



An initiative of the European Union

**EUCLUSTERS**



**MATCHMAKING  
EVENTS**

2023  
European Innovation Week  
**歐盟創新週**  
29 May-2 Jun.

# EU-TAIWAN MATCHMAKING EVENT 2023

in the context of 2023 European Innovation Week

## Preparatory webinar

### 12 May 2023

9:00-10:30 CET

#SingleMarket30



# Preparatory webinar: EU-Taiwan Matchmaking Event 2023

## Clusters and Industrial Policy in Taiwan

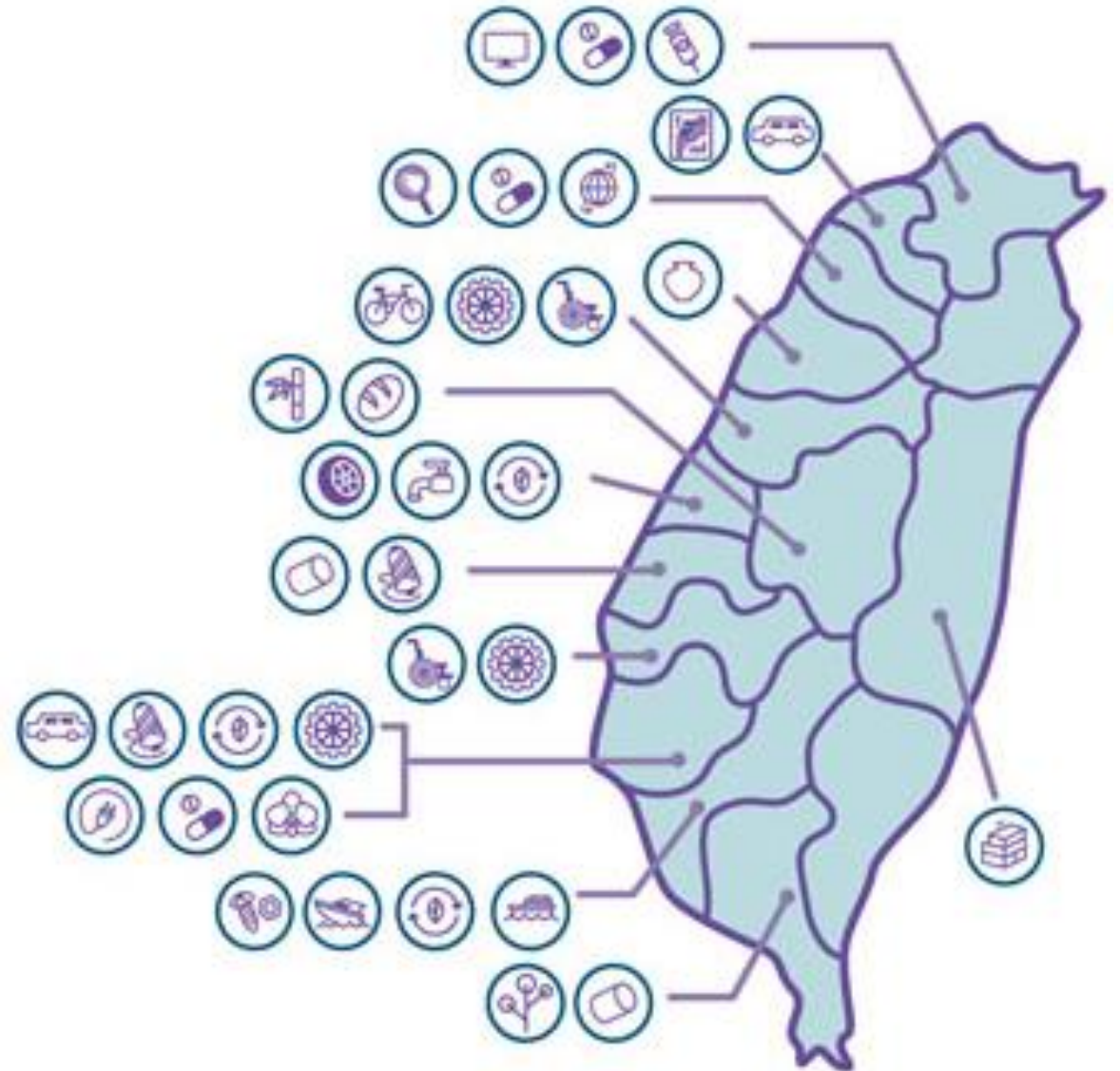
Dr. Jan-Philipp Kramer  
ECCCP – Team Leader Data & Policy



# Cluster landscape in Taiwan

- |   |  |
|---|--|
|  Agricultural biotech             |  Food                                      |
|  Assistive technology            |  Glass                                    |
|  Auto parts                      |  Green energy                             |
|  Automobiles                     |  Information and communication technology |
|  Basic metals and metal products |  Medical equipment                        |
|  Bamboo processing               |  Orchids                                  |
|  Bicycles                        |  Plumbing and bathroom fixtures           |
|  Biotech and pharmaceuticals     |  Precision machinery                      |
|  Ceramics                        |  Printed circuit boards                   |
|  Digital content                 |  Shipbuilding                             |
|  Electric cords and cables       |  Stone processing                         |
|  Fasteners                      |  Textiles                                |
|   |  Yachts                                 |

Source: Taiwan External Trade Development Council (TAITRA)



Source: Taiwan Today (01/09/2017) [Strength in Clusters](#).

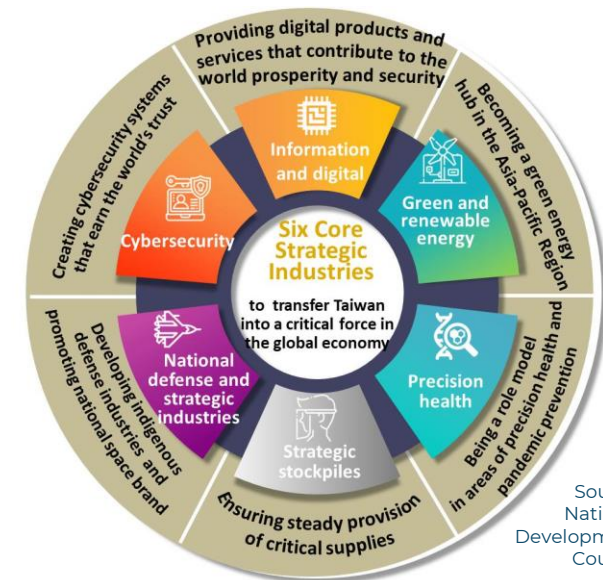
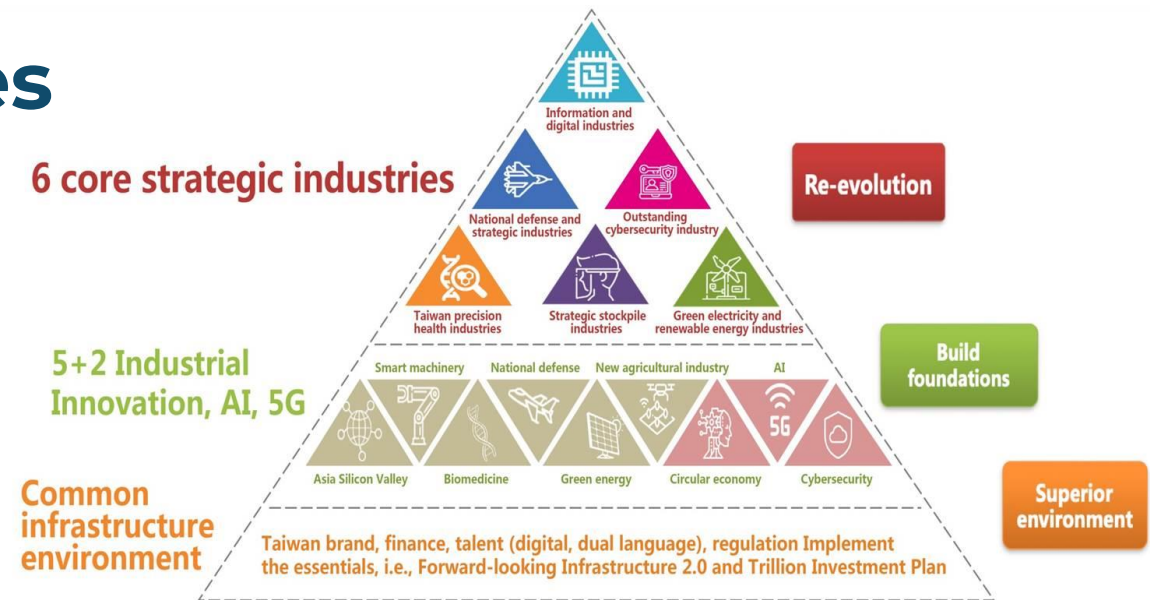
# Key strategic industrial policies

## 5+2 Innovative Industries Plan

- Launched in 2016
- **Framework strategy** for upgrading and transforming Taiwan's industry
- **Objective:** to shift Taiwan's economy from contract manufacturing towards high-value-added comprehensive service and solution-oriented business models; to increase regional integration
- **Sectors:** original 5+2 expanded to 6 priority sectors and 3 cross-cutting themes

## Six Core Strategic Industries

- Since 2020
- **Based on** 5+2 Innovative Industries Plan
- **Re-adjusting sectoral focus** towards 6 strategic areas



Source: National Development Council

# Structure of the 5+2 Innovative Industries Plan

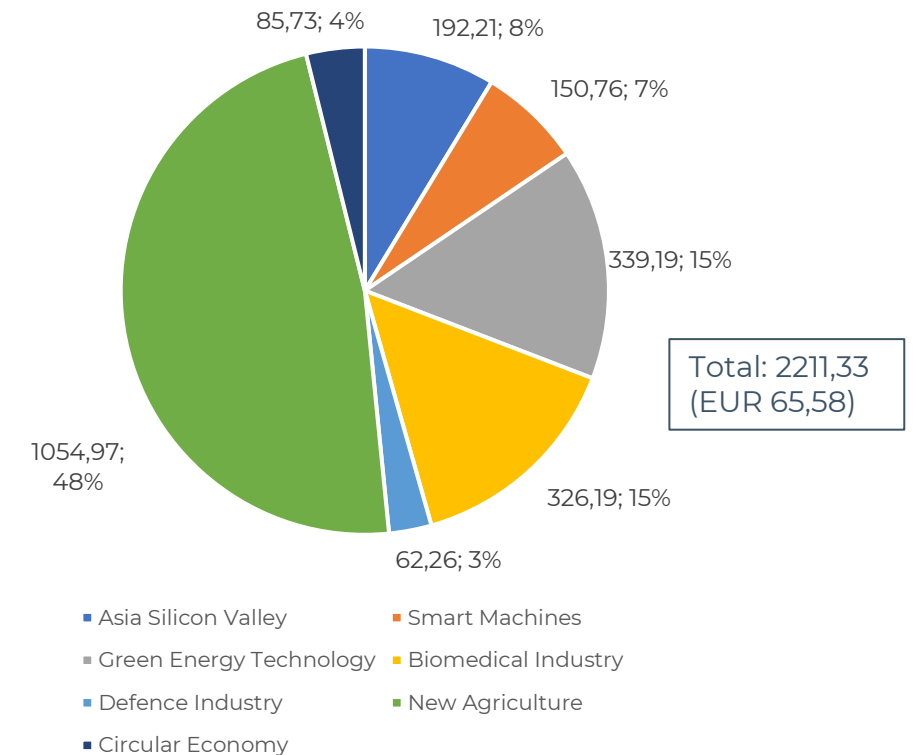
## Organisation

- Taiwan usually does not have cluster organisations but implements its cluster policy through business organisations, research institutions and state authorities
- Clusters often around technological parks and research centres; networking of clusters along value chains
- Sectoral programmes run by different ministries and agencies

## Instruments

- Funding for R&D collaboration, technical equipment, innovation & prototyping activities
- Technical assistance for technology transfer, intellectual property management, and international cooperation

## Total budget for the sectoral programmes of the 5+2 Plan 2017-2020 (in billion TWD)



# Selected sectoral and internationalisation policies



## Asia Silicon Valley 2.0



## Biomedical Industry Innovation Program



## Promoting green energy innovation



## International R&D centre programmes

### Objective

- expand applications of the “artificial intelligence of things (AIoT)”
- improve the startup investment environment

- build Taiwan into a global biomedical R&D hub focusing on precision health using biomedicine & communications tech

- develop energy production, conservation and storage as well as system integration capabilities

- encourage joint research activities between Taiwanese and international companies

### Clusters and Internationalisation

- create a world-class innovation cluster
- deepen relations with int'l IoT partners
- promote export of AIoT solutions abroad

- connect hubs centred on research & science parks to surgical devices cluster and medical equipment cluster
- internationalise domestic firms through mergers, acquisitions, and strategic alliances

- created a new industrial innovation cluster at “Shalun Smart Green Energy Science City” as a national hub for research, development and demonstration of green energy tech

- targeting the EU market in general and Czechia, Germany and Spain in particular supporting in the deployment of intellectual property and in exploring business opportunities



# THANK YOU

# Selected sectoral and internationalisation policies

## Asia Silicon Valley 2.0

- **Objective:** to expand applications of the “artificial intelligence of things (AIoT) and improve the startup investment environment
- **Clusters & internationalisation:** aims to create a world-class innovation cluster, deepen relations with int'l IoT partners, and promote export of AIoT solutions abroad

## Promoting green energy innovation

- **Objective:** develop energy production, conservation and storage as well as system integration capabilities
- **Clusters & internationalisation:** created a new industrial innovation cluster at “Shalun Smart Green Energy Science City” as a national hub for research, development and demonstration of green energy tech

## Biomedical Industry Innovation Program

- **Objective:** to build Taiwan into a global biomedical R&D hub focusing on precision health using biomedicine & communications tech
- **Clusters & internationalisation:** connecting hubs centred on research & science parks in the north to surgical devices cluster in central Taiwan and medical equipment cluster in the South; internationalising domestic firms through mergers, acquisitions, and strategic alliances

## International R&D centre programmes

- **Objective:** encouraging joint research activities between Taiwanese and international companies
- **Collaboration programmes:** targeting the EU market in general and Czechia, Germany and Spain in particular supporting in the deployment of intellectual property and in exploring business opportunities