

# Dutch Semiconductor Industry

**Policy Overview** 



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## Ministry of Economic Affairs & Climate Policy

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#### Ministry of Economic Affairs and Climate Policy

- Directorate General Enterprise& Innovation (~250 fte)
  - Industry & Innovation Policy (~100 fte)
    - 9 Topsectors
    - 20 sector accounts
    - 30 strategic corporate accounts





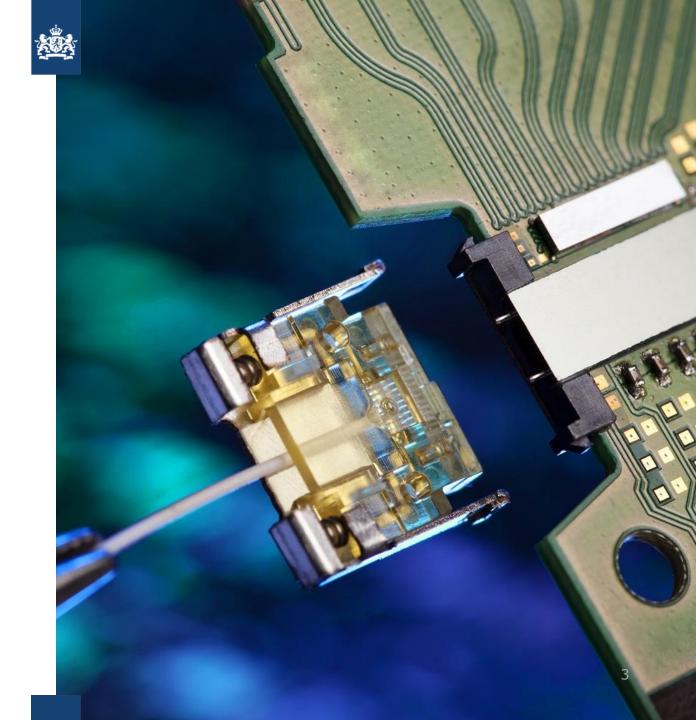
# Economic policy context

#### **Generic:**

- Facilitating a base to enable innovation and strong entrepeneurial climate
- Facilitating the digital and green transition based on mission statements

#### Focused:

- 'Topsectors': High Tech Systems
  & Materials
  - Semiconductor R&D Roadmaps





#### **Global societal challenges**

#### 25 mission statements on:









Key Enabling Technology approach (like semiconductors)



### Focused policy instrumentation

- The Netherlands spends ~€900 million euro's annually on the semiconductor industry
  - Combination of:
    - Focused innovation subsidies
    - Fiscal incentives
  - Combination of:
    - European innovation programs
    - National innovation programs



#### Focused policy instrumentation

#### IMPORTANT PROJECTS OF COMMON EUROPEAN INTEREST

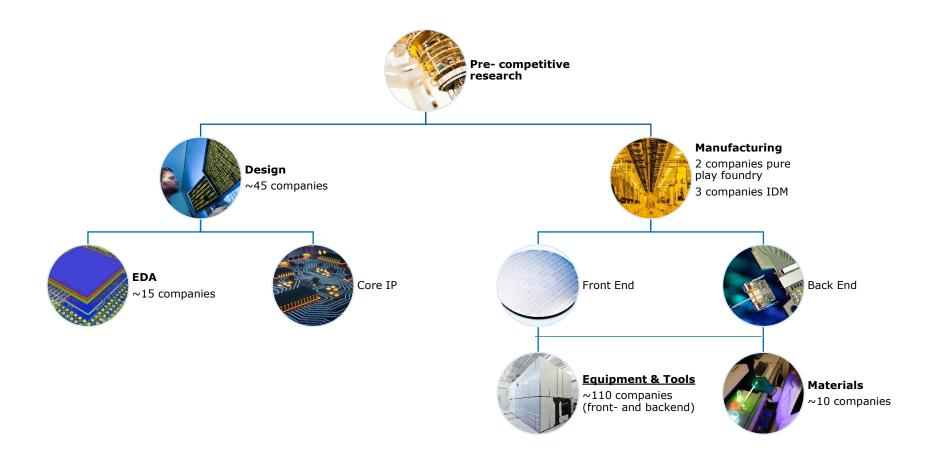
- Microelectronics II
  - 5 Dutch projects have recently been notified
  - €230 million public funding

## NATIONAL GROWTH FUND (NATIONAAL GROEIFONDS)

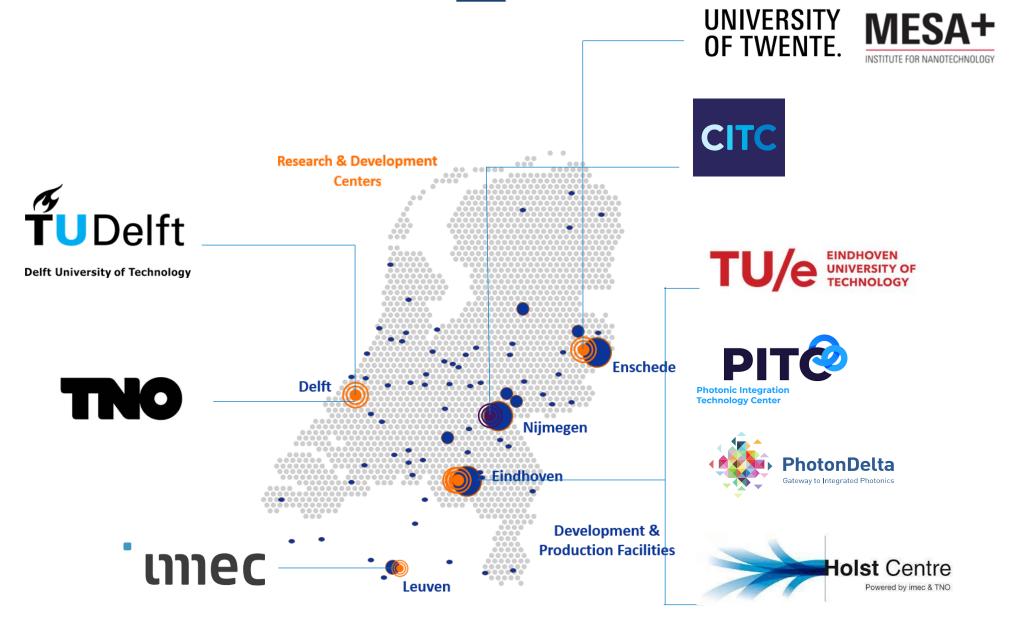
- AINED (€276 million public funding)
- > QuantumDelta NL (€615 million public funding)
- > PhotonDelta (€471 million public funding)
- NXT GEN High Tech (€450 million public funding)



#### Semiconductor Value Chain in The Netherlands











A new Industrial Strategy for a globally competitive, green and digital Europe



## EU Chips Act: three pillars

### Pillar 1

- Chips for Europe Initiative
- Speeding up from Lab to Fab

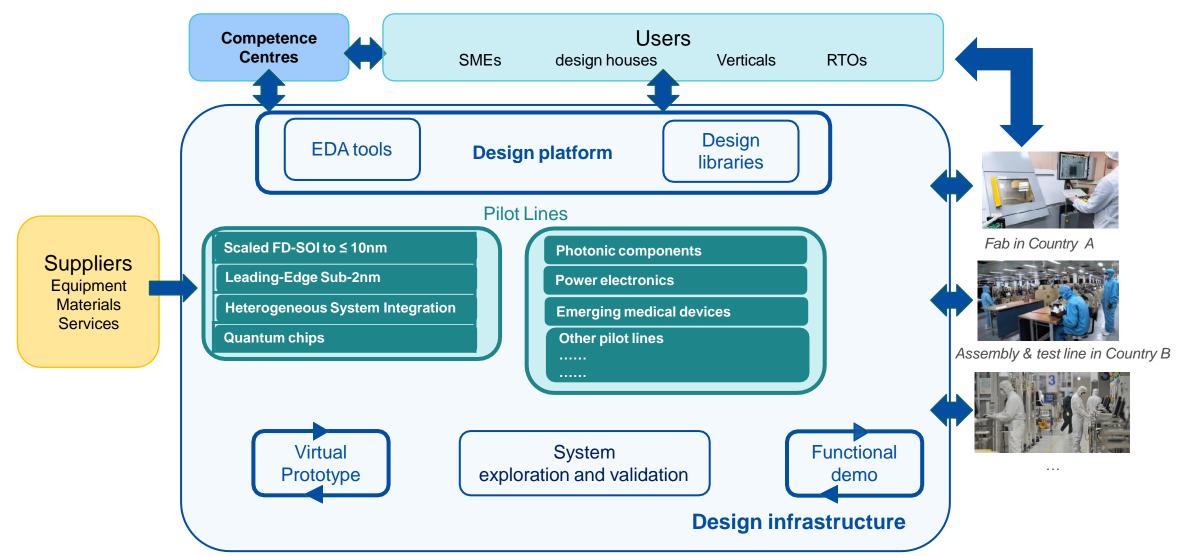
## Pillar 2

- Security of Supply
- Boosting European production capacity

### Pillar 3

 Monitoring & Crisis Response







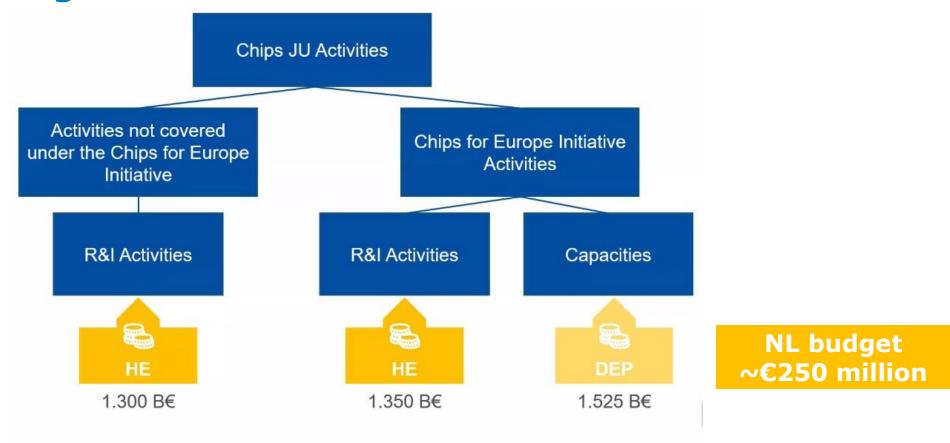
#### **Dutch Semicon Competence Center**

- Address the skills shortage by offering access to training, including workforce upskilling and reskilling, on semiconductors
- Facilitate effective use of capacities and facilities of the Chips for Europe initiative, including access to **design platform** and **pilot lines**, **funding** opportunities etc.

- Connect stakeholders to national and international programs, and resources linked to semiconductors
- Act as access point to the European network of competence centres



# Funding structure & activities Chips Joint Undertaking





# Exploring cooperation between Japan and The Netherlands

- Dutch Semicon Competence Center and Leading- Edge Semiconductor Technology Center (LSTC)
- Industrial upscaling of semiconductor and photonic-IC (PIC) applications

- Open access semiconductor design tools and platforms (including RISC V)
- Semiconductors advanced packaging (including photonics)