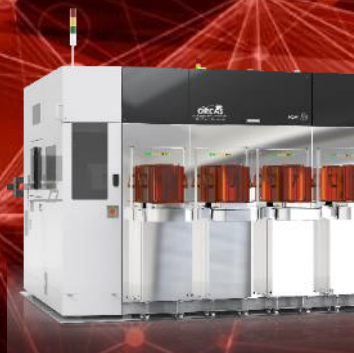


2019 Q1 Results Announcement

25 April 2019



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ASMPT Recognized as TOP 100 Global Tech Leaders

ONLY Back-end Equipment Supplier Being Recognized



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

Thomson Reuters, 2018

The slide features a dark brown hexagon centered on a background of various shades of orange. The hexagon is slightly offset to the left. The text "Corporate Overview" is written in a light orange, sans-serif font, centered within the hexagon. The background has a subtle geometric pattern of lines and shapes in different orange tones.

Corporate Overview

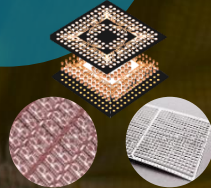
Q1 2019 Group Revenue
(CAGR 2009- Q1 2019 LTM 14.8%)

USD 467m

47.2%
SMT
Solutions

42.0%
Back-end
Equipment

10.8 %
Materials

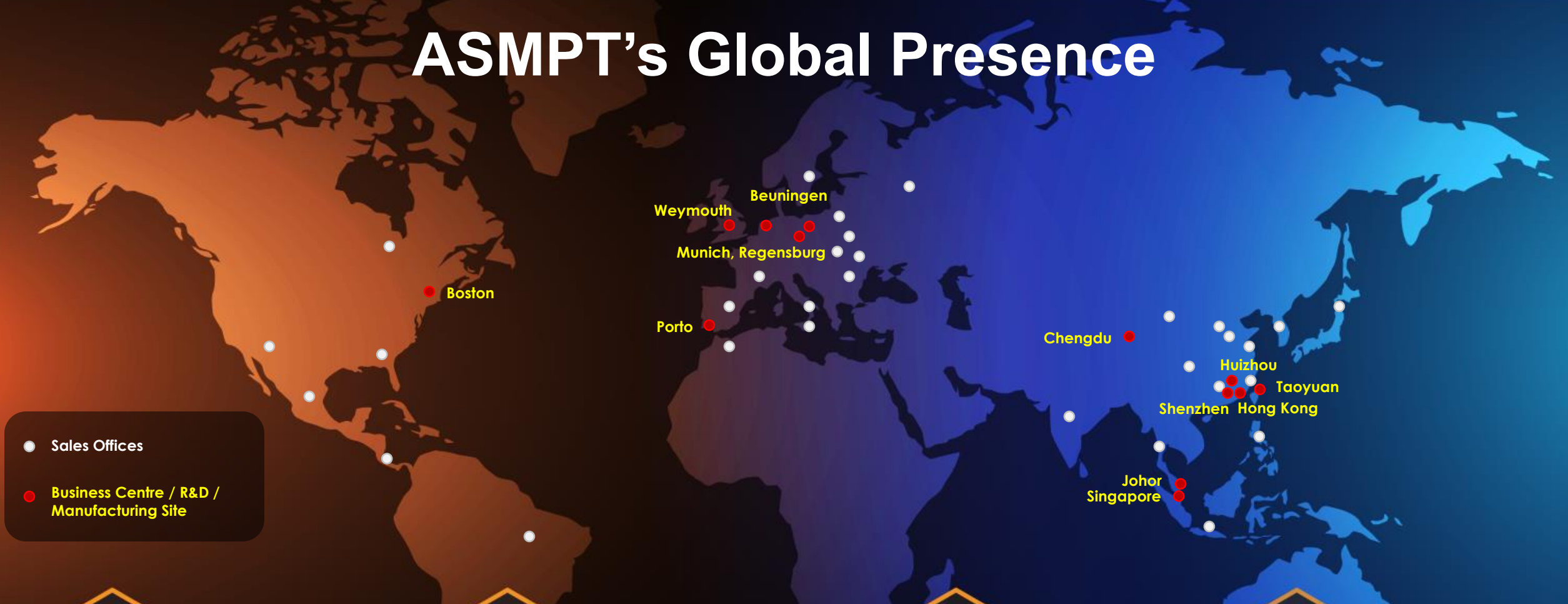


A World's Technology & Market Leader

- 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



ASMPT's Global Presence



>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

**Back-end
Equipment**

#1

**Assembly & Packaging
Equipment Market**

Since 2002

~25%
(2018)

- #1 Die Bonders
- #2 Wire Bonders
- #1/2 Flip Chip Bonders
- #1 Thermal Compression Bonders (TCB)
- #1 LED Packaging Equipment
- #1 CMOS Imaging Sensors (CIS) Equipment
- #2 Encapsulation & Post Encapsulation Solutions
- #3 Turret Test Equipment (Test Handlers)
- #2 Laser Dicing and Grooving



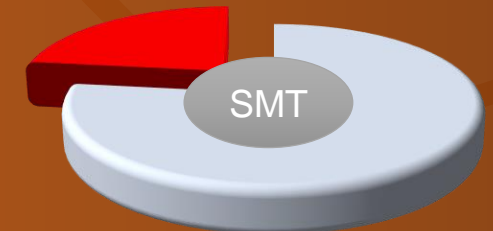
**SMT
Solutions**

#1

SMT Equipment Market

Since 2016

~23%
(2018)



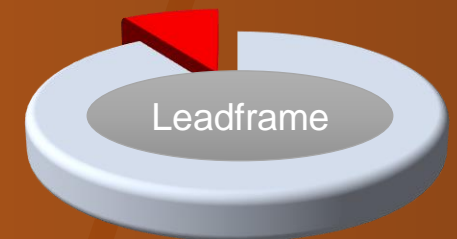
Materials

#3

Leadframe Market

Since 2018

~9%
(2018)



Sources:

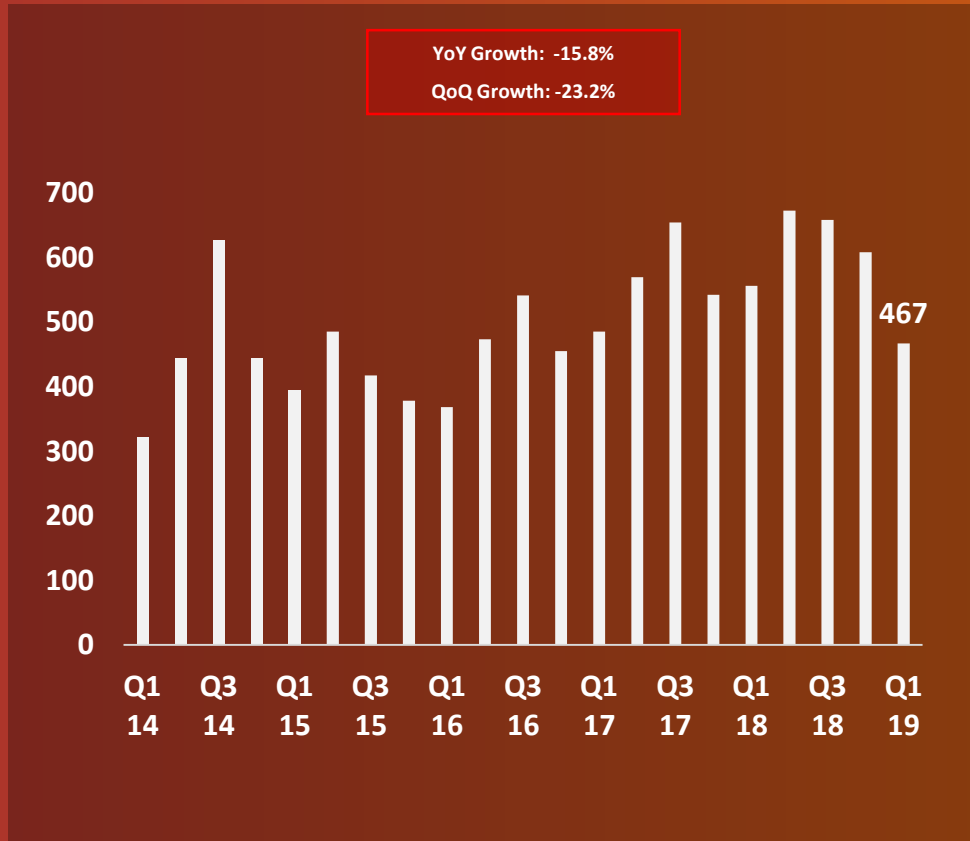
Market share for Back-end Equipment is based on information on packaging and assembly equipment market by VLSI, leadframe market by SEMI, and SMT market by ASMPT SIPLACE Market Intelligence



2019 Q1 Financial Highlights

Q1 Financial Highlights

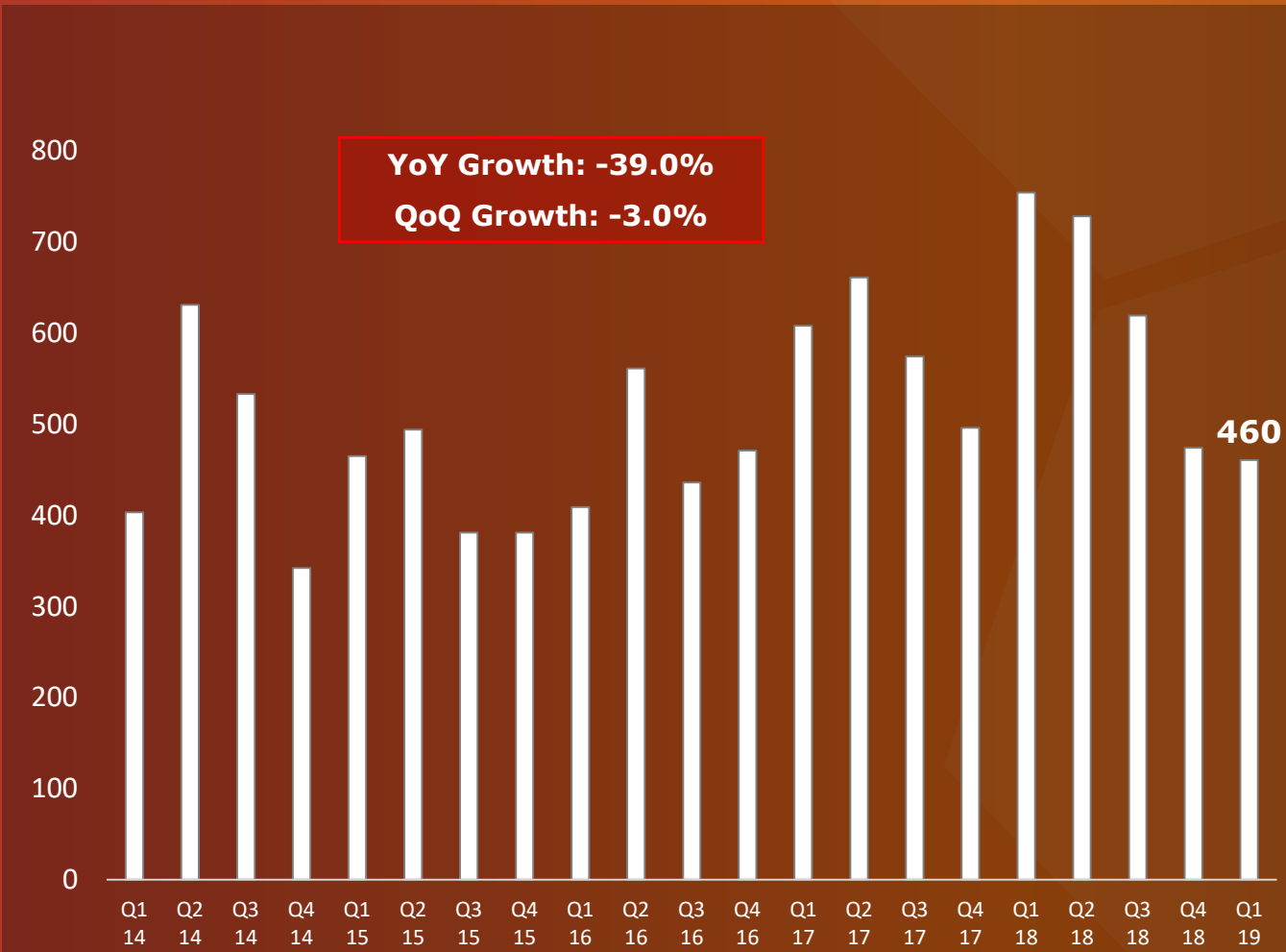
Quarterly Group Billings (US\$ m)



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

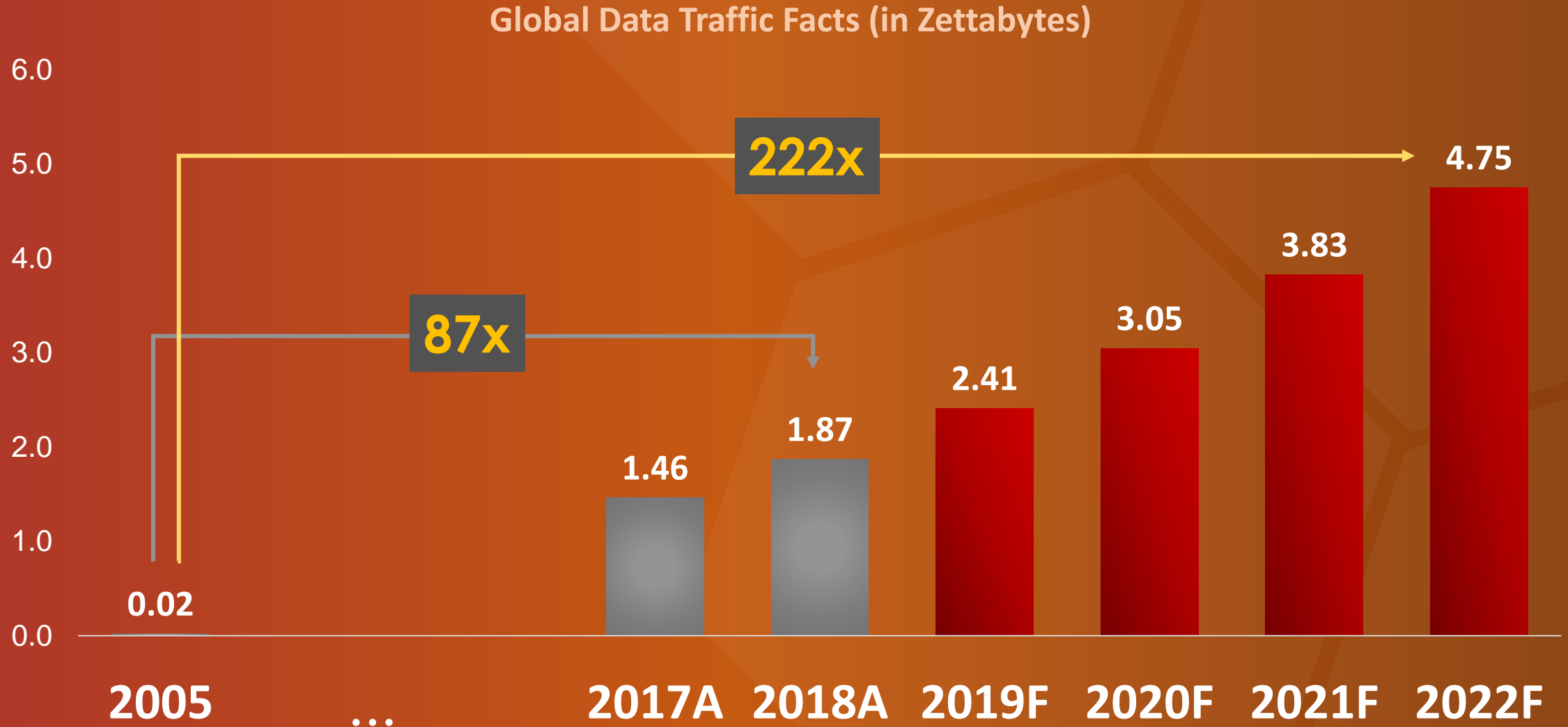
34 ZB more data generated in a year by 2030

From These Three Drivers Alone

Sources:

Cisco Visual Networking Index: Forecast and Trends, 2017–2022 White Paper,
Tuxera: Autonomous cars will generate more than 300 TB of data per year,
Wikibon: The Vital Role of Edge Computing in the Internet of Things

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



Data-Centric Era will spur Semiconductor Demand



Critical Requirements to Enable the Digital World

Critical Requirements



Greater Storage



Higher Bandwidth



No Latency

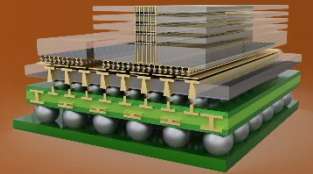


Lower Power

Technology Enabling Solutions

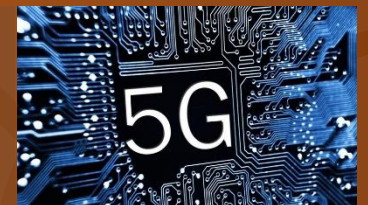
Advanced Packaging

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



5G Connectivity Infrastructure

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

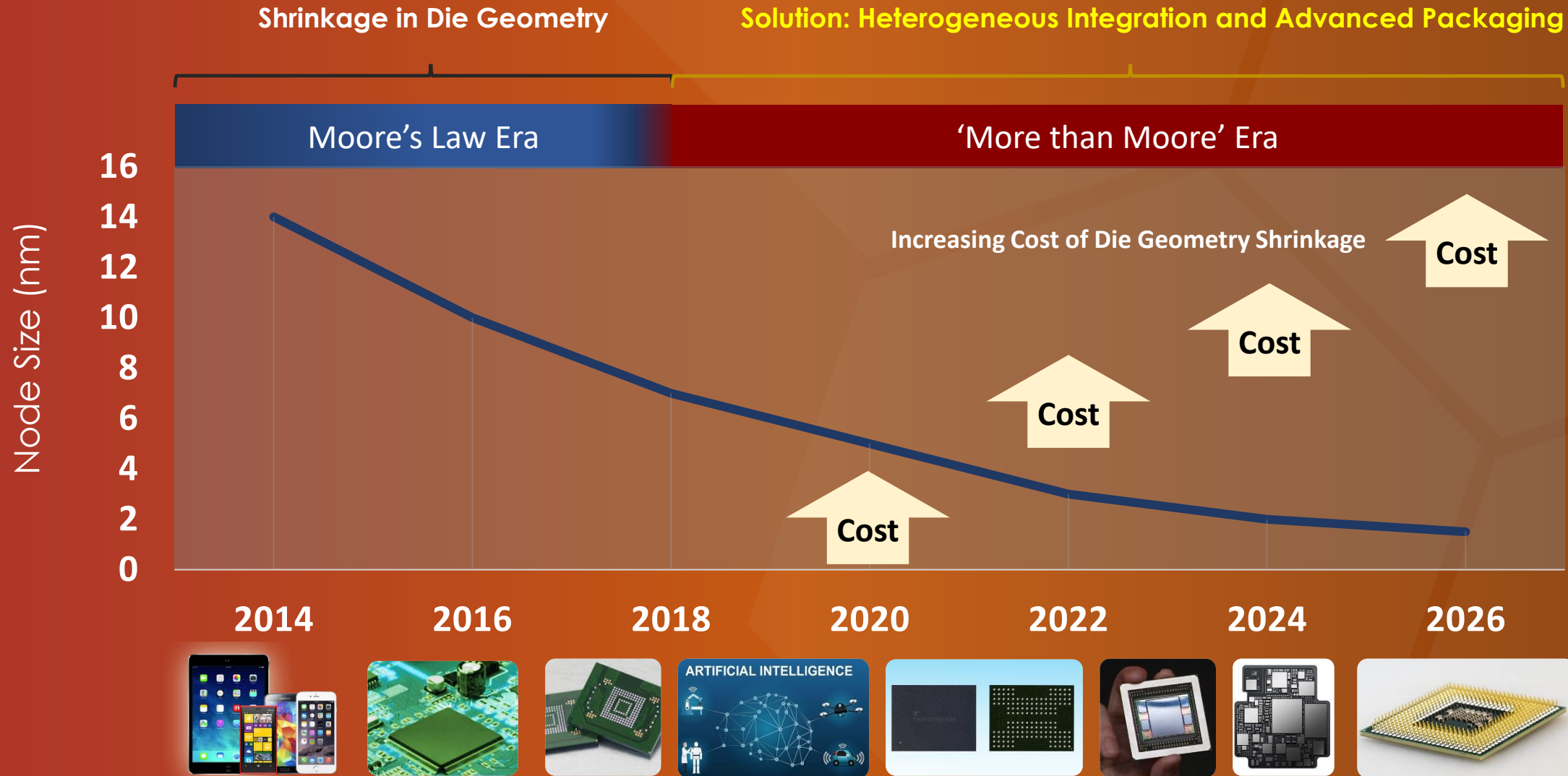


Heterogeneous Integration

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



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

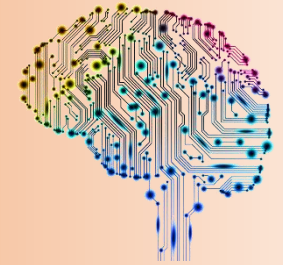


Heterogeneous Integration & Advanced Packaging Unleashes the Power of A.I.

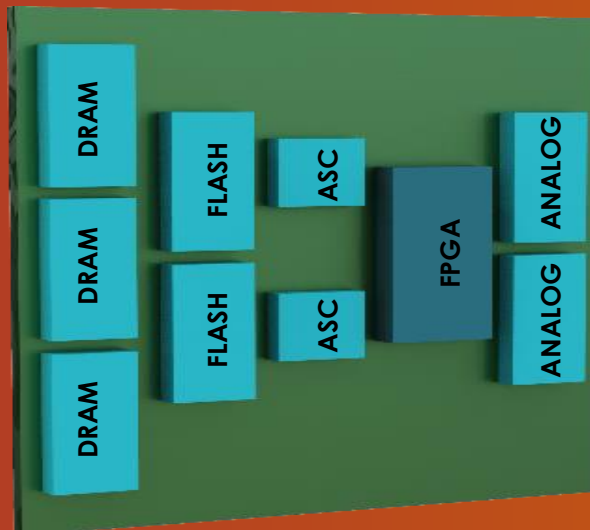
Advantages of Heterogeneous Integration

- 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

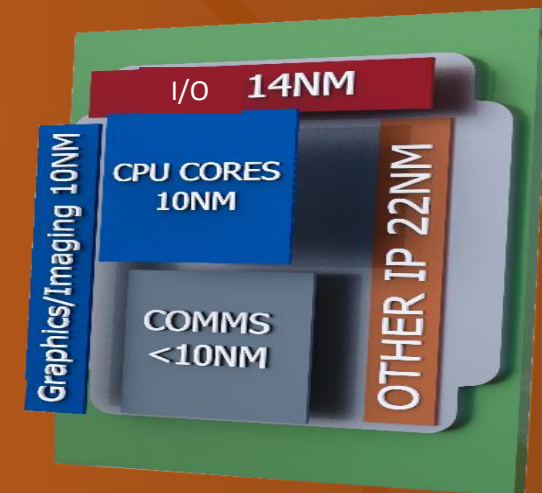


From...



Heterogeneous Integration

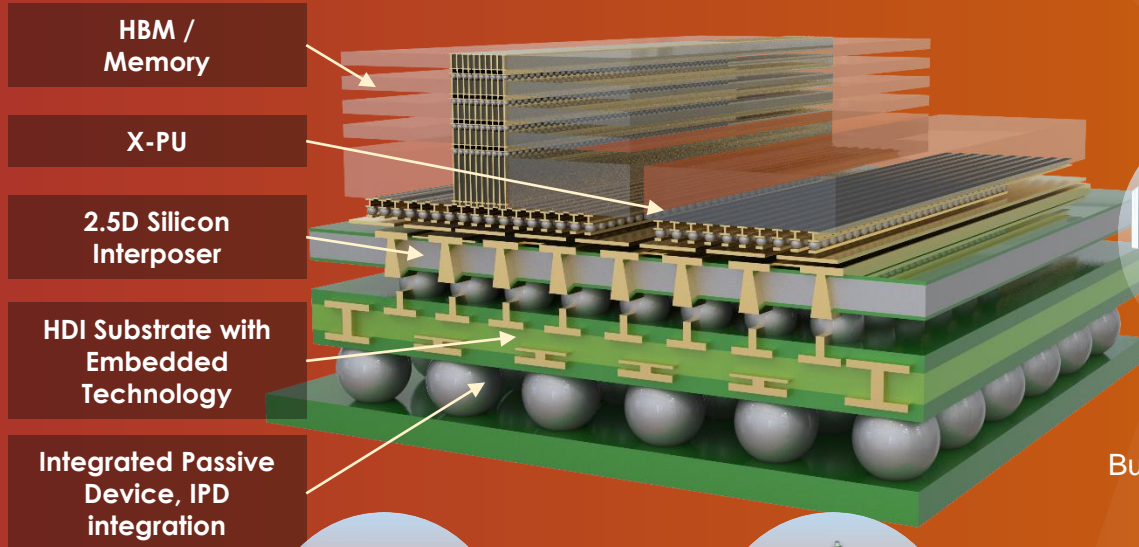
To...



“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



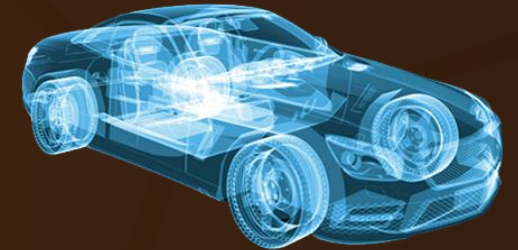
NUCLEUS
Pick and Place
Wafer and Panel

End Applications

**Datacenters for HPC,
Machine Learning**

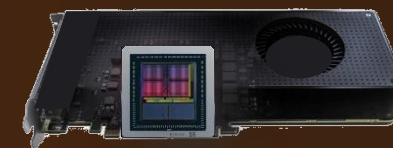


**Automotive – Sensors, Camera,
Body Electronics, Safety Systems,
Infotainment**



**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

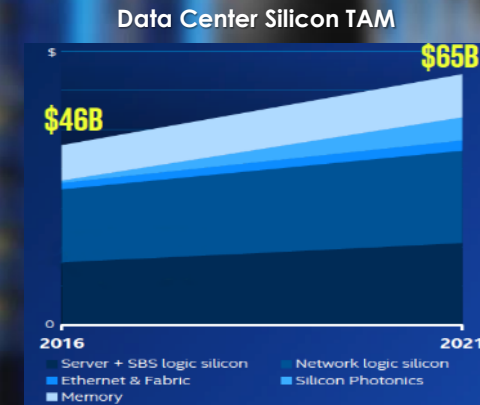
MicroLED is expected to offer
10X
higher resolution

Display for AR / VR

Photonics



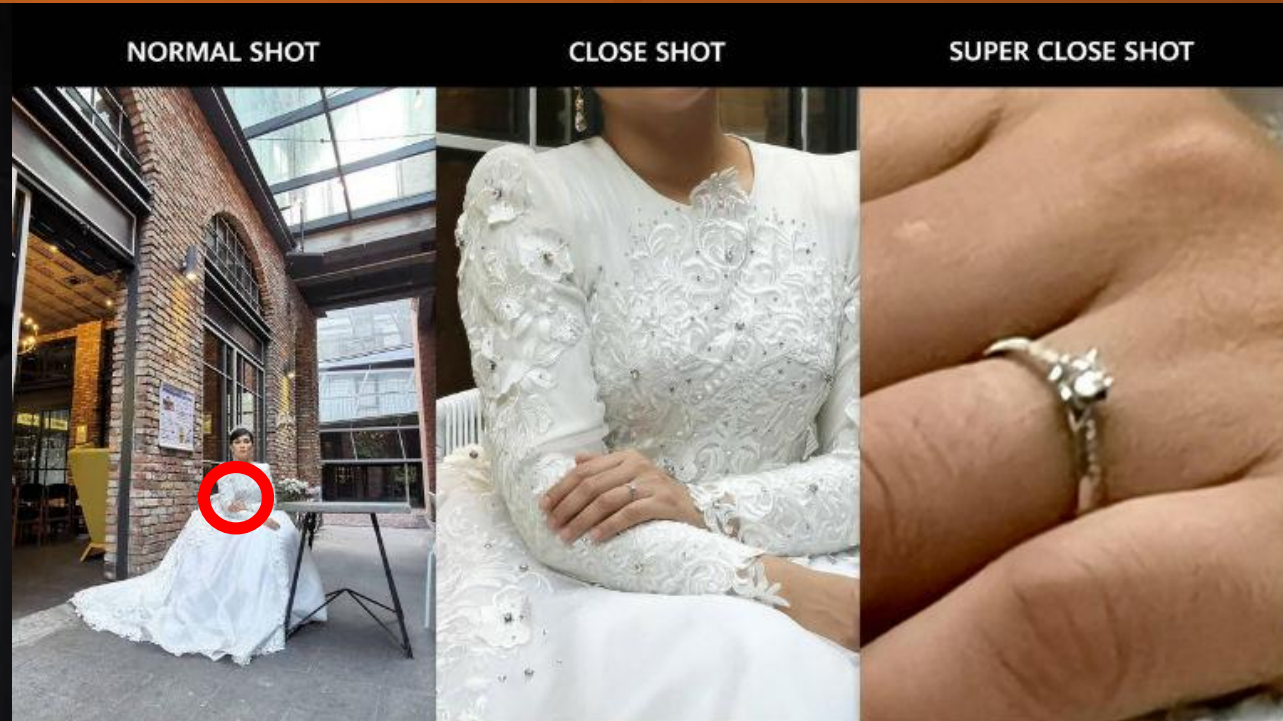
Market Size CAGR _{2019 – 2025}
~ 23.4 %



Source: Intel

Data Centre /
Cloud Computing

Smartphone Innovations Continue to Drive CIS Business



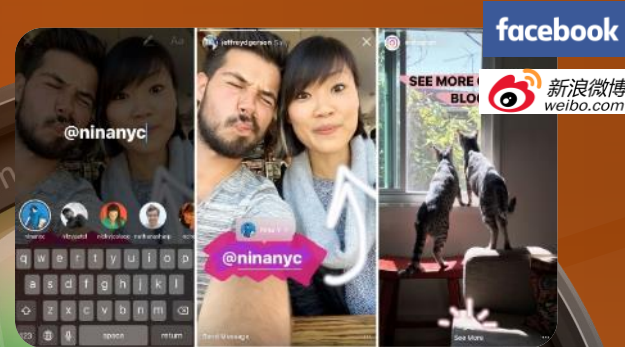
50X Zooming Capability
(5X Optical + 10X Digital Zoom)

The Role of the Camera in the Data Era Redefined

Today...



Videos



Social Media Content



Still Images



Autonomous Vehicles

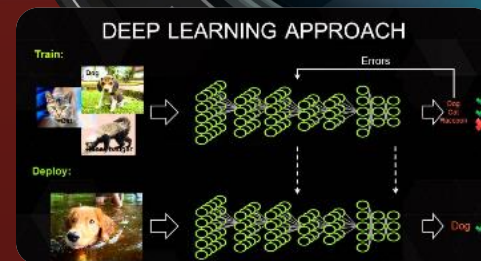


AR/VR



Security: Features Recognition

Future...



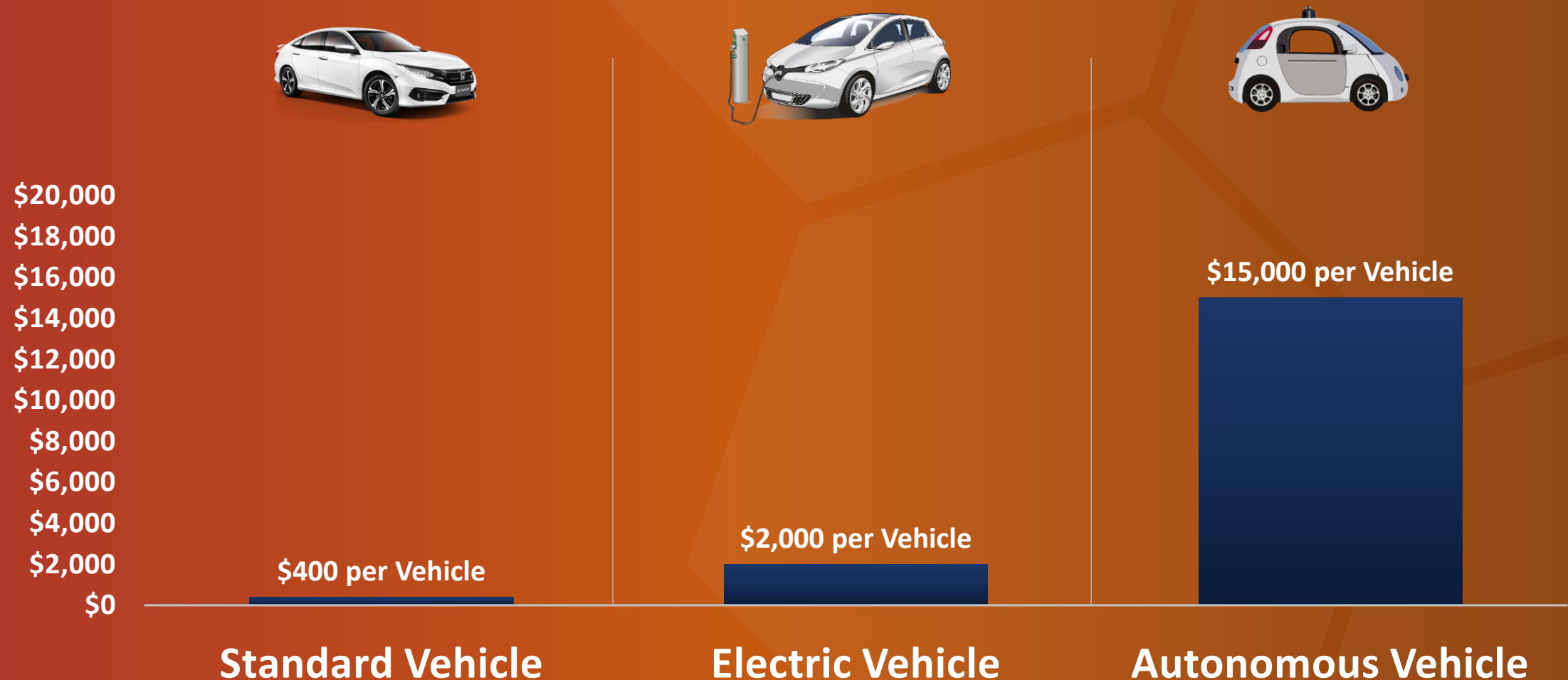
Artificial Intelligence



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

Sensors

The eyes and ears to gather information from the Road

Power

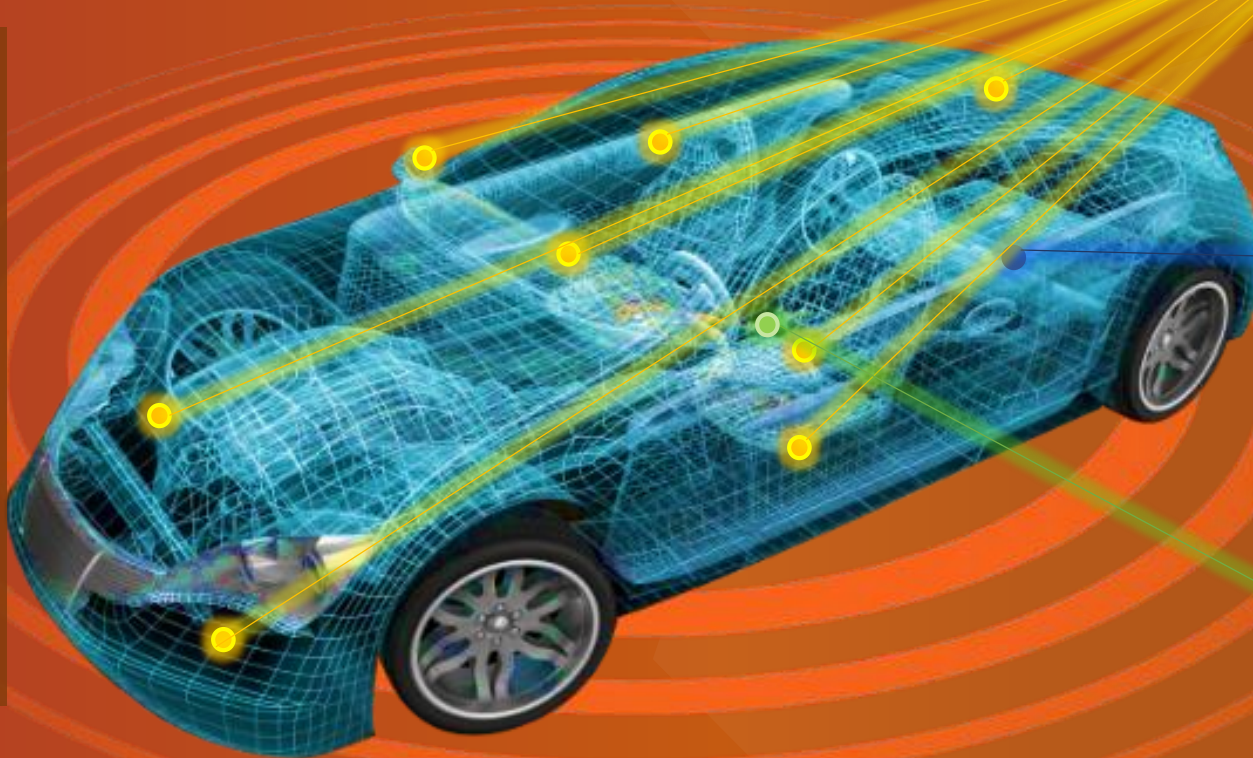
Thermal management (e.g. Ag Sintering) will play important role

5G to Cloud Connectivity

Enable "V2X" communications

Entertainment

Frees up driver's attention on road for entertainment



Power Management

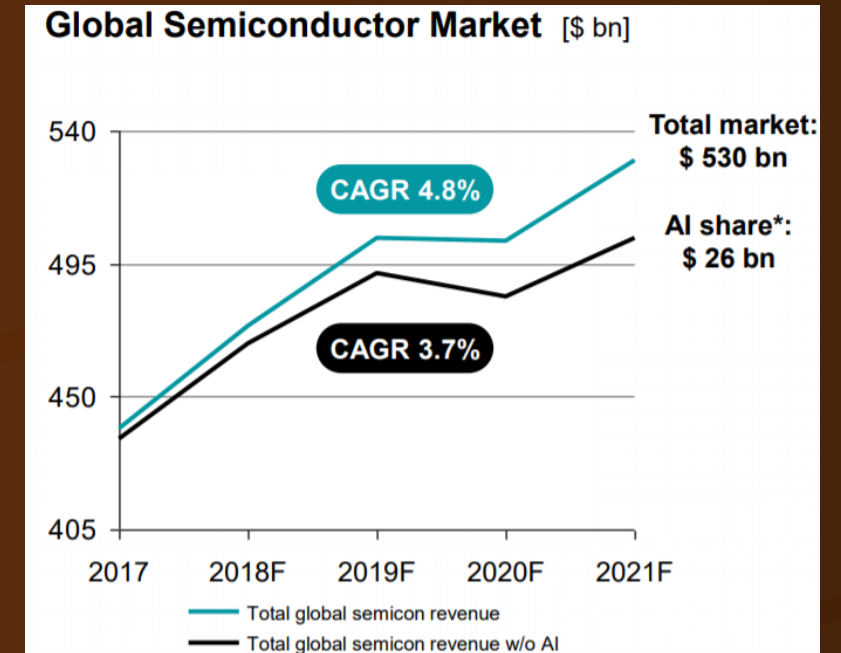
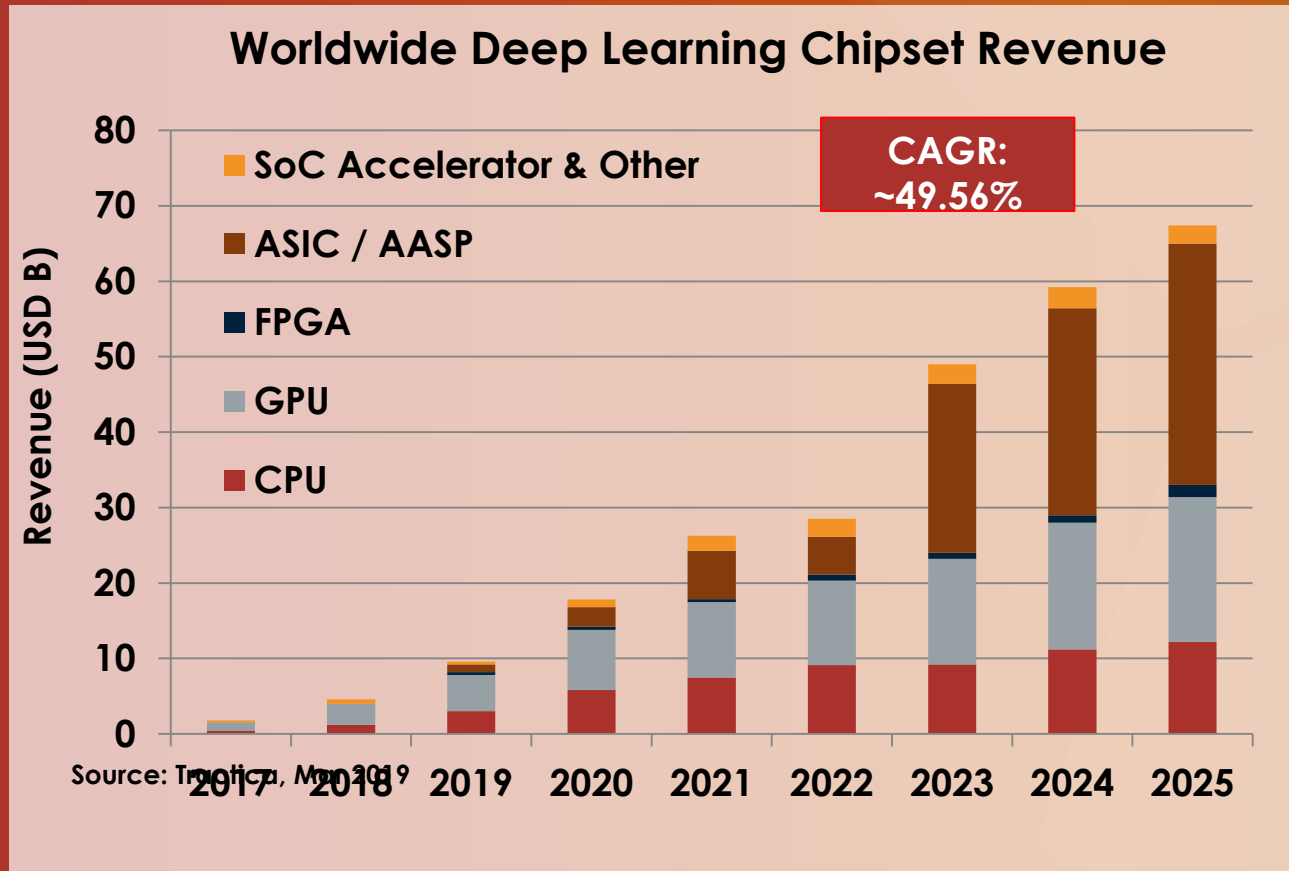
Battery Technology for thermal management



Entertainment Platform

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

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

Source: PwC Strategy & analysis, IC Insights, JP Morgan

WLCSP | WLP | eWLB | FOPLP | 3D TSV | Embedded SiP | Advanced SiP ...

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

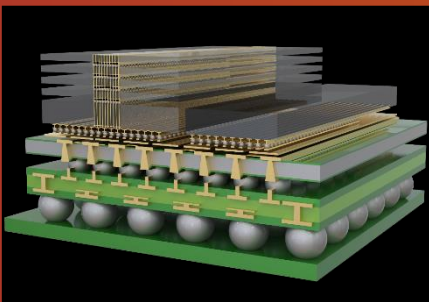
Application Markets



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



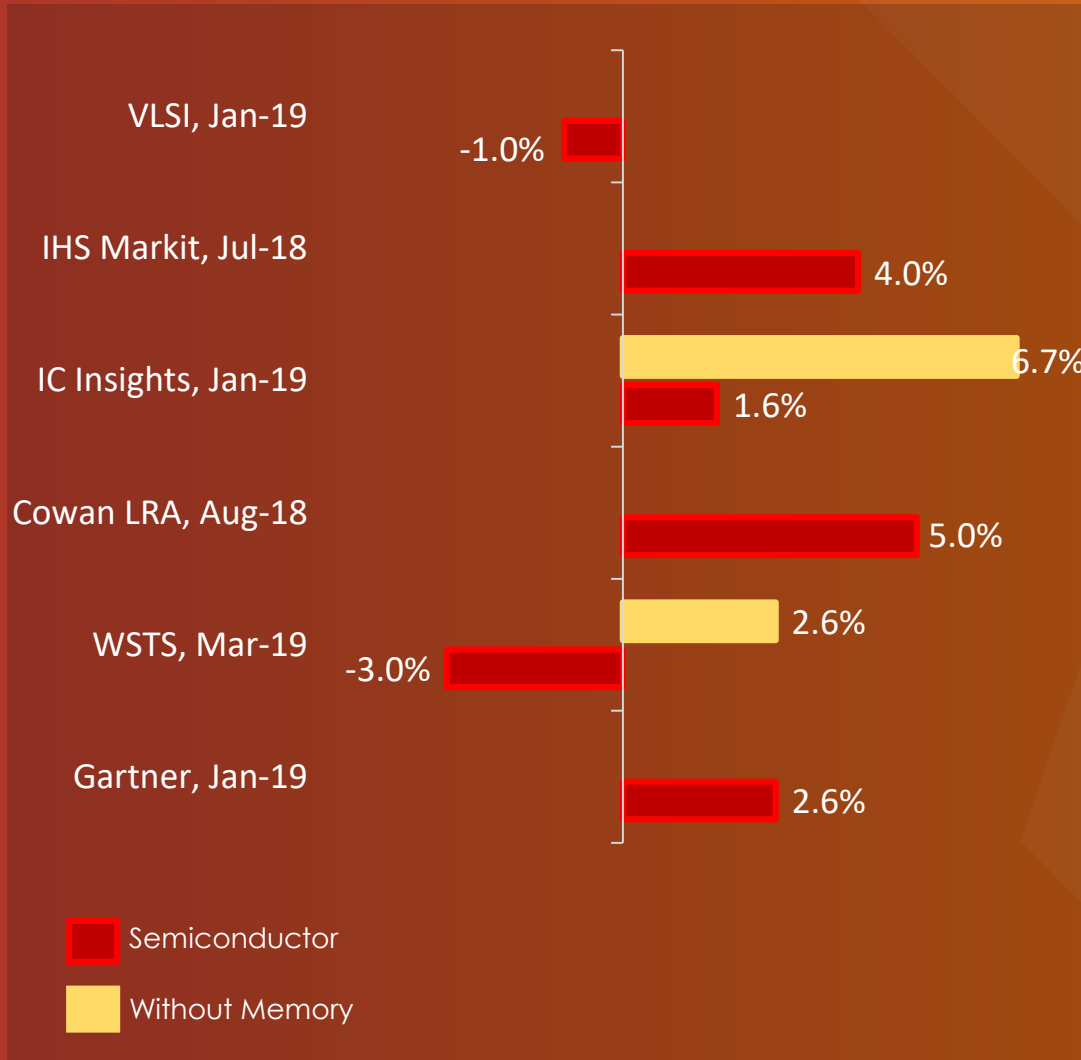
SkyHawk
3D Automated Optical Inspection



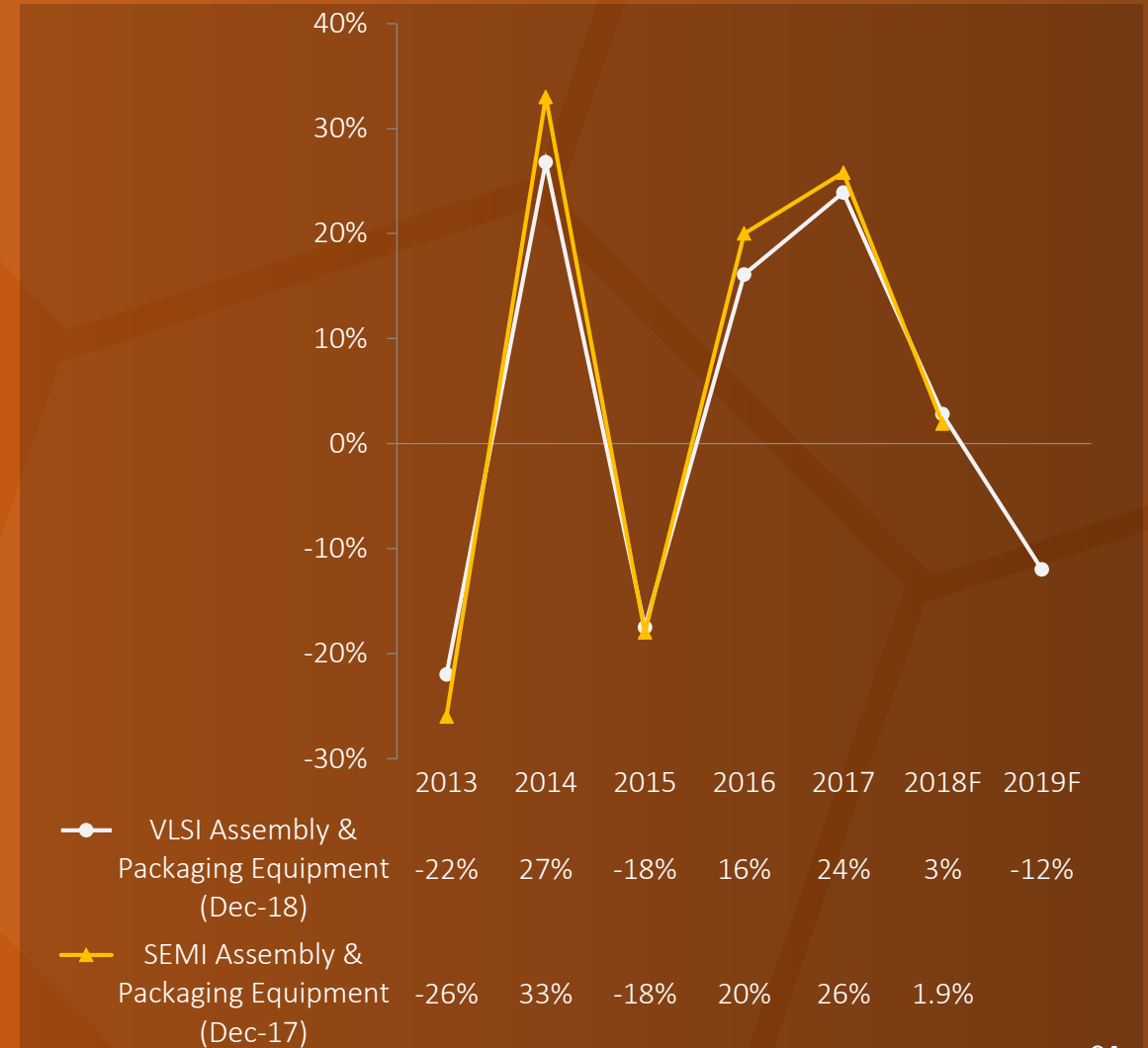
Outlook

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

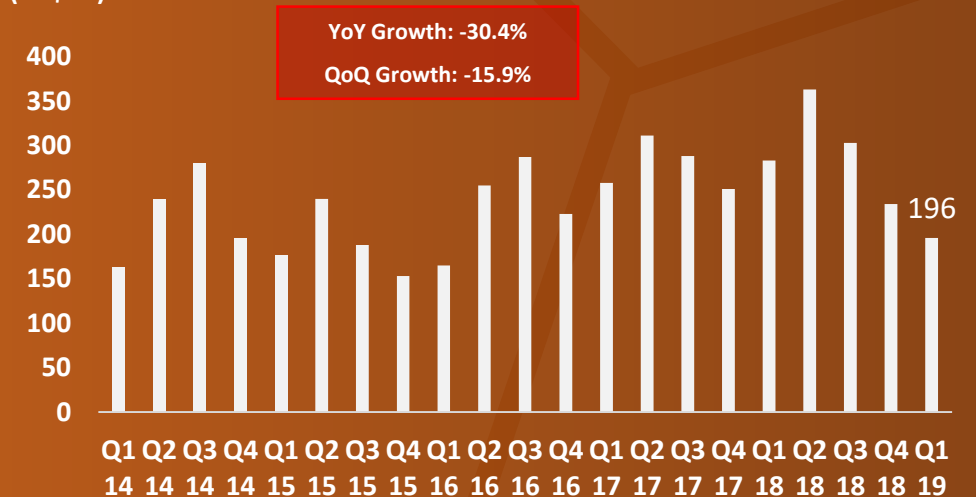
Q1 2019	Back-end Equipment Segment		Materials Segment		SMT Solutions Segment	
	YoY	QoQ	YoY	QoQ	YoY	QoQ
Bookings	-45.2%	-4.2%	-37.4%	+15.2%	-30.1%	-5.1%
Revenue	-30.4%	-15.9%	-32.3%	-15.5%	+11.4%	-30.1%
Gross Margin	-508bps	-383bps	-271bps	+275bps	-269bps	+423bps
Segment Profit	-89.5%	-68.0%	-73.3%	+214.2%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

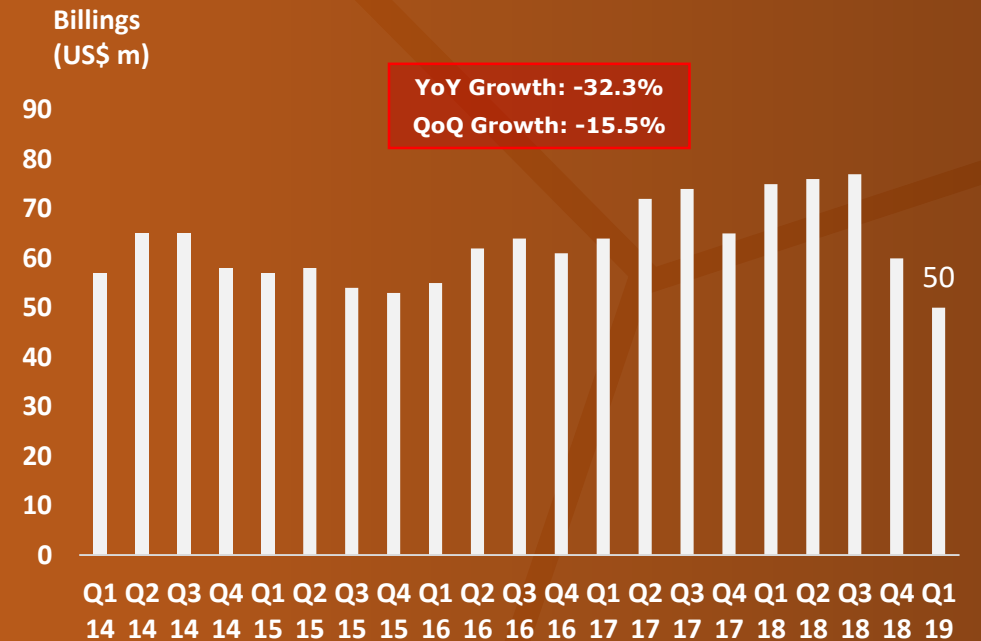
Billings
(US\$ m)



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

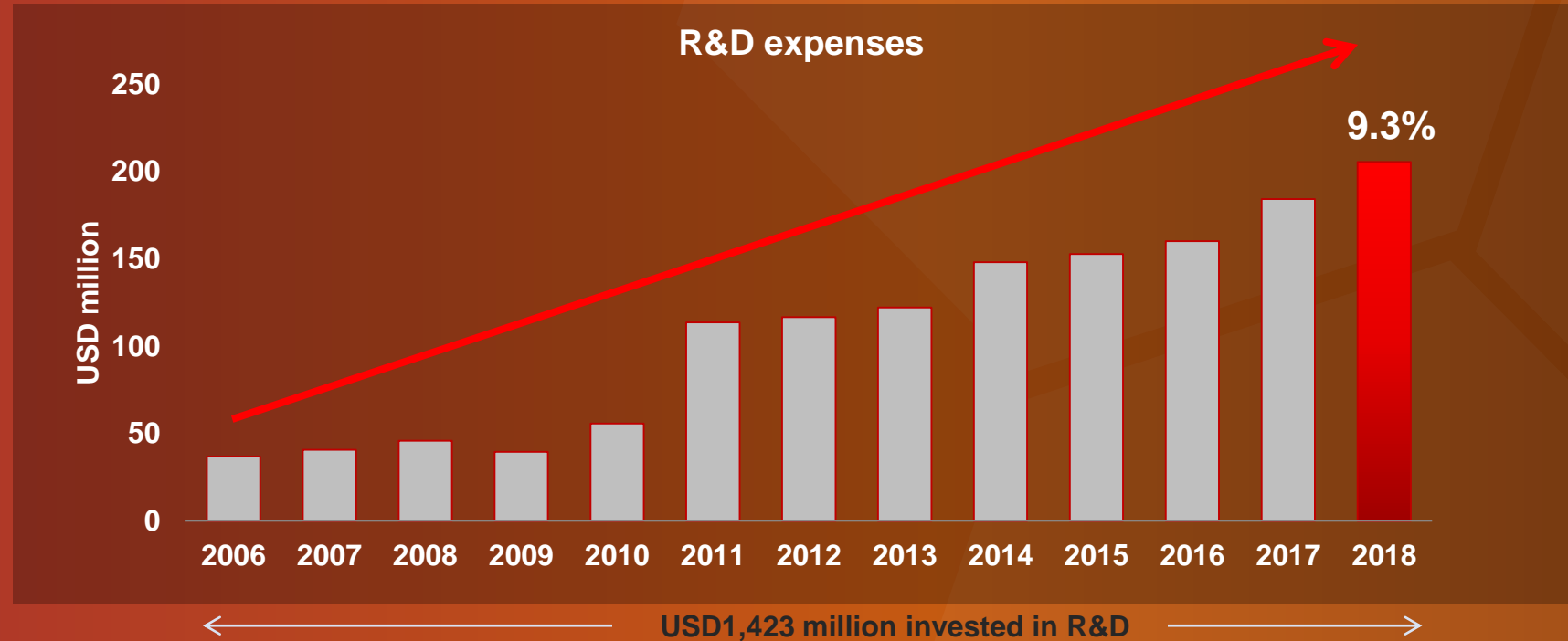
	Q1 2019	YoY	QoQ
Bookings (USD)	192m	-30.1%	-5.1%
Billings (USD)	220m	+11.4%	-30.1%
Gross Margin	34.5%	-269bps	+423bps
Segment Profit (HKD)	213m	+6.4%	-28.5%
Segment Profit Margin	12.4%	-58bps	+27bps

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

Billings
(US\$ m)



R&D Commitment Makes Us a Preferred Partner of Choice

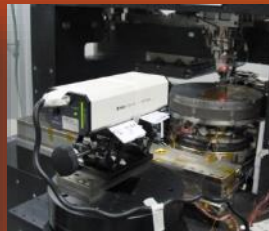


2018 R&D expenditure

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



Package Interconnection



Optics precision engineering



Vibration control



Laser dicing & grooving

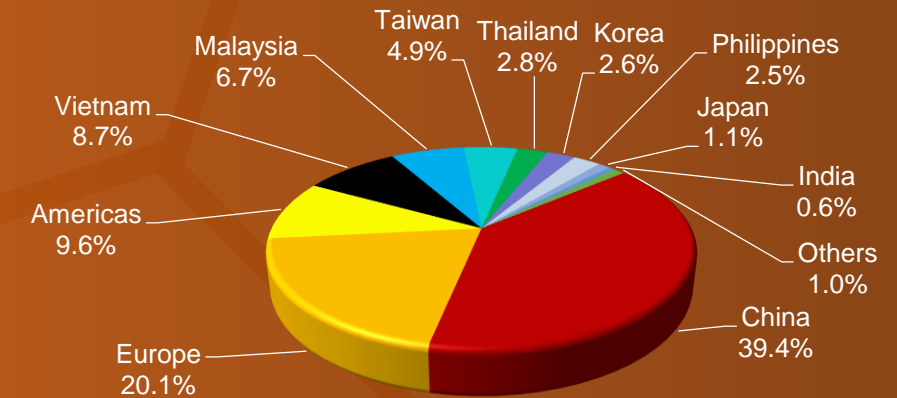


SMT

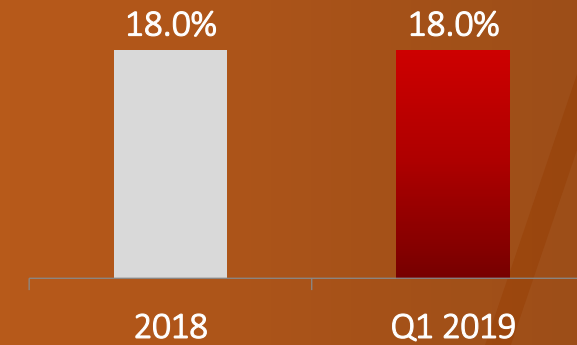
An Extensive Customer Base

- 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



				
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	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	8.76	★★★★★
	6	EVG	8.42	★★★★
	7	ACCURETECH TOKYO SEIMITSU	7.22	★★★

Source: VLSIresearch
cas_10BEST_v18.05

			WHAT THE BEST SUPPLIERS OF 2018 ARE BEST AT	
ACCURETECH	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
JEM 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	<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

