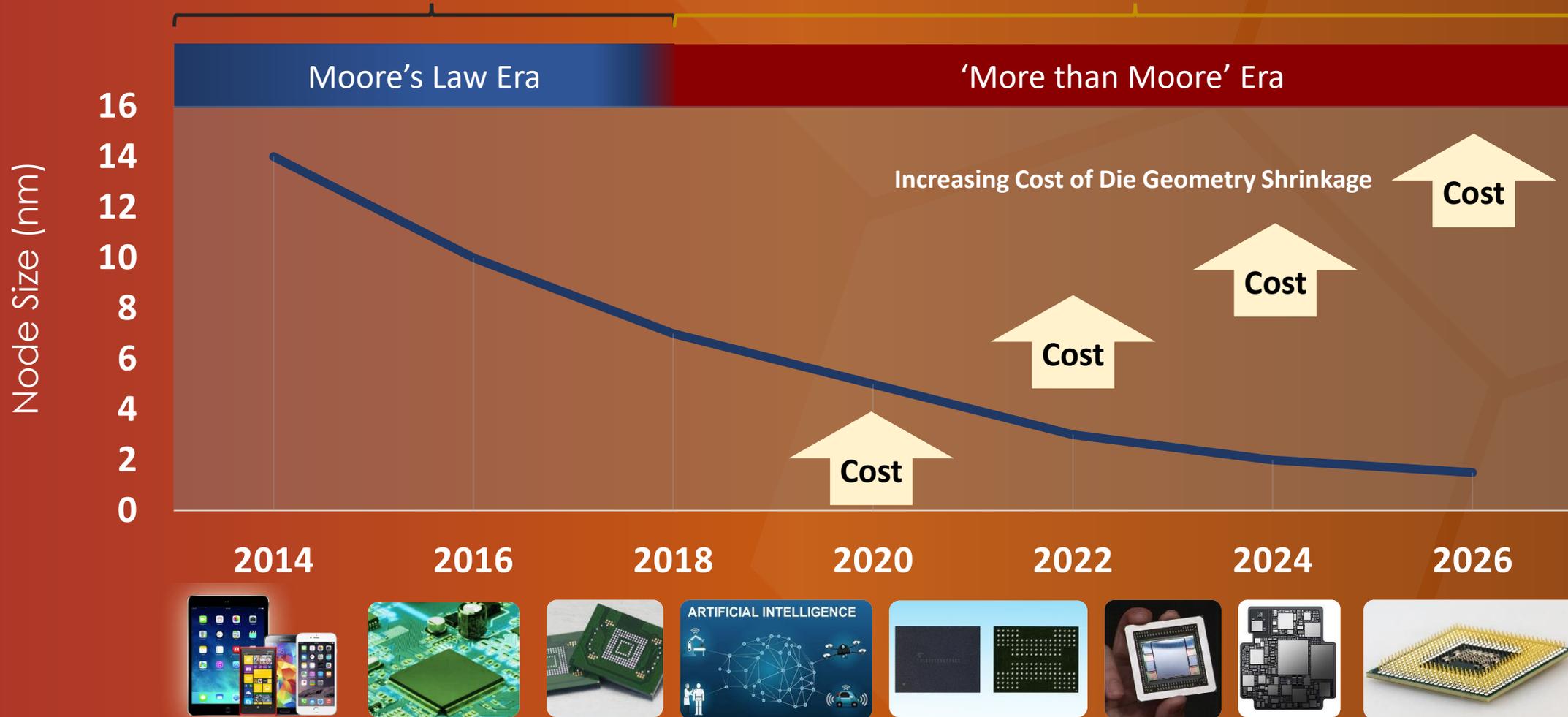
*Significant improvement in functional
density
High Bandwidth and Low Power*



More than Moore: Heterogeneous Integration & Advanced Packaging Shifting the Value Chain

Shrinkage in Die Geometry

Solution: Heterogeneous Integration and Advanced Packaging

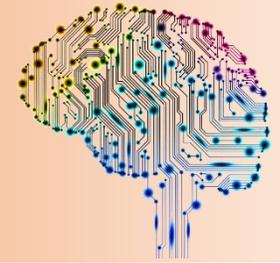


Heterogeneous Integration & Advanced Packaging Unleashes the Power of A.I.

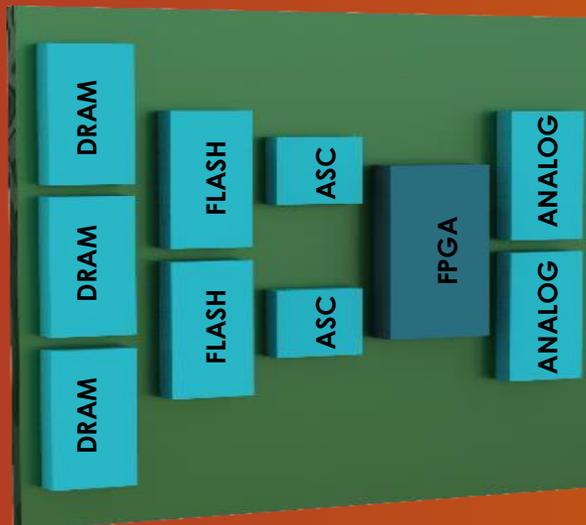
Advantages of Heterogeneous Integration

- Integrating multi-mode technologies to enable “More than Moore”
- Faster time to market
- Less IP issues
- Flexibility
- Cost savings

Crucial enabling technology for Artificial Intelligence

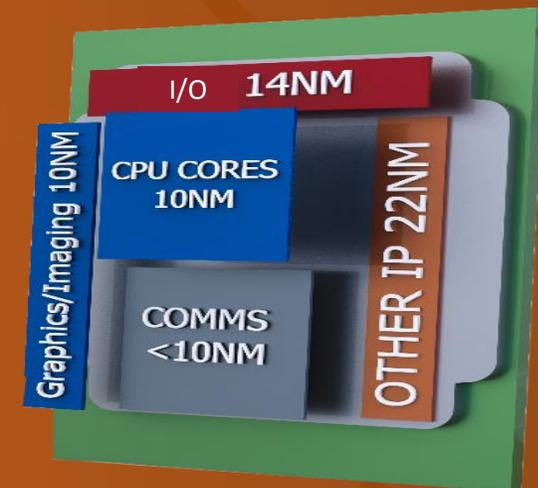


From...



Heterogeneous Integration

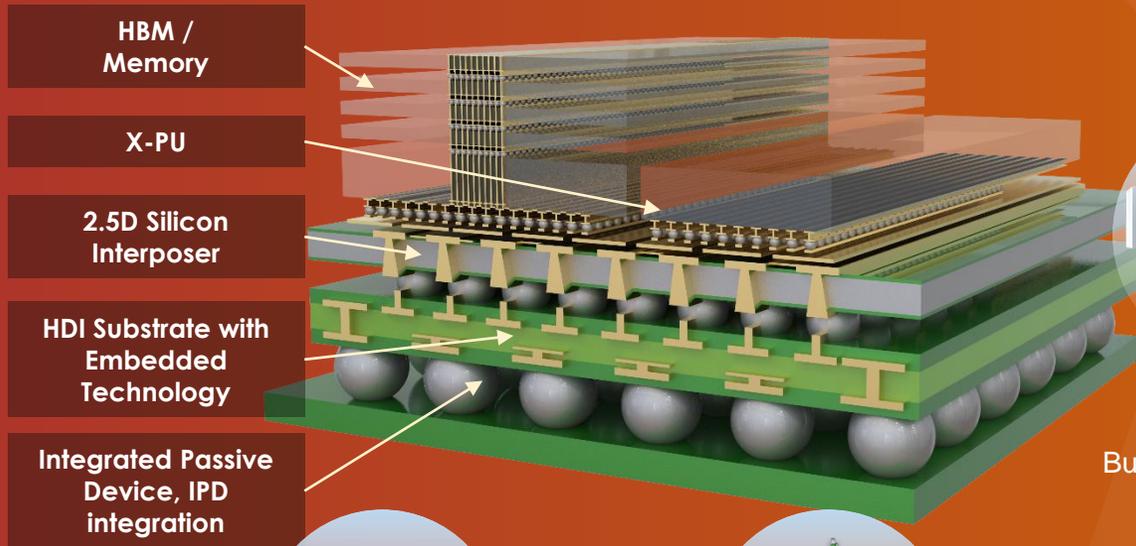
To...



“High Bandwidth & Low Power Data Pipes ONLY Available On Heterogeneous Integration on Advanced Packages”

Advanced Packaging: The Game Changer in Semiconductor Revolution

Advanced Packaging Technology Enabler



FIREBIRD
TCB
FLI



NEXX
PVD | ECD
Bumping, TSV & RDL



Laser 1205
Laser Separation
Wafer Dicing and Grooving



SIPLACE CA
Die Attach & SMT
Wafers and SMT Feeders



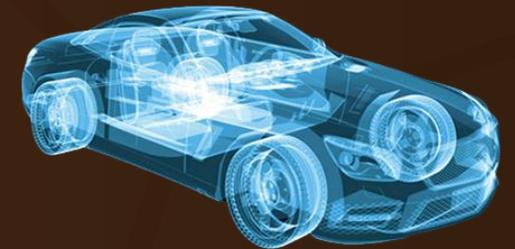
NUCLEUS
Pick and Place
Wafer and Panel

End Applications

Datcenters for HPC, Machine Learning

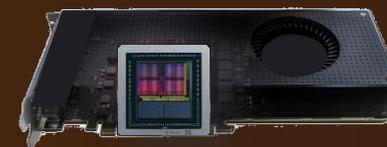


Automotive – Sensors, Camera, Body Electronics, Safety Systems, Infotainment



IoT Era – Smart Wearables & Smart Machines (Factories)

GPU for VR/AR & AI



Applications Fueling OPTO Business Growth

MiniLED



Market Size CAGR 2019 – 2023
~ 90 %



Video Walls / Large Displays

MicroLED



Current Resolution 2160 x 1200

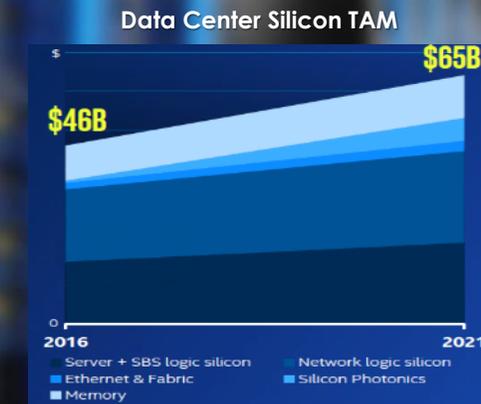
MicroLED is expected to offer
10X
higher resolution

Display for AR / VR

Photonics



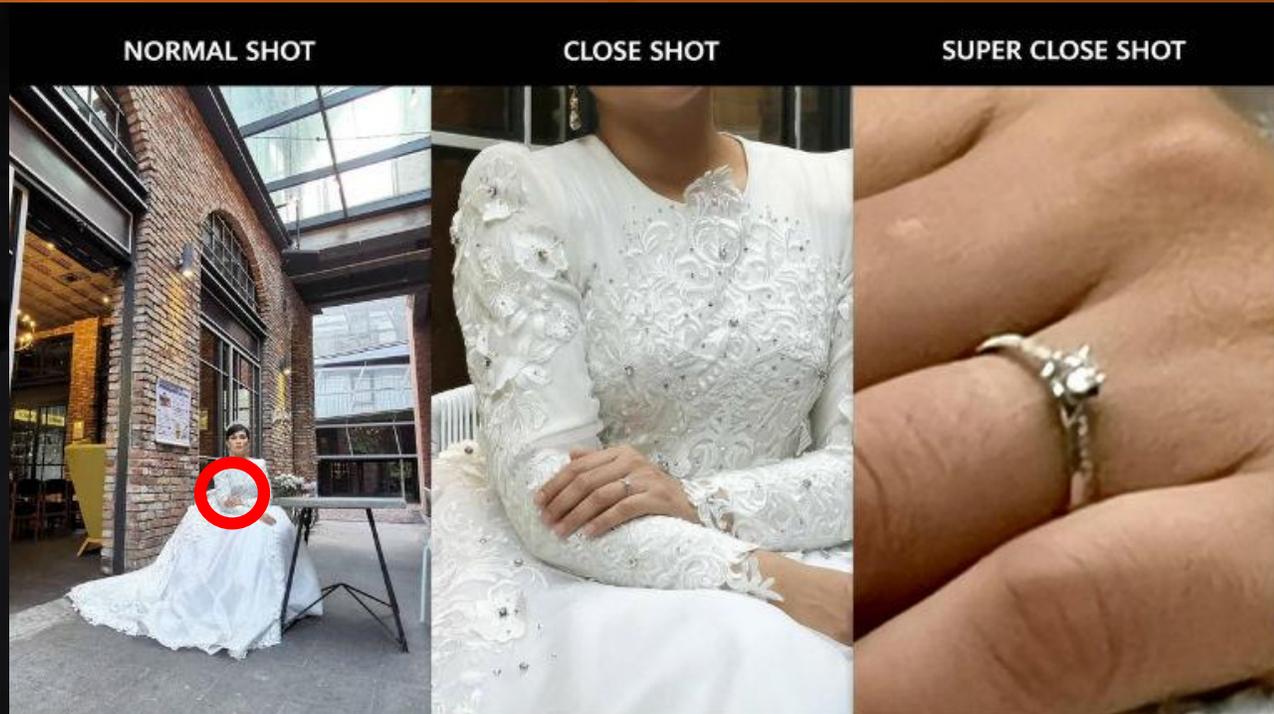
Market Size CAGR 2019 – 2025
~ 23.4 %



Source: Intel

Data Centre /
Cloud Computing

Smartphone Innovations Continue to Drive CIS Business



50X Zooming Capability
(5X Optical + 10X Digital Zoom)

The Role of the Camera in the Data Era Redefined

Today...



Videos



Social Media Content



Still Images



Autonomous Vehicles

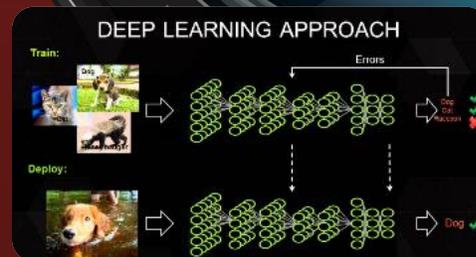


AR/VR



Security: Features Recognition

Future...



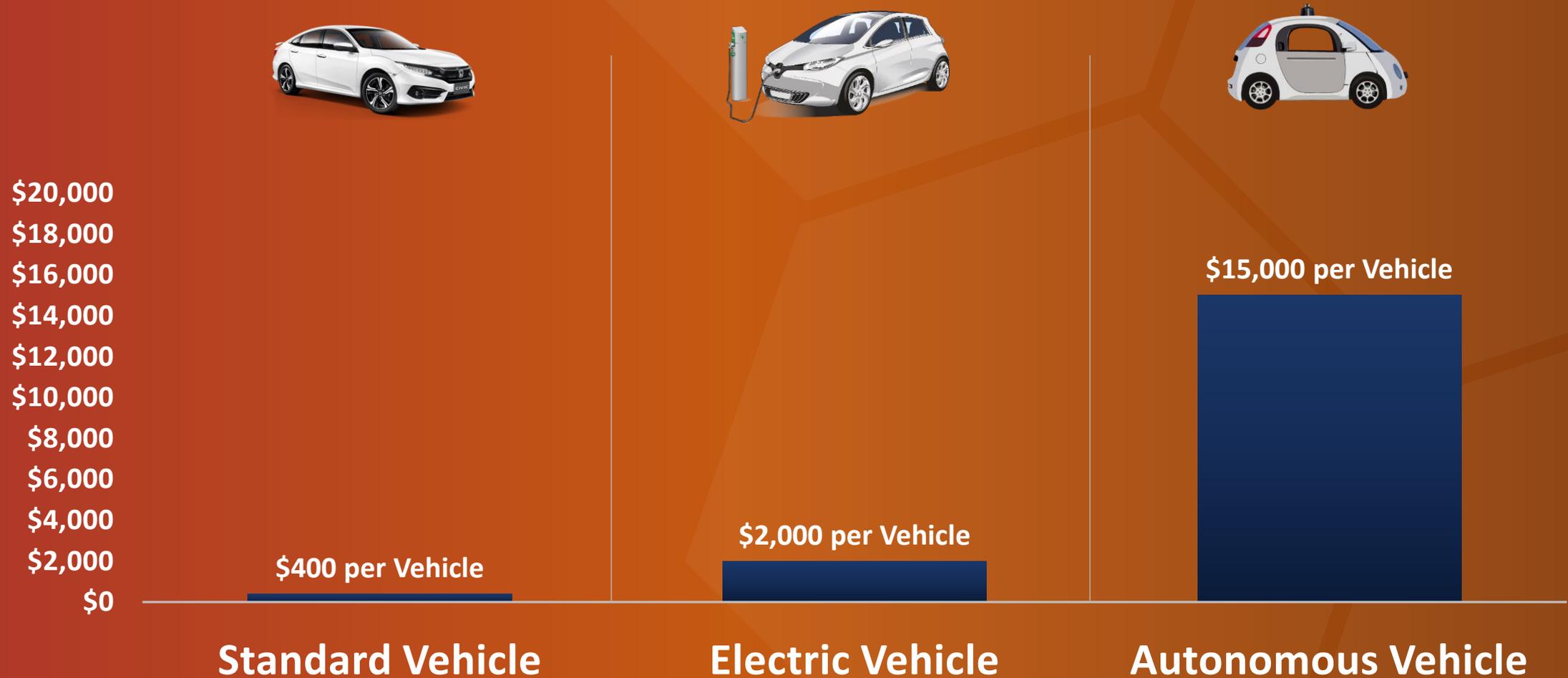
Artificial Intelligence



Industrial Inspection with Drones

'Smart Cars' will drive Semiconductor Industry Growth

Semiconductor Content Value in a single unit vehicle, 2018 (in US\$)



How will 'Smart Cars' drive ASMPT's Growth?



5G to Cloud Connectivity

Vehicle-to-X (Vehicle, Infrastructure, Network, Devices) communications



Sensors

Image, LIDAR, Radar



Power Management

Battery Technology for thermal management



Entertainment Platform

Television, Mobile devices, VR/AR, Gaming, etc.

Sensors

The eyes and ears to gather information from the Road

Power

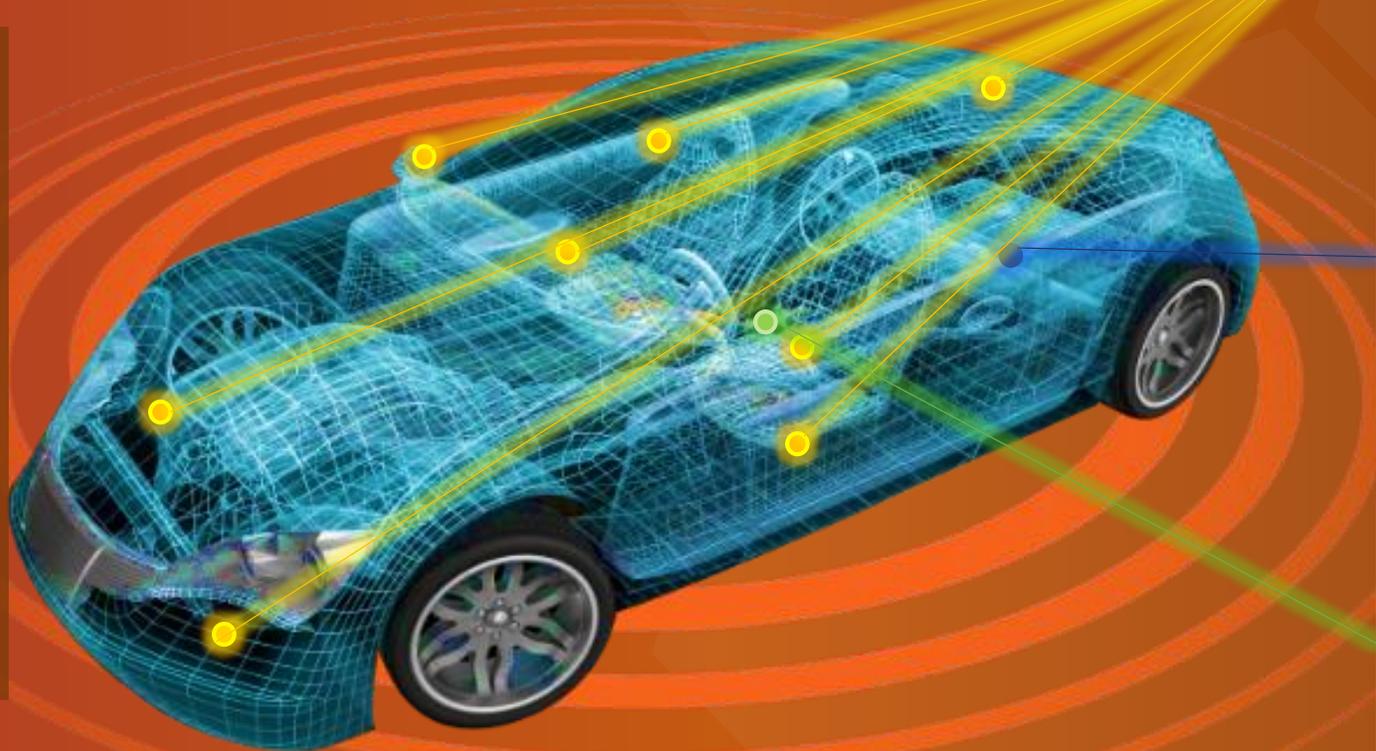
Thermal management (e.g. Ag Sintering) will play important role

5G to Cloud Connectivity

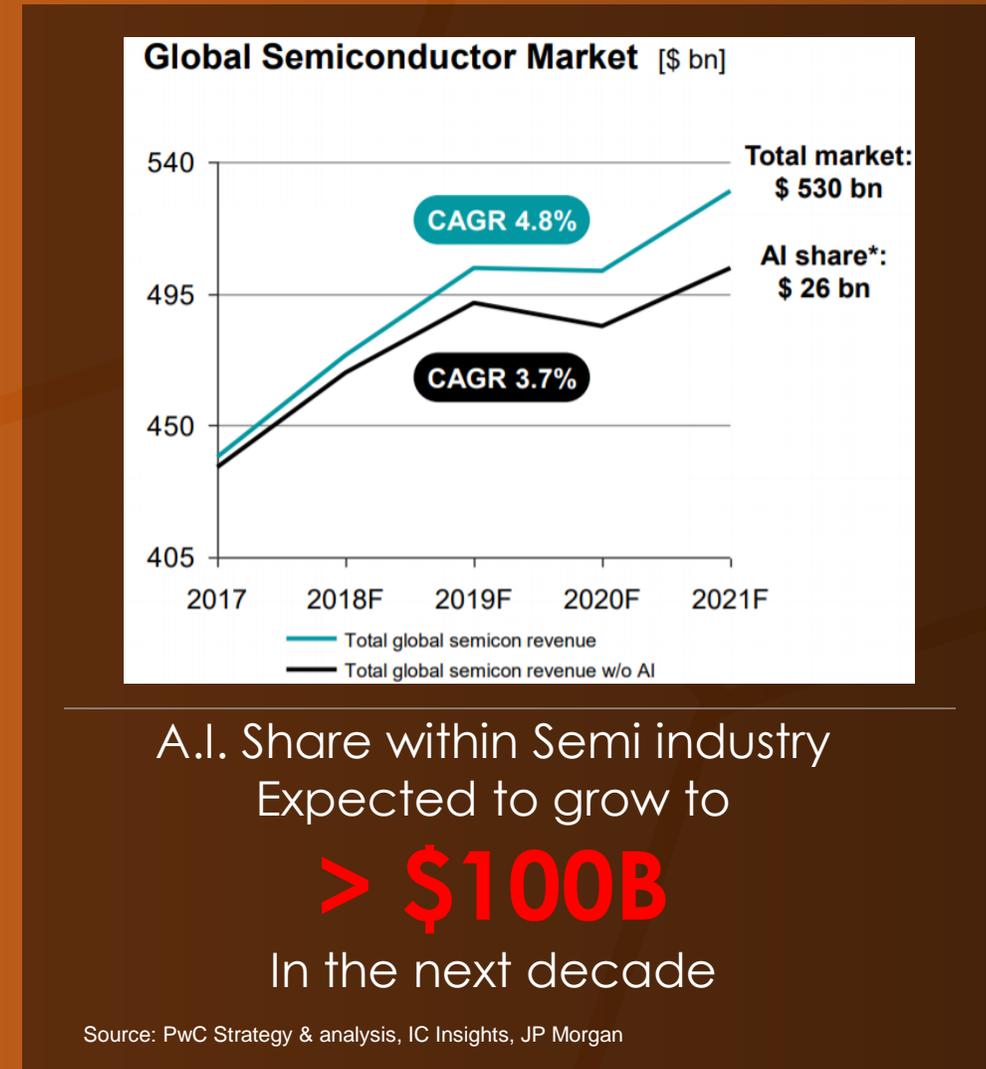
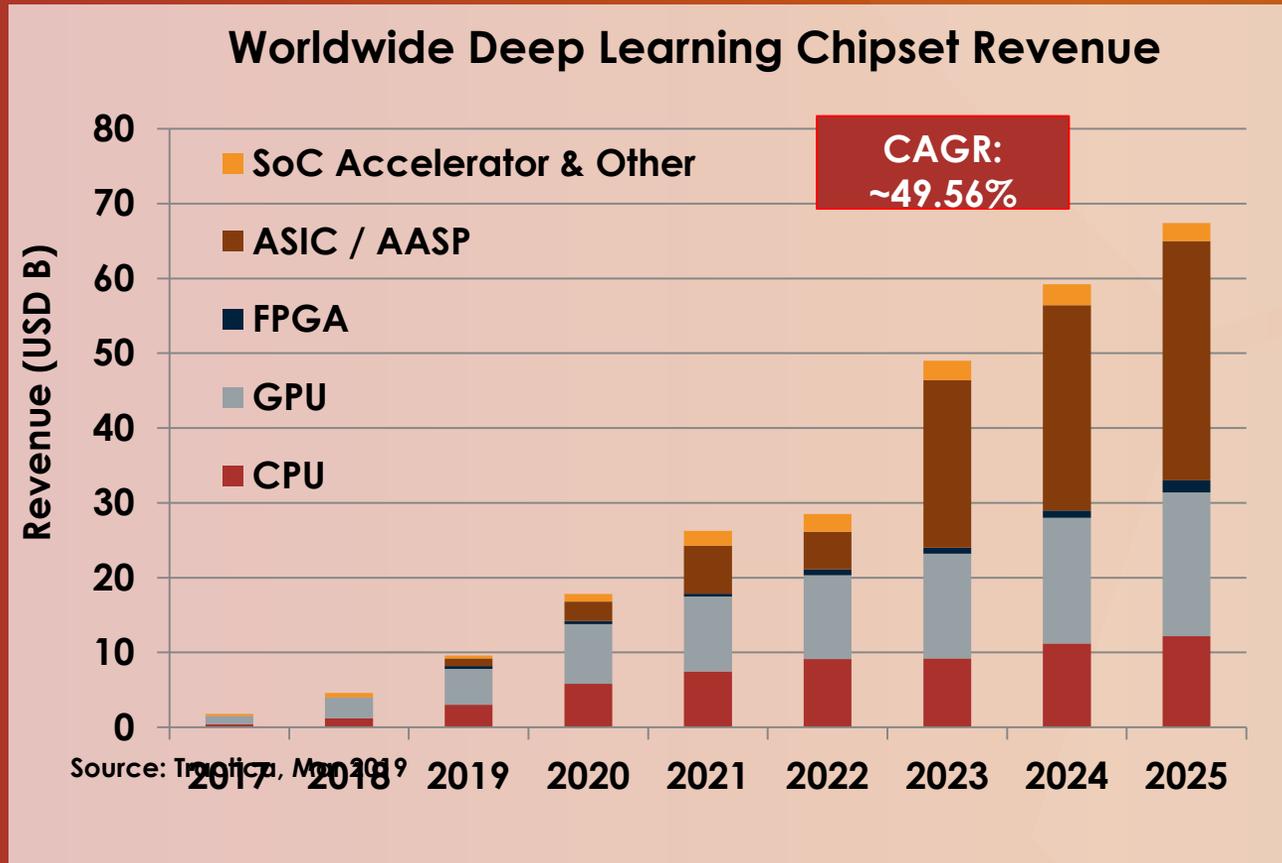
Enable "V2X" communications

Entertainment

Frees up driver's attention on road for entertainment



Artificial Intelligence (AI) is a Significant Driving Force for ASMPT



A.I. Share within Semi industry
Expected to grow to

> \$100B

In the next decade

5G to Bring About New Array of Applications in the Data-Era



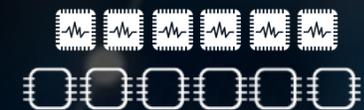
Opportunities



More Base Stations



Substrate Like PCB



Greater Demand for Chips
and RF Filters

Hardware + Software + Services

ASM SMART FACTORY SOLUTIONS

ENABLING THE DIGITAL WORLD

ADAMOS

IIoT applications & services, IIoT portal
(Data Analytics, Business Intelligence, Cloud based)

CRITICAL MANUFACTURING

Factory Level (MES)

(Planning, Process Flow Maintenance, Visualization)

IPC CFX

OPC FOUNDATION

SECS/GEM

Line Level

(Automation, Material Management, Lot Management)

ASM



Shop floor / Equipment

OPC FOUNDATION

SECS/GEM



Expanding Beyond Assembly and Packaging Solutions

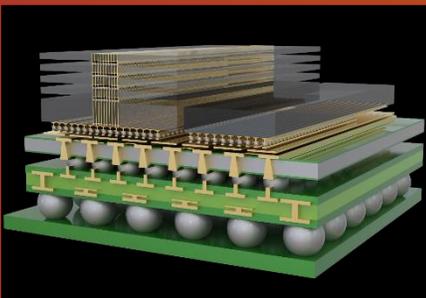
Application Markets



CIS



Automotive



Advanced Packaging

Industry Requirements

- Zero Foreign Particles

- Demands High Quality
- Zero PPM Defects

- 100%, on-line high speed inspection

ASMPT's Enabling Solutions

- 1µm Particle Inspection Capability with Auto Clean Solution

- 2D and 3D All-in-one Vision System

Made Strategic Investment into a Silicon Valley Startup on X-Ray Inspection Solutions



TwinSpect
Automated Optical Inspection

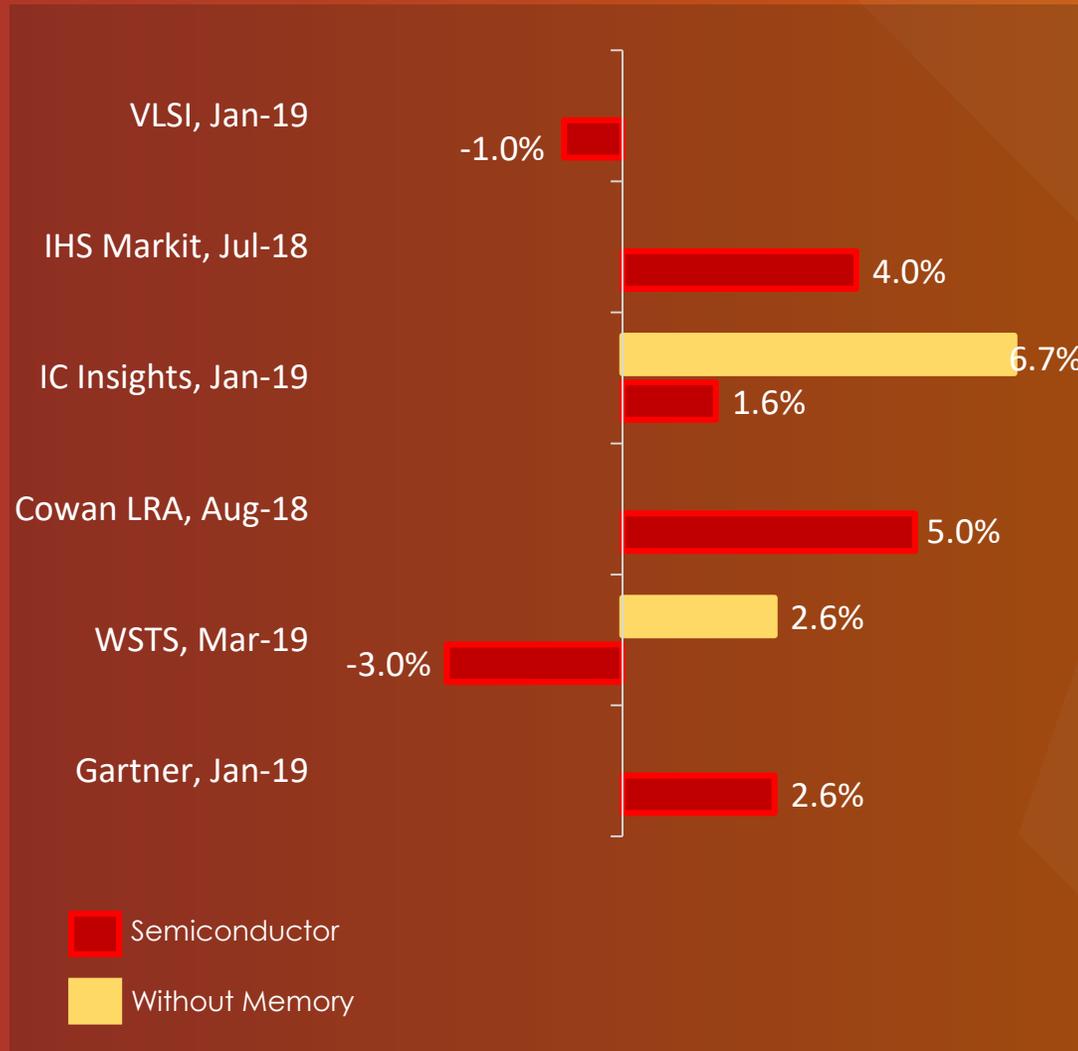


SkyHawk
3D Automated Optical Inspection

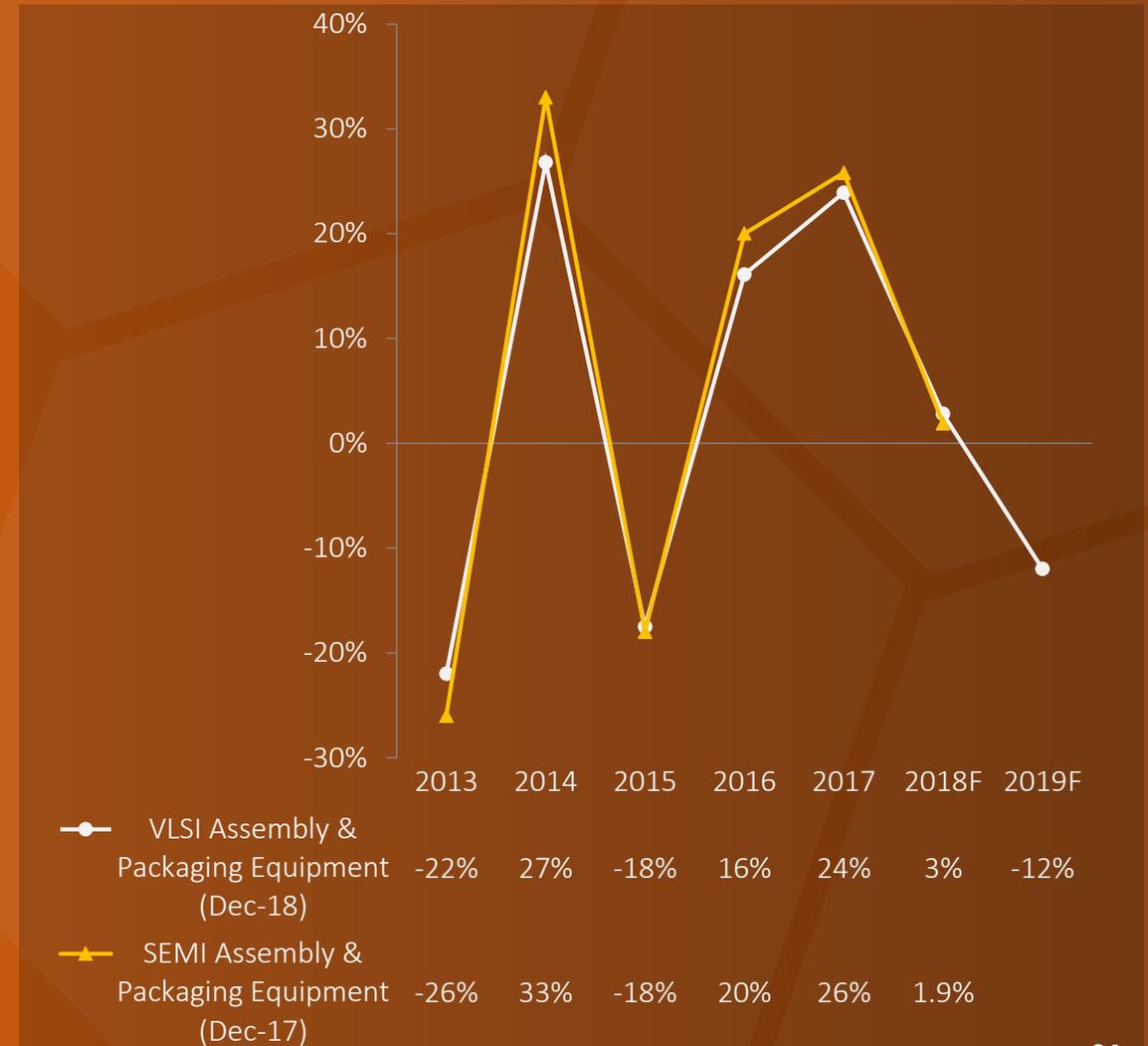
Outlook

Industry Growth Forecast (2019)

Semiconductor Industry



Forecast Global Assembly & Packaging Equipment Market



Outlook

Q2 Group Billing: US\$490 million to US\$540 million

- **Expect Back-end business to lead the QoQ improvement**

Q2 Group Booking: Anticipate double-digit percentage improvement QoQ

Many customers believe chance of market improvement greater than chance of further market deterioration



**2019 Q1
Financial Results**

Q1 Segment Financial Highlights

Q1 2019	Back-end Equipment Segment		Materials Segment		SMT Solutions Segment	
	YoY	QoQ	YoY	QoQ	YoY	QoQ
Bookings	-45.2%	-4.2%	-37.4%	+15.2%	-30.1%	-5.1%
Revenue	-30.4%	-15.9%	-32.3%	-15.5%	+11.4%	-30.1%
Gross Margin	-508bps	-383bps	-271bps	+275bps	-269bps	+423bps
Segment Profit	-89.5%	-68.0%	-73.3%	+214.2%	+6.4%	-28.5%
Segment Profit Margin	-1928bps	-558bps	-406bps	+193bps	-58bps	+27bps

Q1 2019 Segment Results - Back-End Equipment Business

	Q1 2019	YoY	QoQ
Bookings (USD)	223m	-45.2%	-4.2%
Billings (USD)	196m	-30.4%	-15.9%
Gross Margin	39.2%	-508bps	-383bps
Segment Profit (HKD)	53m	-89.5%	-68.0%
Segment Profit Margin	3.4%	-1928bps	-558bps

- IC/Discrete and CIS took the lead in Backend EQT Booking
- Booking for IC/Discrete ▲ 30% QoQ (excluding ASM NEXX)
- CIS Booking more than double QoQ
- Gross Margin ▼: Lower sales volume and under-utilization of installed production capacity

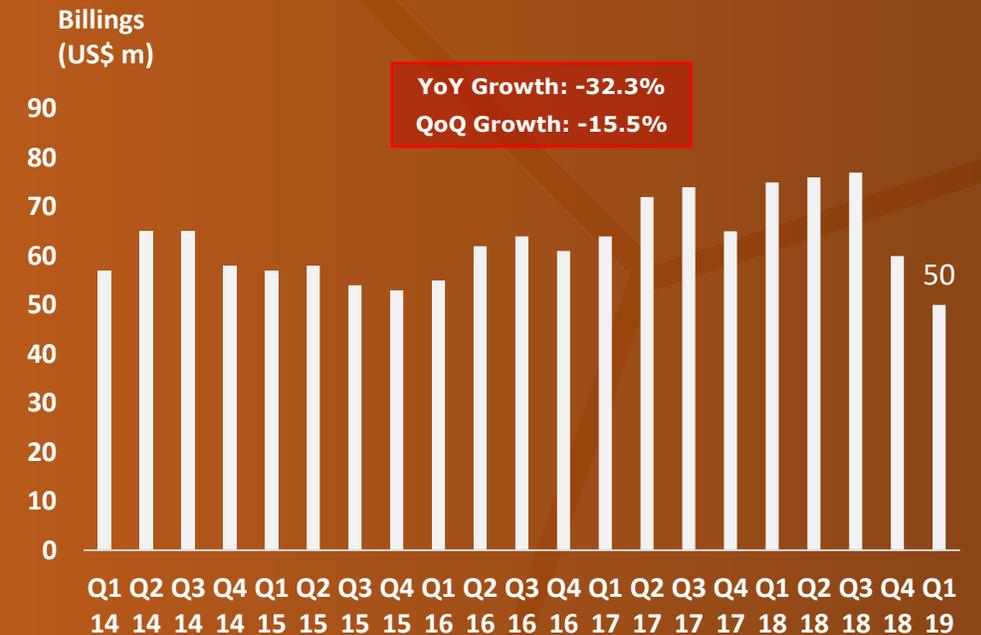
Billings (US\$ m)



Q1 2019 Segment Results - Materials Business

	Q1 2019	YoY	QoQ
Bookings (USD)	46m	-37.4%	+15.2%
Billings (USD)	50m	-32.3%	-15.5%
Gross Margin	10.4%	-271bps	+275bps
Segment Profit (HKD)	10m	-73.3%	+214.2%
Segment Profit Margin	2.6%	-406bps	+193bps

- Booking ▲ 15.2% QoQ
- Historically a leading indicator for the market
- GM ▲ 275 bps QoQ to 10.4%



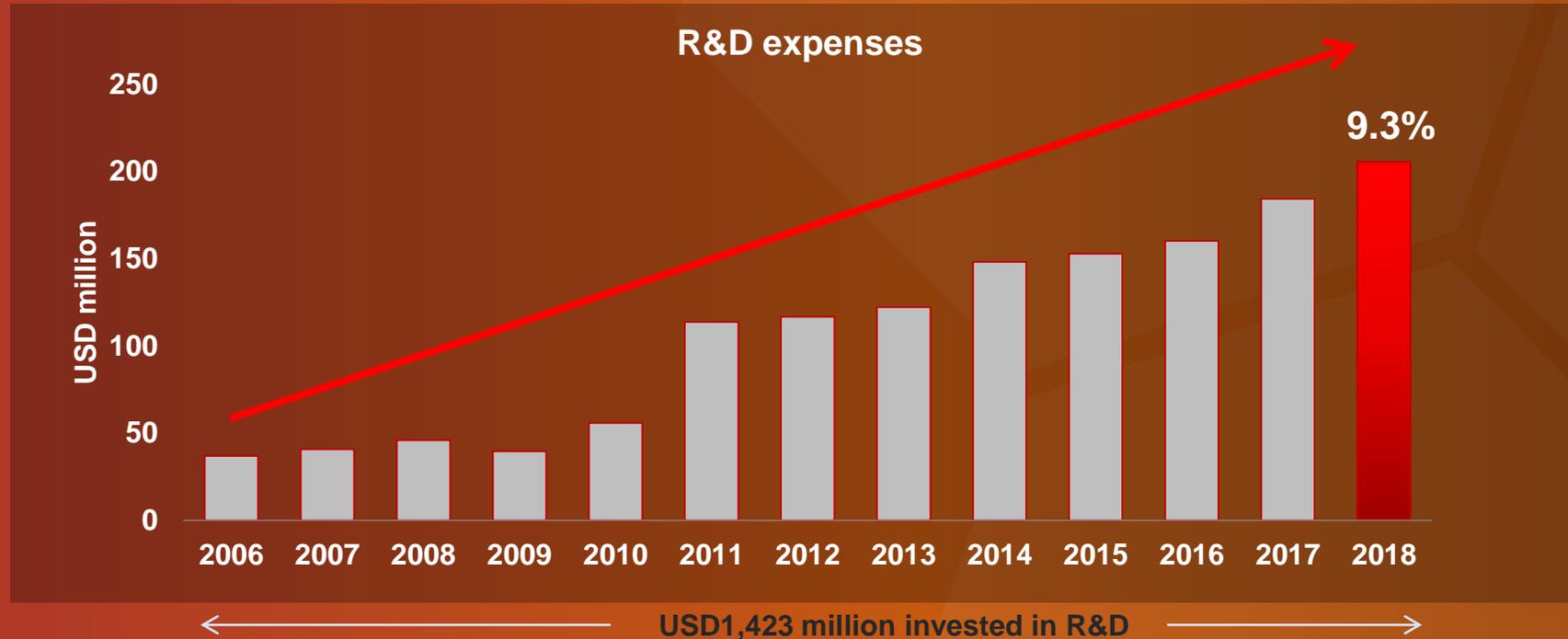
Q1 2019 Segment Results - SMT Solutions Business

	Q1 2019	YoY	QoQ
Bookings (USD)	192m	-30.1%	-5.1%
Billings (USD)	220m	+11.4%	-30.1%
Gross Margin	34.5%	-269bps	+423bps
Segment Profit (HKD)	213m	+6.4%	-28.5%
Segment Profit Margin	12.4%	-58bps	+27bps

- Billing ▲ 11.4% YoY
- Segment Profit ▲ 6.4% YoY

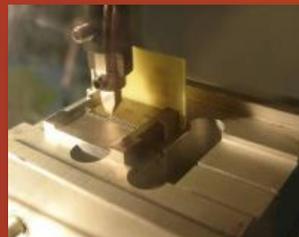


R&D Commitment Makes Us a Preferred Partner of Choice

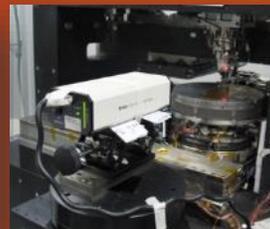


2018 R&D expenditure

- US\$ 205 million
- 9.3% of equipment sales



Package Interconnection



Optics precision engineering



Vibration control



Laser dicing & grooving

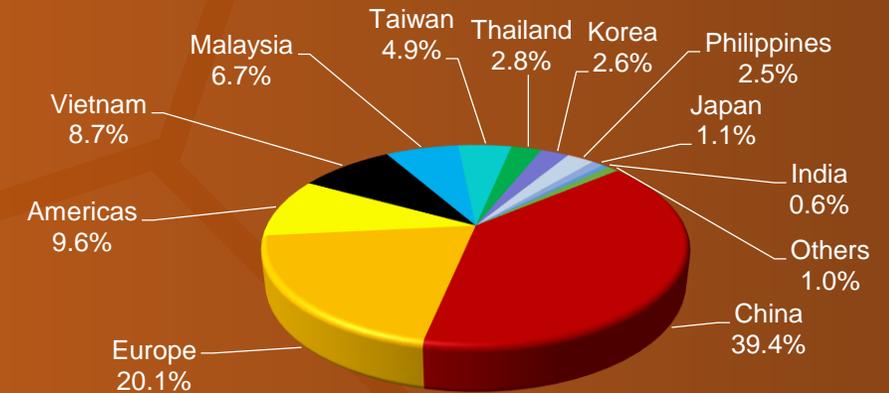


SMT

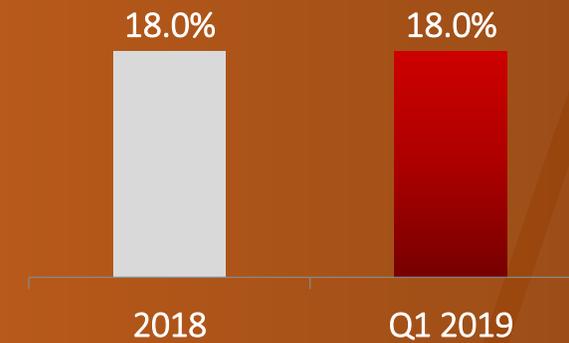
An Extensive Customer Base

- No single customer accounted for more than 10% of Group revenue
- Top 5 customers accounted for 18% of Group's Q1 2019 revenue
- Top 20 customers include:
 - World's leading IDMs
 - Tier 1 OSATs, major OSATs in China
 - Key LED players
 - Major camera module makers
 - Top EMS providers
 - Leading automotive component suppliers
- Among Top 20 customers of Group:
 - 6 from SMT Solutions segment
 - 4 from both Back-End Equipment & SMT Solutions segment

Q1 2019 Geographical Distribution of Revenue



Q1 2019 Revenue Contribution from Top 5 Customers





Awards & Recognition

Recent Awards & Recognition

- Technology Achievement Grand Award of HKIA 2017
(for the third time)
Federation of HK Industries



- Directors of the Year Awards 2017 (Collective Board)
- Directors of the Year Awards 2018 (Individual Director)
Hong Kong Institute of Directors



- Hong Kong Outstanding Enterprises 2017-18
HK Economic Digest



- 2017 All Stars of the Semiconductor Industry
VLSI Research

VLSIresearch's 2017 All Stars

- Singapore Quality Class
Enterprise Singapore

Recent Awards & Recognition

- Factory of the Year 2016 Award (for SMT) by Produktion/AT Kearney



- Ranked among Top 10 of Best Managed HK Companies
- Ranked among Top 10 of Best at Investor Relations



- 2017 & 2018 "Triple Crown" with RANKED 1st/10 BEST/BEST Suppliers Awards from VLSIresearch



- 2016-17 Corporate Governance Asia – Best Investor Relations Company (HK)
- 2017 Corporate Governance Asia – Best CEO (Investor Relations)



- 2015 Hong Kong Awards for Industries: Technology Achievement Grand Award



VLSI Awards 2018




 Celebrating 10 Years
THE BEST
 Supplier Award
 Customer Satisfaction
 2018

10 BEST Segment	Rank	10 BEST CHIP MAKING EQUIPMENT SUPPLIERS OF 2018	Rating	Stars
L A R G E	1	TERADYNE	9.25	★★★★★
	2	ADVANTEST	9.10	★★★★★
	3	ASML	9.05	★★★★★
	4	Hitachi Kokusai Electric	8.90	★★★★★
	5	TEL TOKYO ELECTRON	8.45	★★★★
	6	APPLIED MATERIALS	7.55	★★★★
	7	ASM Pacific Technology	7.45	★★★
	8	Hitachi High-Tech	7.45	★★★
F O C U S E D	1	Plasma Therm	9.01	★★★★★
	2	AMEC	8.95	★★★★★
	3	FORMFACTOR	8.94	★★★★★
	4	SPTS	8.90	★★★★★
	5	Xcerra measured by your success	8.76	★★★★★
	6	EVG	8.42	★★★★
	7	ACCRETECH TOKYO SEIMITSU	7.22	★★★

Source: VLSIresearch
cas_10BEST_v18.05


THE BEST
 Supplier Award
 Customer Satisfaction
 2018

WHAT THE BEST SUPPLIERS OF 2018 ARE BEST AT

 ACCRETECH TOKYO SEIMITSU <ul style="list-style-type: none"> • Uptime • Usable Performance 	 ADVANTEST <ul style="list-style-type: none"> • Trust in Supplier • Recommend Supplier
 AMEC <ul style="list-style-type: none"> • Recommend Supplier • Trust in Supplier 	 APPLIED MATERIALS <ul style="list-style-type: none"> • Field Engineering Support • Uptime
 ASM Pacific Technology <ul style="list-style-type: none"> • Field Engineering Support • Support After Sales 	 ASML <ul style="list-style-type: none"> • Recommend Supplier • Technical Leadership
 EVG <ul style="list-style-type: none"> • Technical Leadership • Trust in Supplier 	 FORMFACTOR <ul style="list-style-type: none"> • Technical Leadership • Recommend Supplier
 Hitachi High-Tech <ul style="list-style-type: none"> • Trust in Supplier • Uptime 	 Hitachi Kokusai Electric <ul style="list-style-type: none"> • Field Engineering Support • Process Support
 JAPAN ELECTRONIC MATERIALS <ul style="list-style-type: none"> • Partnering • Recommend Supplier 	 Nidec SVTCL <ul style="list-style-type: none"> • Partnering • Commitment
 Plasma Therm <ul style="list-style-type: none"> • Trust in Supplier • Spares Support 	 SPTS <ul style="list-style-type: none"> • Recommend Supplier • Uptime
 TECHNOPROBE Wafer Probing Technologies <ul style="list-style-type: none"> • Support After Sales • Trust in Supplier and Partnering 	 TERADYNE <ul style="list-style-type: none"> • Trust in Supplier • Recommend Supplier
 TEL TOKYO ELECTRON <ul style="list-style-type: none"> • Trust in Supplier • Uptime 	 Xcerra measured by your success <ul style="list-style-type: none"> • Trust in Supplier • Recommend Supplier

Source: VLSIresearch Doc: cas_THEBEST_v18.05

ASSEMBLY EQUIPMENT	Rating	VLSI STARS
1 ASM Pacific Technology	7.47	★★★

ASM Pacific Technology

ENABLING THE DIGITAL WORLD

