



台灣區電機電子工業同業公會

Taiwan Electrical and Electronic Manufacturers' Association

Sustainability

Innovation

Professionalism

Service

Introduction of Taiwan Electrical and Electronic Manufacturers' Association (TEEMA)

Roger Liao
Vice President of TEEMA
2023/10/12

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- ICT Industry in Taiwan
- TEEMA members in Europe
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ABOUT TEEMA



ABOUT TEEMA

- TEEMA stands for Taiwan Electrical and Electronic Manufacturers' Association
- Founded in 1948
- 3,006 members with a total of approximately 783,430 employees
- One of the eight largest national industry trade groups in Taiwan
- Bridge government with members by coordination, communication and addressing the opinions and concerns of the E & E industry



Source : TEEMA, 2023

TEEMA LEADERSHIP

Mr. Richard Lee
Chairman
[Inventec]



Mr. Young Liu
Convener of Supervisors
[Foxconn]



Mr. Cheng Fu Hsiong
Vice Chairman
[Ruei Lin Electric & Engineering]



Mr. Paul Liao
Vice Chairman
[China Electric Mfg. Corp.]



Mr. Jerry Hsu
Vice Chairman
[AcBel Polytech Inc.]



TEEMA BOARD COMPANIES

Inventec

EVERLIGHT



工業技術研究院
Industrial Technology
Research Institute



Unitech

acer



LITEON
光寶科技



SANLUX
台灣三洋



Panasonic



凌羣電腦
THE SYSCOM GROUP

Getac

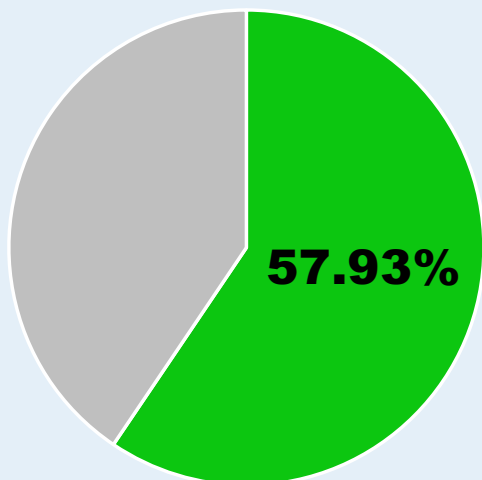


Source : TEEMA, 2022

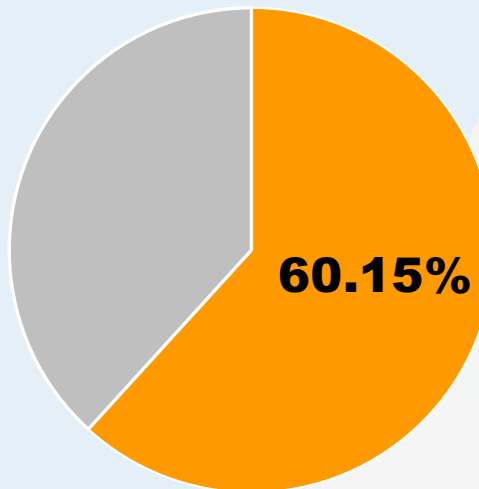


INDUSTRIAL PERFORMANCE

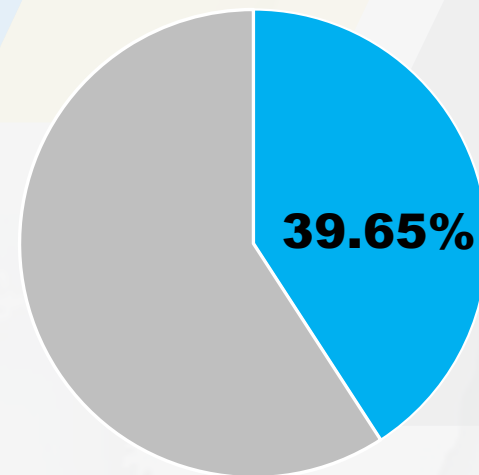
Production Value in 2022



Export Value in 2022



Import Value in 2022



Comparison	Production Value	Export Value	Import Value
Taiwan	US\$601,621.15	US\$446,447.85	US\$381,166.73
E/E Industry	US\$348,533.86	US\$268,524.10	US\$151,120.32

➤ Taiwan's E&E Industries includes sectors from the upper, mid to down stream

Unit: Million
Source : TEEMA, 2022



TEEMA MEMBERS' STRUCTURE

Products	Number of Members	Capital(NT\$)	Number of Employees
1 Heavy Electric Machinery	617	446,054,958,419	140,596
2 Refrigeration and Air-Conditioning Equipment	93	102,996,510,020	40,197
3 Household Electric Appliances	137	126,771,429,680	46,401
4 Computers and Peripherals	408	686,718,749,718	293,954
5 Communication Equipment	412	533,465,912,605	289,508
6 Test and Measuring Instrument	424	262,204,097,736	115,737
7 Electronic Finished Products	624	532,441,659,694	305,588
8 Electric Wires and Cables	200	128,801,413,780	75,688
9 Illumination Devices	207	137,250,794,630	41,905
10 Electric Devices and Apparatus	356	199,909,900,543	68,745
11 Semiconductors	181	446,019,177,713	203,275
12 Optoelectronic Products	185	484,365,584,320	239,837
13 Electronic Components	1,113	950,256,751,532	428,176
14 Batteries	210	210,770,363,060	144,008
15 Automobile Electronics	142	289,344,011,540	72,979
16 Other Products	387	436,642,430,088	208,178

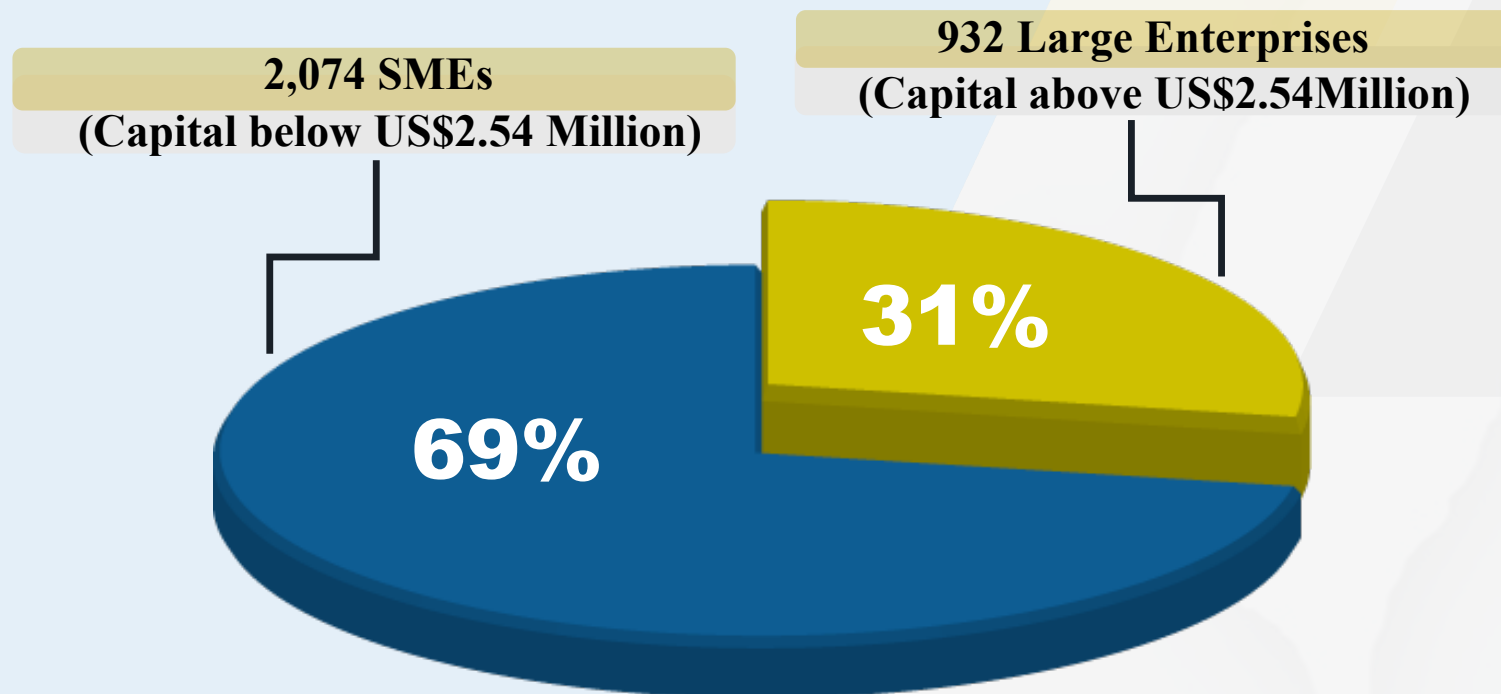
1. Total Number of Members: 3,006

2. One company may produce various products; therefore, the calculation may be overlapping. (US\$1=NT\$30.156)

Source : TEEMA, 2022



TEEMA MEMBERS' STRUCTURE



Source : TEEMA, 2022

OUR COMMITTEES

High-Level Leadership Committees

1. Innovation Committees
2. Industrial Policy Committee
3. Industrial Development Committee
4. International Economic & Trade Committee
5. Mainland China Economic & Trade Committee

Industrial Committees

1. Heavy Electric Machinery Committee
2. LED and Illumination Devices Committee
3. Energy Management and Storage Committee
4. Flat Panel Display Committee
5. Electronic Components Committee
6. Household Electric Appliances Committee
7. Semiconductors Committee
8. EV Committee
9. PCB Committee

Project Committees

1. Standards and Safety Committee
2. Digital Transformation Committee
3. Supply Chain Management Platform Service Committee
4. Information Security and Ecosystem Committee

Innovation Committees

1. Information and Communications Committee
2. Smart Solutions Committee
3. Metaverse Committee
4. Youth Innovation Committee

OUR INDUSTRIAL ALLIANCES



**Taiwan Autotronics
Collaborative Alliance**



**Taiwan Energy Storage System
Industry Promotion Alliance**



ST Make+ Alliance



Taiwan UAV Alliance



**5G Alliance for Industry
Innovation and Development**



**Communications Industry
Alliance**



**Smart Living Industry
Promotion Alliance**



**Taiwan Vehicle Team
(Taiwan V-Team)**

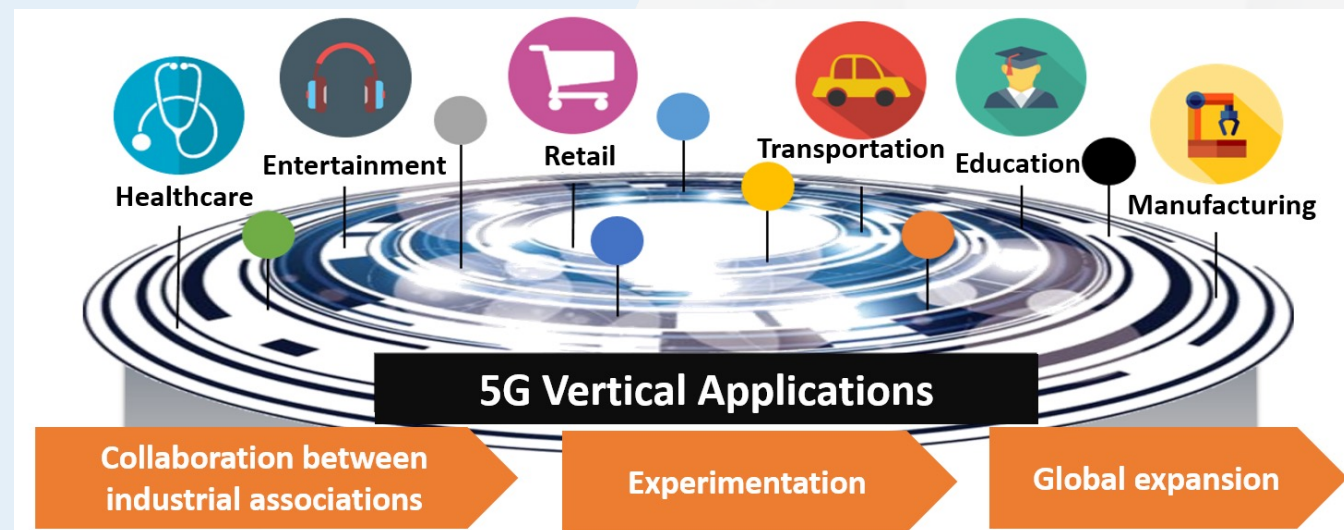


Source : TEEMA, 2023

TEEMA'S "5G ALLIANCE FOR INDUSTRY INNOVATION AND DEVELOPMENT"

Objectives:

- Connect relevant international organizations and enterprises
- Promote the development of Taiwan's 5G supply chain
- Expand business to global markets



Source : TEEMA, 2023



V-TEAM DEVELOPMENT STRATEGIES

- **Follow up**

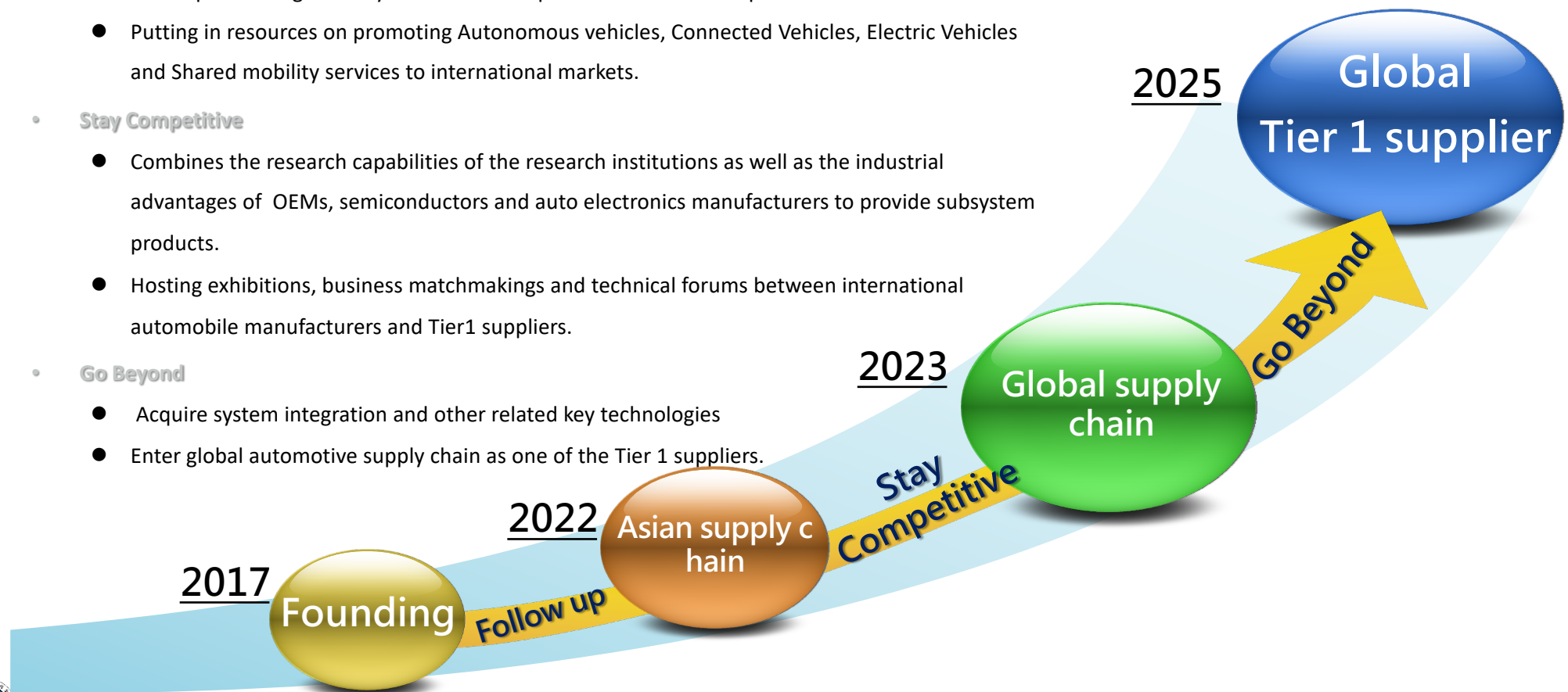
- Develop and design new systems based on present demands and possible future needs.
- Putting in resources on promoting Autonomous vehicles, Connected Vehicles, Electric Vehicles and Shared mobility services to international markets.

- **Stay Competitive**

- Combines the research capabilities of the research institutions as well as the industrial advantages of OEMs, semiconductors and auto electronics manufacturers to provide subsystem products.
- Hosting exhibitions, business matchmakings and technical forums between international automobile manufacturers and Tier1 suppliers.

- **Go Beyond**

- Acquire system integration and other related key technologies
- Enter global automotive supply chain as one of the Tier 1 suppliers.

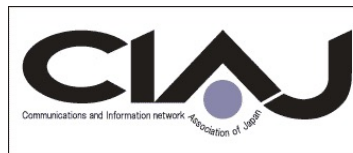


WORLDWIDE PARTNERS



PARTNER ASSOCIATIONS

Asia & Oceania



မြန်မာနိုင်ငံ ကွန်ပျူတာ အသင်းချုပ်



PARTNER ASSOCIATIONS

Europe & Africa

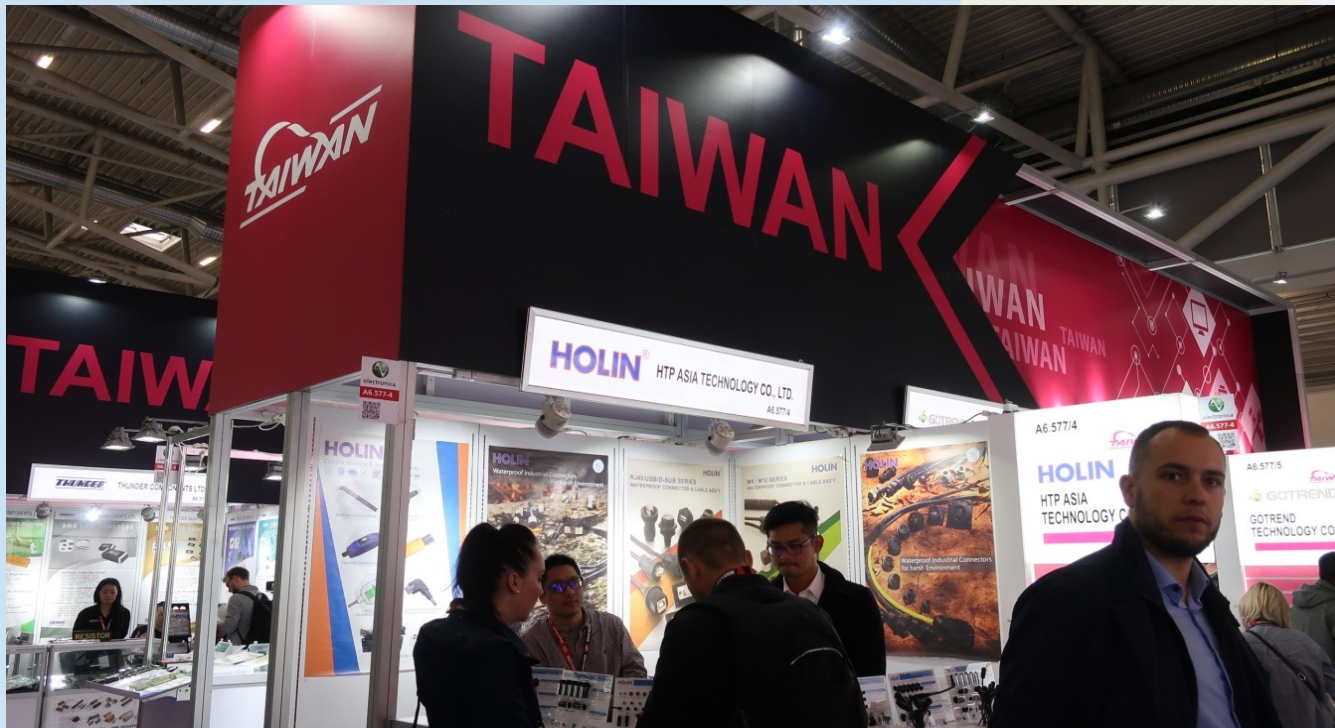


America



TAIWAN PAVILION AT GLOBAL EXHIBITIONS

» About 80 exhibitions in 20 countries every year



LINK WITH INTERNATIONAL ALLIES-CZECH REPUBLIC



WEBSITE SERVICE

Official website
www.teema.org.tw

E-weekly

38,000 subscribers

1. TEEMA members
2. Seminar participants
3. Exhibitors
4. Online subscribe

TEEMA B2B

For international and domestic buyers to search on Taiwan's electrical and electronics, ICT products and components

TEEMA Industry Website

Database of LED industry, Automotive electronics industry and communication industry

Smart Living Website

Latest development and applications of the ICT products

Green e-Service Platform

Offering environmental related information and activities.

E-Procurement Service in Kunshan

Currently there are more than 30 large corporations as buyers joining the platform.



DIGITAL TRANSFORMATION

Key Industries

Electronic Components

Networking and Communication

Semiconductors

,etc.

Demand (TEEMA Members)

- New Business Models
- Smart Manufacturing
- Increase benefits at lower costs
- Global Competitiveness

New Industrial Environment

Cloud Services

Vertical Integration

Big Data Analytics Service

Data Connection Service

Edge Computing

New B2B
Platforms

Supply (Collaboration between TEEMA A & Other Institutions)

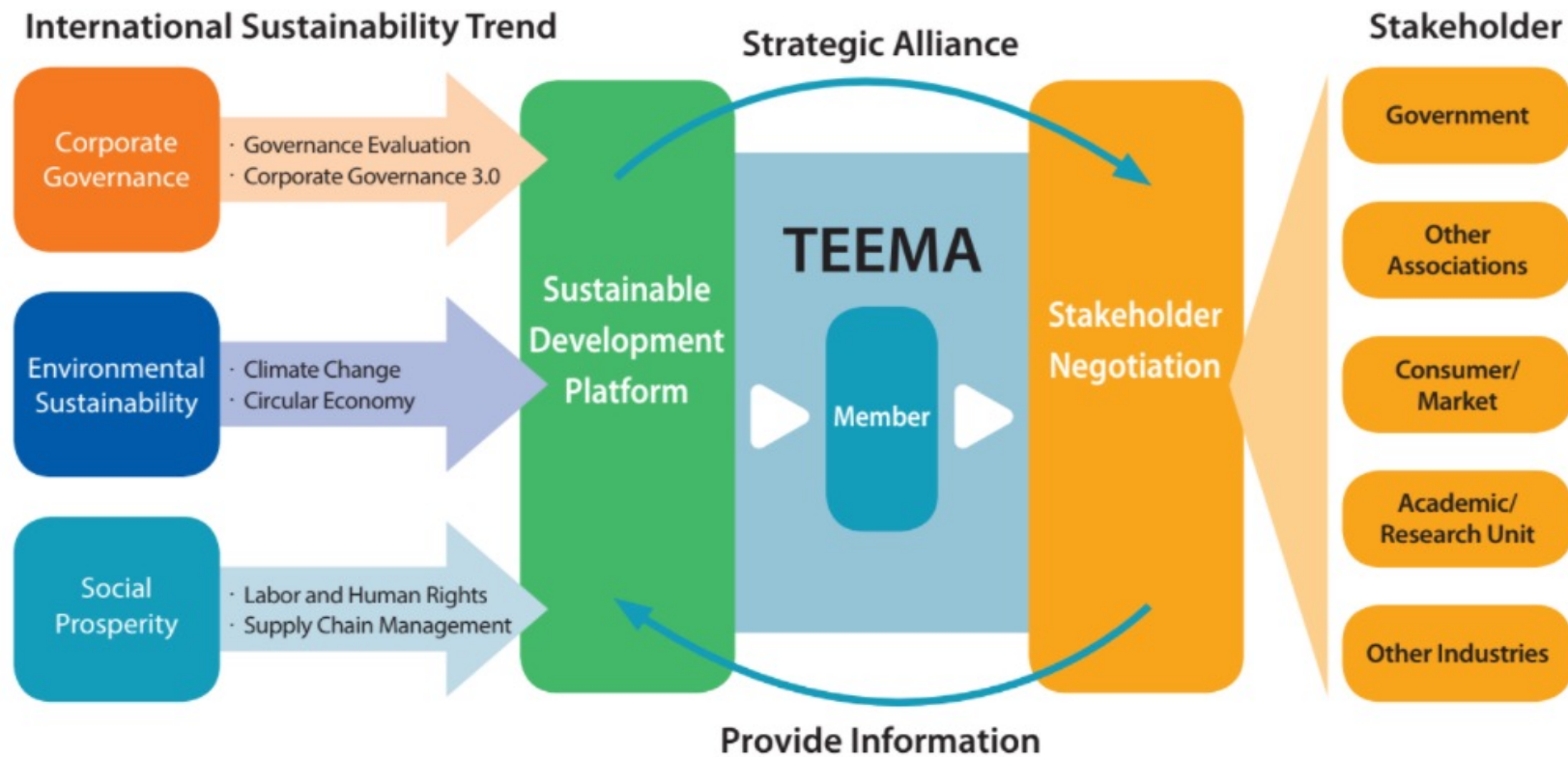
- AI
- 5G
- IoT
- Cloud Computing
- Technology Solutions

Manufacturing Process
Digital Optimization



SUSTAINABILITY

TEEMA Blueprint of Sustainability Strategy



ICT INDUSTRY IN TAIWAN



ABOUT TAIWAN

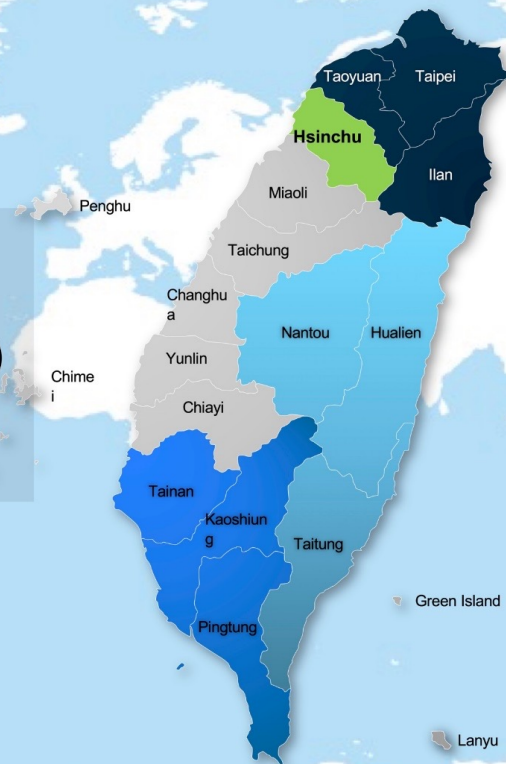
Taiwan at a glance

Size: 3600 KM²

Population: 23M

GDP(Nominal): \$US790B(21st)

GDP per capita: US\$33,907



FROM TRADITIONAL MANUFACTURING TO HIGH-TECH

From traditional manufacturing to High-tech, Taiwan's products possess many Worldwide Top1



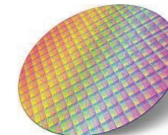
Golf Head
83%



High-end Bike
31%



PND
53%



IC Foundry
77%



Mobile Lens
43%



Functional Fabric
71%



WLAN
66%



PC/NB/Pad
54%, 78%, 40%



PCB
32%



Mother board
80%



SERVER
40%*



Source: Industry, Science and Technology International Strategy Center (ISTI), ITRI

ICT INDUSTRY IN TAIWAN

Taiwan's High-Tech Companies dominate the EMS(electronics manufacturing service) market to support the global electronics demand

EMS



PEGATRON
和碩聯合科技



wistron



IC Design

英業達
Inventec



Qisda



ADVANTECH



TFT/LCD Panel



友達光電

INNOLUX
群創光電



ICT INDUSTRY IN TAIWAN

Taiwanese IT Brands also create their reputation in various domains

PC/NB

acer

ASUS

GIGABYTE[™]
TECHNOLOGY

BenQ

 **msi**

Networking

D-Link

Accton

ZYXEL
NETWORKS

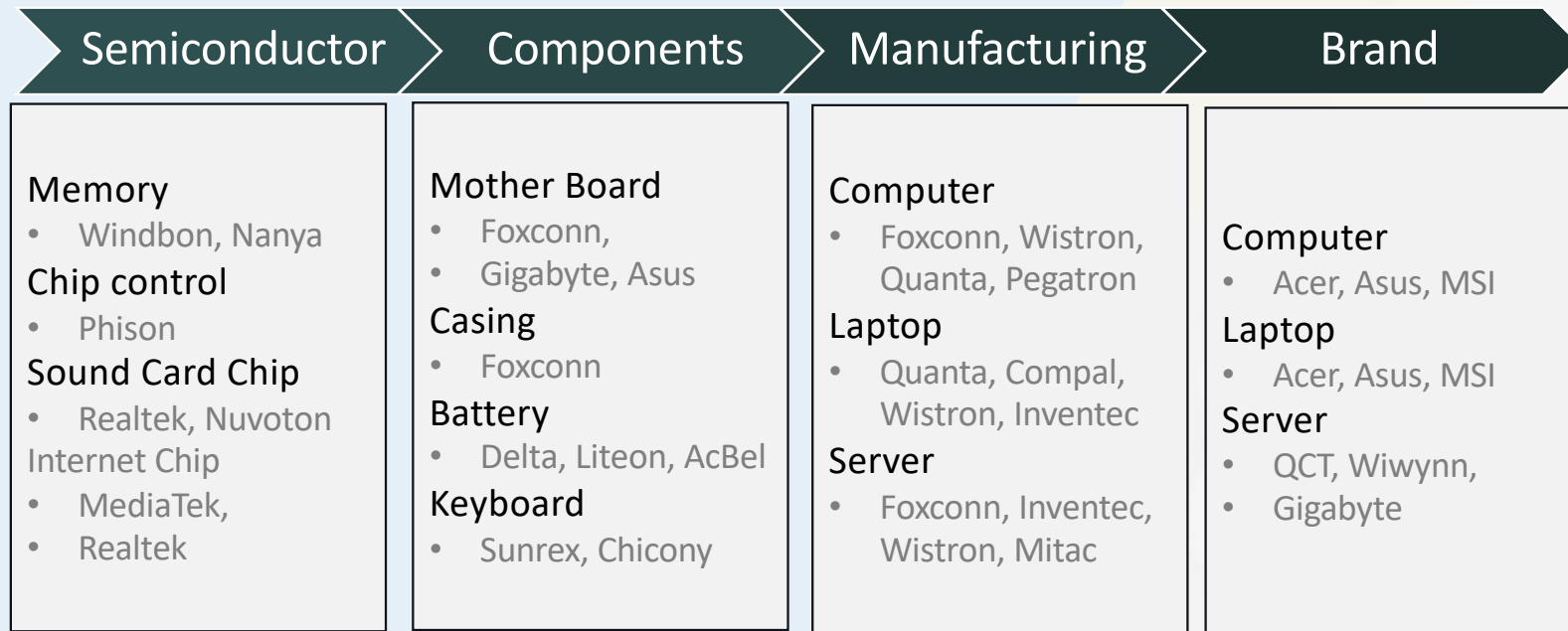
Others

 **Transcend**[®]

 **ADATA**

htc

OUR COMPLETE ICT SUPPLY CHAIN

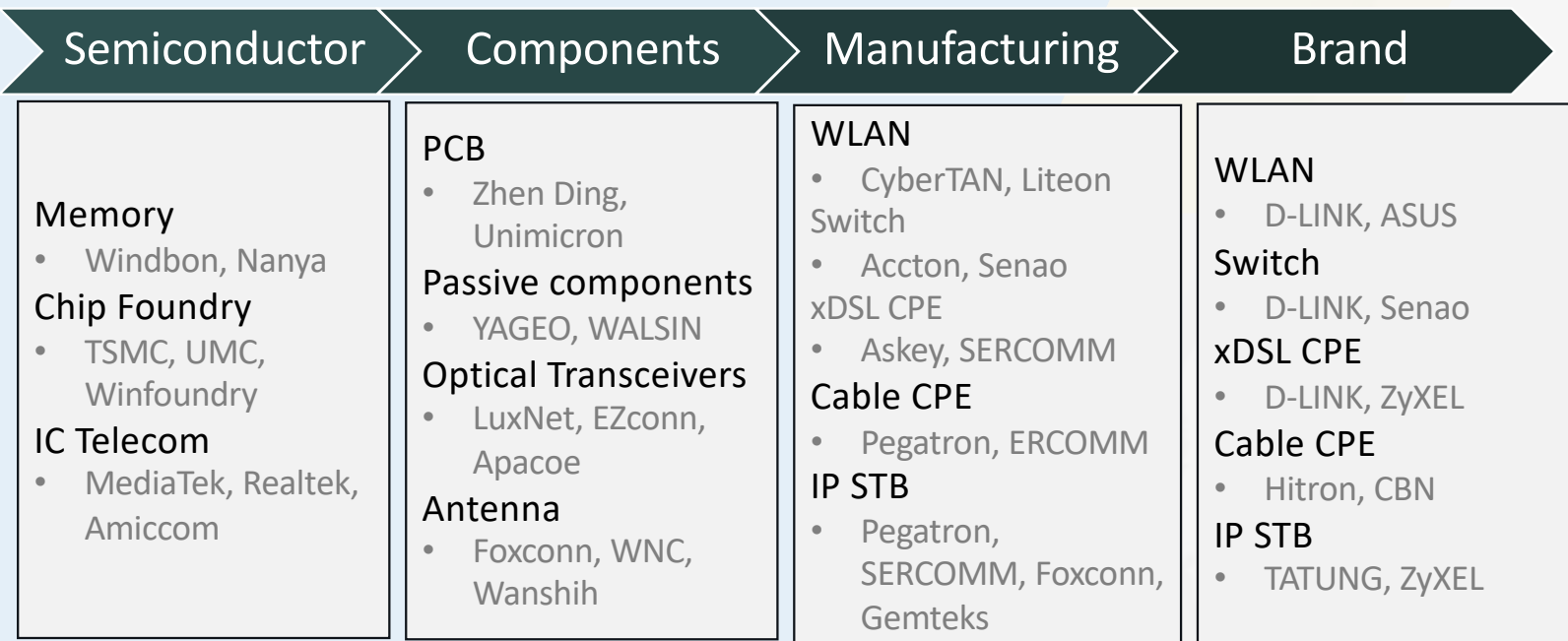


- Taiwan's key component manufacturers (Delta, LITE-ON, etc.) all have excellent R&D and manufacturing capability.
- Assembly plants (Foxconn, Compal, Wistron, Inventec, Pegatron ,etc.) have advantages such as global strategic planning capability, great relations with clients, high quality workers, and economies of scale.

Source : MIC, 2022



OUR NETWORKING PRODUCT SUPPLY CHAIN



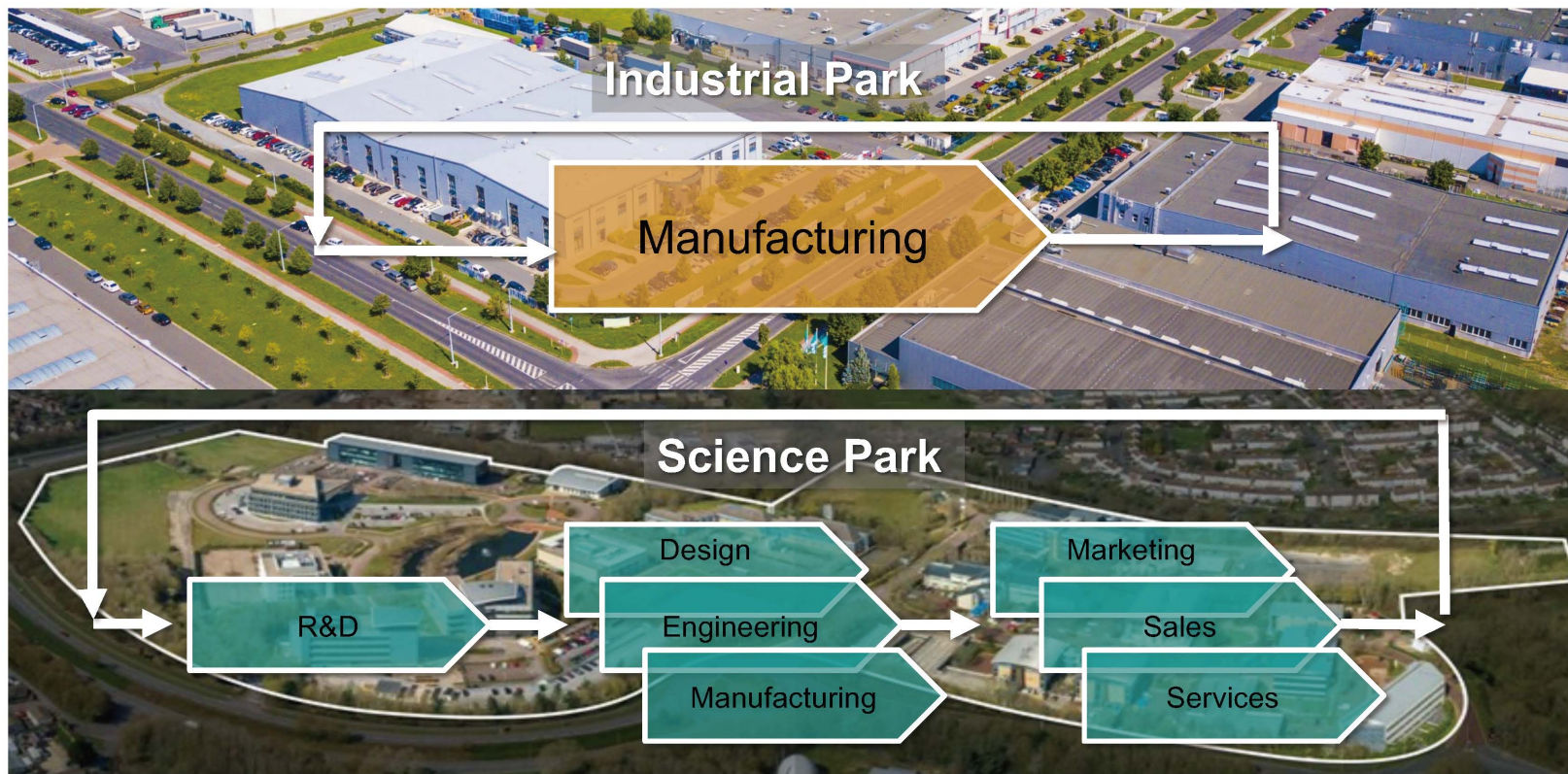
- 90% of cable modems worldwide
- 60% of xDSL modems worldwide
- 50% of WLAN NIC worldwide

Source : MIC, 2022



OUR NETWORKING PRODUCT SUPPLY CHAIN

Science Park integrates the whole lifecycle of technology product



Source: Industry, Science and Technology International Strategy Center (ISTI), ITRI

TAIWAN'S SCIENCE PARKS

Taiwan's Science Parks Play the critical role in the global hi-tech supply chain and have huge contribution to the domestic economy

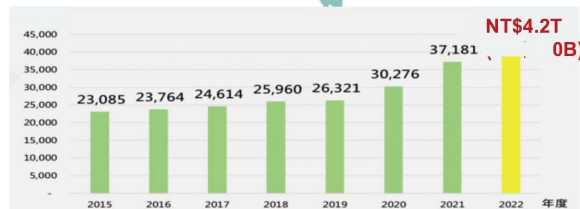


Vision

Inspiring a pilot Innovation and entrepreneurial science park.

Mission

Keeping technology innovation and turning the science park into the most competitive high-tech cluster in the world via bring-in of emerging entrepreneurs and interdisciplinary talent.

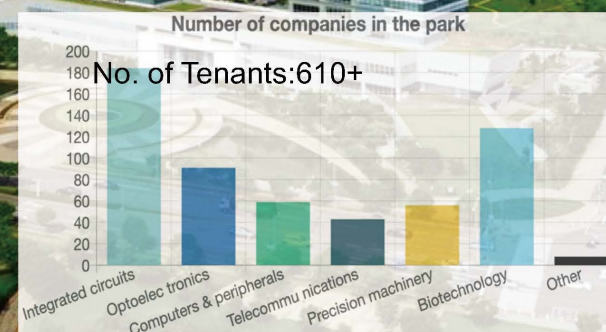
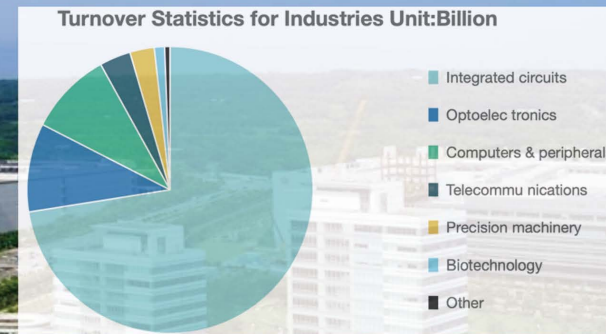


Source: Industry, Science and Technology International Strategy Center (ISTI), ITRI

OUR NETWORKING PRODUCT SUPPLY CHAIN

Hsinchu Science Park

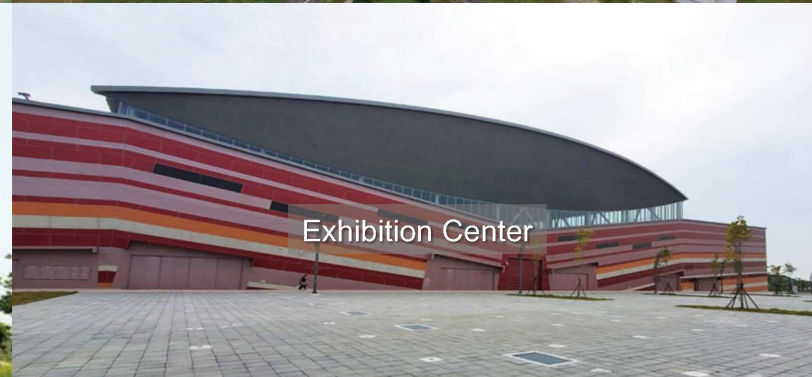
Area: 1,471 Hectares



Source: Industry, Science and Technology International Strategy Center (ISTI), ITRI

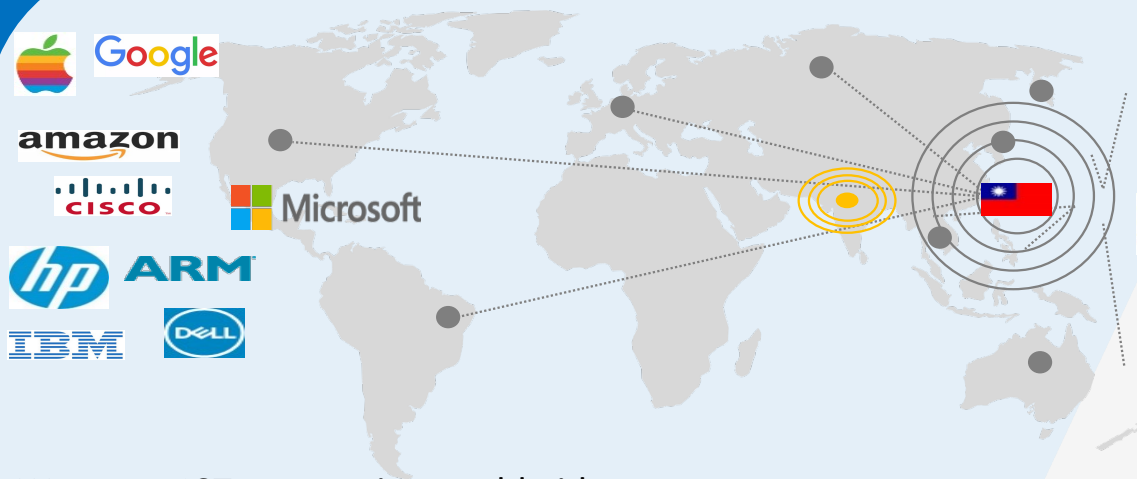
OUR NETWORKING PRODUCT SUPPLY CHAIN

Science Park development towards to advance technology living lab



Source: Industry, Science and Technology International Strategy Center (ISTI), ITRI

TAIWAN'S SEMICONDUCTOR INDUSTRY



We serve ICT companies worldwide.
8 of the world's top 50 semiconductor companies are from Taiwan.

Semiconductor Applications



Taiwan in the world ranking
of semiconductor industry:

No.2

in terms of Production Value

No. 1

in Foundry Model

No. 1

in Integrated Circuit (IC) Packaging and Testing

No. 2

in Integrated Circuit (IC) Design

No. 4

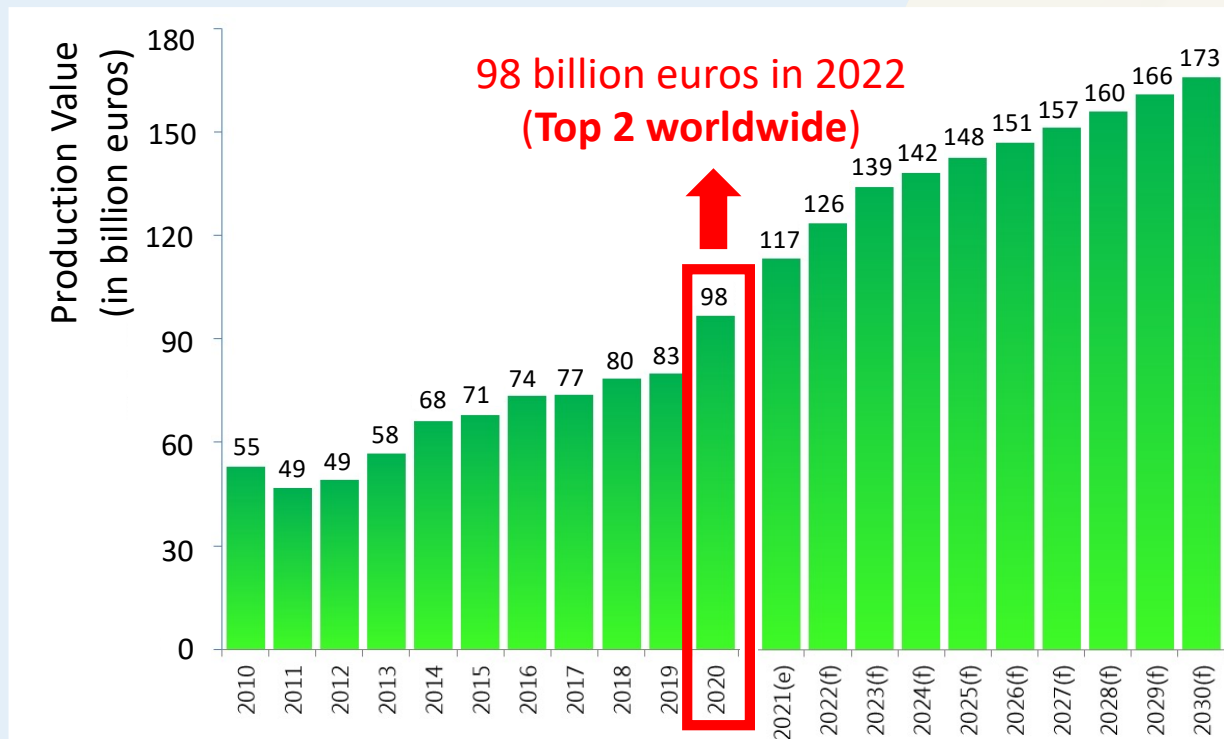
in Semiconductor Memory



Source: Industry, Science and Technology International Strategy Center (ISTI), ITRI

PRODUCTION VALUE OF TAIWAN'S SEMICONDUCTOR INDUSTRY

Annual production value of Taiwan's semiconductor industry (in billion euros)



Source: Industry, Science and Technology International Strategy Center (ISTI), ITRI

TEEMA MEMBERS IN EUROPE



TEEMA MEMBERS IN EUROPE

UK : Elitegroup, Twinhead, CMC, Gigabyte, Compal, Mobiletron, ZINWELL, Portewell, Action, C Sun, Skardin, Everspring, CYP, Flytech

Netherlands : TSMC, Zinwell, Chroma, Darfon, Advantech, Gigabyte, Wistron, Yageo, Delta Electronics, Elitegroup, Portwell, LiteOn, Avermedia, U.R.T, JSW

France : Sunon, ADDA, Chroma, Avermedia, Sercom, Enlight

Spain : Avermedia

Italy : Advantech, TXC, TECO, HIWIN

Austria : YFC-BonEagle

Hungary : Advantech, Wistron, Foxconn

Serbia : Bizlink

Denmark : Emerging Display Technologies

Germany : Twinhead, Geniusnet, Crete, Shenmao, Tri, Sercom, Tungthih, Wistron, Youngoptics, Avermedia

Poland : Compal, Advantech, Delta Electronics, Aten

Slovakia : Delta Electronics, Bizlink, AUO, Foxconn

Czech : Tatung, Gigabyte, Inventec, Elitegroup, Darfon, AUO, Wistron, Advantech, Primax, Chicony, Gemtek, LiteOn, Delta Electronics, Qisda, Foxconn, Pegatron

Romania : Delta Electronics, Aten

Source : TEEMA, 2022





TEEMA'S ENGAGEMENT IN MAINLAND, NATIONAL AND INTERNATIONAL ASPECTS



ENGAGEMENT IN EUROPE

TEEMA-EU CONNECTION



ENGAGEMENT IN EUROPE

DELEGATION to CZECH, SLOVAKIA, and Lithuania





CONTACT US



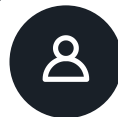
CONTACT INFORMATION

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Thank you!



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