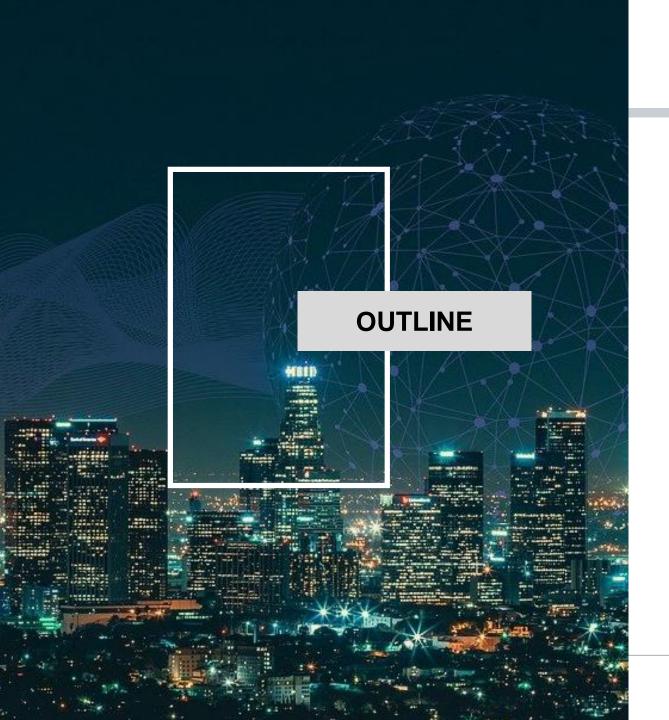




Business Plans and Prospects





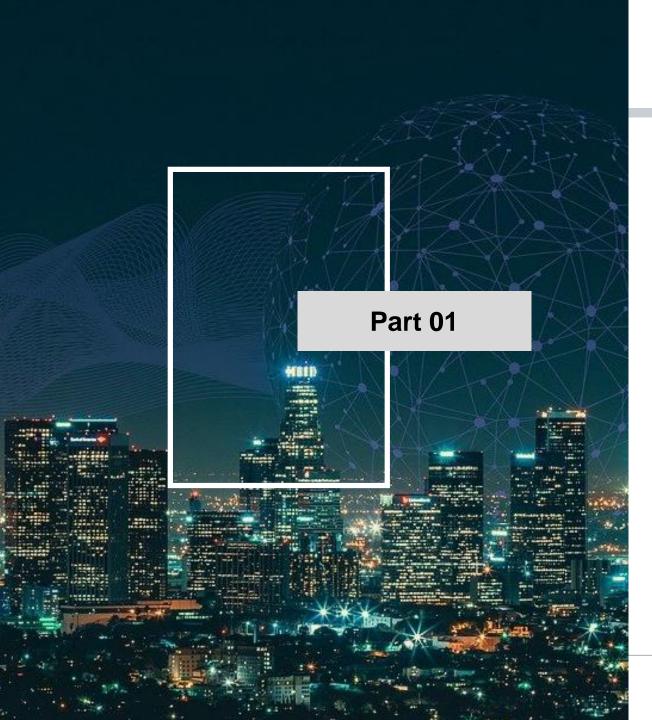
Part 01 Company and Product Introduction

Part 02 Operation Overview

Part 03 Development Strategies & Highlights

Part 04 New Product Plan

Part 05 Vision for the Future





Company and Product Introduction

Company Information



WANSHIH ELECTRONIC CO., LTD.

■ Established: 1987

■ Total Capital: USD 25 Million

■ Employees : 1300 people

■ Chairman: Ringo Chang / CEO: Lake Chang

■ Securities Exchange: 6134.TW

■ Headquarter : New Taipei City, Taiwan



Asahi Tsushin Co., Ltd. Asahi Communications Co., Lte.

Wanshih is a technology integrated company by Taiwan • Wonderful Tech and Japan Asahi.



Wanshih Vietnam (2022)

Staff qty.: 100 / Factory G6 Area 1,107 m²

· Product: External Cable / Internal Cable / Antenna

Capacity Monthly: 1.2KKpcs

Wanshih USA

• Staff qty.: 11 / Area 630 m²

• Application: Internal Cable / Equipment cables

Wanshih Taipei

• Staff qty.: 150 / Area 2,500 m²

 Product: External Cable, Internal Cable, Medical, Automobile cable, and Antenna

• Capacity Monthly: 300Kpcs

Wanshih Suzhou

Staff qty.: 1000 / Area 64,000 m²

 Product : External Cable, Internal Cable, Medical, Automobile cable, Antenna and SMT

• Capacity Monthly: 2.2KKpcs / 535M chip

Wanshih Dongguan

• Staff qty.: 50 / Area 8,600 m²

Product: External Cable, Internal Cable, Automobile cable, and Antenna

Capacity Monthly: 1KKpcs

Wanshih Siyang

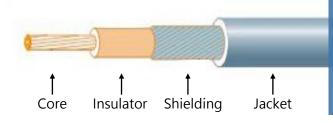
• Staff qty.: 100 / Area 56,000 m²

• Product : External Cable, and Internal Cable

Capacity Monthly: 500Kpcs

Product Type





Micro Coaxial

Extremely flexible and thin like hair





Hook-up Wire (Wire Harness)

Low cost and good in all processing



Professional internal wire processing according to the needs of various application industries.

Applications: Automobile, Medical, TV, NB, Surveillance, Robot.



One-stop customized cable service, which can provide best solutions for cable and connector demand, such as waterproof or high current composite conditions.



Jacket

Core



 High-level professional SMT service for customized wire processing and PCB plate welding processing.

Antenna Design

Professional antenna design and manufacturing with relevant testing equipment, providing customers a best solution.



Internal Cable





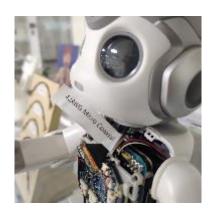
Internal Cable

- Micro Coaxial
- Medical Cable
- Auto-mobile Cable
- Other









Cable for robot



Cable for IP Camera

External Cable





External Cable

- USB 3.1
- HDMI
- Audio
- Lightning MFi
- Waterproof Cable
- Industrial Cable



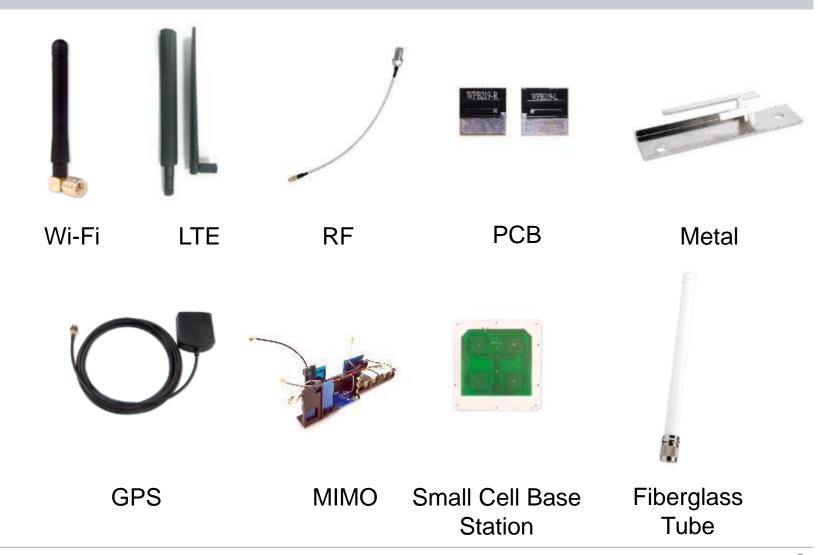
Antenna Design





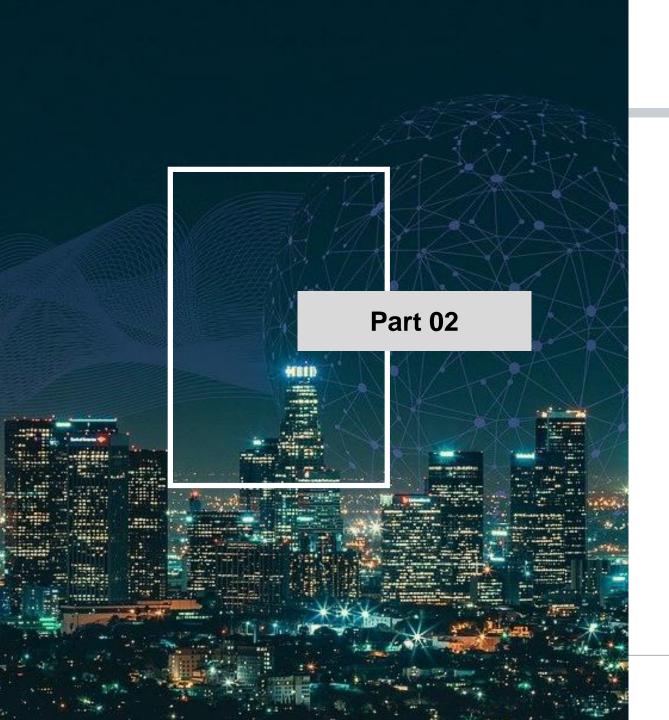
Antenna Design

- Internal Antenna
 PCB/FPC/PIFA/GPS
- External Antenna Indoor/outdoor
- Patch Antenna
- IOT



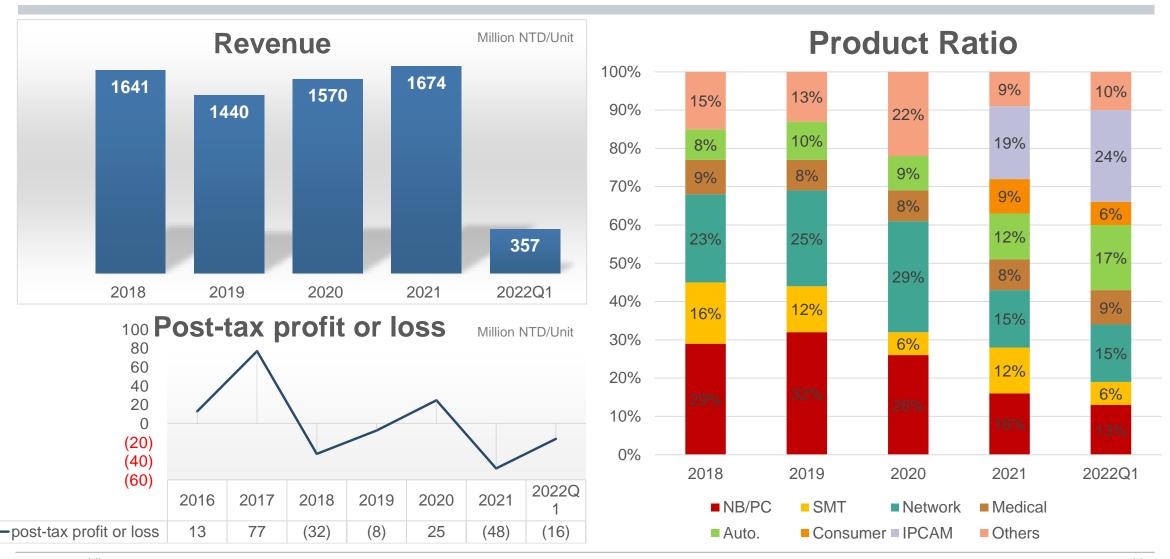


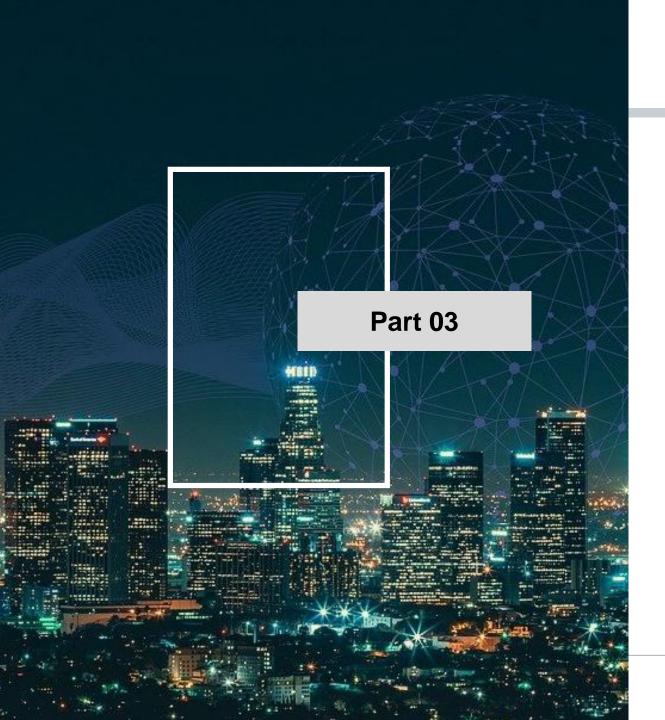




Revenue and Main Product Ratio









Development Strategies and Highlights

Market Positioning



Wanshih DNA

Innovation

(high frequency/high speed/high current)

Transmission

(wire/wireless)

- Precision Machining
- Test & Validation

1. Product Differentiation

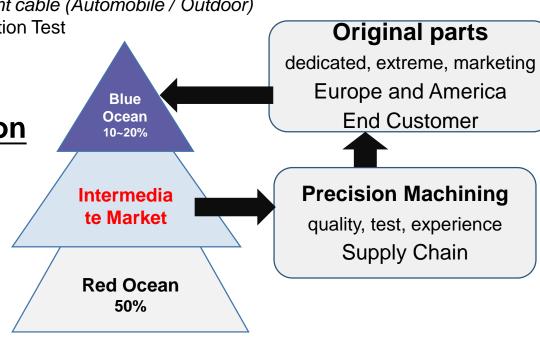
Monitor main cable LVDS & eDP / USB4 / HDMI2.1 (Gaming / Medical / Automobile / Industrial)
 >>> High frequency and high speed & Precision Machining

Waterproof and Water measurement cable (Automobile / Outdoor)
 >>> Precision Machining & Verification Test

mmWave cable(Automobile)
 >>> Wire/wireless Transmission

2. Product segmentation

- Targeting Intermediate Market
- Heading toward Blue Ocean
 (Medical / Aerospace / Military)



Development - Production Sites and Regional Revenue



Shift Production site		Past	2022 Now	2025 Future
Scale: large		Suzhou, CN	Suzhou, CN	Haiyang, VN
		Siyang, CN	Haiyang, VN	Suzhou, CN
		Dongguan, CN	Taiwan	US
Scale:	small	Taiwan	US	Taiwan

Regional	Past	2022	2025
Revenue		Now	Future
Revenue ratio	Greater China	Greater China	Greater China
	+ Japan	+ Japan	+ Japan
	85%	79%	55%
	Europe and	Europe and	Europe and
	America	America	America
	15%	20%	30%
		Southeast Asia 1%	Southeast Asia 15%



Development - Industries



Industry Direction		Past 2022 Now		2025 Future
Revenue: High		Netcom & Industrial	Netcom & Industrial	Automobile
		Surveillance	Surveillance	Medical
		Computer	Automobile	High frequency I/O
			High frequency I/O	Netcom & Industrial
	,		Medical	Surveillance
Revenue: Low			5G&6G	6G LEO



Change in Quantity / Quality Improvement Create High Adding Value



Spec	LVDS Cable				
	Industry	Price	Markup Rate (%)	WHY ME?	
Application	Smart Healthcare	180	100%	Safety and reliability of entering human body	
Application	Automobile /Industrial /Gaming	120	40%	High frequency precision machining	
	Consumer Electronics NB	80	10%	Red ocean market	



Highlights - High Frequency Display

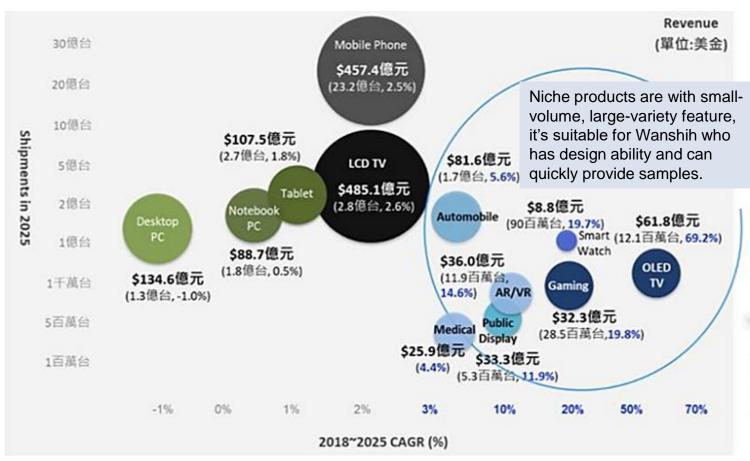




- Multi-screen vehicle
- Smart healthcare basis Medical imaging
- Gaming high specification
- Smart home with IoT
 >>> Smart Retail

High Frequency Display (niche monitor) Healthcare





新興應用產品





Ultrasound Monitor



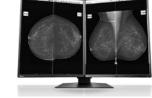
Clinical Monitor











Physiologic Monitor







2025 年全球顯示器市場轉由利基產品帶動產業朝新興應用發展

資料來源: IEK Consulting, 行政院科技會報辦公室整理, 2019年10月

Niche monitor – Automobile/Gaming



Era for Multi-display in Vehicle





 1440p 360Hz - The new gaming display standard (60>144>240>360Hz) 360Hz



2016~ (單位:千輔	- TO -	全球電動	車銷售量	2021年增	曾率逾9成 YOY= 91%/	6,006
	794 55	% 1,227 ⁶⁴	% 2,018 9	% 2,200 43	3,146 39.6% 43.4%	36.6%
	2016	2017	2018	2019	2020	2021
中國	336	578	1,053	1,060	1,246	2,920
■歐洲	209	289	384	564	1,365	2,200
美國	158	200	359	325	326	640
■日本	22	56	52	44	32	38
■其他	68	104	170	207	178	208

註

- 1.中國雙積分制,2020年車廠總生產量中,新能源車積分比重為12%,2021~2023年比重提升至14%、16%、18%。
- 2. 包括純電動車(BEV)及插電式混合動力車(PHEV),不含混合動力電動汽車(HEV)。
- 3. 指乘用車,不含電動巴士及卡車等商用車。

資料來源:各國汽車協會、汽車製造商協會、DIGITIMES Research, 2021/11

According to the latest research report of IDC, global gaming PC and monitor shipments will continue growing faster than the parent market, and will maintain steady growth over the next few years. The shipments of gaming PCs (including desktops and laptops) will grow from 41.3 million units in 2020 to 52.3 million units in 2025, CAGR(Compound Annual Growth Rate) is 4.8%. And gaming monitor shipments are expected to reach 26.4 million by 2025, up from 14.2 million in 2020, CAGR is 13.2%.

Medical Ultrasound



- Cable of ultrasonic probe to system
- Micro coaxial cable assembly
- Dimension and accuracy requirements
- Biocompatibility
- Relevant tension and breaking tests

EMC/EMI solution

Global ultrasound equipment market scale is US\$7.2 billion in 2021. It is expected to expand at a compound annual growth rate of 4.73% from 2021 to 2027, reaching US\$9.5 billion by 2027. Recently, the demand for portable ultrasound has been added due to mobile healthcare.





Endoscopy (disposable type)



- Micro coaxial cable assembly
- Dimension and accuracy requirements
- Biocompatibility
- Relevant tension and breaking tests
- EMC/EMI solution



手持保健與診斷器材

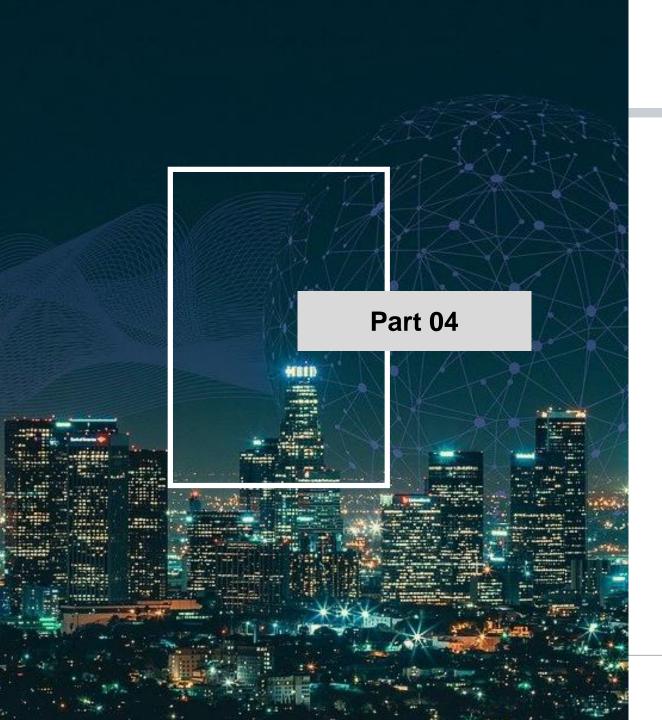


篩檢與診斷攝像器材



影像診斷器材







New Product Plan

New automotive market Light Electric Vehicle / Electric Bike





Electronic system = driver +



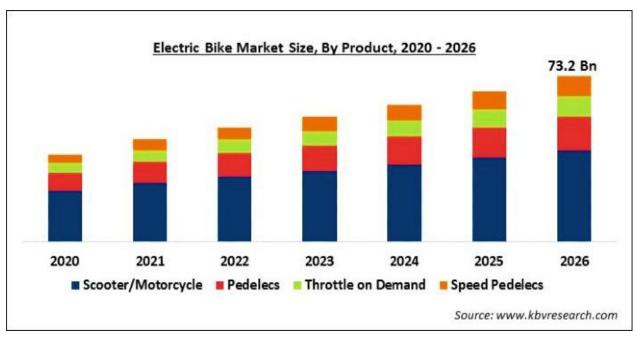
Battery system = charge/discharge cable set + battery



HMI



Estimate revenue ratio in 2022: 5\$



The global e-bike market is expected to reach \$73.2 billion by 2026, the compound annual growth rate will be 11.2% in the period.

Converted into cable opportunities, it is expected to have NTD4 billion market demand in 2026, the target of 0.1 billion this year still has a lot of room for growth.

Types of Automotive cables





ADAS (Advanced Driver Assistance Systems)

- BSD (Blind Spot Detection) PA (Parking Aid)
- LDWS (Lane Departure Warning System)
- DMS (Driver Monitoring System)
- NV (Night Vision system)
- ACC (Adaptive Cruise Control)

Central Control System / V2X

- TBOX
- · Entertainment system
- · Dashboard / Control monitor
- Head-up Display

EV Power Cable Set

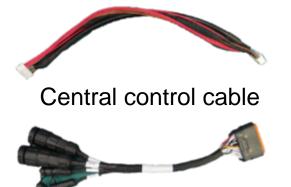
- BMS (Battery Management System)
- High Voltage Shielded
 Wire Harness

Customized cables - Central Control System / V2X





HUD Head-up display cable



LCD dashboard cable



Video cable



Host system cable TBOX cable



Customized Cables – mmWave Wire Harness





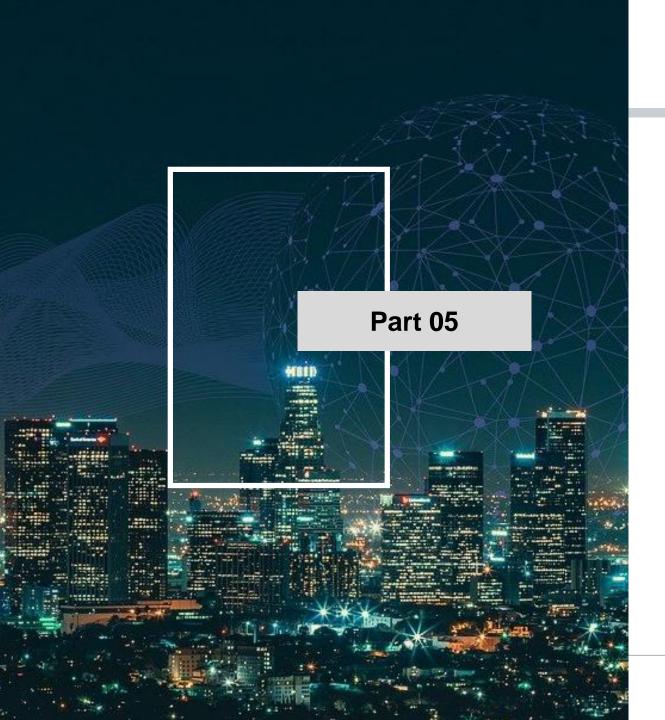
Global New Energy Vehicle Market Overview





- 1 Deloitte study estimates that the total number of electric cars sold is expected to grow from 2.5 million in 2020, to 11.2 million in 2025, then reaching 31.1 million by 2030.
- 2 Foxconn Chairman Young Liu said the output value of EV is anticipated to reach 600 billion US dollars in 2025 at a CAGR (compound annual growth rate) of 25-30%.

According to the estimated total of 11.2 million vehicles in the global auto market and new energy vehicle market in 2025, to calculate based on vehicle cable (150~350USD/car), the market demand for cables exceeds NTD 50 billion, and NTD 1 billion would be Wanshih's target for middle to long term prospective.





Vision for the Future

Growth Rate by Product Category



	Year 2020		Year 2021		Q1 2022	
Product Category	Share	Gross Margin	Share	Gross Margin	Share	Gross Margin
Surveillance	17%	20%	19%	21%	24%	19%
Netcom & Industrial	14%	29%	15%	24%	15%	18%
Automotive electronics	9%	9%	12%	15%	17%	14%
Medical	8%	35%	8%	29%	9%	30%
PC/NB	28%	15%	16%	10%	13%	5%
Others	25%	13%	30%	10%	23%	3%
Total	100%	18%	100%	16%	100%	14%
Automobile annual percentage		%	12	2%	17	' %
Medical annual percentage	8%		8%		9%	

 Automobile / Medical industry Wanshih two mainstay

Rapid growth ~ 2025

Key investment items



- Vietnam factory >>> Maintain competitiveness and stable output
- US production line for quick sample build and service expansion >>> Close to end markets and quick turnaround.
- Chamber for full Antenna Test >>> OEM to ODM Technology upgrade
- Automobile / Medical / 6G / AI / AR related production and test verification equipment
 >>> Wanshih DNA

Wanshih Support industry continuous innovation with precision machining



	Positioning	Competitive Advantage	Key target industries	Crucial Strategies
1987 ~ 2000	Labor-intensive	Japanese management style	Home appliances, monitors	Set up factories in China
2001 ~ 2010	Capital-intensive	Development of automation equipment	NB、3C	Scale expansion
2011 ~ 2020	Technology-intensive	High frequency design technology	Security, industrial	Focus on industry
2021 ~	Value Net Coopetition	Resource integration, innovative learning	EV, future medical care	Private placement, Startup

- Enter the Era of Coopetition: Transition from traditional supply chain relationship for Cost
 Down -> strategic alliance with competitors for Value Up
- Precision machining DNA + Innovative learning Mindset = Wanshih 2.0
- Profitable ESG Sustainability: EV, future medical care
- Promise a future: Re-evaluate Wanshih's innovative value in the future industry





Cherish every opportunity to serve and do it well

sales@wanshih.com.tw