



2018 Q1 Results Announcement

April 20, 2018



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ASMPT Recognized as TOP 100 Global Tech Leaders



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

Thomson Reuters, 2018

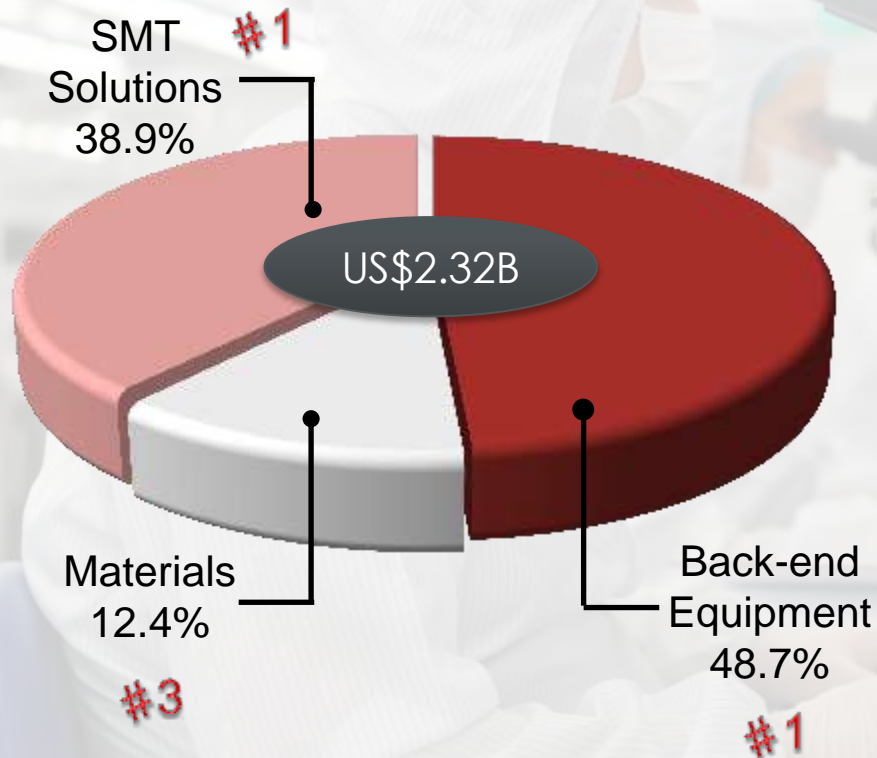
The **ONLY** Back-end Equipment Supplier Being Recognized

CORPORATE OVERVIEW



A World's Technology & Market Leader

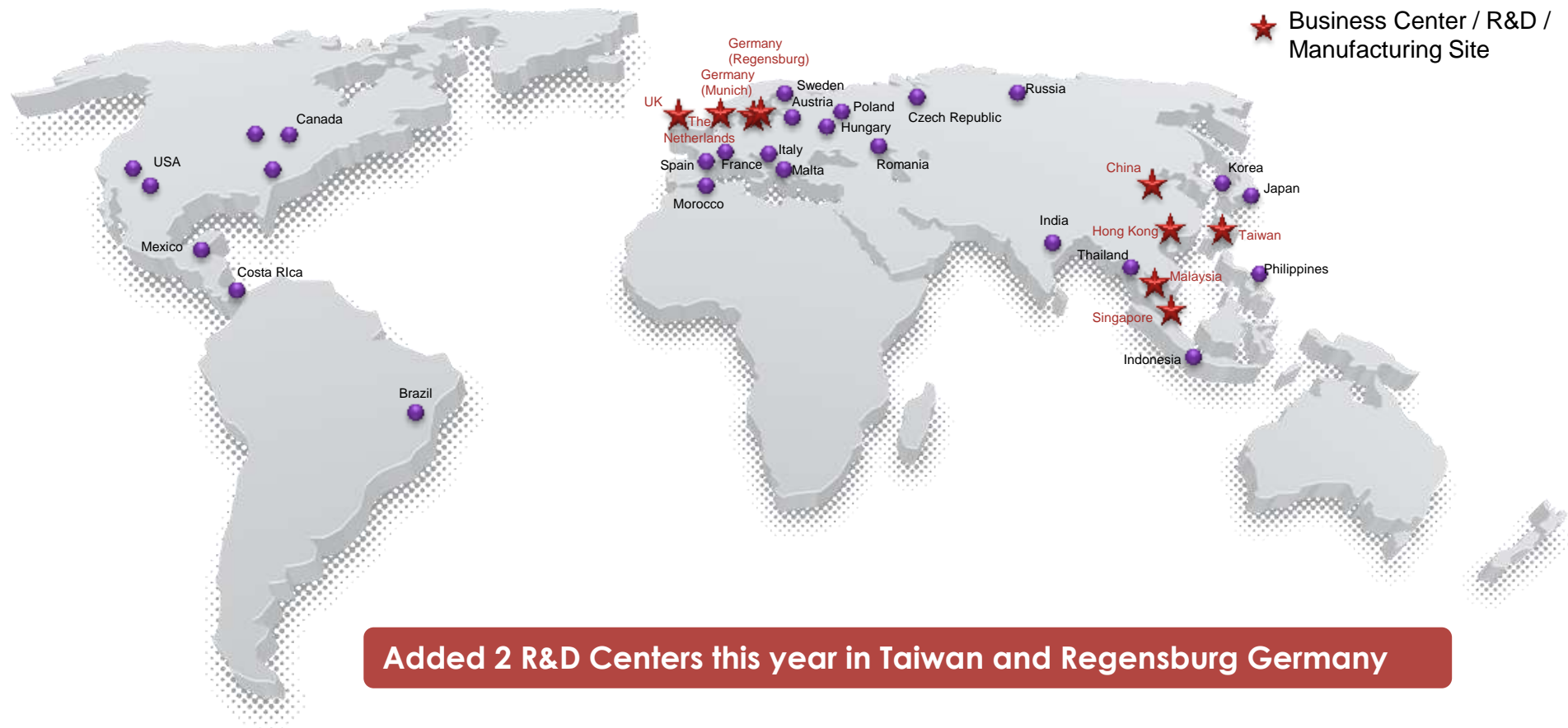
Q1 2018 LTM Group Revenue (CAGR 2008- Q1 2018 LTM 13.1 %)



- A leading Integrated Solutions Provider in the semiconductor assembly and packaging industry as well as in the SMT solutions market
- A leading player for CIS, LED, and Automotive
- 3 high growth markets accounted for 52% of group revenue in 2017



ASMPT Global Presence



Added 2 R&D Centers this year in Taiwan and Regensburg Germany

 <p>> 1,800 global R&D staff</p>	 <p>> 1,100 patents on key leading edge technologies</p>	 <p>8 R&D centers worldwide</p>	 <p>11 manufacturing facilities</p>
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ASMPT Major Facilities around the World



Hong Kong, China

Yishun, Singapore

Munich, Germany

Regensburg, Germany



Longgang, China (龙岗)

Fuyong, China (福永)

Huizhou, China (惠州)

Chengdu, China (成都)



TaoYuan, Taiwan

Weymouth, UK

Beuningen, Netherlands

Johor Bahru, Malaysia

Extension of Malaysia plant ready for operation by 2019

Three Business Segments With Leading Market Positions

Worldwide Market Position & Share

Back-end Equipment

#1 Assembly & Packaging Equipment Market

~25%
(2017)

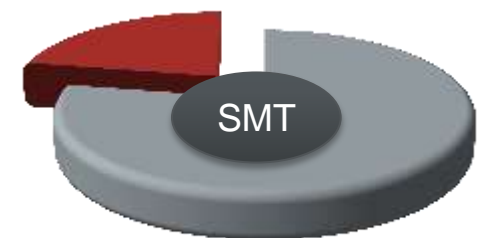


- #1 Die Bonders
- #2 Wire Bonders
- #1/2 Flip Chip Bonders
- #1 Thermal Compression Bonders (TCB)
- #1 LED Packaging Equipment
- #1 CMOS Imaging Sensors (CIS) Equipment
- #2 Encapsulation & Post Encapsulation Solutions
- #4 Turret Test Equipment (Test Handlers)
- #2 Laser Dicing and Grooving

SMT Solutions

#1 SMT Equipment Market

~22%
(2017)



Materials

#3 Leadframe Market

~8.7%
(2017)



Sources:

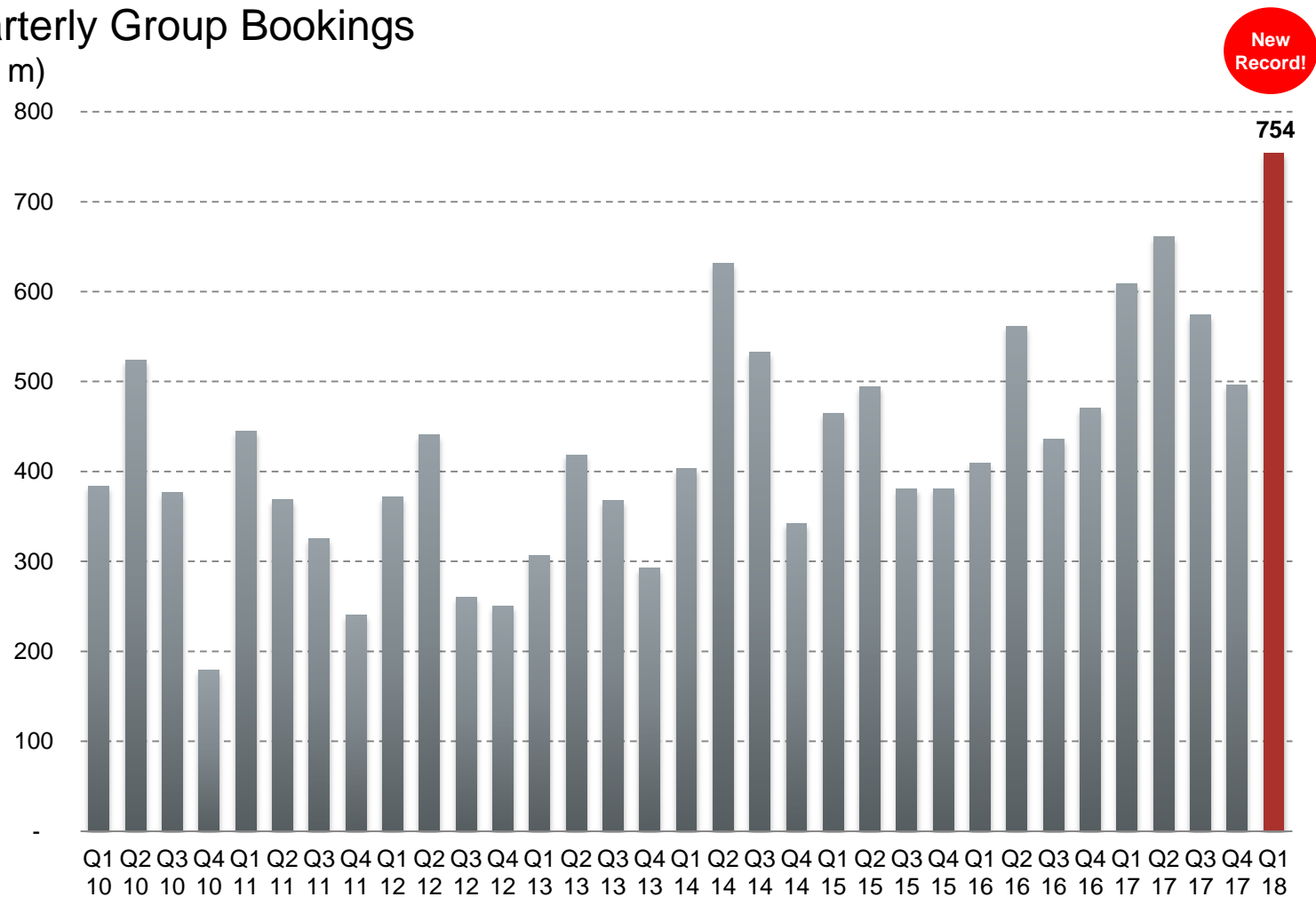
Market share for Back-end Equipment is based on information on packaging and assembly equipment market by VLSI, leadframe market by SEMI, and SMT market by ASMPT SIPLACE Market Intelligence

2018 Q1 Highlights



Group Bookings in Q1 Surged to a New Record High

Quarterly Group Bookings
(US\$ m)



Strong Q1 Bookings Growth

	QoQ	YoY
Back-end Equipment	↑ 82.0%	↑ 25.3%
Materials	↑ 11.4%	↓ 16.7%
SMT Equipment	↑ 32.4%	↑ 40.0%
Group	↑ 51.9%	↑ 24.0%

Backend Equipment Bookings >US\$400m

SMT Equipment Bookings Record High

Major Drivers for Strong Q1 Bookings

Back-end

SMT Solutions

IC /
Discrete



Strong Europe
Market



Industrial

LED



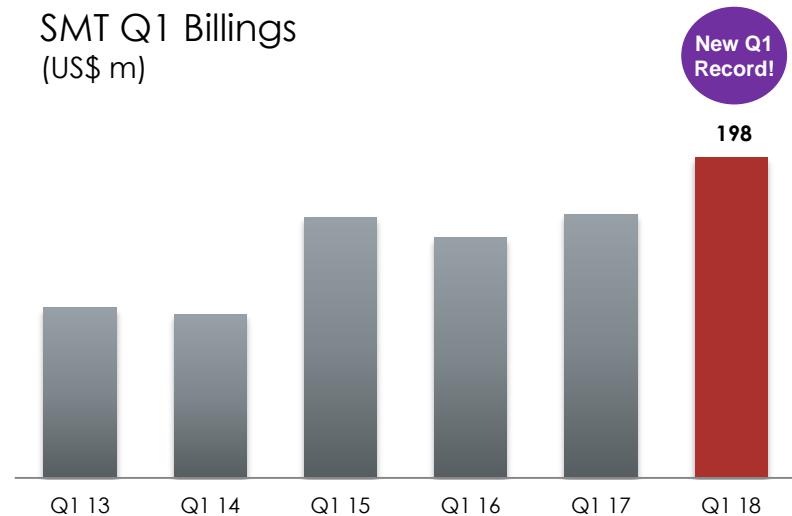
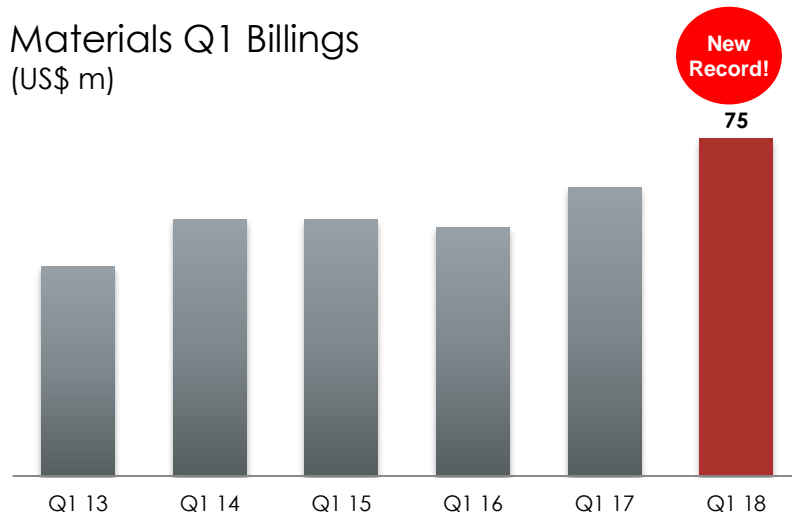
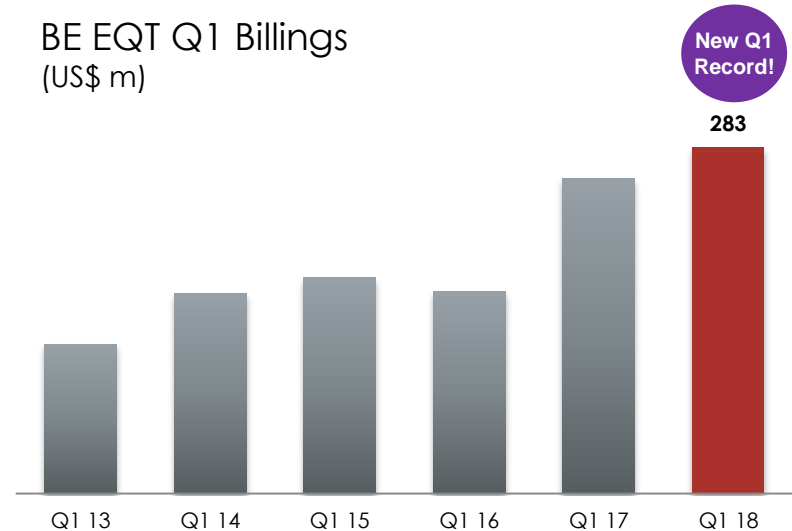
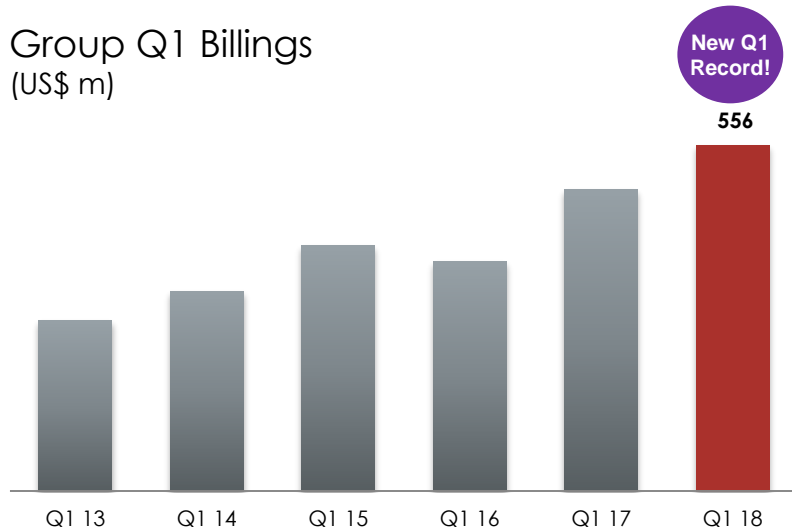
Automotive

CIS



China Smartphones

Achieved New Q1 Records for Group/Segment Billings



Q1 2018 Financial Highlights

Group	Q1 2018	
	YoY	QoQ
Bookings	↑ 24.0%	↑ 51.9%
Billings	↑ 15.5%	↑ 2.8%
Gross Margin	↓ 234bps	↓ 167bps
Net Profit	↑ 16.8%*	↑ 35.9%
Net Profit Margin	↑ 15bps*	↑ 345bps

*Excludes adj. of liability component of CB

Q1 2018 Segments Highlights

Q1 2018	Back-end Equipment Segment		Materials Segment		SMT Solutions Segment	
	YoY	QoQ	YoY	QoQ	YoY	QoQ
Bookings	↑ 25.3%	↑ 82.0%	↓ 16.7%	↑ 11.4%	↑ 40.0%	↑ 32.4%
Billings	↑ 10.5%	↑ 12.9%	↑ 17.7%	↑ 15.1%	↑ 22.6%	↓ 11.9%
Gross Margin	↓ 228bps	↓ 459bps	↓ 116bps	↑ 85bps	↓ 224bps	↑ 89bps
Segment Profit	↑ 1.7%	↑ 18.8%	↓ 1.9%	↑ 419.3%	↑ 17.7%	↑ 11.3%
Segment Profit Margin	↓ 198bps	↑ 113bps	↓ 134bps	↑ 522bps	↓ 54bps	↑ 271bps

RIDING ON THE BIG WAVE



Key Strategies for Sustainable Growth & Profitability



- ❑ Wire bonding
- ❑ Die bonding
- ❑ Lead Frames
- ❑ SMT



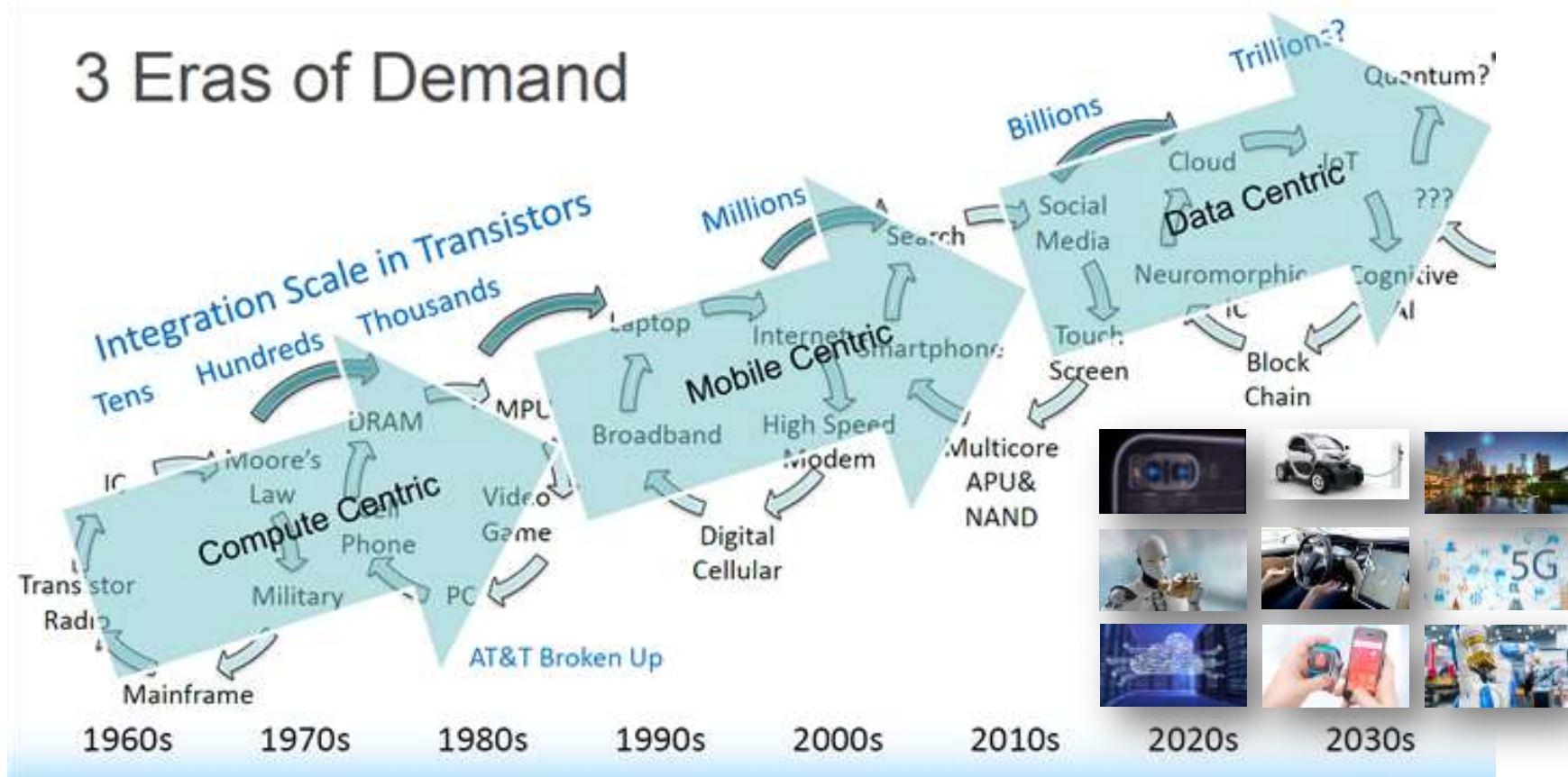
- ❑ CMOS Image Sensor
- ❑ Automotive
- ❑ Power Management
- ❑ Advanced Packaging
- ❑ Data Communication
- ❑ Micro / Mini LED



- ❑ SMT Placement
- ❑ SMT Printing
- ❑ LASER Grooving / Dicing
- ❑ MIS
- ❑ AMICRA
- ❑ NEXX

**Continue to Fine-Tune
Organization Structure & Business Strategies**

Dawn of the Data Centric Era



Source: VLSI Research, ISS US, January 2018

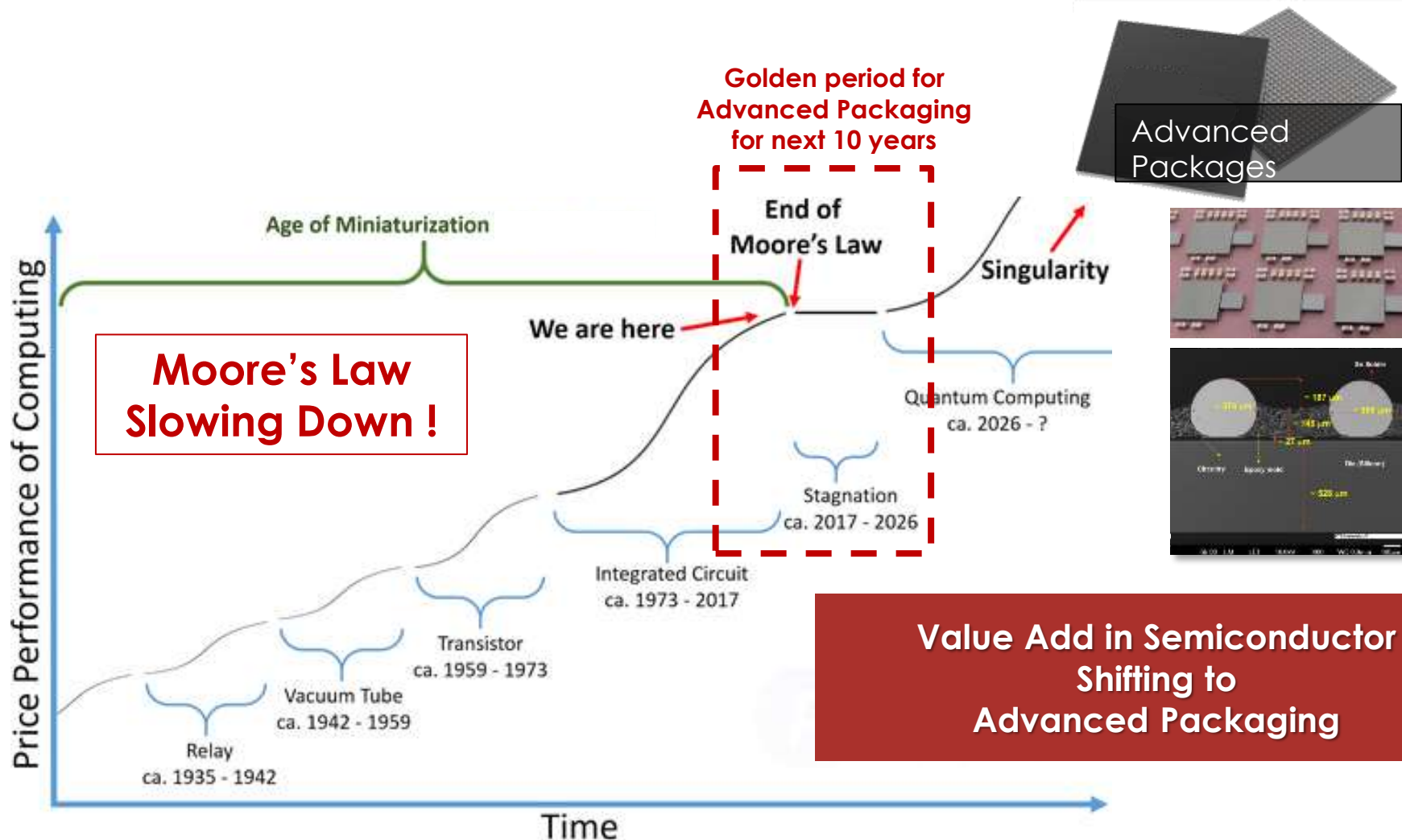
Huge amounts of Data will Spur Semiconductor Demand



5G will be the Data Highway



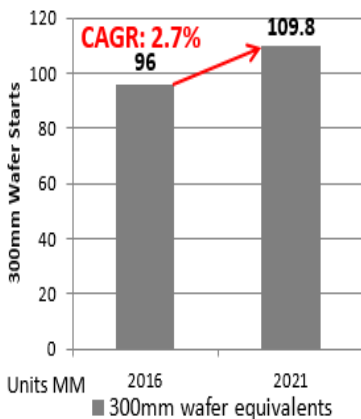
Advanced Packaging is a High Growth Area



Covering All Interconnection Technologies

Wire Bond

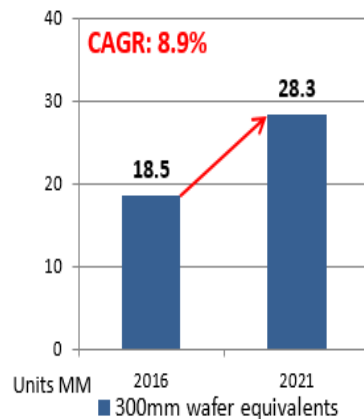
2016-2021



- Wire Bonding
- Die Bonding

Flip Chip

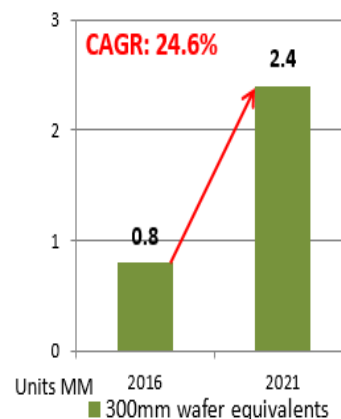
2016-2021



- Flip Chip/
NOVA Plus/
AFC Plus²
- TCB
- PVD¹
- ECD¹

Fan Out

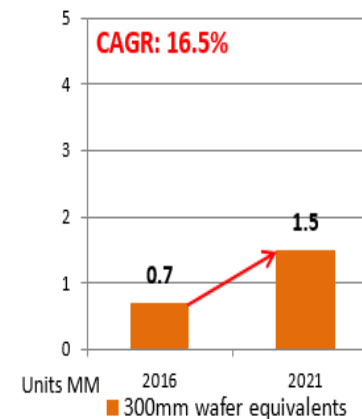
2016-2021



- NUCLEUS/ NOVA
Plus Fan Out²
- ORCAS
- SUNBIRD
- Laser
- CA
- PVD¹
- ECD¹

3D TSV

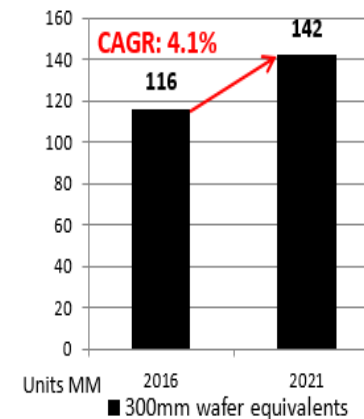
2016-2021



- TCB
- Laser
- PVD¹
- ECD¹

Total Semi. Wafers

2016-2021



Source: Prismark Wafer Starts, 2017

¹ NEXX Product

² AMICRA Product

An Unparalleled Product Portfolio for Advanced Packaging



FIREBIRD
(TCB)



SIPLACE CA
(SiP Pick & Place)



NUCLEUS
(FO WLP & PLP – Pick & Place)



ORCAS
(Fan-out Molding)



LASER 1205
(Singulation)



SUNBIRD
(WLP Test & Pack)

Investing Ahead of the Curve



AMICRA NOVA Plus / Fan Out



AMICRA AFC Plus



NEXX Conductor
FO/FI (PVD)

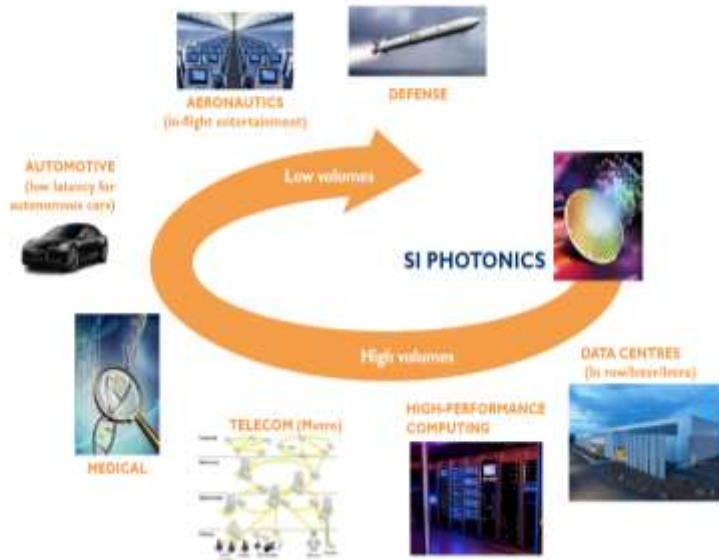


NEXX Stratus™
P500 (ECD)



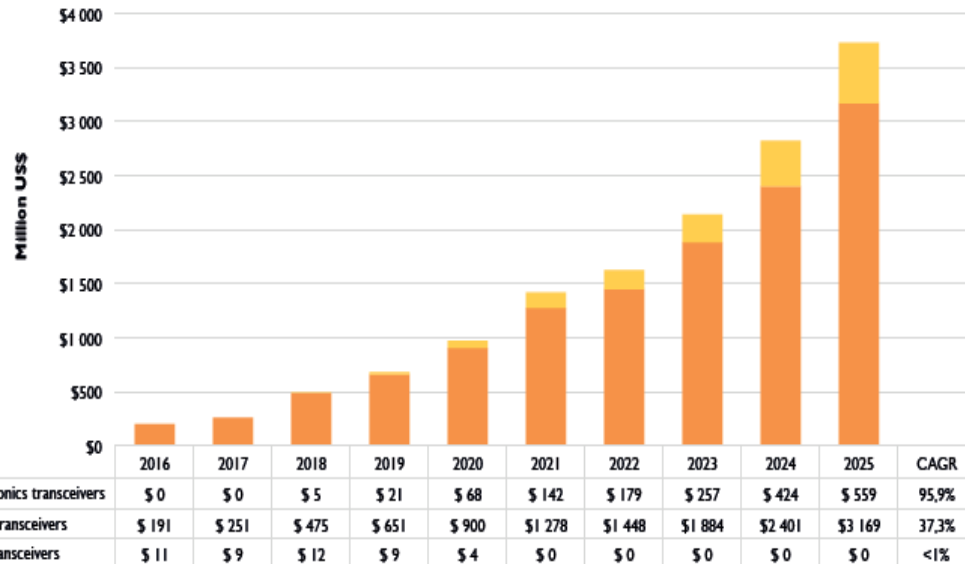
Si Photonics is Another High Growth Area

Silicon Photonics - Applications



Si Photonics Market to reach US\$1B in 2020/US\$3.5B+ in 2025

Silicon photonics transceivers market forecast

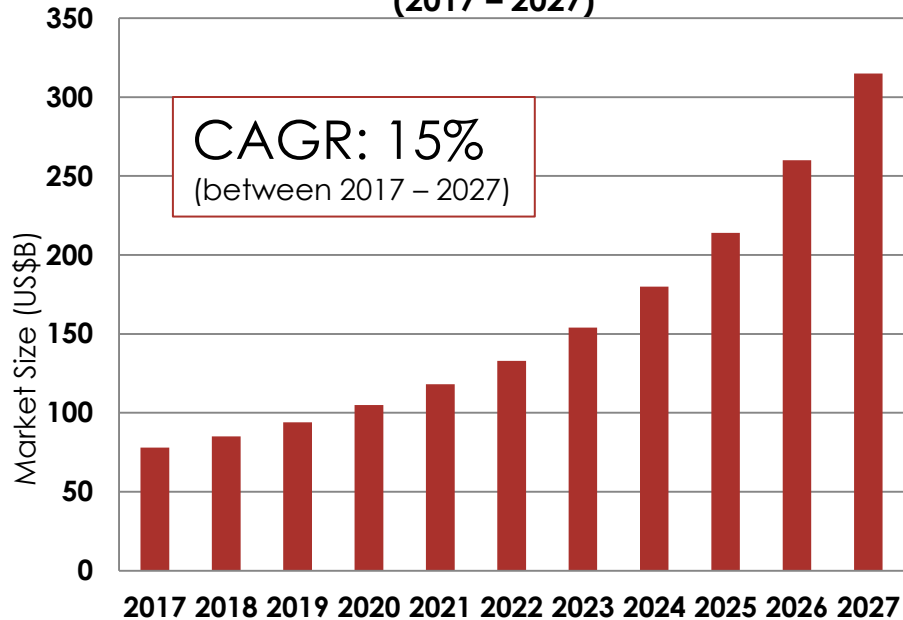


Major Market Attraction currently are the fast growing Data Centers and High Performance Computing

(Yole Développement, January 2018)

Si Photonics is the Answer to Hyper Scale Data Centers

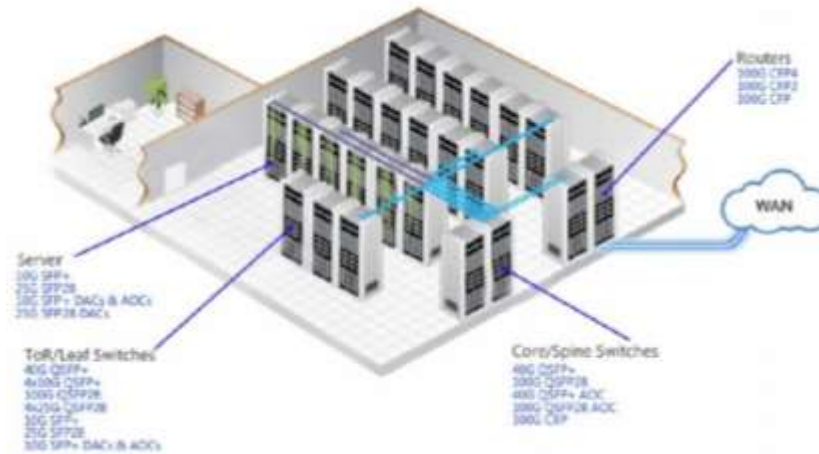
Global Cloud Computing Market Forecast
(2017 – 2027)



Source: Market Research Future, Mar 2018

“Almost three-quarters of all data center traffic will originate from within the data center.”

Source: Yole Developpement



Photonics is the enabling technology for 100G / 400G data communication within data centers.



Data Center of Google in Eemshaven, Netherlands

New Target Market for ASMPT -- Memory

- ❑ Wire Bonding System (NAND)
- ❑ LASER Grooving & Dicing (thin wafer)
- ❑ TCB (high bandwidth memory)
- ❑ WLFO / PLFO

Triple Win Strategy

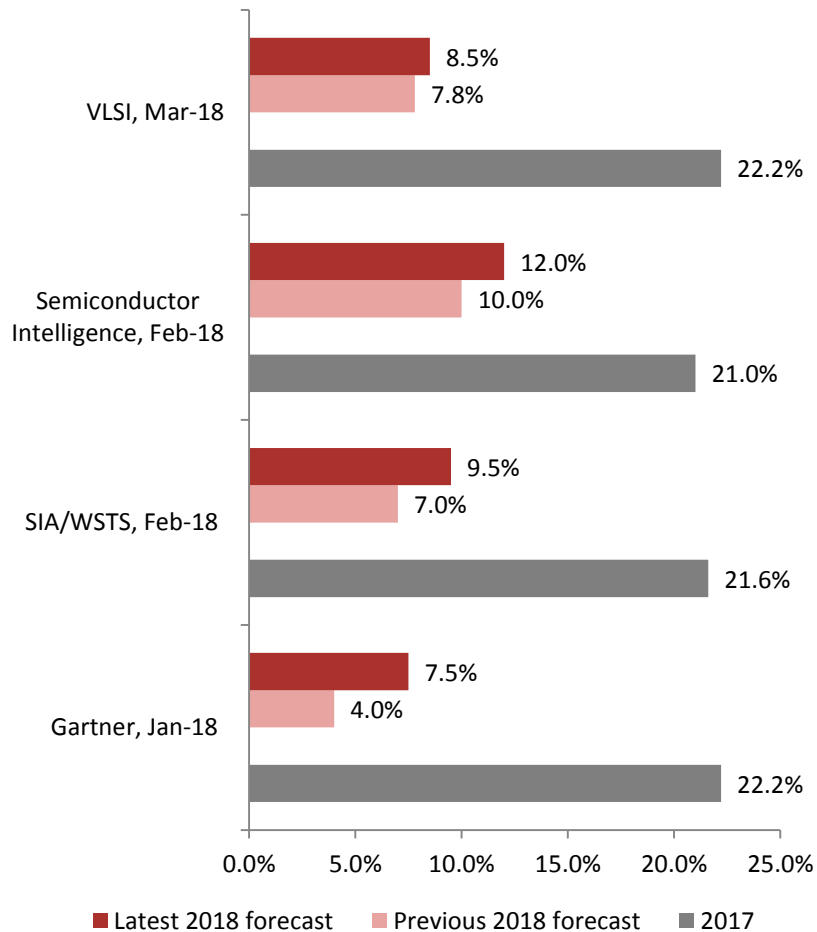


OUTLOOK

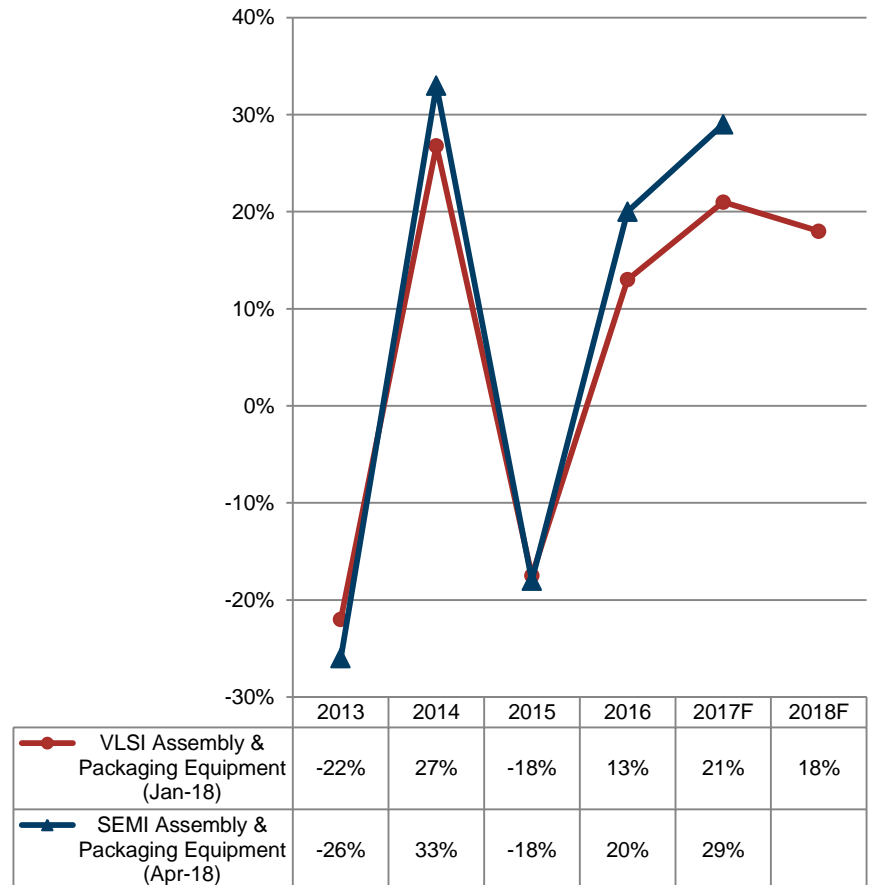


Industry Growth Forecast (2017-2018)

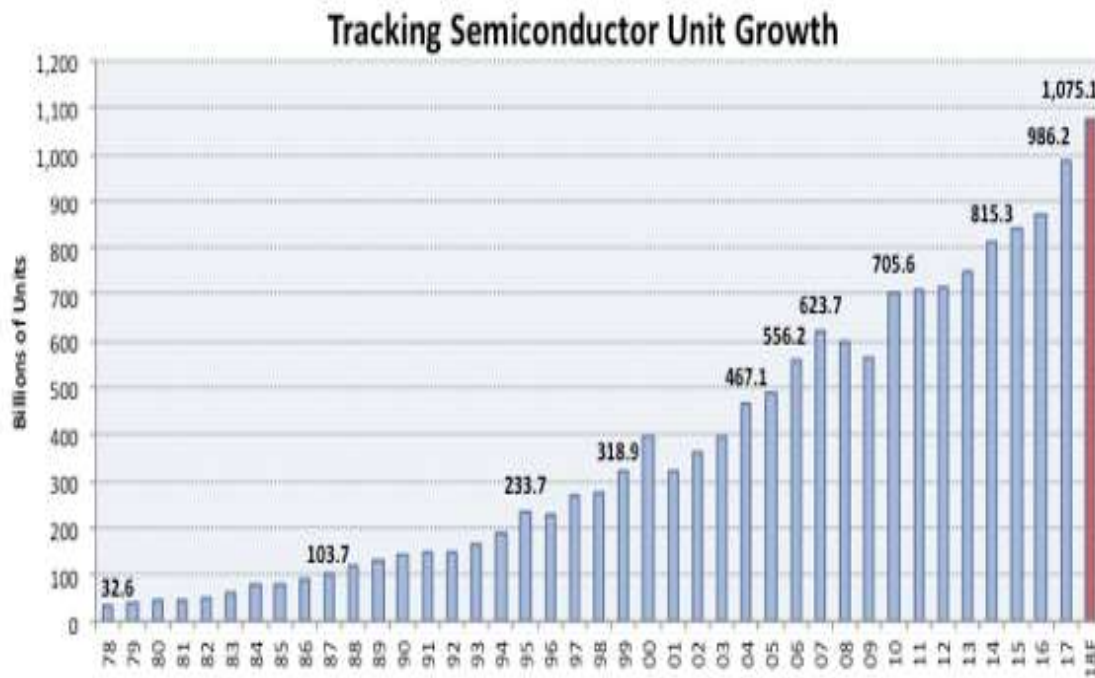
Semiconductor Industry



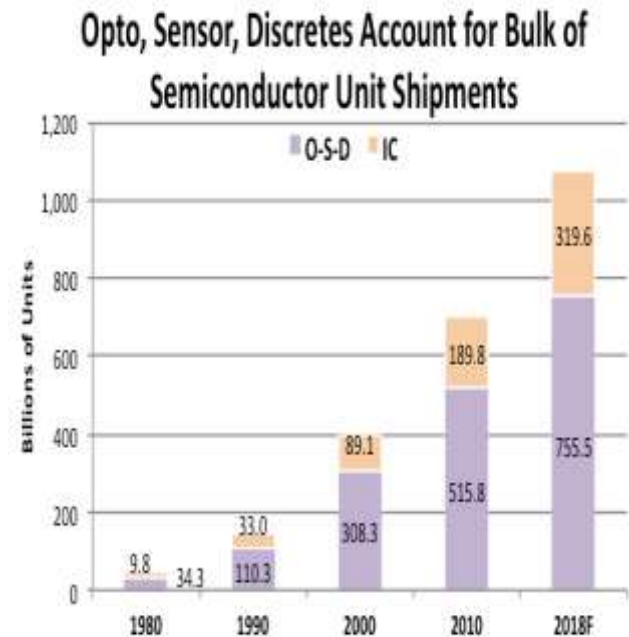
Forecast Global Assembly & Packaging Equipment Market



Semiconductor Shipments Forecast to Exceed 1 Trillion Devices in 2018



Source: IC Insights, January 2018



Outlook

- Expect Q2 Group Billings to be in the range of US\$650m to US\$710m
 - Supported by the strong backlog
- Anticipate Q2 Bookings to achieve a single digit percent YoY growth
 - Following very strong bookings in Q1
- Expect Q2 Group GM to improve over Q1, supported by the expected high turnover
- Strong Q1 booking momentum reaffirmed our belief that the semiconductor industry has entered into a different phase and driven by multiple growth drivers such as
 - IoT, industry automation, robotics, smart factory, power management, automotive, smart city, cloud computing, data center, AI, big data analysis, and smartphone
- Together with 5G mobile network, these diversified applications will spur up demand for semiconductors devices and our products

ASMPT Sustainable Competitive Advantages

- Multiple product growth drivers (and a strong leader in a few of these drivers including CIS/AA, LED, Automotive, TCB)
- Diversified product portfolio addressing multiple applications markets
- Unique and comprehensive product portfolio in Advanced Packaging
- Broad and diverse customer base
- Breadth and depth of enabling technologies
- Investing ahead of the curve and bearing fruits
- Strong and extensive marketing/support network
- Size, scale and strong balance sheet & financial resources
- Steadfast execution of strategies
- Keep reinventing itself

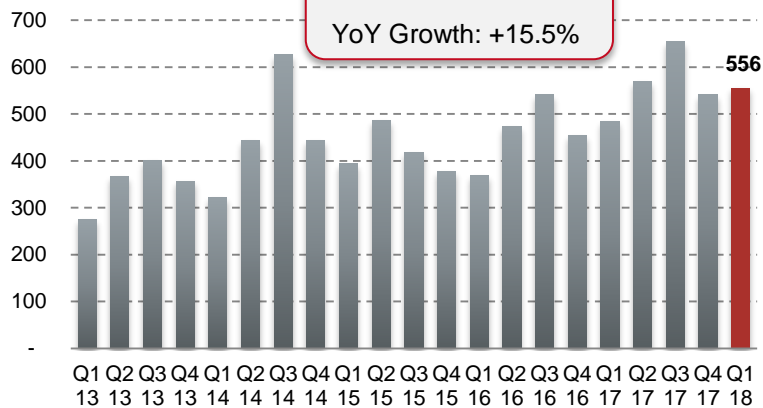


2018 Q1 FINANCIAL RESULTS

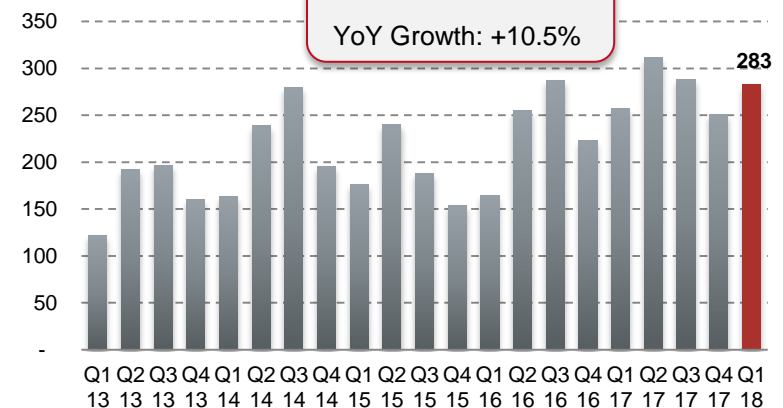


Q1 2018 Quarterly Billings

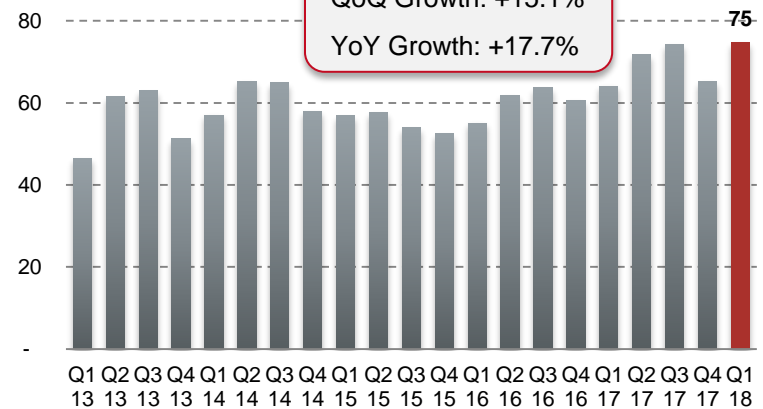
Group Billings
(US\$ m)



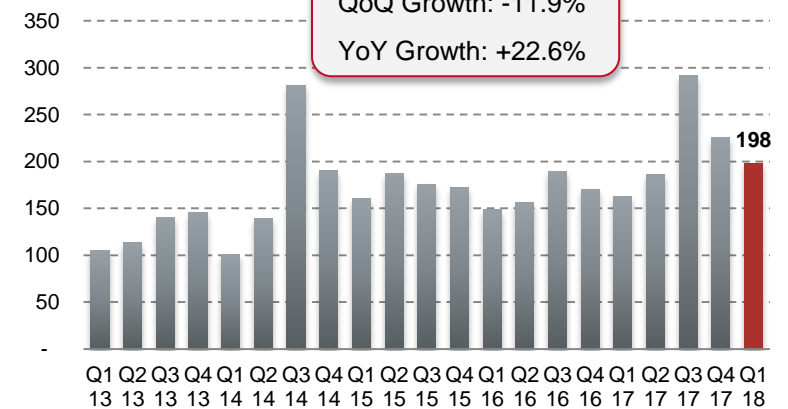
BE EQT Billings
(US\$ m)



Materials Billings
(US\$ m)

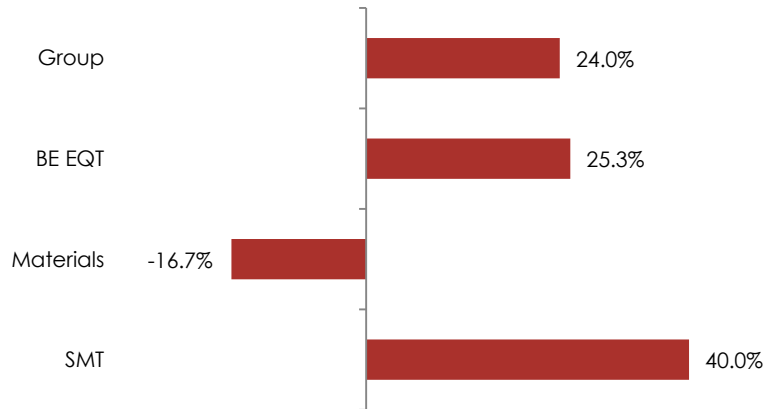


SMT Billings
(US\$ m)

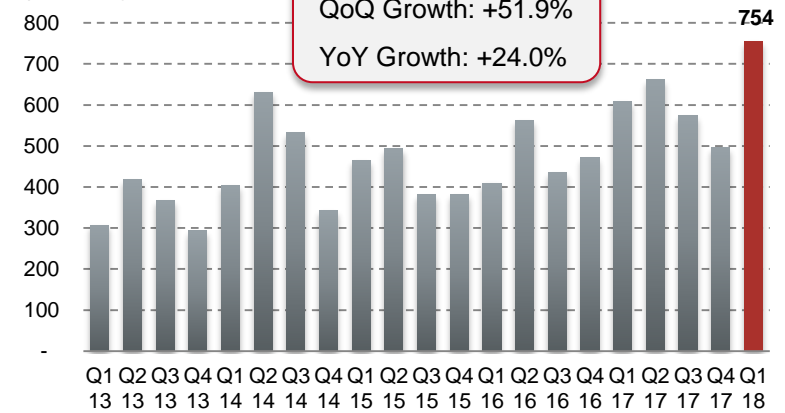


Q1 2018 Booking, Backlog and Segment Profits

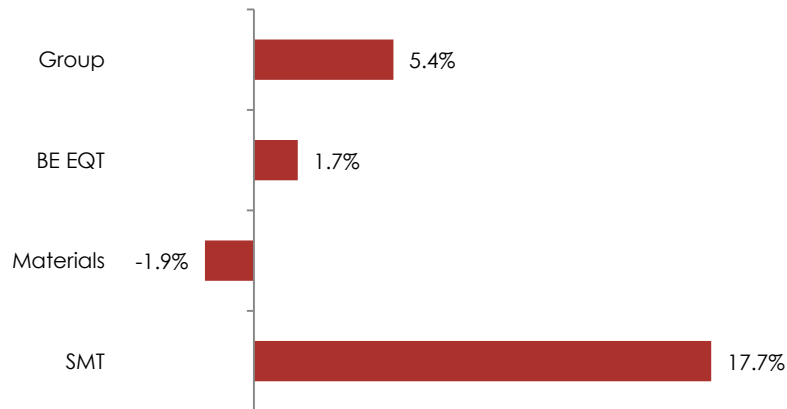
Q1 2018 Booking
(YoY % Growth)



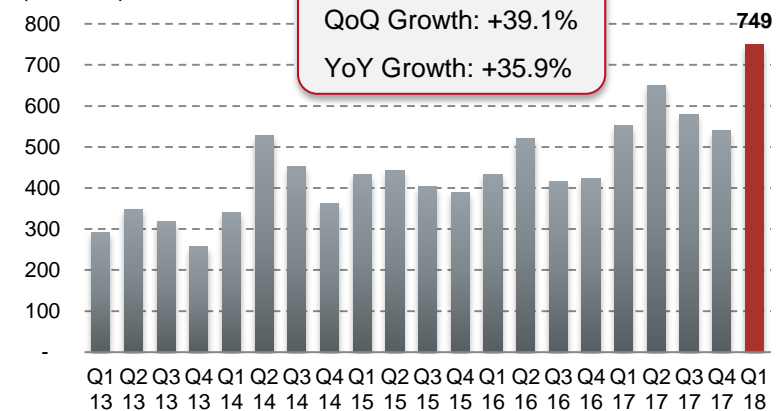
Quarterly Group Bookings
(US\$ m)



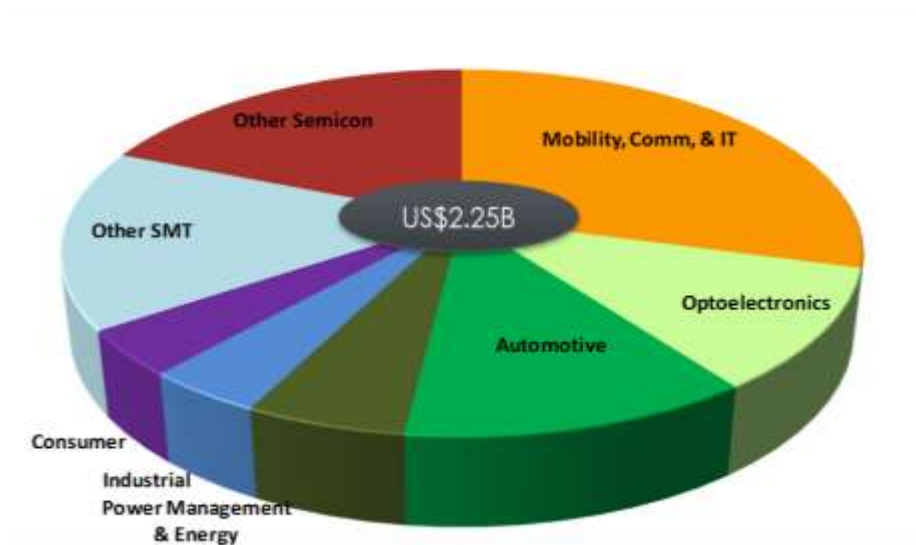
Q1 2018 Segment Profits
(YoY % Growth)



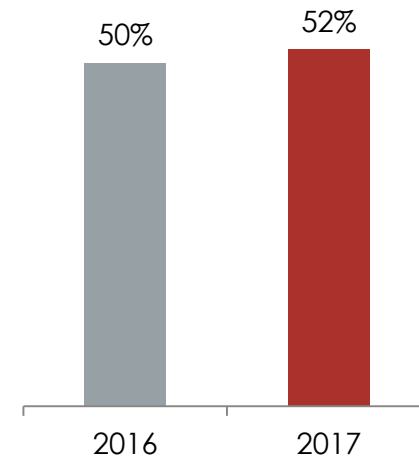
Quarterly Group Backlog
(US\$ m)



ASMPT Revenue Breakdown by Application Markets (2017)



Mobility, Comm & IT, Optoelectronics and Automotive % of Group Revenue



Multiple Application Markets is a key strategy

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
Hong Kong Institute of Directors



- Hong Kong Outstanding Enterprises 2017
HK Economic Digest



- 2017 All Stars of the Semiconductor Industry
VLSI Research

VLSIresearch's 2017 All Stars

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



- Ranked among Top 5 of the 10 BEST Chip Making Equipment Suppliers
- Ranked among Top 3 of Assembly Equipment
- Ranked among Top 4 of Test Equipment



- 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 2017

		
10 BEST Segment	10 BEST CHIP MAKING EQUIPMENT SUPPLIERS OF 2017	VLSI STARS
L A R G E	 	★★★★★
	 	★★★★★
		★★★★★
	  	★★★★★
		★★★
F O C U S E D		★★★★★
	 TOKYO SEIMITSU     	★★★★★

	
RATINGS FOR THE BEST SUPPLIERS OF 2017	
TEST EQUIPMENT	VLSI STARS
Advantest Teradyne	★★★★★
   	★★★★★
ASSEMBLY EQUIPMENT	VLSI STARS
	★★★★★

		
WHAT THE BEST SUPPLIERS OF 2017 ARE BEST AT		
 TOKYO SEIMITSU <ul style="list-style-type: none"> Uptime Product Performance 	 <ul style="list-style-type: none"> Trust in Supplier Technical Leadership 	
 <ul style="list-style-type: none"> Technical Leadership Trust in Supplier 	 <ul style="list-style-type: none"> Technical Leadership Partnering 	
 <ul style="list-style-type: none"> Field Engineering Support Overall Value 	 <ul style="list-style-type: none"> Field Engineering Support Spares Support 	
 <ul style="list-style-type: none"> Technical Leadership Trust in Supplier 	 <ul style="list-style-type: none"> Partnering Technical Leadership 	
 <ul style="list-style-type: none"> Trust in Supplier Partnering 	 <ul style="list-style-type: none"> Process Support Field Engineering Support 	
 JAPAN ELECTRONIC MATERIALS <ul style="list-style-type: none"> Trust in Supplier Recommend Supplier 	 <ul style="list-style-type: none"> Trust in Supplier Partnering 	
 <ul style="list-style-type: none"> Trust in Supplier Commitment 	 <ul style="list-style-type: none"> Trust in Supplier Uptime 	
 <ul style="list-style-type: none"> Support After Sales Recommend Supplier 	 <ul style="list-style-type: none"> Technical Leadership Trust in Supplier 	
 <ul style="list-style-type: none"> Recommend Supplier Trust in Supplier 	 <ul style="list-style-type: none"> Uptime Usable Performance 	
 <ul style="list-style-type: none"> Product Performance Recommend Supplier 	 <ul style="list-style-type: none"> Commitment Support After Sales 	

ENABLING THE DIGITAL WORLD

