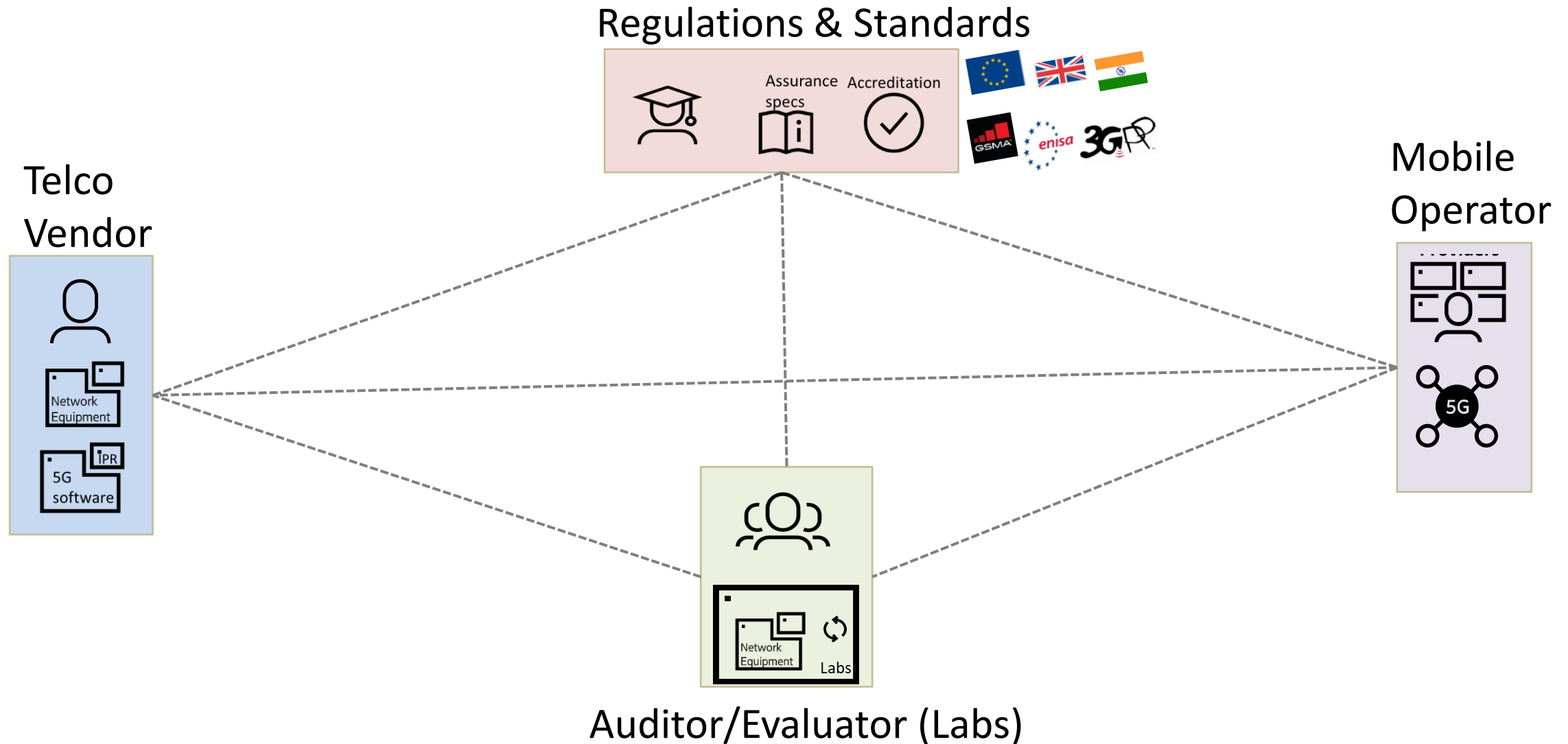




# Confidential Evaluation of Software Trustworthiness

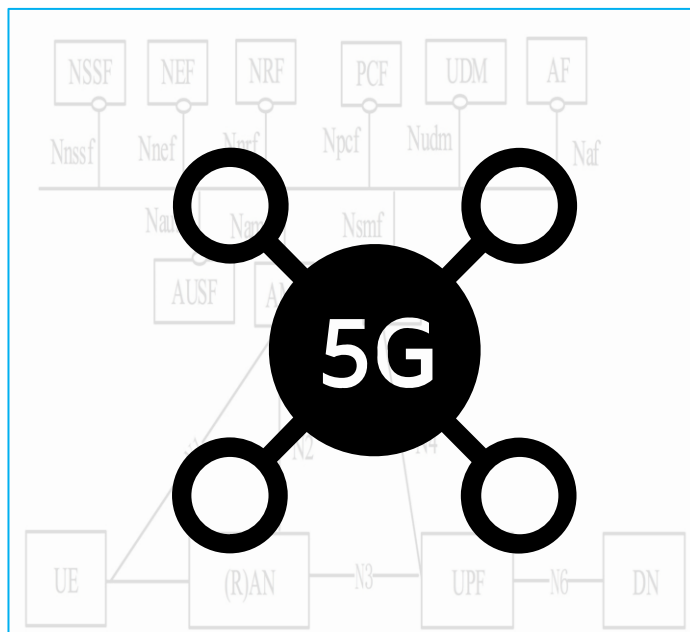


# Telco Security Assurance Playground





# Motivation: Softwarization & Telco Regulations

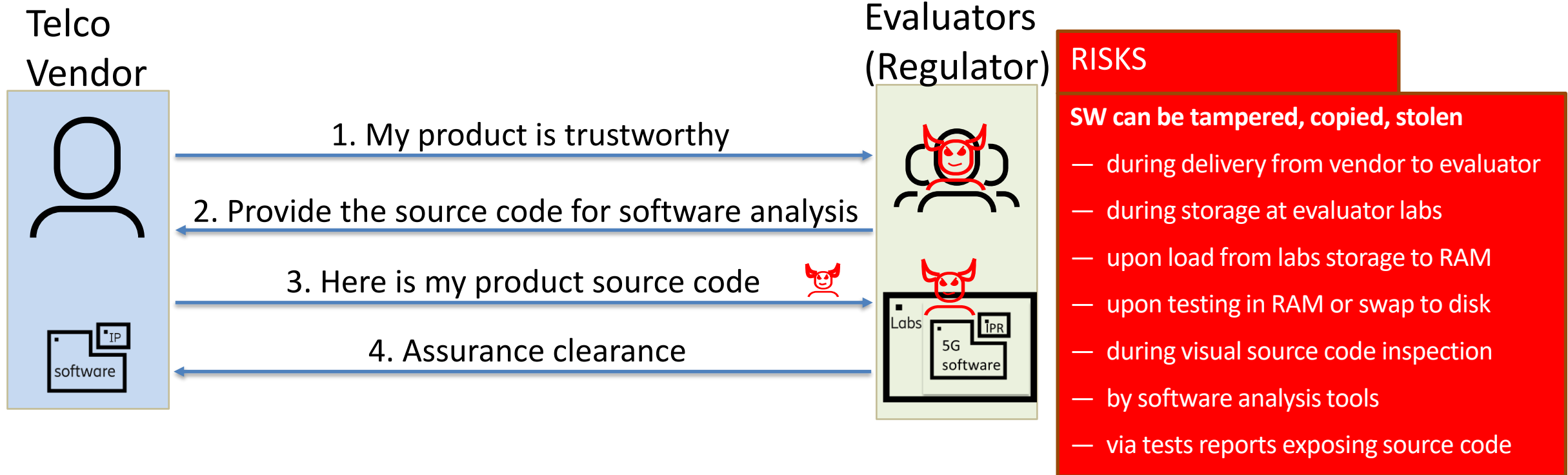


Some extracts from regulations:

- Vendors must submit to accredited evaluator:
  - product source code for source code review
  - product binaries for vulnerability assessment
- Operators must secure the software supply chain

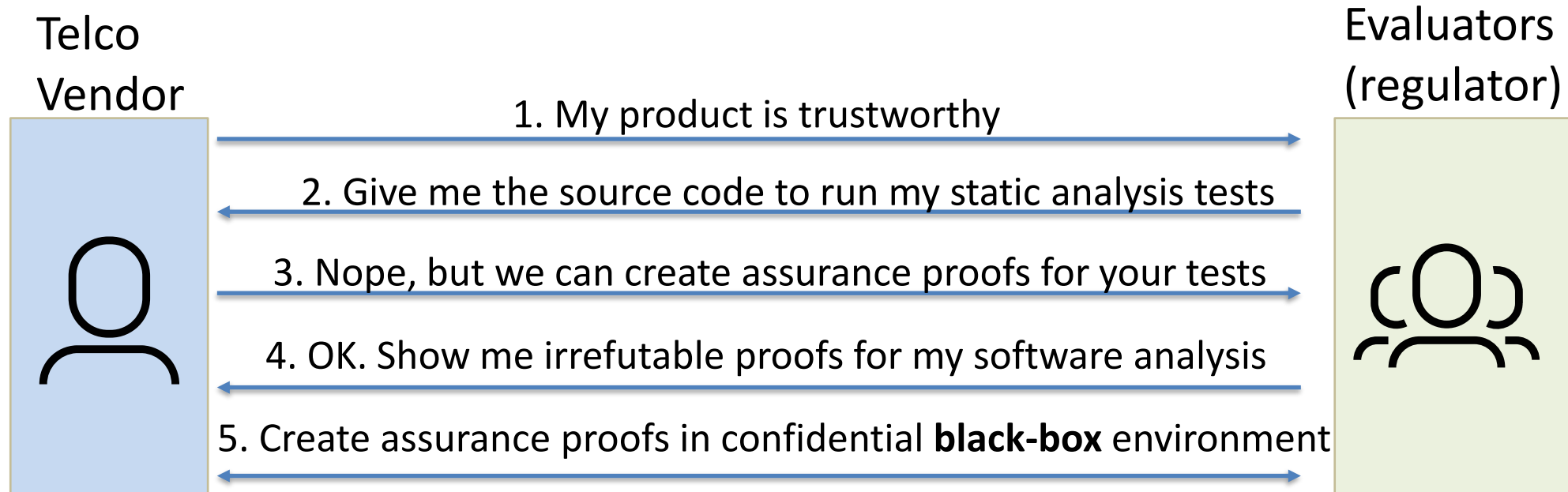


# The assurance game & risks





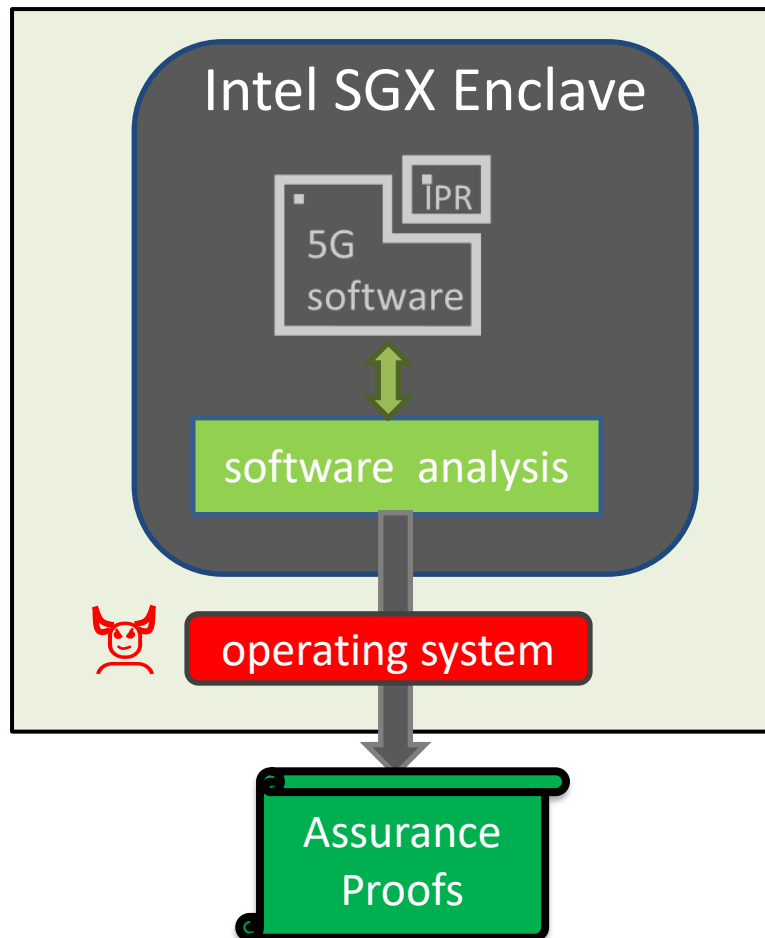
# Challenge – Changing the rules of the game





# Technology Enabler & Goal

## Host Platform



## Goal

Research & develop a prototype for software assurance exploiting **confidential computing**:

- For vendors to upload proprietary software
- For evaluators to only collect assurance proofs
- Supporting automated software analysis
- Supporting Telco security assurance test use cases
- Extensible for additional tools and test use cases

# Preliminary Results



- Study on Telco assurance in several jurisdictions
- Use cases and requirements
- Evaluation of automated software analysis
- Risk analysis, trust model
- Draft solution architecture
- Demo



# CEST Consortium



**ERICSSON**

Telco vendor. Need owner



Security assurance & certification



**HYKER**  
SECURITY

Confidential computing



Research  
Institutes  
of Sweden

Cybersecurity research

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