

# Agentur für Innovation in der Cybersicherheit GmbH

"Innovation for Cybersecurity"

### Federal funding agency, mandated & funded by Ministries of Defense, Interior

- Unique in thematic focus on fundamental research in Cybersecurity up to TRL 4
- > Interdisciplinary approach following a multiannual strategic framework
- Addressing needs of interior & exterior security communities
- High-risk approach (scientific, not project management!)
- ➤ Identify and promote cybersecurity innovation from an early stage → mix of demand pull & tech push
- > Transparency: Project results shared with Federal Government & the public (unless security concerns)

#### Aligns with National Cybersecurity Strategy and its guiding principles:

- Impact on Cybersecurity of Society, State, Economy
- > Research for an efficient, sustainable Cybersecurity architecture at all levels of government



# The Cyberagentur's thematic framework



#### **Secure Society**

- 1. Digital Identies
- 2. Cyberresilient Society
- 3. Human-machine Interaction
- 4. Cyber-enabled State
- 5. Digital Consumer Protection



#### **Secure Systems**

- 6. Cybersecurity of the Federal Administration
- 7. Critical Infrastructures
- 8. Cybersecurity in harsh Environments
- 9. Secure Hardware & Supply Chains
- 10. Interoperability: Digitised Assets & Data Fusion

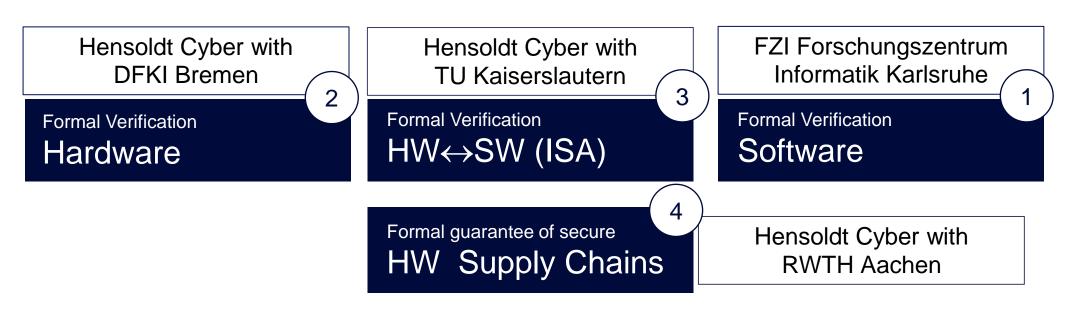


#### **Key Technologies**

- 11. Communication of the Future
- 12. Cryptology
- 13. Cybersecurity through Quantum Technology
- 14. Cybersecurity through AI and for AI
- 15. Autonomous intelligent Systems

## First step in formal verification: 5 studies on research priorities

September 2022 through January 2023, funding: 450 k€ Survey state-of-the-art (tools/methods) & research / application communities; create research roadmap



Hensoldt Cyber with ESMT Berlin

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Formally verified base IT

Community/Ecosystem

## Towards an ecosystem of verifiably secure IT (EvIT)

- January 2023: Results of preliminary studies presented to Cyberagentur
- Q1-2/2023: Define follow-up program for tendering in ~Q2/2023, project start in ~December 2023
- Goals:
  - Address priority research topics in formal verification as identified by preliminary studies
  - Give an impulse and propel the field
  - Offer a pathway to verifiably secure core IT systems: hardware, supply chains, software, ISA in a co-design and co-verification approach
  - Bring together and grow scientific communities
  - Foster an ecosystem of commercial providers and users
  - Promote cybersecurity and technological sovereignty

### Contact info

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