

2019 Investor Relations

No.1

will make the semiconductor industry prosper
TechWing Company

2019.6

TechWing

Disclaimer



All financial data of TechWing (the “company”) discussed in this presentation is based on K-GAAP and K-IFRS.

This presentation contains forward-looking statements relating to the company’s future performance. These forward-looking statements reflect the company’s forecasts for the future, not the past, and the beliefs of the company’s management on what is achievable. These forward-looking statements include, but are not limited to, “anticipate,” “project,” “plan,” and “expect.”

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will make the semiconductor
industry prosper

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Chapter 1. Business Information



1. Business Introduction



Market leader in semiconductor equipment

As a mechatronics company, TechWing provides the best semiconductor equipment to customers
TechWing also provides customized solutions upon request

Chip level test handler

- Memory test handler
 - 64, 128, 256, 512, 768, 960 parallel
- Non-memory test handler
 - 8 & 16 parallel dual temp handler
 - 16~32 parallel tri temp handler



Module & SSD test handler

- Module handler
 - 16, 32, 128 parallel
 - System level testing solution
- SSD test handler
 - Standalone & Inline testing solution



Others

- Handler – SLT, Strip, Tab
- Load board or DSA board
- Change Over Kit
- OHT, AGV



2. Test Handler



“Testing equipment sorts devices into different categories based on the tester’s results”

Test handler

- Automatic sorting of normal & defective products
- Provide a proper environment for testing
- Provide devices (chips) to main tester

Interface board



- Connection Board between the handler and tester

Change over kit

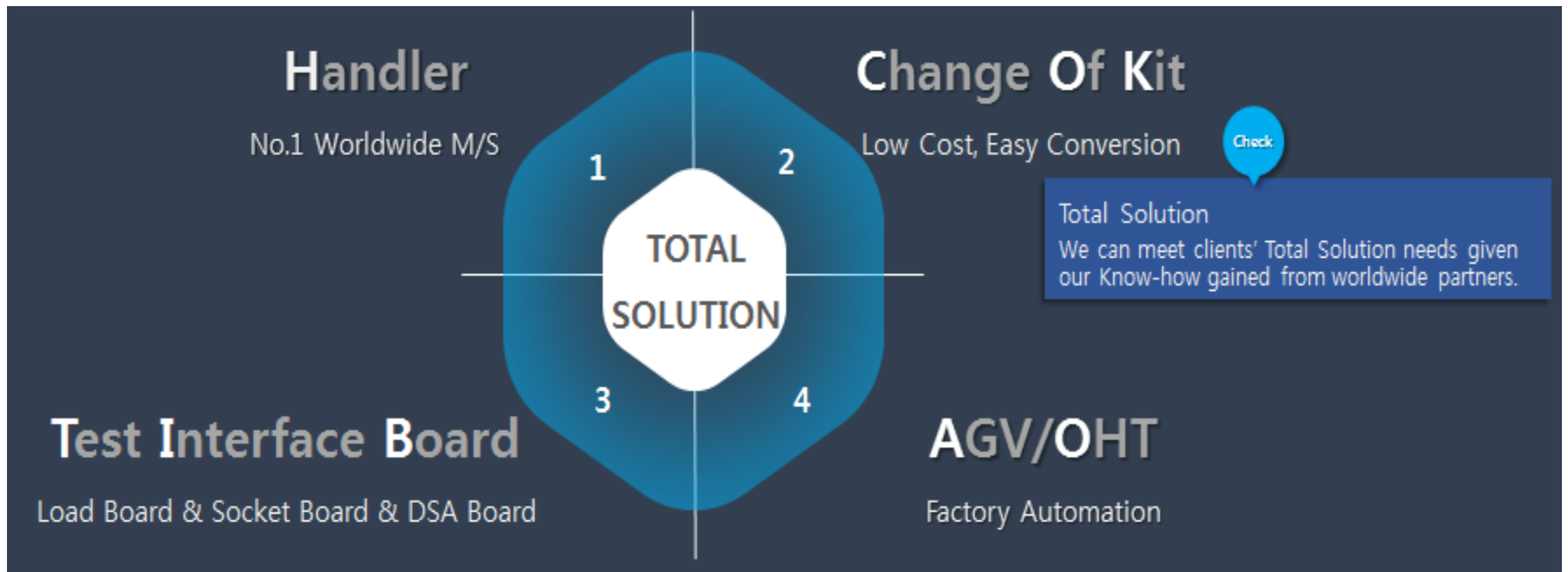


- Construct different environments for different devices
- Different devices require different COK

Tester

- Test equipment for components, modules, and designs
- Non-business areas of Techwing

3. Competitiveness: Total Solution



3. Competitiveness: Service



R & D 240



240 R&D Specialists

About 42% R&D team

- SW customization
- Engineer dispatch
- Design simulation on SLK & COK

Global Support



Five Local Offices

- China
- Taiwan
- USA
- Singapore
- Japan

Training Team



Onsite training available

Our training team is multi-lingual and experts with our equipment

- Onsite/Factory training

CS Engineer



Customer Support

CS Members are close to customer's company and provide full technical support

- Skillful CS engineer
- 24hrs on-call support
- 1set of spare part

4. Future Growth Drivers



“Expand test handler client base! Diversify factory automation equipment!”

Sole supplier of memory test handlers

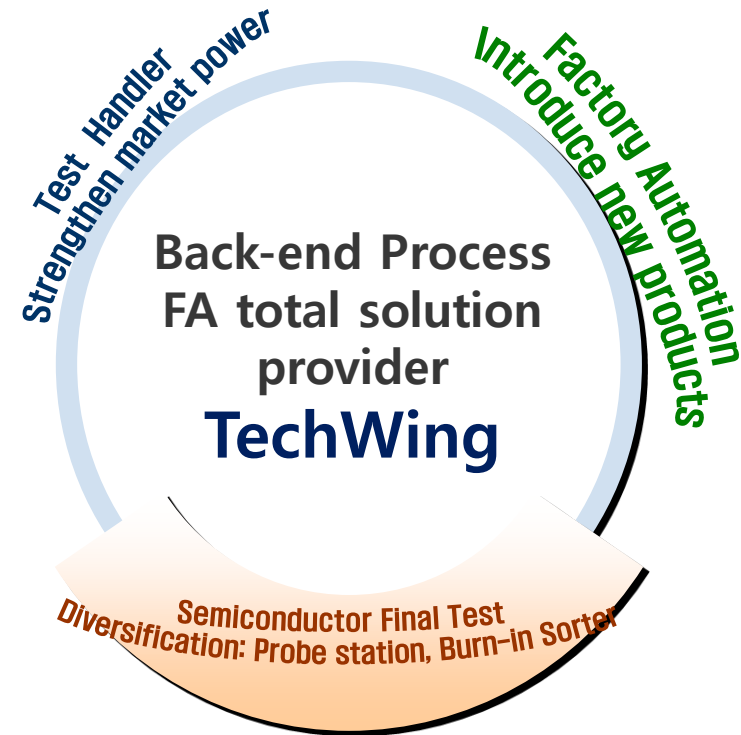
Expanding M/S for SoC test handlers

Rising sales volume of modules, SSD handlers

Penetrating probe station, burn-in sorter market

Leader in back-end process FA equipment

Applying FA equipment to other industries



5. Display Panel Inspection Equipment: ENC Technology



“Goal of growth as leader in display panel inspection equipment- inspection development”

Company Overview

Name	ENC Technology Inc. (CEO, Lee Dong Gu)
Foundation	Oct. 5 th , 1999 (unlisted company)
Major shareholder (%)	56%
Employee	97 (as of Dec. 2018)
Address	47 Dongtansandan 8 gil, Dogtan-myun, Hwasung-si, Kyungki Province
Business Field	<ul style="list-style-type: none"> • OLED/LCD Test/manufacture Equipment • OLED/LCD Test Equipment (SVI) • Display/Semiconductor FURNACE/RTA

Sales growth through diversified items

Products

- 1) OLED/LCD Optical Evaluation (FPMS,BLU,LTS,IVL)
- 2) Aging / Inspection Systems
- 3) Evaluation System (MTP / GTS)
- 4) **Module Inspection Equipment**
: Began large-scale sales from 2017

Performance & Forecasts

- 2016
- Sale : 8,681 million won
 - Operating profit: 152 million won
- 2017
- Sales: over 356 billion KRW
 - Operating profit: 40 billion KRW
- 2018
- Sales: over 97 billion KRW
 - Operating Profit: -40 billion KRW

Stable Business Structure / Preparing for leap in growth

OEM for OLED equipment & part

New inspection equipment development/sales

Continue to supply optical measurement equipment

5. Display Panel Inspection Equipment: ENC Technology



OPTICAL EVALUATION SYSTEMS

- Full EVALUATION automation
- BLU EVALUATION system
- Life Time system
- IVL system

PANEL PROCESS SYSTEMS

- OLED Aging system
- OLED Inspection

MODULE PROCESS SYSTEMS

- AOI (AMT)
- AOI
- Pad cleaner
- UV Dispenser

SEMICONDUCTOR SYSTEMS



Chapter 2. Company Information



1. Overview



➤ HQ in Hwaseong



➤ Factory in Anseong



➤ Factory in Asan



- Business area : Semiconductor equipment
- Foundation : August 2002
- CEO : Yunsung Na
- Employees : Approx. 600 (around 40% R&D)
- Headquarters : Sales/Management/HR/Finance
- Factory : Production/QA/Production R&D
- Capacity : 85,123m² factory floor space
- Install base : 1,940 handlers (updated on 31st December, 2018)

2. TechWing's History



- 2004.12 Develop 256Para Memory Test Handler
- 2004.08 Acquire ISO 9901 and ISO 14001
- 2003.01 Develop 128 Para Memory Test Handler
- 2002.08 Establish TechWing



- 2014.01 Achieve 1,000 handler shipments
- 2013.06 Acquire ENC Technology
(To advance display equipment business)
- 2012.04 Open new headquarter building
- 2011.12 Receive \$50 million Export Tower Award

START

- 2010.11 Acquire OHSAS 18001
- 2010.07 Expand Anseong Plant II
- 2010.06 Develop Module Handler
- 2009.02 Develop 512 para High Speed Test Handler
- 2006.12 Relocate factory to Hwaseong (now headquarters)







- 2018.01 Open new factory in Asan
- 2016.12 Receive \$100 million Export Tower Award
- 2016.02 Expand of Anseong Plant III



3. Major Customers



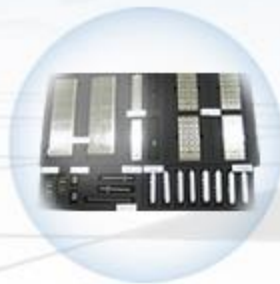
Classify	Semiconductor (test handlers)	Display (subsidiary)
Domestic		
Overseas		

4. Global Network

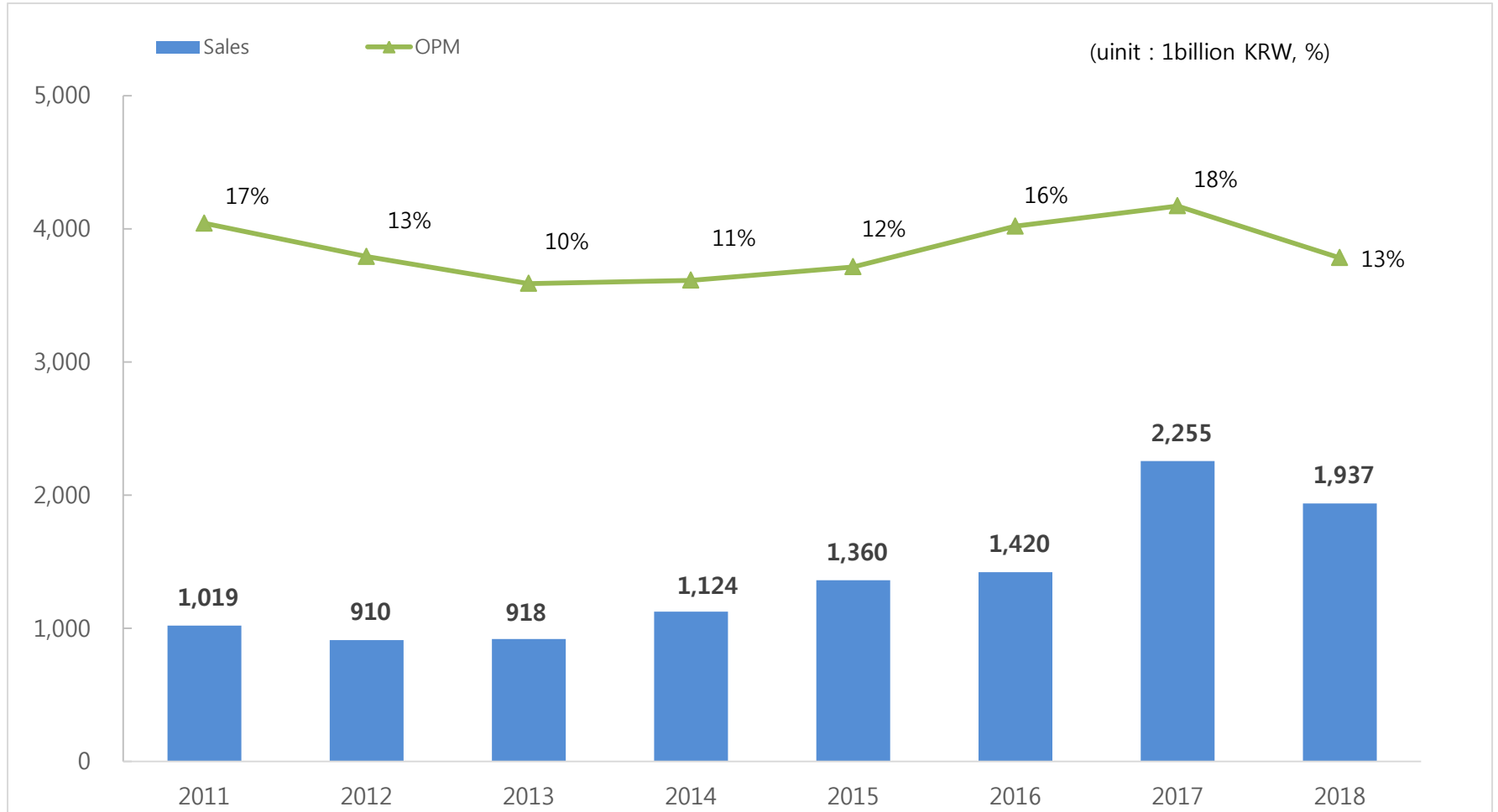


- ✓ 5 Local offices – China, Japan, Singapore, Taiwan, USA
- ✓ Systematic training course by training team – onsite training available
- ✓ Devoted support from Sales & CS

Chapter 3. Financial Highlight



1. Performance



2. Summary of financial statements (2016~2018)



Summary of Consolidated Balance Sheet

(Unit : KRW mm)

As of 31 December	2018	2017	2016
Current Asset	148,245	175,708	105,333
Non-current Asset	187,672	166,671	162,311
Total assets	335,917	342,380	267,645
Current Liabilities	121,317	150,247	84,210
Non-current Liabilities	50,933	39,506	76,020
Total Liabilities	172,250	189,753	160,230
Capital Stock	9,478	9,264	9,106
Capital Surplus	43,035	37,342	34,081
Other capital items	(7,869)	851	(2,705)
Retained Earnings	118,892	103,475	69,026
Non-controlling Interest	132	1,691	(2,094)
Total Stockholders' Equity	163,667	152,626	107,414

Summary of Consolidated Income Statement

(Unit : KRW mm)

For the year ended 31 December	2018	2017	2016
Sales	193,710	222,772	141,979
Cost of Sales	129,045	144,538	90,464
Gross Profit	64,666	78,234	51,515
Operating Profit	25,093	41,516	23,093
Profit before Tax	22,825	47,993	18,103
Income Tax	4,264	8,606	3,460
Net Income	18,561	39,387	14,643