

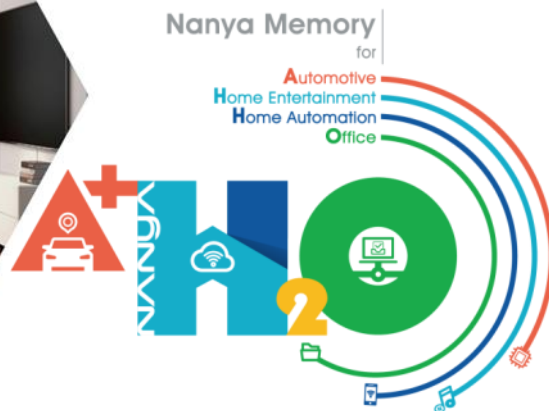


Nanya Technology

Cathay Securities 1Q2017 Investor Summit

Presentation to Investors & Analysts, March 16th, 2017

Joseph Wu, AVP & Deputy Spokesman



Safe Harbor

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Outline

01.	DRAM Industry Environment
02.	NTC Overview
03.	Business Strategy

Oligopoly in DRAM Market

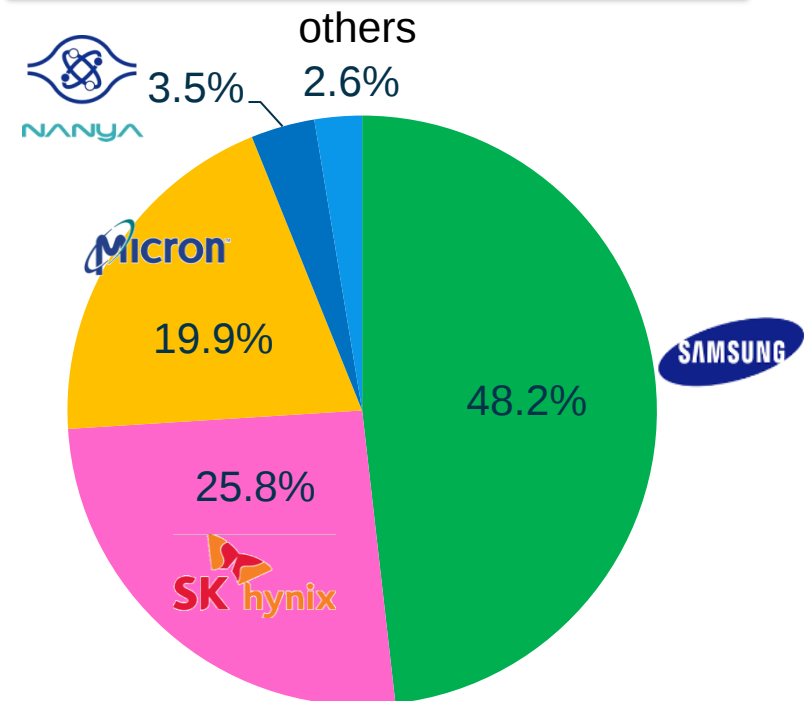
- From 2013, DRAM market fluctuation stabilized

1990 (more than 16 suppliers)



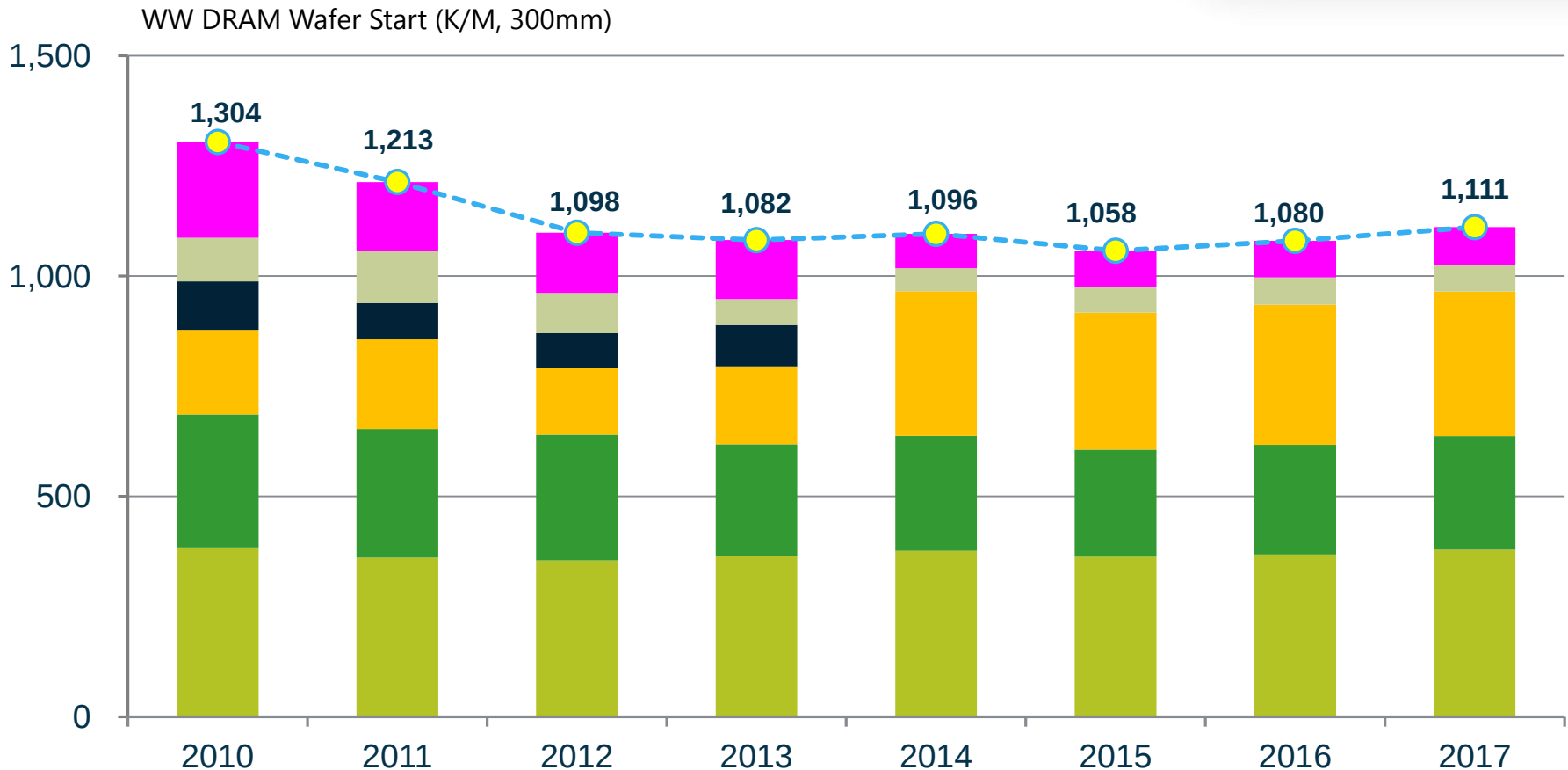
Consolidation

2017 (3 plus major suppliers)



Source: Gartner, NTC

Rational DRAM Supply Growth



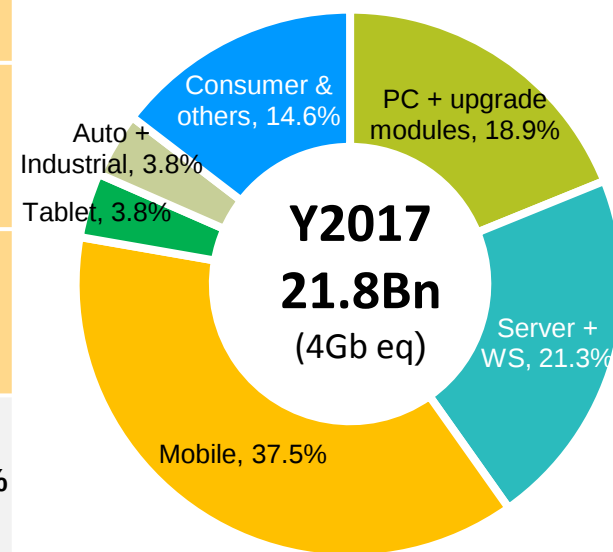
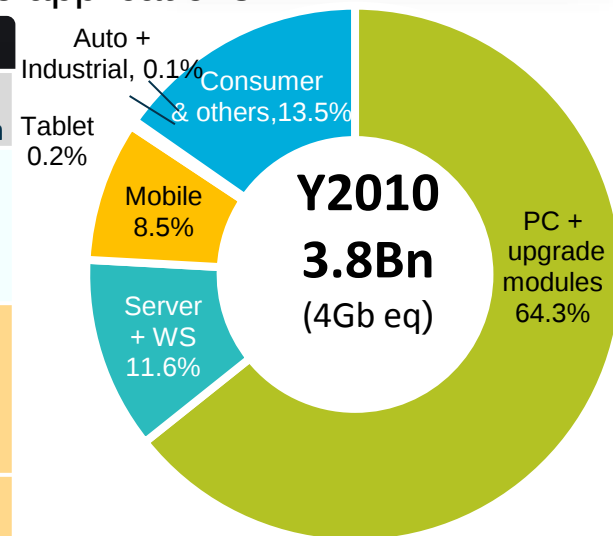
- Limited supply growth contributed mainly by advanced process conversion
- About 20% supply growth in 2017 expected

Source: DRAMeXchange, NTC MKT

Diversification of Demand

- 22% yoy bit demand increase in 2017 projected
- Ongoing growth momentum from cloud computing and mobile applications

		Y2016		Y2017		YoY		
Unit : QTY(Mu) C/B(GB)		QTY,	C/B	QTY	C/B	QTY(Y/Y)	C/B(Y/Y)	Bit Growth
Cloud	Server 	17	110	17.6	133	3.5%	20.9%	25.2%
P2P	PC 	270	5.1	263	5.6	-2.6%	9.8%	7.0%
	Tablet 	180	2.1	164	2.6	-8.9%	23.8%	12.8%
	Smart Phone 	1,480	2.1	1,482	2.7	0.1%	28.6%	28.7%
	LCD TV 	223	1.8	219	2.0	-1.8%	11.1%	9.1%
M2M	Car 	91.3	0.6	93.8	2.1	2.7%	250.0%	259.6%



DRAM Essential to New Data Era



DRAM Pricing Fluctuation Stabilized

\$/4Gb equiv., PC DRAM



- Limited DRAM supply expected in 2017, leads to healthy market condition

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Nanya Technology Overview

IDM Company

- Founded in 1995, IPO in 2000
- DRAM Process, Design, Production & Sales
- Headquarters: New Taipei, Taiwan
- Employees: >2,600
- Focus on value-added DRAM market
- Formosa Plastic Group (FPG) has 75.8% equity ownership

Technology & Capacity

- **Technology :**
 - Starts 20nm piloting in Jan.'17
 - Plan to ramp 20nm to 38K WSPM in 1H'18
- **Capacity:**
 - Current: 60,000 WSPM(12")
 - 2018: 68,000 WSPM(12") (38K 20nm + 30K 30nm)

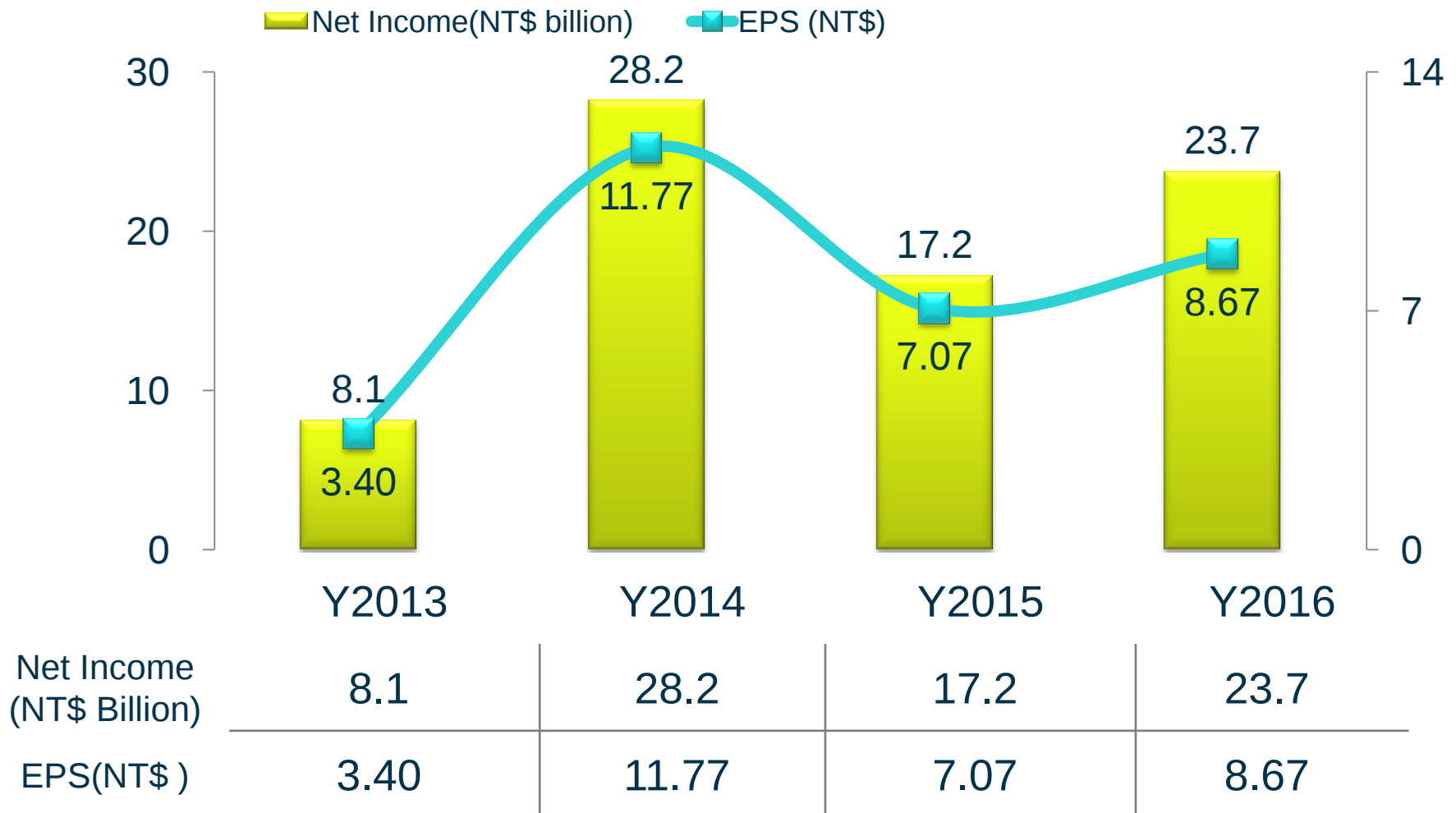
Partnerships

- **Technology license form MU**
Option rights to license Micron 1x and 1y nm technologies and products.
- **Shareholding in Micron**
Acquired about 5.26% of Micron's share.

*WSPM: Wafer Starts Per Month



Strong Performance



2016 P&L Results

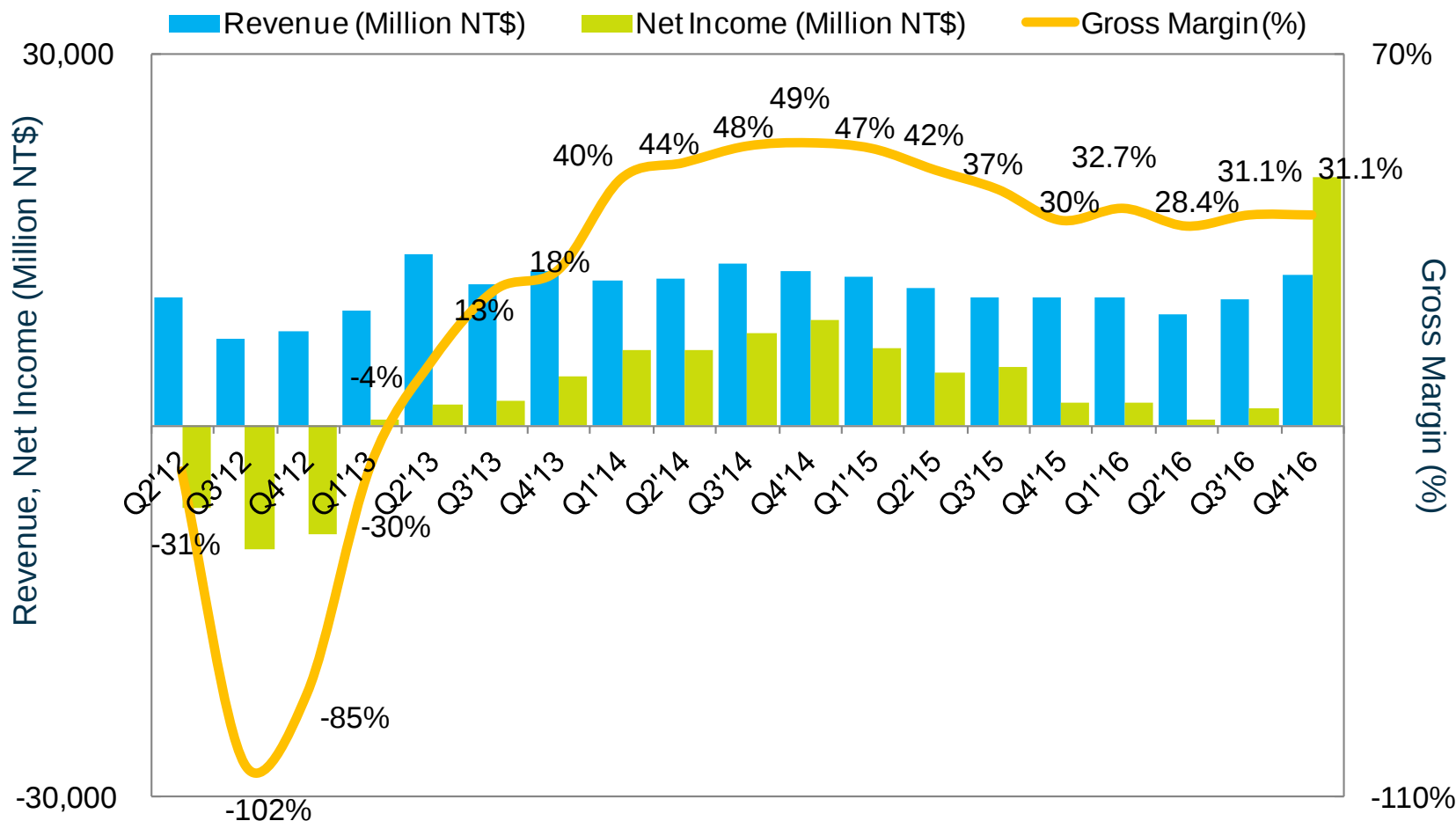
	NT\$B: Billion					
	NANYA					
	2015	Q1'16	Q2'16	Q3'16	Q4'16	2016
Revenue	43.9B	10.4B	8.9B	10.2B	12.1B	41.6B
Gross Profit <i>Gross Margin (%)</i>	17.3B <i>39.4%</i>	3.4B <i>32.7%</i>	2.5B <i>28.4%</i>	3.2B <i>31.1%</i>	3.8B <i>31.1%</i>	12.9B <i>30.9%</i>
Operating Income <i>Operating Margin (%)</i>	13.5B <i>30.7%</i>	2.6B <i>25.3%</i>	1.7B <i>18.5%</i>	1.7B <i>16.6%</i>	2.6B <i>21.2%</i>	8.6B <i>20.5%</i>
Non-operating Income	4.2B	-0.79B	-0.6B	-0.3B	18.8B	17.2B
Net Income <i>Net Margin (%)</i>	17.1B <i>39.1%</i>	1.8B <i>18%</i>	0.4B <i>4.4%</i>	1.4B <i>13.7%</i>	20.1B <i>165.9%</i>	23.7B <i>57.0%</i>
Capital	24B	27B				
EPS	7.07	0.68	0.14	0.51	7.33	8.67

Company highlights in 2016

- NT\$ 23.72B net income of 2016, EPS NT\$ 8.67.
- Shipment increased 20.3% yoy, ASP decreased 22.1% yoy.
- Recognized NT\$ 17.94B from Inotera share disposal.
- Debt ratio 37.5% at the end of the 31st of Dec, 2016.

Financial Highlights

- Q1'17 gross margin likely to improve QoQ due to favorable market condition.



Dividend for Y2016

Subject

Cash dividend of NT\$ 1.5 per common share

BoD Approval

- BoD approved cash dividend of NT\$ 1.5 per common share on 2017/3/9 .
- Will be proposed to the AGM for approval scheduled on 2017/5/26

Cash yields

- 3.32% (3/14 closing price NT\$ 45.15)

Payout ratio

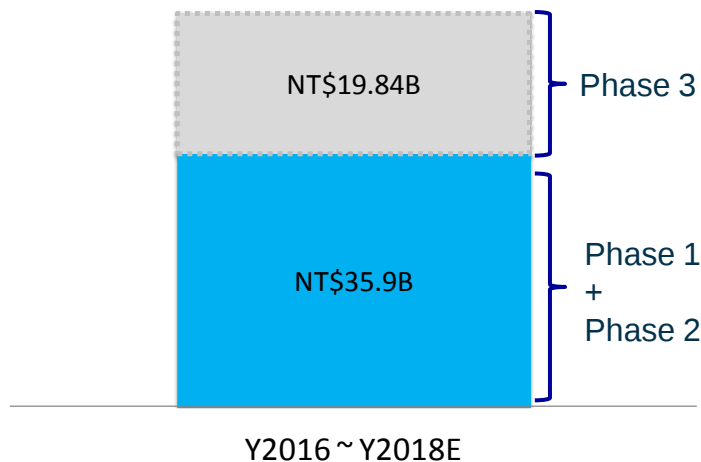
- 17.3% (NT\$ 1.5 / EPS NT\$ 8.67)
- 70.8% (exclude disposal gain of Inotera, NT\$ 1.5 / EPS NT\$ 2.12)

Remark

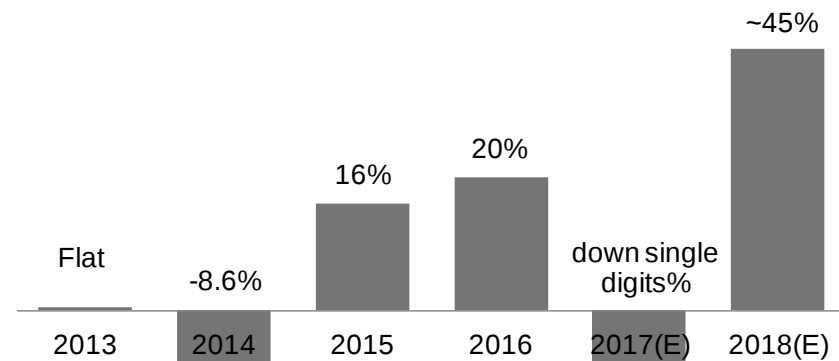
- Exclude disposal gain of Inotera, EPS was NT\$ 2.12 (EPS NT\$ 8.67 – NT\$ 6.55)
- Net cash in NT\$ 16B (Disposal of IMI shares(NT\$ 47.5B), Acquisition of Micron's private placement (NT\$ 31.5B)).
- Expect NT\$ 34.4 billion CAPEX in 2017 for 20nm ramping.

20nm CAPEX & Bit Shipment

CAPEX



Bit Shipment (YoY)



■ Capital Expenditure (CAPEX)

- Anticipated CAPEX of NT\$55.74B for 38K WSPM 20nm migration.
- BoD approved 3rd stage 20nm CAPEX of NT\$19.84B. (as of Mar. 9th, 2017)
- Estimated 2017 CAPEX of NT\$ 34.3B
- 2017 CAPEX mainly from: 1. Cash on hand 2. US\$5B ECB, 3. Cash from operating activities

■ Bit Shipment

- 2017 bit shipment down single digits. Bit shipment resume positive(2018 +45% yoy, 2019 +15% yoy).
- 20nm cost per bit expected to cross over by end of 2017

20nm Plan

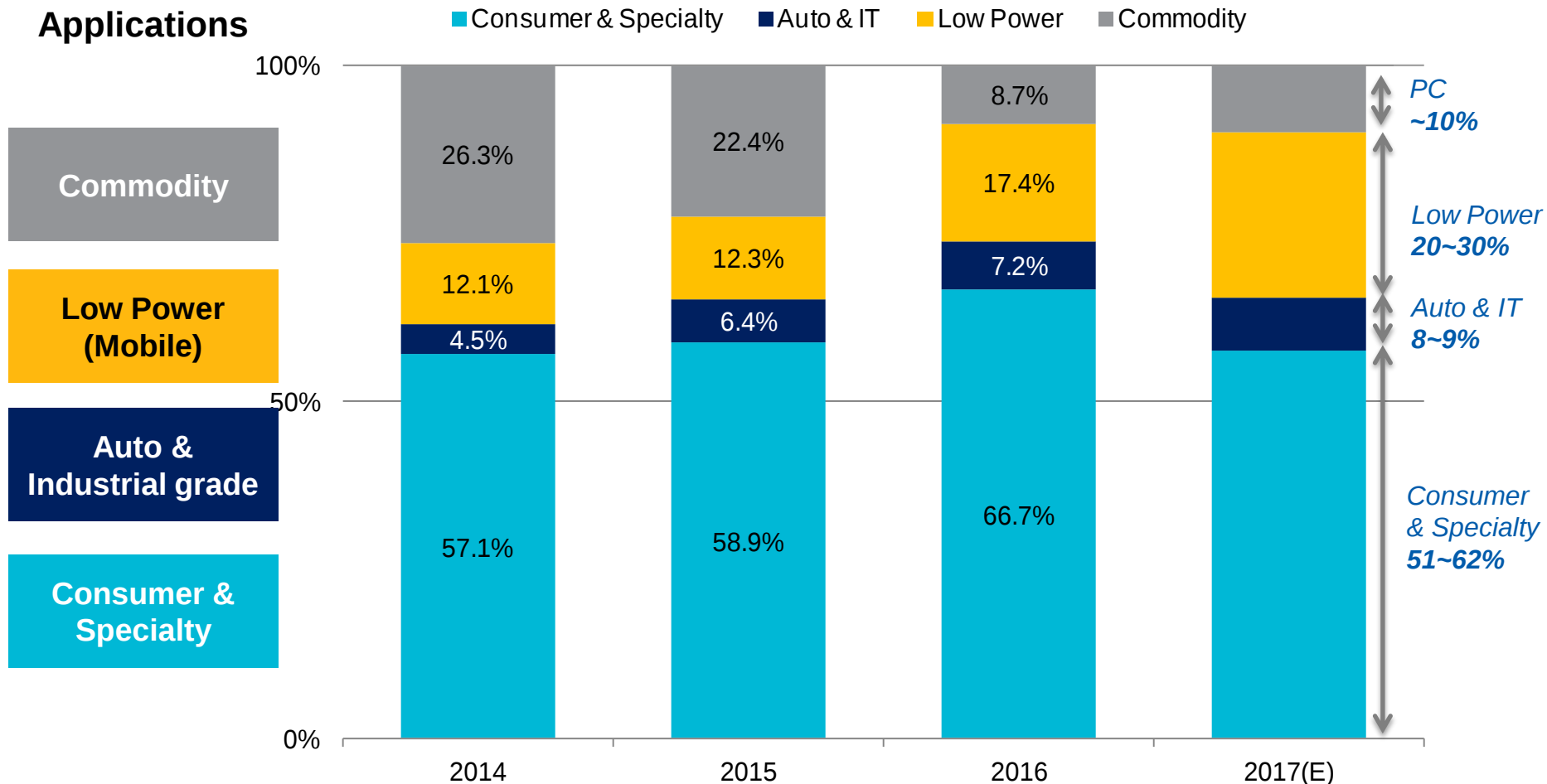
- Plan to convert 38K WSPM to 20nm Technology. Total capacity increase to 68K WSPM.
- 20nm volume production schedule in Q3'17, 30K wafers input expected in Q4'17.
- Cost cross over expected by end of 2017.
- Initial offering DDR4 & LPDDR4X.



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Focus on Specialty DRAM Business

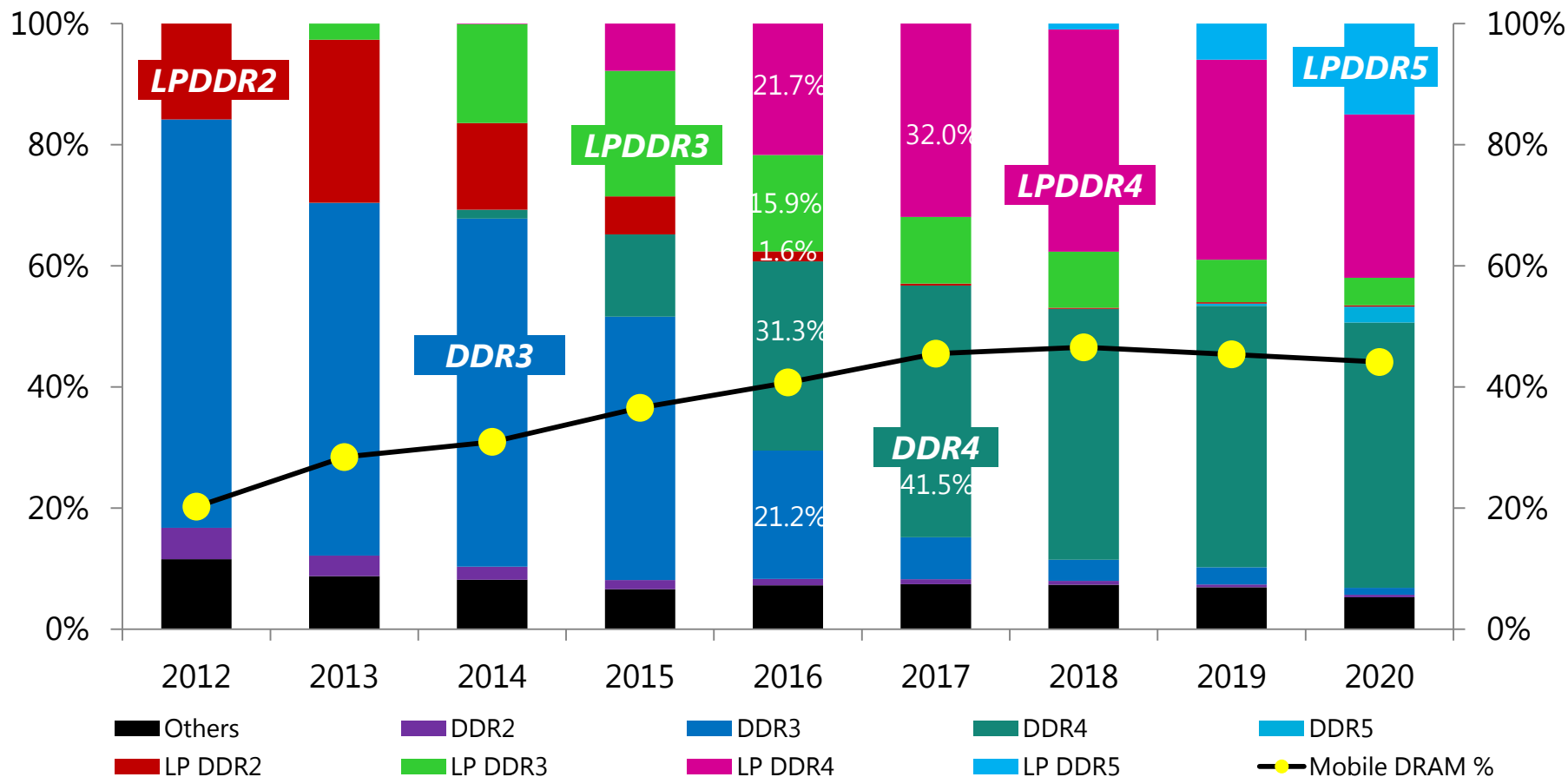


* Revenue portion by Application

DDR4/LPDDR4: Dual Mainstream

% of unit shipment

Mobile DRAM %

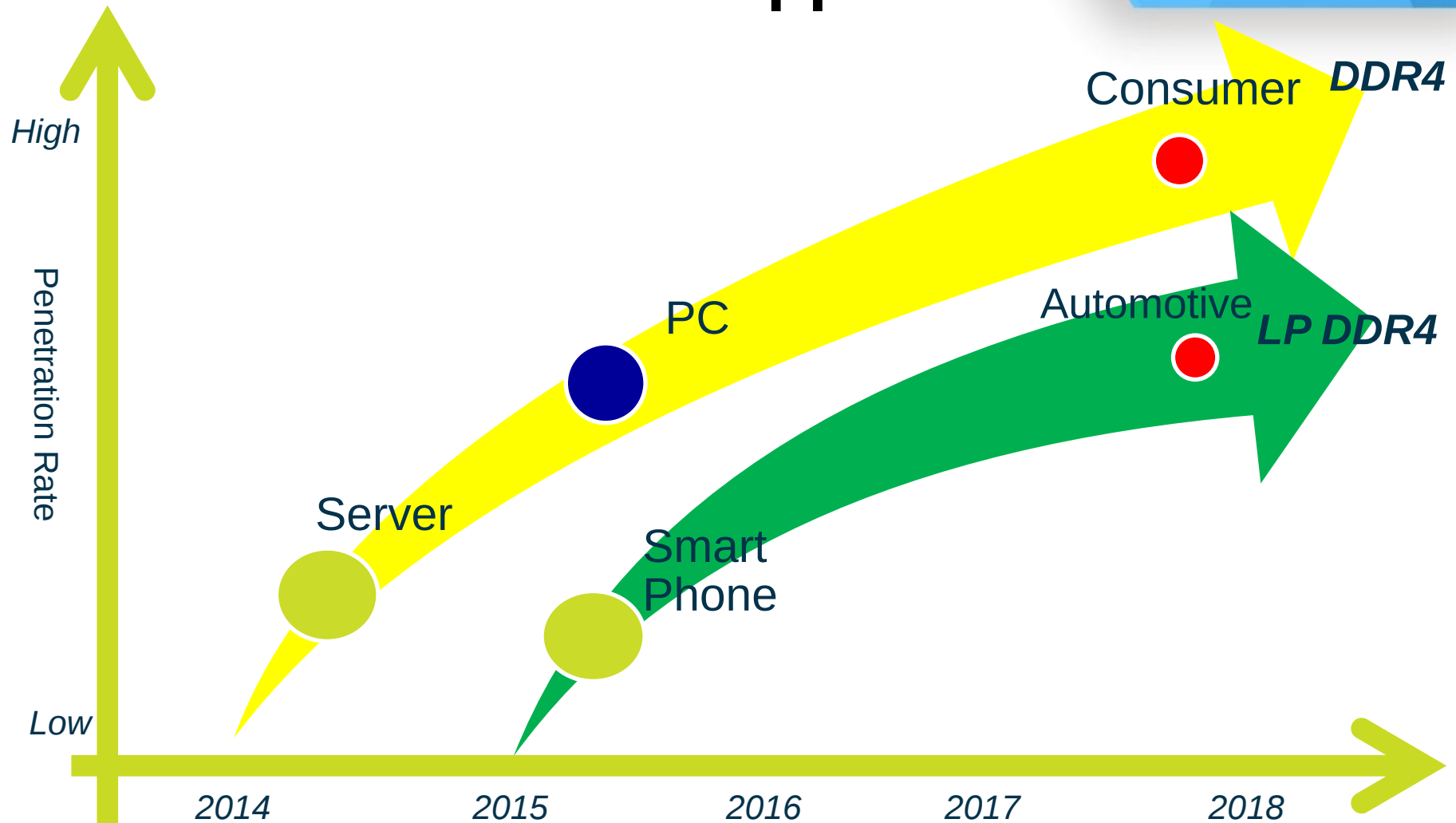


*Others include GDDR5, Wide I/O(I&II), SDRAM, DDR, & Mobile SDR/DDR

Source: Gartner, IHS, & NTC MKT

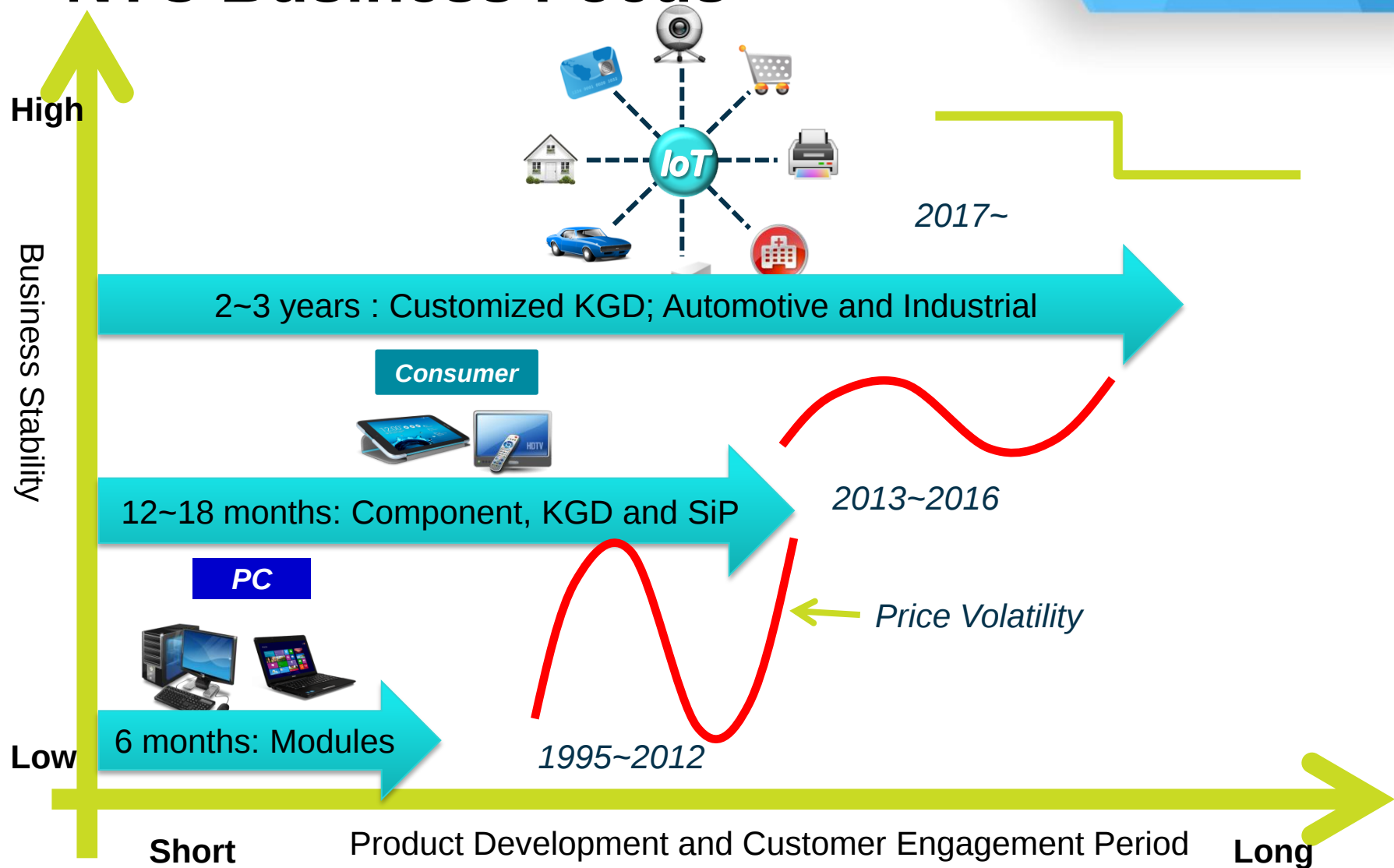
■ 20nm required for initial DDR4 and LPDDR4 offering.

DDR4 and LPDDR4 Applications



■ Consumer and Automotive to adopt DDR4 and LPDDR4 from 2018.

NTC Business Focus



■ Continuously concentrating on premium and longevity markets.

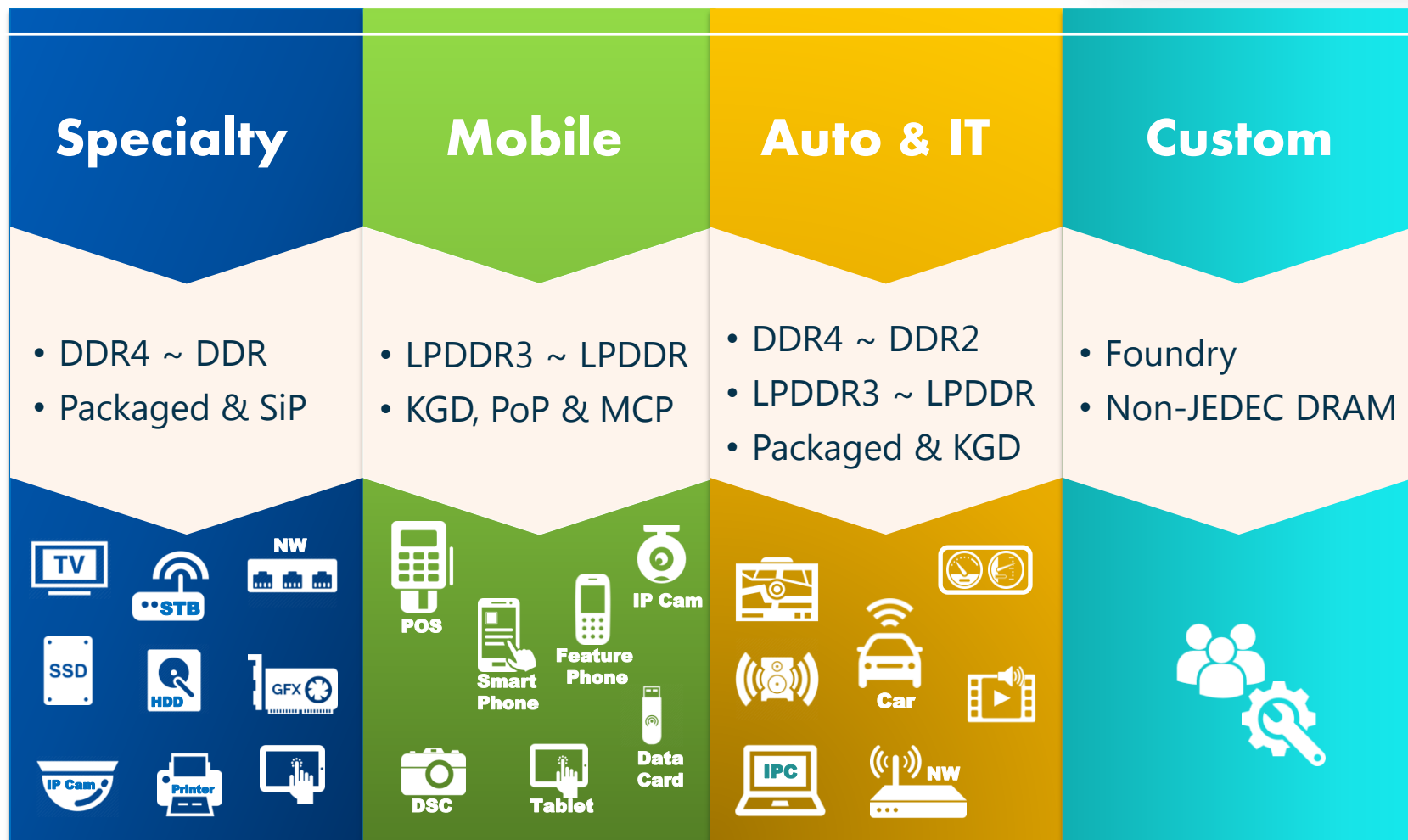
High Growth from Automotive Demand

Smart Car Era: 2017~

	ADAS (Now)	Autonomous Driving (2020~)
DRAM Content / Car	~3.5GB	Growth by 6X~8X
DRAM Drivers	• Infotainment • Connectivity • Adaptive cruise control • Parking assist • 3D navigation	• Adaptive security system • Artificial Intelligence • Real-time navigation • High definition display

■ ADAS & Autonomous Driving to boost automotive DRAM demand.

Comprehensive DRAM Portfolio



SiP = System in Package

KGD = Known Good Die

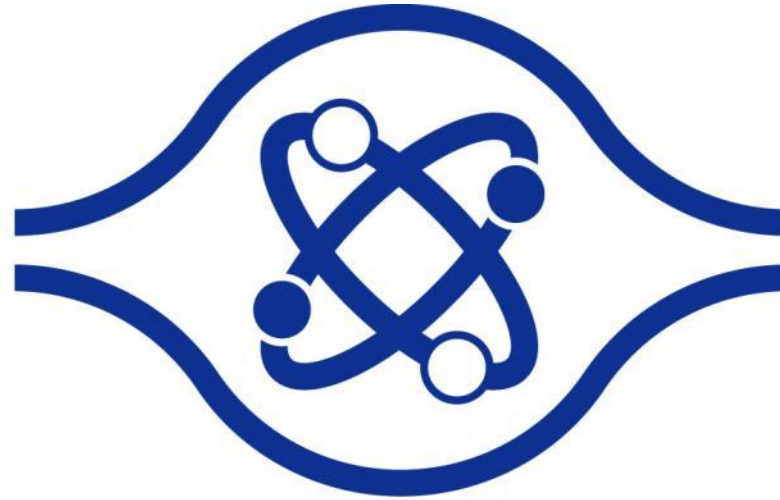
PoP = Package on Package

MCP = Multiple-Chip Package

Nanya Business Outlook

- Limited DRAM supply expected in 2017, leads to healthy market condition.
- Raised Q1'17 ASP guidance up 10-15% QoQ.
- 20nm volume production scheduled Q3'17, target 30K WSPM Q4'17.
- Target 38K WSPM of 20nm in 1H 2018 to better meet customers' needs and improve cost structure.
- DDR4 & LPDDR4 new product engagement.
- Nanya offers a comprehensive portfolio of DRAM solutions and continues to focus on specialty DRAM business.

*WSPM: Wafer Starts Per Month



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Thanks & Questions