



Ministerie van Economische Zaken



# Industrial policy in the Netherlands

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## Global position

### TAIWAN

- 137nd Size (36.000 km<sup>2</sup>)
- 55th Population (23 mln)
- 29<sup>th</sup> Population density (411/km<sup>2</sup>)
- 22nd GDP (\$579 bln)
- 19th GDP per capita (\$25/cap)
- 13<sup>th</sup> Index of economic freedom
- 25<sup>th</sup> World Competitiveness Index WEF



### NETHERLANDS

- 135th Size (41.000 km<sup>2</sup>)
- 66th Population (17 mln)
- 18<sup>th</sup> Population density (653/km<sup>2</sup>)
- 18th GDP (\$825 bln)
- 7th GDP per capita (\$48k/cap)
- 17th Index of economic freedom
- 4<sup>th</sup> World Competitiveness Index WEF





## **Vision on Modern industrial policy for sustainable growth**

- **Innovation for sustainable economic growth**
- **Societal challenges are the growth markets of the future**
- **Excellent conditions for doing business (generic policy)**

**Specific policy to focus on nine top sectors that are characterised by**

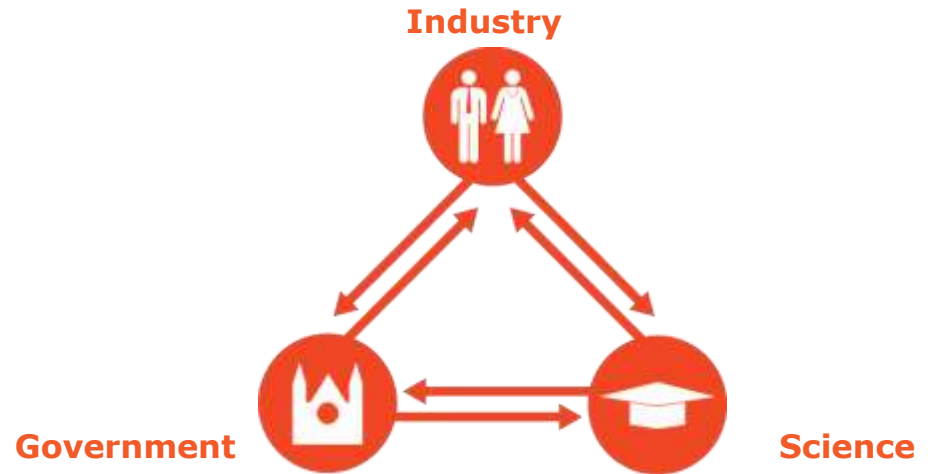
- **High productivity**
  - **Huge share R&D**
  - **Export-orientation**
  - **Solutions for societal challenges**
- **Goal: to secure future earning potential and contribute to societal challenges**



## Top Sectors approach

### Triple helix

- Public Private Partnership
- Demand driven
- Joint programming



### Comprehensive approach with:

- Improving the links between public and private research
- Improving cross-sectoral cooperation
- Further strengthening international position
- Improving the links between education and labour market (human capital)
- Tackling sector specific regulatory problems (regulation)



# Top Sectors and Societal Missions

- The societal missions are:
  - Climate & sustainability
  - Agriculture, Water & Food
  - Health
  - Security
- Key enabling technologies are instrumental to tackle these missions.
- The Top sectors align their agenda's with the societal missions.

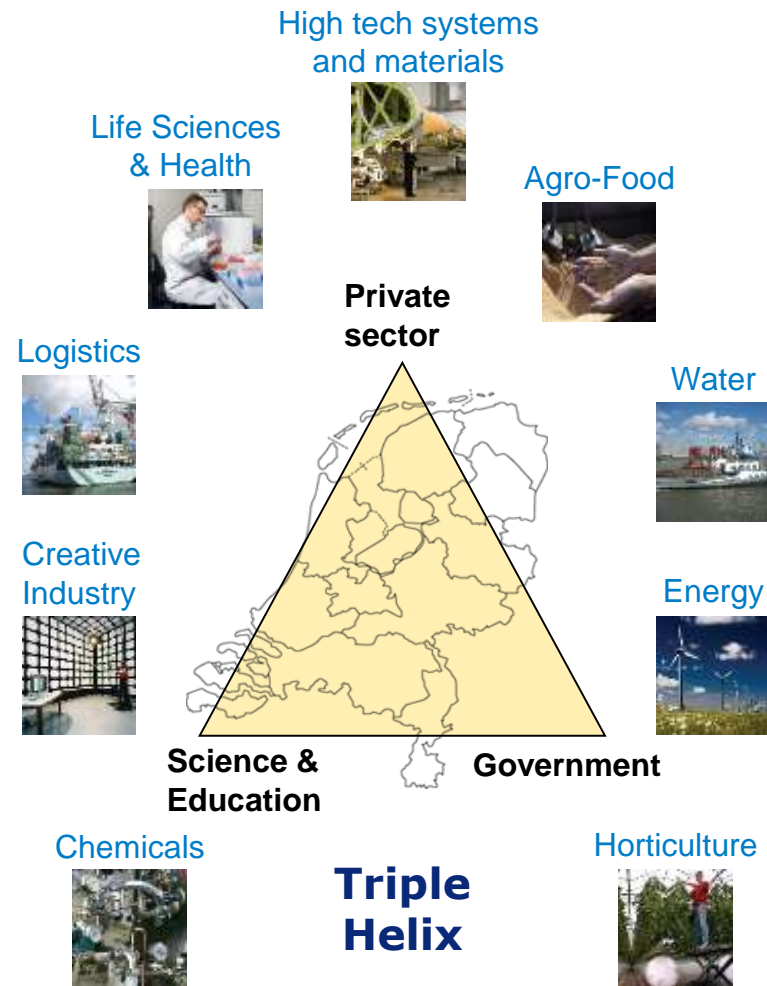




# Triple Helix: Top Sector Policy

## Comprehensive PPP Agenda's:

- Joint programming of research
- Human capital agenda's to increase supply of S&T-graduates
- Regulation
  - remove specific regulatory barriers
  - introduce incentives
- International
  - trade missions, acquisition, R&D
- Regional cooperation
  - Incentives for SME
  - campuses, knowledge valleys
  - innovative procurement





## Two big challenges for industry

Sustainability	Digitization
CO2 Reduction Circular economy	Smart Industry agenda



# Smart Industry

## 2018-2021

**Smart Industry: the acceleration of digitalization of industry**

**Smart Industry is being driven new by ICT and manufacturing technology.**

**It is crucial for jobs, future economic growth and the sustainability of our industry.**







**Fieldlab:** *An industrial environment where Smart Industry solutions are developed, tested and implemented where people can learn to apply them.*



Criteria for a Smart Industry fieldlab

- Innovation eco-system
- Regional focus
- Radical innovations
- Interconnect higher & vocational education
- Training Human Capital
- Identification and application of new rules & standards
- Location with a program manager
- Program with 3+ year plan and multiple projects on innovation and education



## New activities of the Implementation Agenda



- **Digital Trust Centre**
  - **Smart Industry Hubs**
- **Smart Industry Expertise Centre**
  - **From Fieldlabs to Skillslabs**



## To sum up:

### How does the government support the industry?

- Identifies societal missions
- Brings knowledge institutions and businesses together
- Provides innovation subsidies
- Creates appropriate regulation and identify where regulation hampers innovation
- Fosters internationalization
- Establishes ecosystems (such as smart industry fieldlabs)



**Thank you!**

**Any questions?**