



Investor Relations 2018

# MACHINE VISION NO.1 TECHNOLOGY

 **V-ONE Tech**



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2018

Investor Relations

MACHINE VISION  
NO.1 TECHNOLOGY

# Contents

## Prologue

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01. Company Identity

## 01. Company Overview

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- 01. Company Overview
- 02. History
- 03. Display Application Process
- 04. Major Equipment
  - LCD/OLED AKKON AOI M/C
  - OLED FMM MFF AOI M/C
  - Rechargeable Battery Inspection M/C
- 05. Business Performance
- 06. Global Customer Network

## 02. Core Competence

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- 01. Various Applications
- 02. Stable Revenue through Various Customers and Markets

## 03. Investment Points

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- 01. Continuous Demand Pursuant to Yield Improvement Investments
- 02. Entering New Markets and Broader Equipment Portfolio  
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## Appendix

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Pangyo – 2nd Techno Valley

**2018**

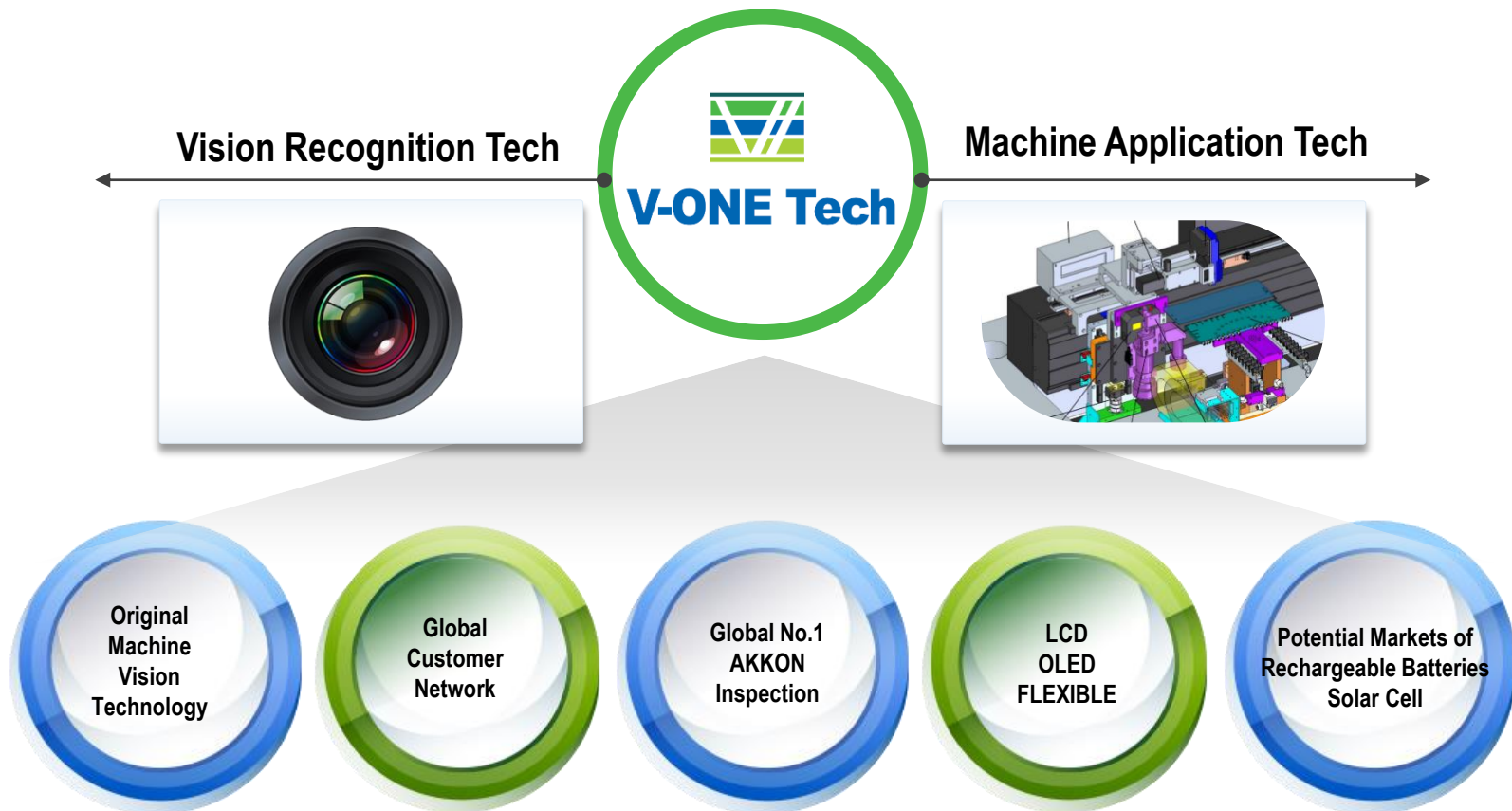
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NO.1 TECHNOLOGY**

## Prologue

01.Company Identity

## Global Machine Vision No.1 Technology





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NO.1 TECHNOLOGY**

**01**

## Company Overview

01. Company Overview
02. History
03. Display Application Process
04. Major Equipment
  - LCD/OLED AKKON AOI M/C
  - OLED FMM AOI S/W & M/C
  - Rechargeable Battery alignment System
05. Business Performance
06. Global Customer Network

# 01 Company Overview

## General Information

# V-ONE Tech

<b>CEO</b>	KIM Sunjoong
<b>Established</b>	May 30th, 2006
<b>HQ</b>	1A 710 (Sampyeong-dong Uspace1), 660, Daewangpangyo-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, Korea 463-400
<b>Employees</b>	69
<b>Equity Capital</b>	3.76 billion KRW
<b>Main Business</b>	LCD, OLED Inspection System Production Industrial Inspection System Development Industrial Machine Vision System Development

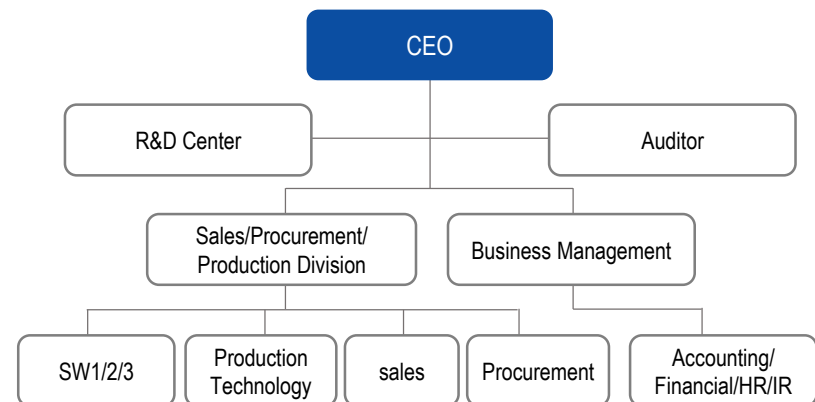
## CEO Profile



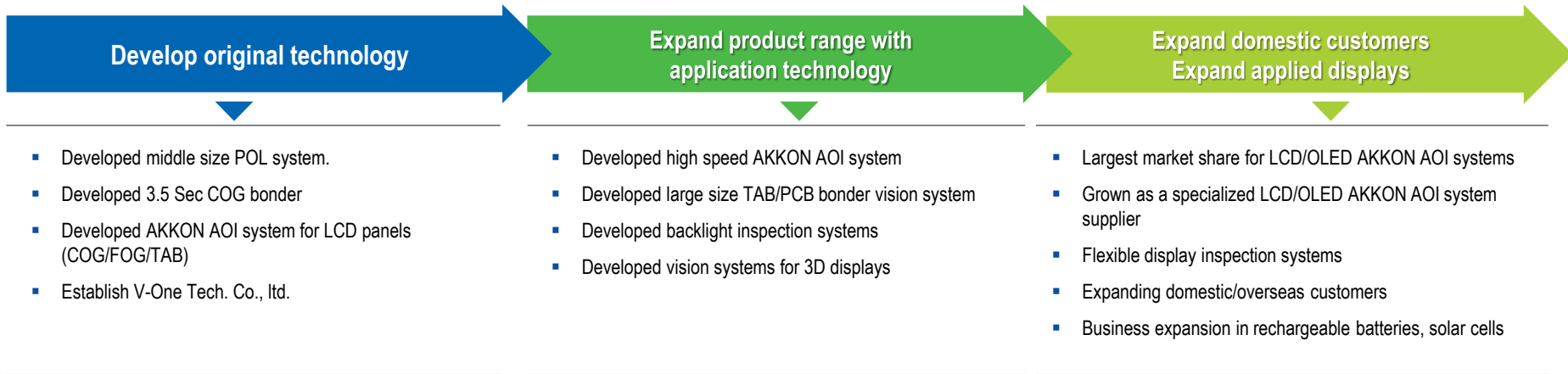
**CEO KIM Sunjoong**

- Master, Hanyang University
- LG Electronics Inc.
- Ko-Sam Co.,Ltd.
- Global Link Co., Ltd.
- CEO, V-One Tech. Co., Ltd.

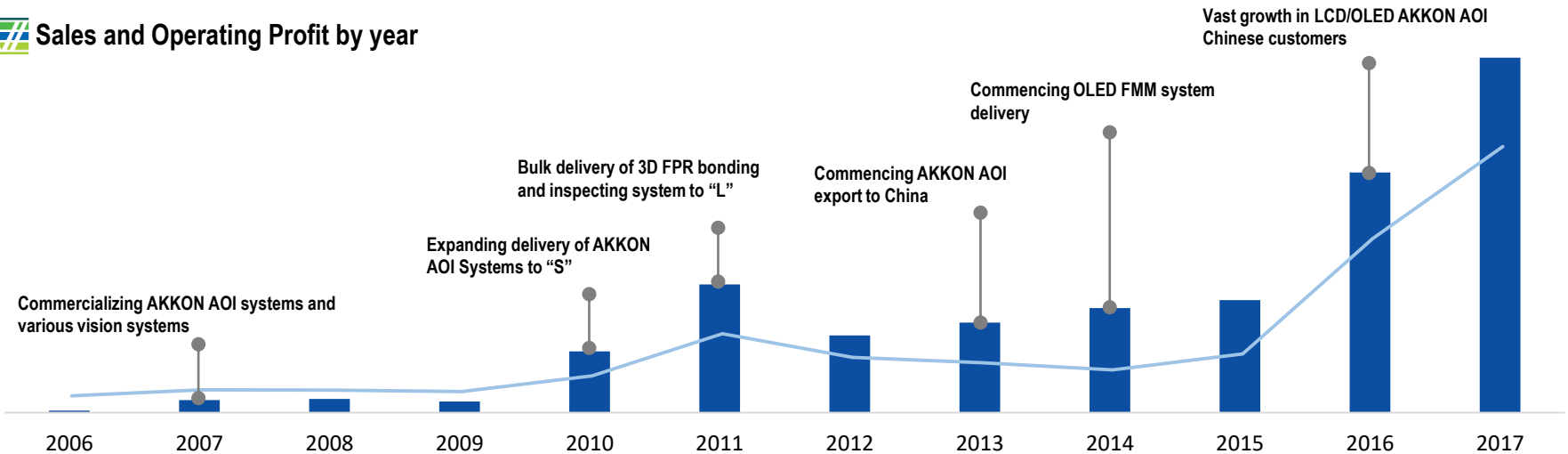
## Organization Chart



# 02 History



## Sales and Operating Profit by year

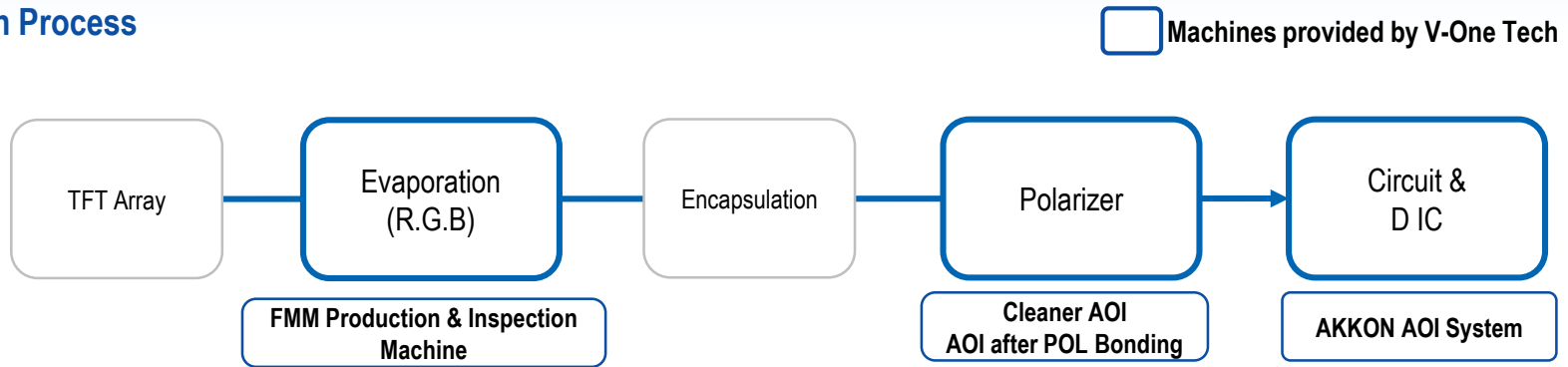




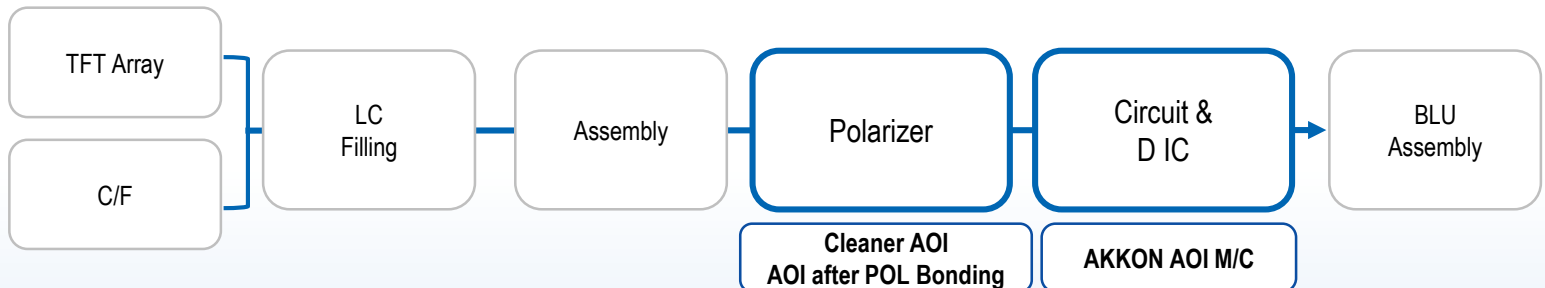
# 03 Display Application Process

## LCD/OLED Display Inspection M/C Produced with Machine Vision Systems

### OLED Application Process



### LCD Application Process



# 04 Major Equipment

## Middle & Small Sized LCD/OLED Display Inspection Machine

### Inspection Machines

### Inspection Systems



Rigid AKKON AOI M/C



Flexible AKKON AOI M/C



FMM S/W & Inspection M/C



Cleaner AOI System



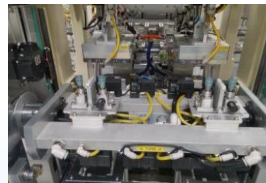
AKKON AOI M/C



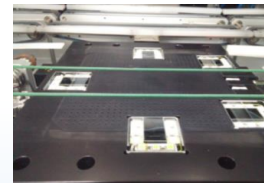
3D POL FPR Alignment & Inspection System



COG/FOG/TAB Bonding Alignment System



Rechargeable Battery Inspection System



Solar Cell Alignment System

# 04 Major Equipment-LCD/OLED AKKON AOI M/C

## Panel Bonding Inspection via Machine Vision System



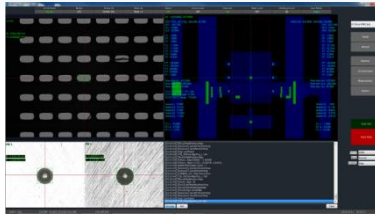
### [ Key Technological Competitiveness ]

Key Technology	V-One Tech. Co., Ltd.	Competitors
COG Alignment Inspection	Line Scan IR Patented	Area
FOG Alignment Inspection	Independent light source	Conventional light source
AKKON Image	Stable & Vivid Image	Blur image according to facility vibration
SW/HW Optimization	Optimized combination from years of experience	Lack of experience by focusing on production facilities
Flexible Response	Flexible OLED M/S 80%	Lack of experience

# 04 Major Equipment-OLED FMM S/W & M/C

## FMM Tension & PPA Inspection of Full HD/UHD OLED

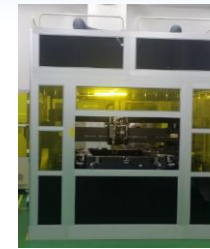
### FMM Tensioner S/W



Tension FMM and meticulously adjust Pixel Pattern Hole to bond on Frame

\*FMM : Fine Metal Mask

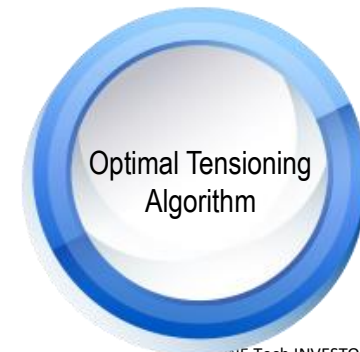
### PPA Inspection M/C



Test of FFM Hole position, Pitch, CD

\*PPA : Pixel Position Accuracy

### [ Key Technologies ]



# 04 Major Equipment-Alignment System of Rechargeable Battery

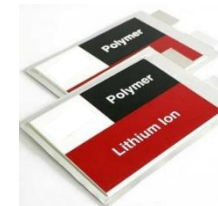
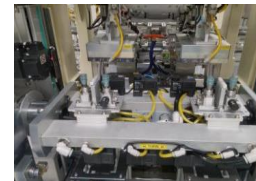
Increase Significance due to explosion incidents

## Types of Battery Cell



Close Examination  
due to explosion  
incidents

## Rechargeable Battery Inspection System (Stack & Tacking Press)

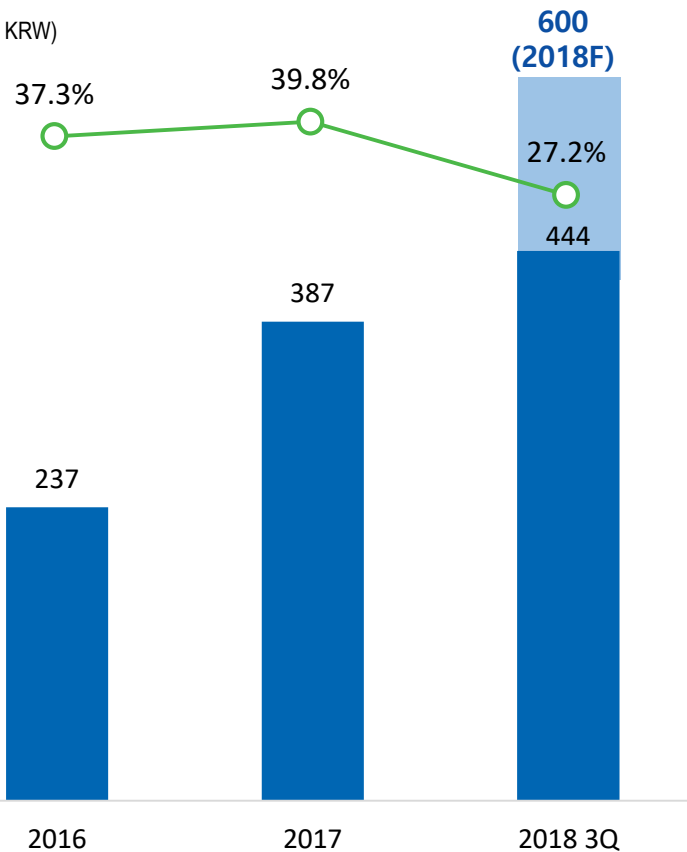


# 05 Business Performance

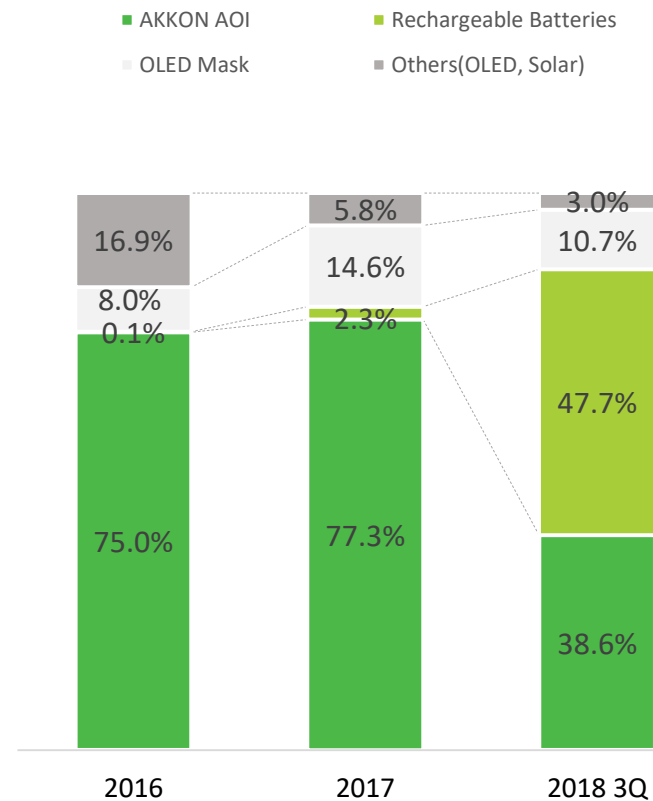
## Constant Increase in Sales & Operating Profits with diversified products

Sales & Rate of Operating Profits

(100mil KRW)



Sales Contribution by Product





# 06 Global Customer Network

## Customers in Korea and China based on Outstanding Machine Vision Technology



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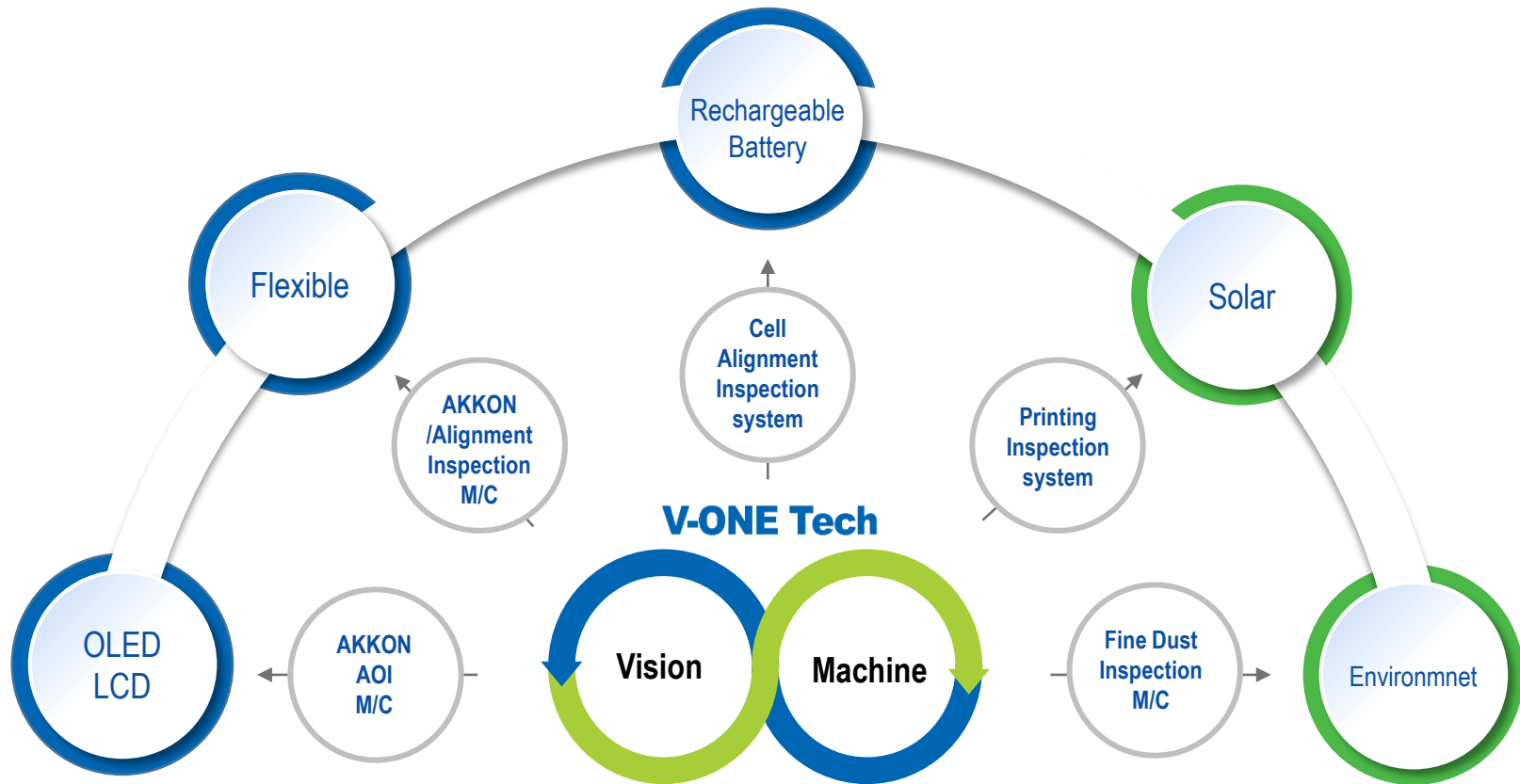
**02**

## Core Competence

- 01. Various Applications
- 02. Stable Revenue through Various Customers and Markets

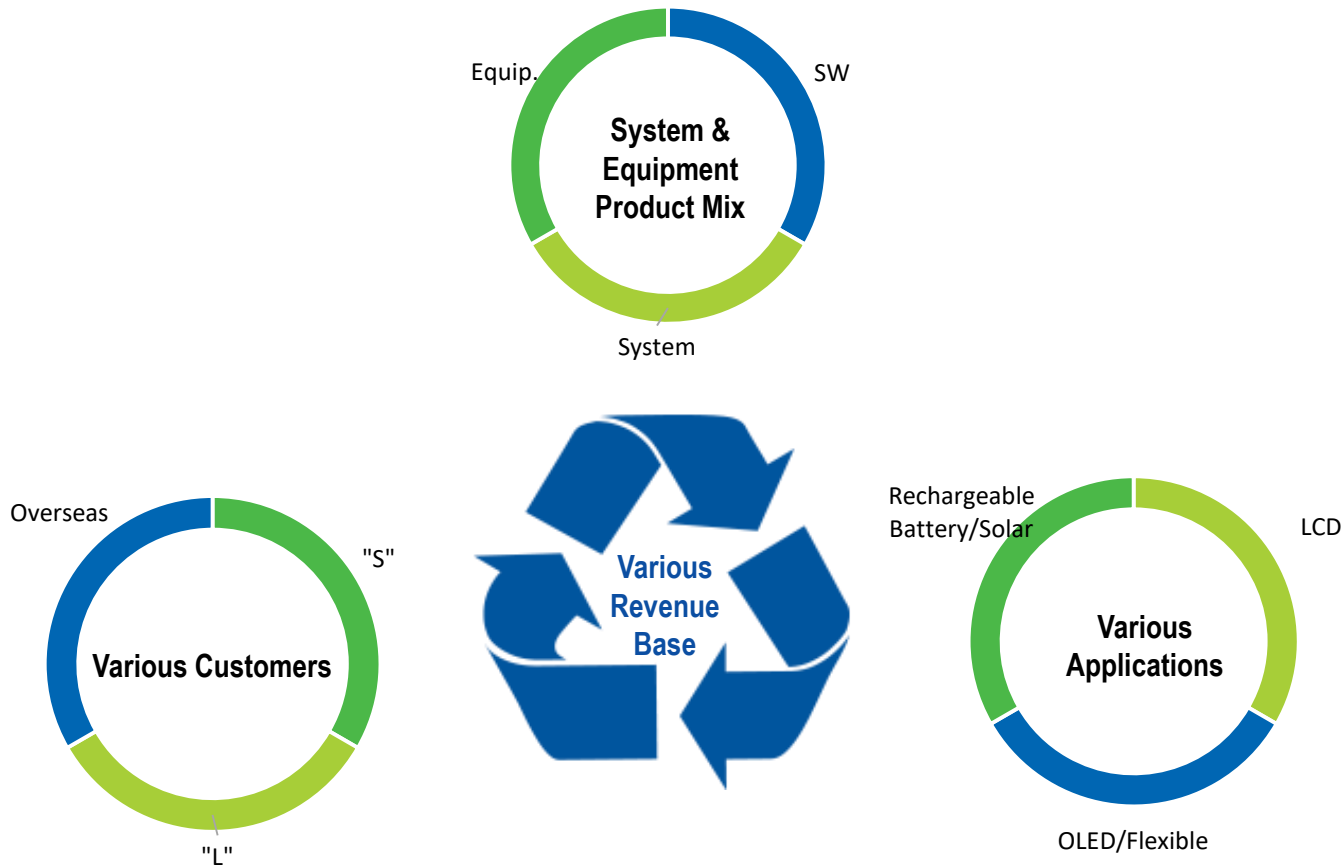
# 02 Various Applications

## Endless Scalability as Machine Vision-based Equipment Supplier



# 04 Stable Revenue through Various Customers and Markets

## Secured Stable Revenue based on Various Customers and Broad Product Portfolio



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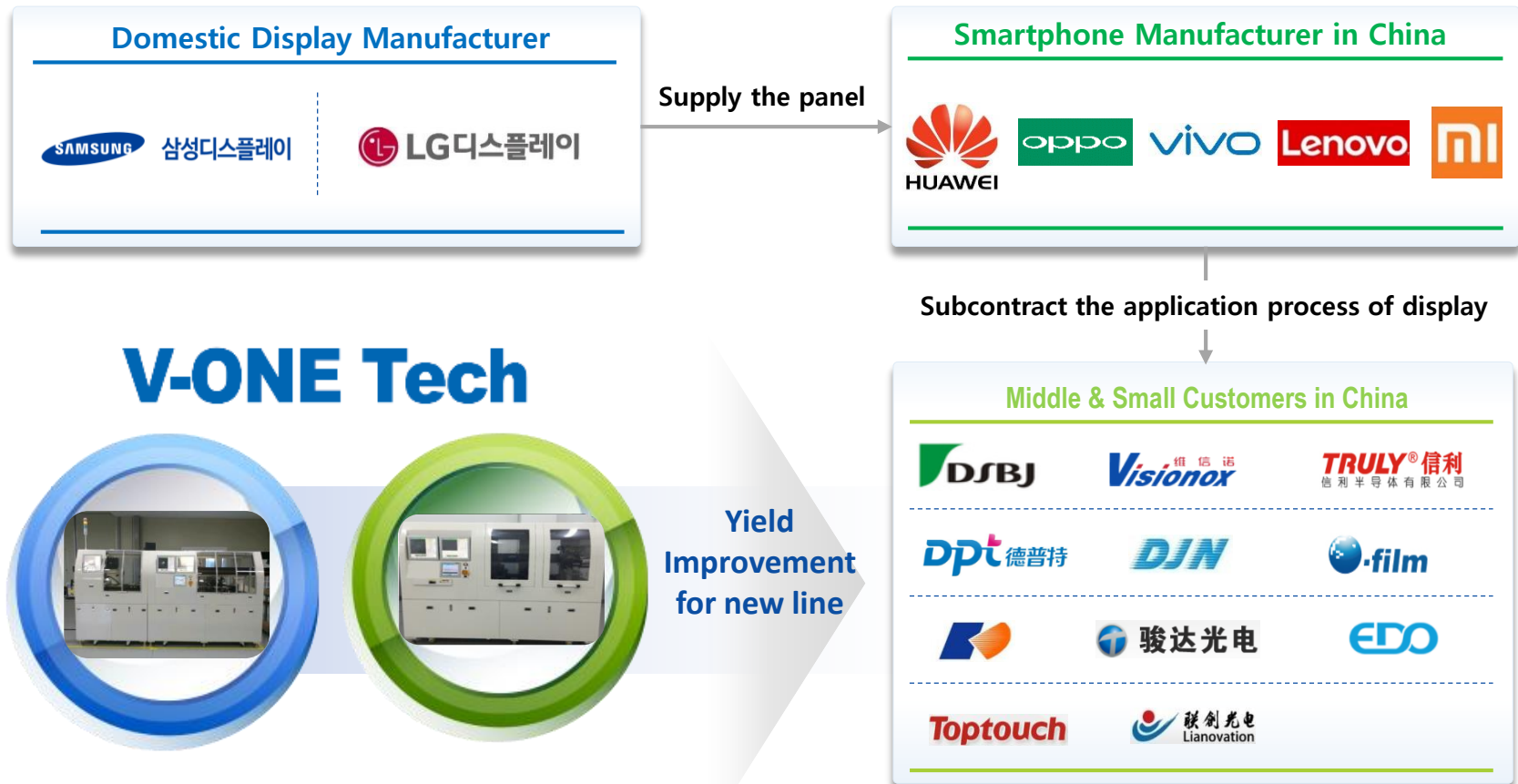
**03**

## Investment Points

01. Continuous Demand Pursuant to Yield Improvement Investments
  02. Entering New Markets and Broader Equipment Portfolio
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# 04 Continuous Demand Pursuant to Yield Improvement Investments

Continuous Demand pursuant to China's Investment for yield improvement



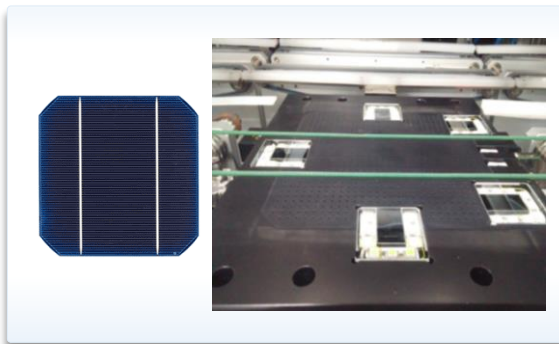


# 06 Entering New Markets and Broader Equipment Portfolio

## Expanding Markets with applied Machine Vision Technology

### Solar Printed Alignment

- Increased Efficiency of Solar Cell and Module via Precision Electrode Printing



Wafer & Mask Alignment

Electrode Printing

Printed Output Inspection

### Measuring set of Fine dust

- Real time measurement of fine dust due to attention about air pollution

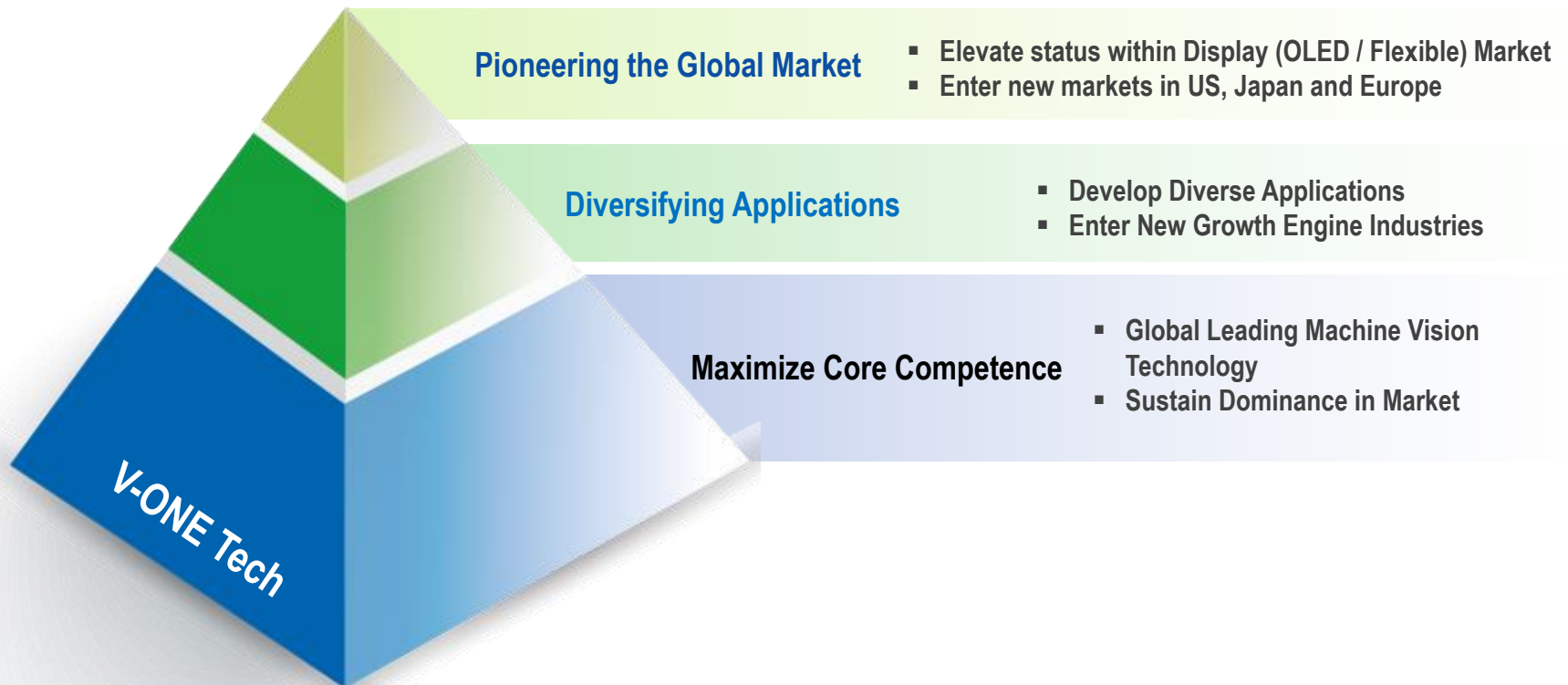


Developing the high-tech sensor to measure fine dust

Expecting school to conduct it  
By reduction measures establishment

Measuring both  
PM2.5(ultrafine dust) and PM10(fine dust)

## “Enter Various Markets as the Global No.1 Machine Vision Technology Company ”



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NO.1 TECHNOLOGY**

## Appendix

Pangyo – 2nd Techno Valley

# Pangyo – 2<sup>nd</sup> Techno Valley





# Pangyo – 2<sup>nd</sup> Techno Valley





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**Thank you.**