

MACHVISION, INC (3563 TT)

MACHVISION's statements of its current expectations are forward looking statements subject to significant risks and uncertainties and actual results may differ materially from those contained in the forward-looking statements.

Except as required by law, we undertake no obligation to update any forward-looking statement, whether as a result of new information, future events, or otherwise. MACHVISION Agenda

- **▶** Company Overview
- **▶** Business Update
- ► Financial Performance

Company Overview

Founded in 1998.6.9

Main Products: Automated Optical Inspection (AOI)

2015 April: Awarded The 3rd excellent Enterprises as Backbones in Taiwan

2017/2016: Awarded The Corporate Governance Excellence in

Taiwan (top 5% of TW-listed firms)

Founder: Dr Collin Wang - PhD in industrial engineering at Penn. State University

Research expertise – Image Processing / R&D Management



Company Overview

Management Team



President
Chen, Fu-Sheng
Master of IE and
Engineering Management,
National Tsing Hua University



Technical Committee Wang, Yuan-Nan Master of ME, National Taiwan University



EVP Huang, Chia-Hsing Master of IE, Pennsylvania State University



CSO Su, Jung-Chieh MBA, National Cheng Kung University



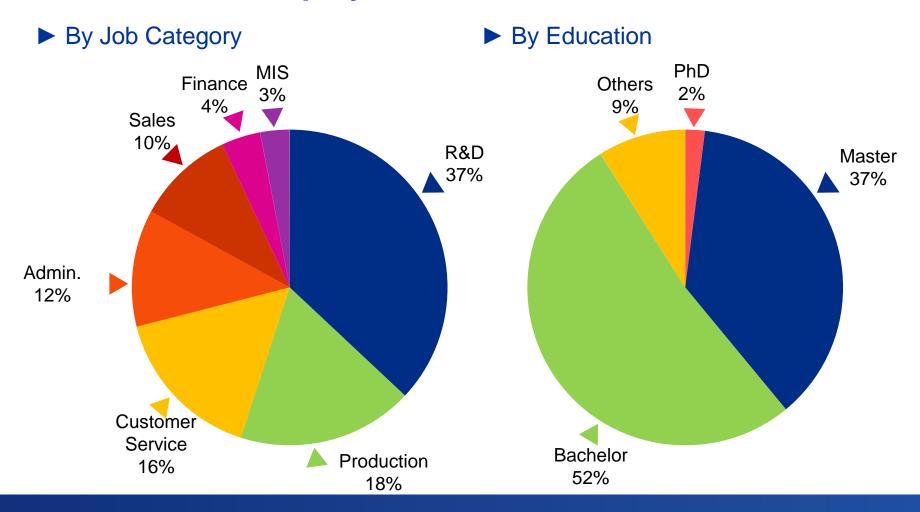
VP Yang, Guang-Hao Undergraduate course of EE Hubei Polytechnic Institute



Senior manager Hung, Ying-Kai MSEE, Chang Gung University

Company Overview

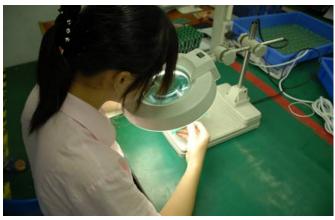
Breakdown of employees



Company Overview

Automated Optical Inspection (AOI)







AOI Technology can be applied in many industries:

► IC \ PCB \ PCBA \ FPD \ Passive \ LED \ Solar \ Textile \ Auto \ Medicine...etc.

Taiwanese listed AOI Companies	Machvision	TRI	Utech	Favite
Ticker	3563	3030	3455	3535
Key Industries	PCB, IC	PCBA	FPD, PCB	FPD
2016 GM%	61.7%	54.7%	49.07%	22.76%
Major Competitors	Orbotech Rudolph	Omron Kohyoung	Takano Kubotek	Takano Kubotek

Company Overview

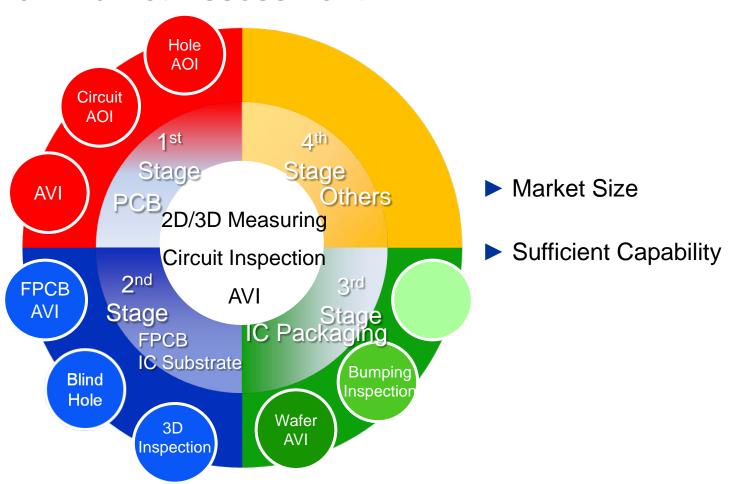
AOI markets used to be pioneered by developed countries

International AOI Peers	Orbotech	Camtek	Screen	Takano
Country	Israel	Israel	Japan	Japan
Key industries	PCB · FPD	PCB · FPD	РСВ	FPD

International AOI Peers	Rudolph	Topcon	KLA-tencor	KohYoung
Country	US	Japan	US	Korea
Key industries	IC	IC	IC	РСВА

Company Overview

New Market Assessment



Our Products



Circuit AOI Series









Circuit AOI

Artwork AOI

LineGauge

Drilling & Routing Measuring Series







Hole AOI

EZ3D

IC Substrate & HDI **Measuring Series**











3D AOI

FC CSP Bump Inspection

Solid Measuring Viewer

Dimple AOI

AVI Series



Auto Final Inspection



FPCB AVI



FC AVI



CSP AFI



COF AVI

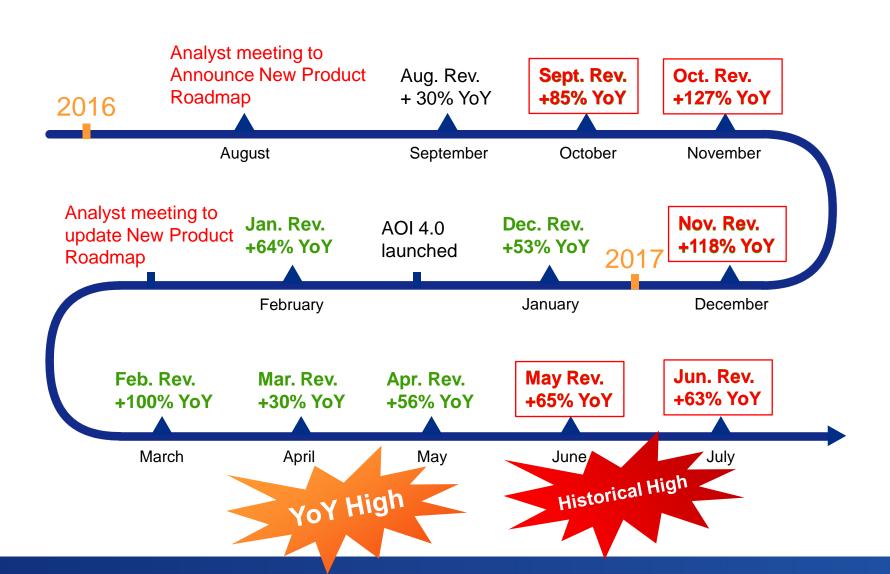


Wafer AVI



Wafer AVI

Break the record in year 2016 and first half of year 2017



Break the record in year 2016 and first half of year 2017



Gross margin and operating profit of 2017Q2 consolidated financial statement are reviewed by CPA

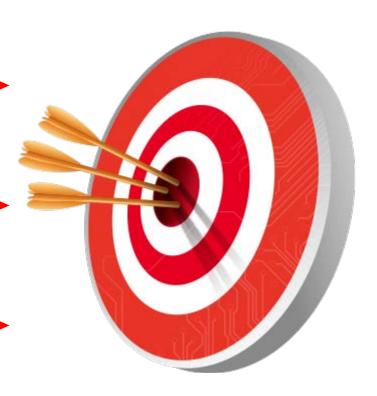
Business Update

"Three Arrows" New Product Roadmap proposed in first analyst meeting in 2016

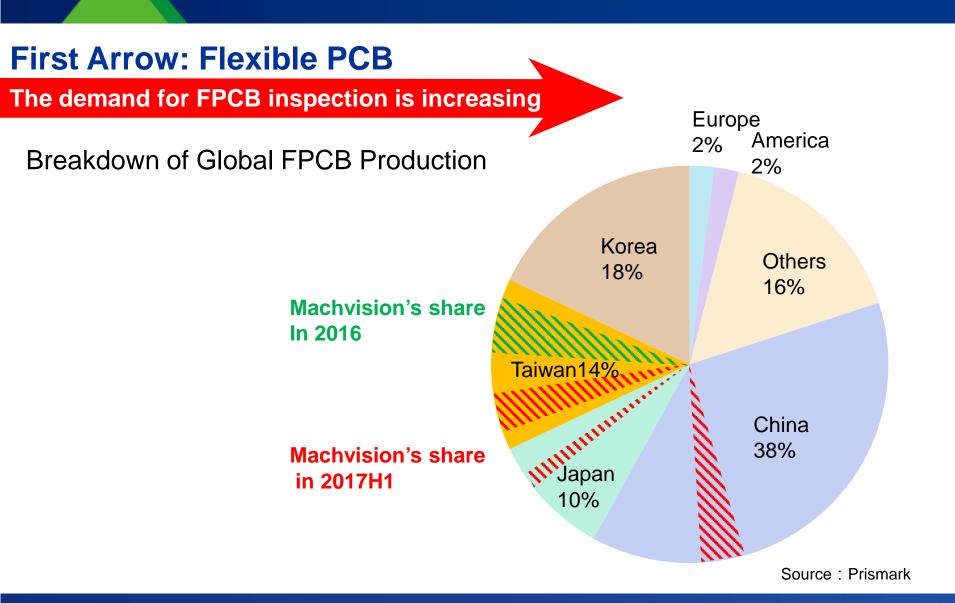
The demand for FPCB inspection is increasing

PCB firms are willing to replace human visual inspection

Huge potential for IC inspection



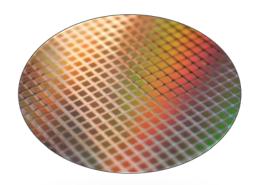
Business Update



Business Update

Second Arrow: IC Inspection

Huge potential for IC inspection



Qualified by leading manufacturer

Channel Deployment

2015.June Wafer AVI 1 Launched 2016.March First shipment 2017.Jan. Qualified by leading manufacturer 2017.Mar. Wafer AVI 2 2017.June Wafer AVI 3

Third Arrow: Automated Inspection

PCB firms are willing to replace human visual inspection

Replacement Demand

1 AOI 4.0 = 7 traditional AOIs + 21 Manpower



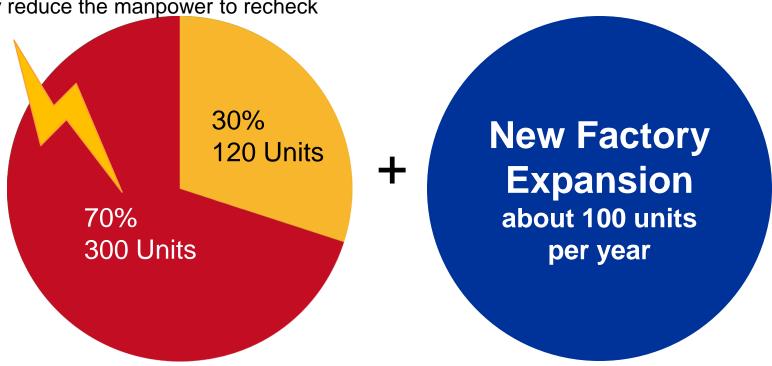


Third Arrow: Automated Inspection

PCB firms are willing to replace human visual inspection

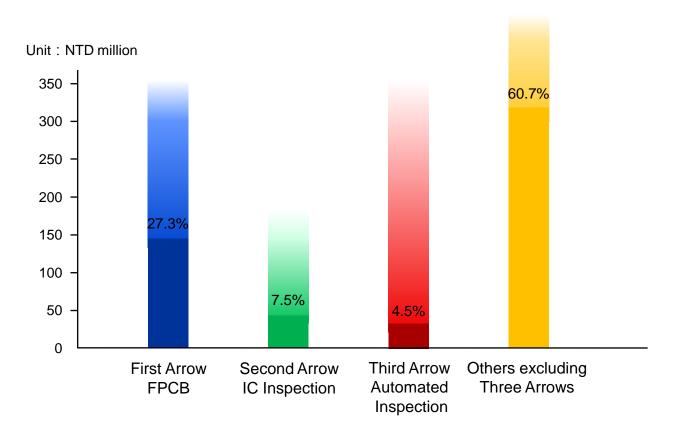
Al Deep Learning

Substantially reduce the manpower to recheck



Revenue Growth of Three Arrows

≥ 2017H1



Business Update

Fourth Arrow: Full Scan System

dimensional measurement used to be sampling before

Automated measurement requirement for FPCB and PCB

estimate about 100 units per year

Qualified by leading manufacturer

Channel Deployment

2017. Feb. Developed

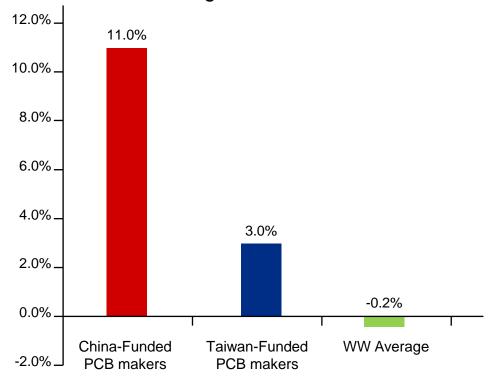
2017. Oct. Launch at TPCA 2018. Jan. First Shipment



Fifth Arrow: New Deployment of Expanding China-Funded Customer Base

Growth Trend of China-Funded PCB Makers

► China-Funded PCB Makers have the highest revenue CAGR from 2011 to 2015

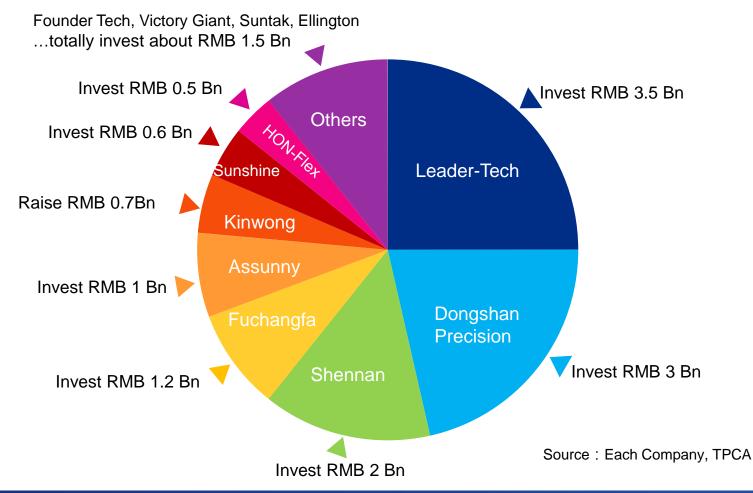


Source: IEK

Business Update

Fifth Arrow: New Deployment of Expanding China-Funded Customer Base

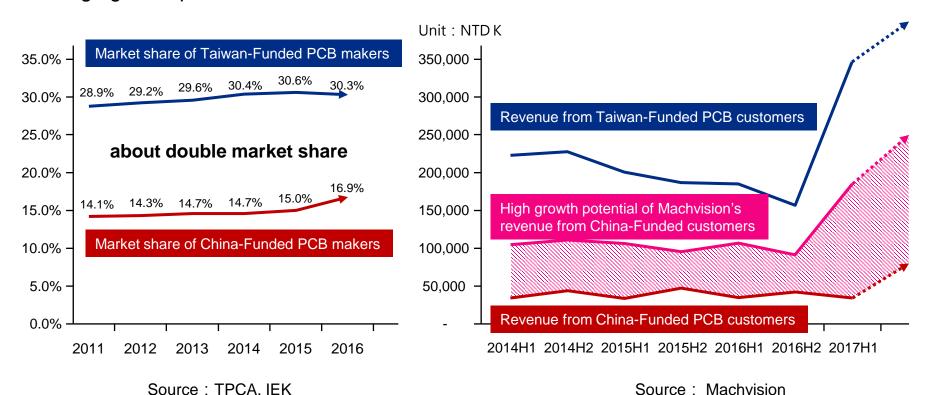
Expansion of China-Funded PCB Makers



Business Update

Fifth Arrow: New Deployment of Expanding China-Funded Customer Base

- ► Growing market share of China-Funded PCB makers in terms of revenue worldwide
- ► High growth potential of Machvision's revenue from China-Funded customers



Business Update

Fifth Arrow: New Deployment of Expanding China-Funded Customer Base

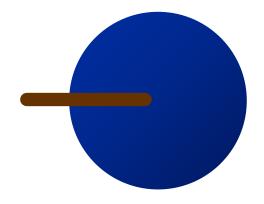
Launch new products for China-Funded customers

Launching new products with reducing 10% manufacturing cost, the gross margin of new products will be still kept more than 55% even if reducing 20% price.



New target market: contribution from Five Arrows in the future

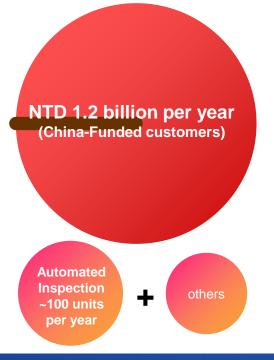
Three Arrows



Fourth Arrow Full Scan System

NTD 400 million
per year
(about 100 units per year)

Fifth Arrow New Deployment of Expanding China-Funded Customer Base



MACHVISION Financials

Unit: NTD K

Item	2017H1	2016	2015	change (2015 to 2016)	%
Revenue	528,325 (MOPS number)	809,631	610,127	199,504	32.7%
Gross Profit		499,269	372,812	126,457	33.9%
Gross margin%		61.7%	61.1%	0.6%	
OP Profit		246,184	182,013	64,171	35.3%
Non-OP		1,002	12,509	-11,507	-92.0%
Net Profit		198,785	158,622	40,163	25.3%
EPS(NTD/share)		4.67	3.72	0.95	

2017/Q1 Income Statement

Unit: NTD K

Item	2017Q1	2016 Q1	Increase (Decrease)	%
Revenue	231,275	146,551	84,724	58%
Gross Profit	146,241	86,878	59,363	68%
Gross Margin %	63.2%	59.3%	3.9%	
OP Expense	61,735	50,323	11,412	23%
OP Profit	84,506	36,555	47,951	131%
Non-OP	-12,064	-5,384	-6,680	-124%
Pretax Profit	72,442	31,171	41,271	132%
Тах	10,010	4,862	5,148	105%
Minority Interest	2,434	-1,487		
After tax Profit	59,998	27,796	32,202	116%
EPS (NTD/share)	1.41	0.65	0.76	

Thank You