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INTER-REP 55**

**NOTE**

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From:	General Secretariat of the Council
To:	Delegations
Subject:	Presentation by Silicon Saxony (agenda item 2.) at the Working Party on Competitiveness and Growth (Industry) on 13 May 2025

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Delegations will find attached a presentation by Silicon Saxony, with a view to the discussion by the Working Party on Competitiveness and Growth (Industry) at its meeting on 13 May 2025.

This document contains a presentation by an external stakeholder and the views expressed therein are solely those of the third party it originates from. This document cannot be regarded as stating an official position of the Council. It does not reflect the views of the Council or of its members.

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Observations on the EU Chips Act  
Frank Bösenberg

# Silicon Europe

YOUR CONNECTION TO INNOVATIVE  
EUROPEAN SMES!



# Content



- Introduction Silicon Europe
- 7 observations on the EU Chips Act
  - Triggered Investments materialize more often than not in established clusters
  - Research landscape broader, reflects strengths in the EU
  - Lack of EU strategy – and strategy existence/alignment on MS level
  - Top down + level up -> Eurostack and application industries
  - More with less? International competition
  - SME participation in R&D and Investments
  - Technology sovereignty – Chips = Chips?
- Conclusions



## SILICON EUROPE ALLIANCE TWELVE HIGH-TECH NETWORKS

AKTANTIS, **FR**

CSconnected, **UK**

Czech National  
Semiconductor  
Cluster, **CZ**

GAIA, **ES**

High Tech NL, **NL**

Mesap, **IT**

Midas, **IRL**

Minalogic, **FR**

OpenTech, **SE**

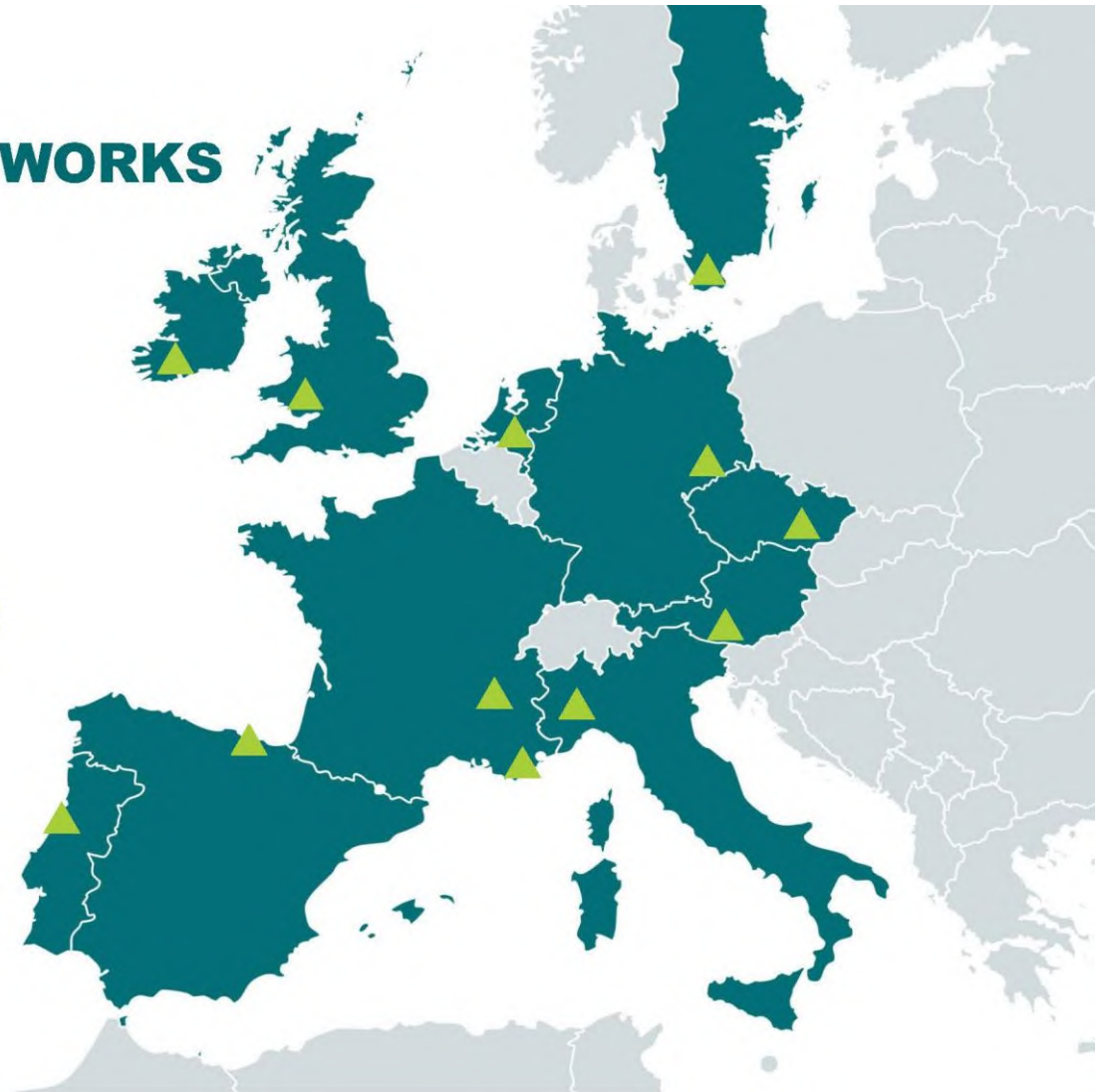
Silicon Alps, **AT**

Silicon Saxony, **DE**

TICE.PT, **PT**



SILICON  
EUROPE





# SILICON EUROPE ALLIANCE VOICE FOR THE SME



**Other kind of members:** Local authorities, Incubators, Economic Development Agencies, etc.

# The strength of clusters (IPCEI)

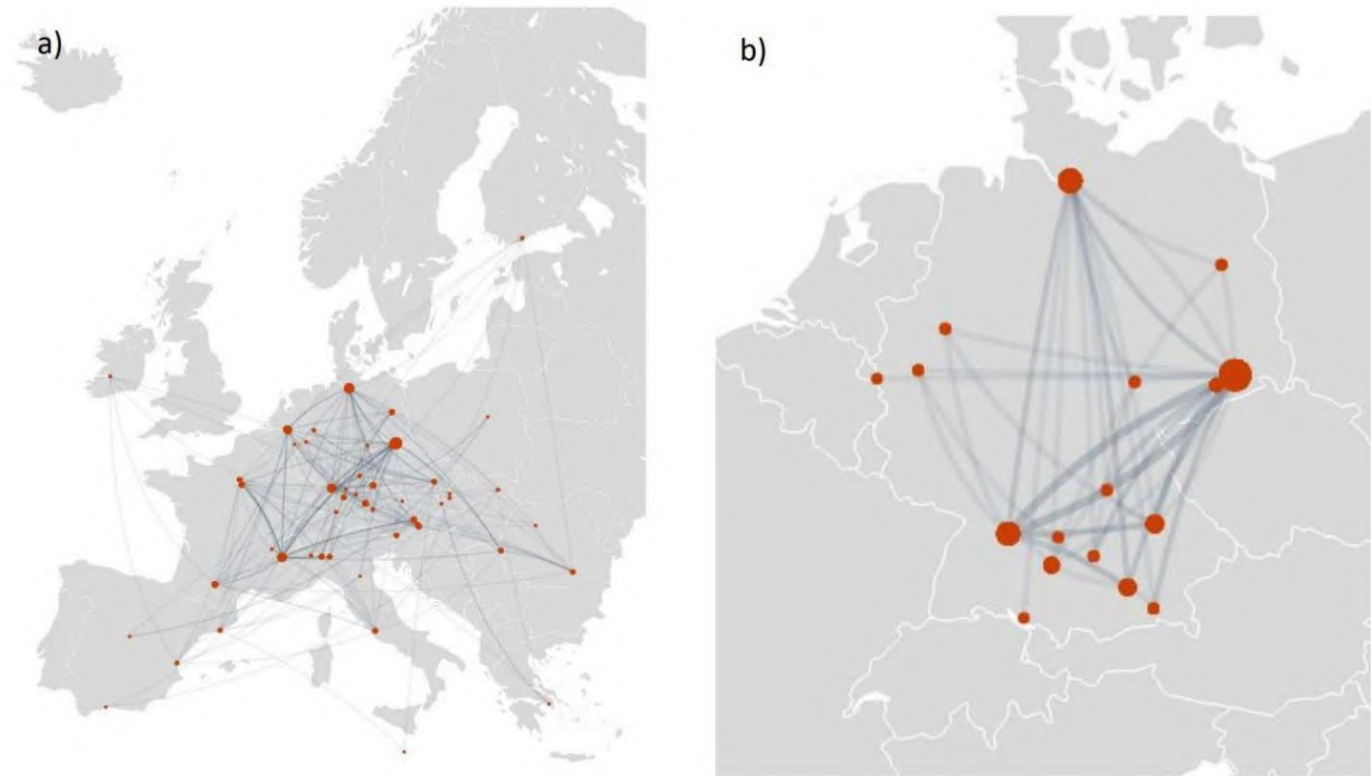


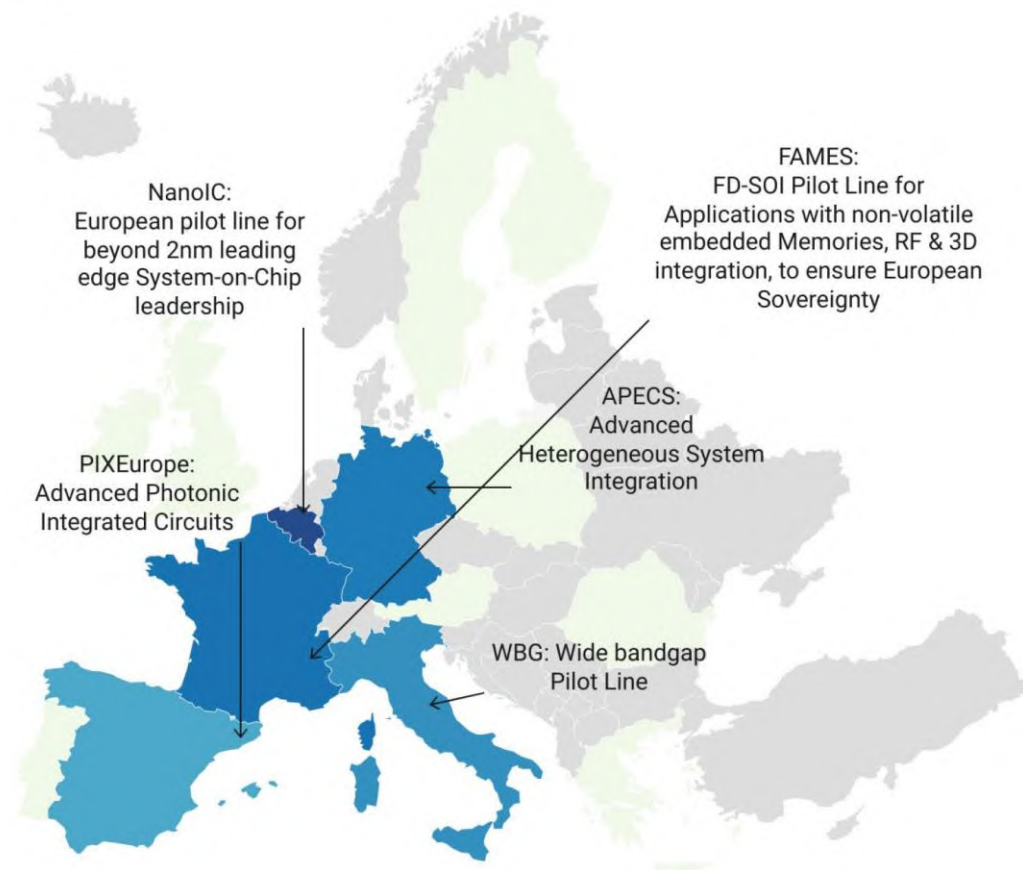
Abbildung 4: Kooperationen zwischen direkten IPCEI Partnern mit deutscher Beteiligung auf a) EU- und b) nationaler Ebene.

# R&D

## ■ Pilot lines

### Chips JU Pilot Lines

Countries coordinating (blue) and participating (light green) in the first 5 selected CHIPS JU Pilot lines



Map: Frank Bösenberg / Silicon Saxony • Source: ChipsJU • Created with Datawrapper

# R&D

- Locations of EIC accelerator projects



## HORIZON-EIC-2023-ACCELERATORCHALLENGES-05 - EIC Accelerator Challenge: Emerging semiconductor or quantum technology components

Location of coordinating organisations of the 11 selected projects



Map: Frank Bösenberg | Silicon Saxony • Created with Datawrapper



# Draghi report

The future  
of European  
competitiveness

Part B | In-depth analysis and recommendations



## Objectives and proposals

The EU must de-risk its strategic dependencies and improve its capabilities in semiconductors, focusing on supply chain segments where it has or can develop a competitive advantage. The EU should aim to:

- Boost R&D in selected mainstream and innovative product segments, like larger nodes (sensors, power controls, etc.), where the EU is already present.
- Develop a sovereign position in design and manufacturing processes, incentivising technology transfer only for newer manufacturing technologies.
- Strengthen EU companies of demonstrated excellence in selected semiconductor equipment and materials, defending their export ambitions and expanding their addressable markets.

FIGURE 12

### SUMMARY TABLE

#### SEMICONDUCTOR PROPOSALS: A REVISED EU CHIPS ACT

### TIME

#### HORIZON<sup>16</sup>

- |   | SUMMARY TABLE   | TIME                  |
|---|---|-----------------------|
|   | SEMICONDUCTOR PROPOSALS: A REVISED EU CHIPS ACT   | HORIZON <sup>16</sup> |
| 1 | Enable the development of a new EU Semiconductor Strategy, by establishing an EU semiconductor budget, coordinating demand requirements, introducing EU preferences in procurement and a new 'fast-track' IPCEI | ST/MT                 |

ST/MT

8

# Status quo




PERSPECTIVE

## The Missing Strategy in Europe's Chip Ambitions

Member States Must Drive the Next Steps

[Interface \(formerly SNV\) : The Missing Strategy in Europe's Chip Ambitions](#)



Because the EU Chips Act fails to provide a long-term strategy with clear policy objectives, EU member states must take proactive steps to fill this gap. This includes obtaining a detailed understanding of their semiconductor ecosystems, setting clear long-term objectives, and developing the required administrative expertise to engage effectively at the level of the EU and vis-à-vis the United States.

# Joint declaration on processors and semiconductor technologies



December 2020  
22 member states



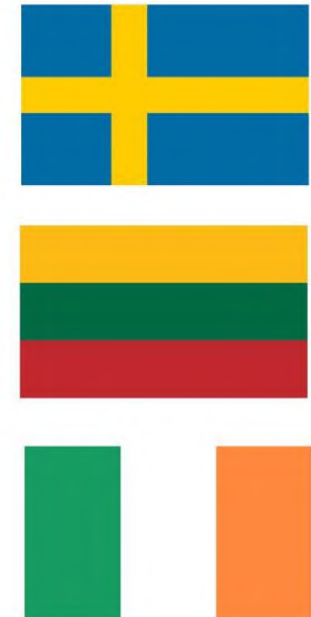
The signing Member States agree to:

1. *Cooperate and engage in efforts to co-invest in semiconductor technologies **across the full value chain** and to this end:*
  - Mobilize industrial stakeholders through a future industrial alliance to establish strategic roadmaps and research and investment plans for processor design, deployment and fabrication that takes into account the full semiconductor ecosystem;
  - Address common challenges through various funding mechanisms, including where feasible through the national Recovery and Resilience plans, contributing to a substantial increase in the production capability in Europe of semiconductors and embedded systems across the value chain, and processor chips with significant improvements in energy performance and speed by 2025;

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# Overview on national strategies



Unterstützt von Bing

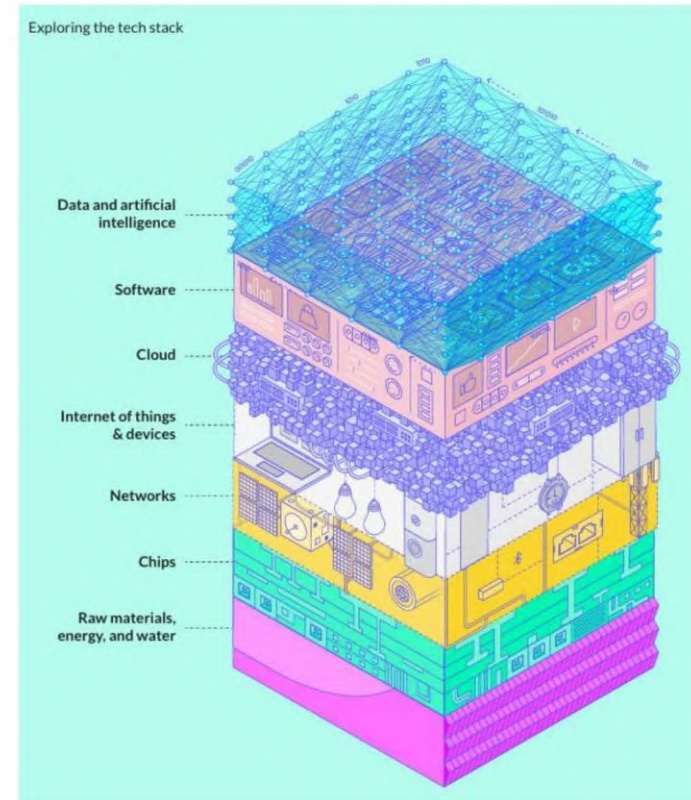
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# Political economy of digital sovereignty



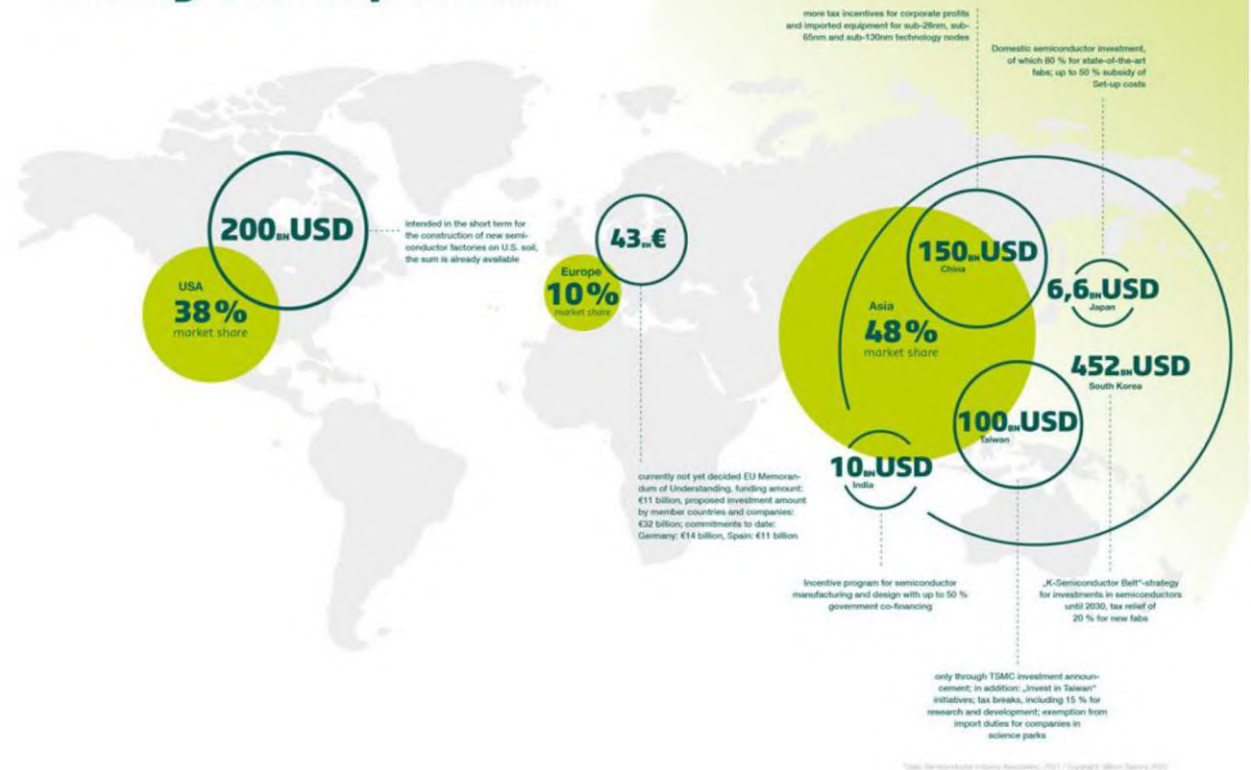
	KEY COUNTRIES		KEY FIRMS
Data and artificial intelligence	US                      China		OpenAI, Microsoft, Google, Meta, Anthropic, XAI, Amazon, Baidu, Tencent, Alibaba, DeepSeek
Software	US	China                      Germany	Microsoft, Apple, Alphabet, Meta, Amazon, Salesforce, SAP, ByteDance, Tencent
Cloud	US	China	Amazon, Microsoft, Alphabet, Alibaba
Internet of things & devices	US                      China                      Korea                      Germany		Amazon, Google, Apple, Samsung, Huawei, Bosch, Siemens, Xiaomi
Networks	US                      China                      Europe                      Japan		Huawei, Nokia, Ericsson, ZTE, SpaceX, NEC
Chips	Taiwan                      Korea                      US                      Netherlands		TSMC, Samsung, Intel, NVIDIA, AMD, ASML
Raw materials, energy, and water	US                      China                      Russia		Chinese government (through SOEs e.g., China Rare Earth Group), ExxonMobil, Gazprom



# More with less?



## Market shares and investment volumes in the global chip market



## Chips = Chips? No!

- Different market segments
- In some of them – 0 EU players

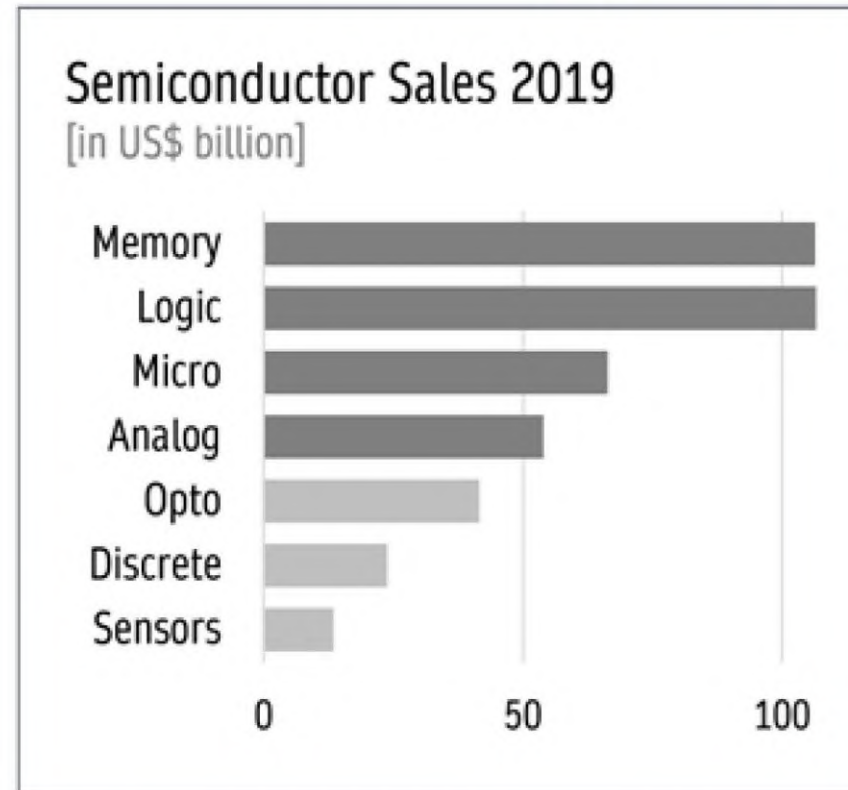


Figure 1





# Conclusions



- EU Chips Act 2.0 -> based on aligned EU strategy incl. International cooperation
  - Chip market will continue to grow – danger of being outinvested, in particular wrt China
  - Consideration of EU SMEs -> less beaurocracy, but regional supply chains
  - Consideration of demand side -> good example defence, room for improvement at AI and telco
  - Check entire value chain when discussing sovereignty (e.g. raw materials) -> choke points
  - Make or buy -> international cooperation required!
- 
- „There is no digital without chips“ -> There is (almost) nothing without chips!
  - Investments into semiconductor industry pay off!





# Contact



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