



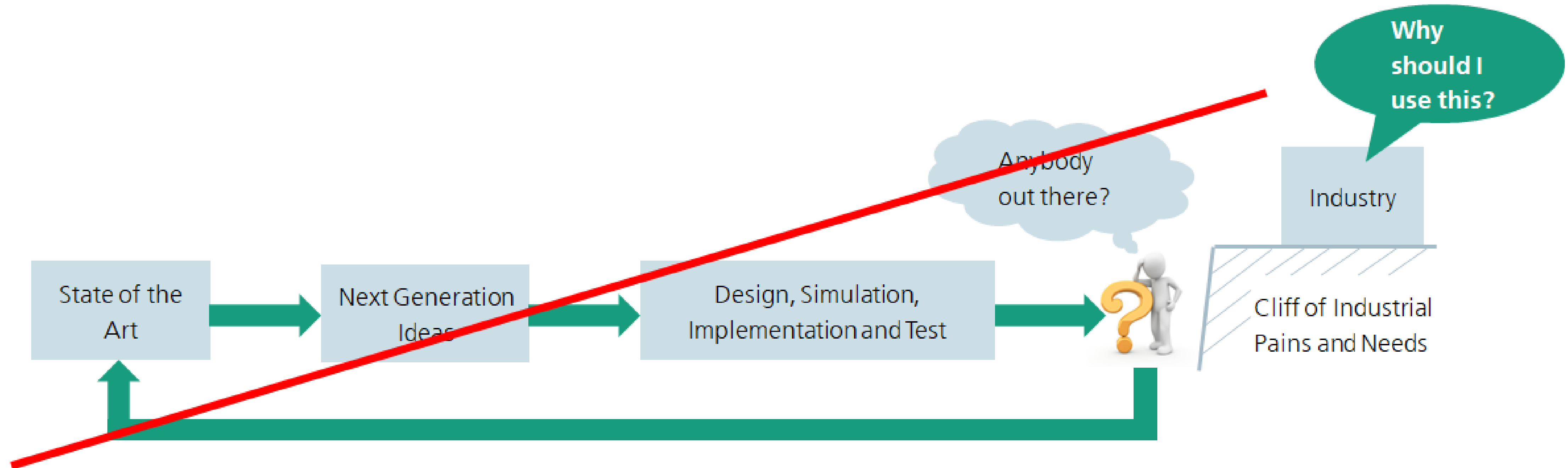
# ISRI - Industrial Scope Research Infrastructure for Deterministic Communication

Frank Burkhardt – Fraunhofer IIS

[www.celticnext.eu](http://www.celticnext.eu)

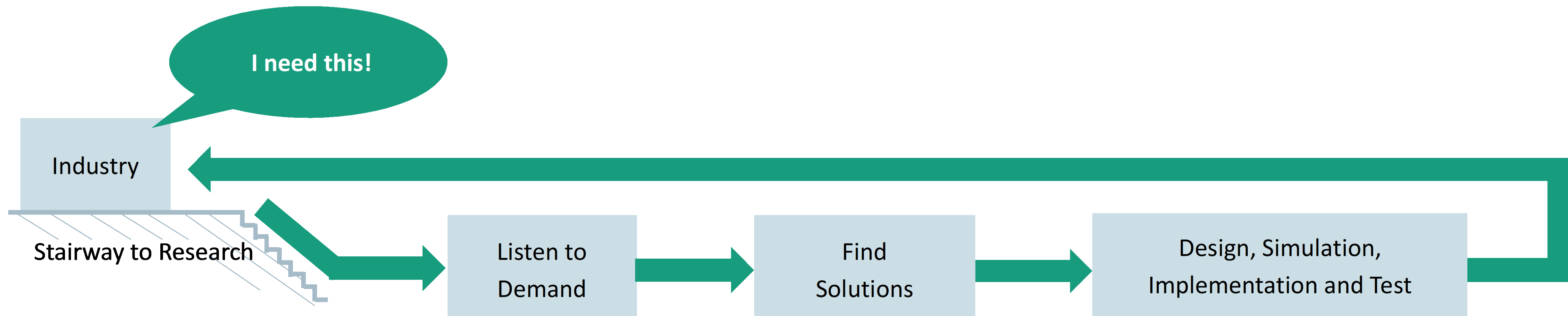


# Basic Challenge



- Build testbeds that are really relevant to the industry

# Basic Solution



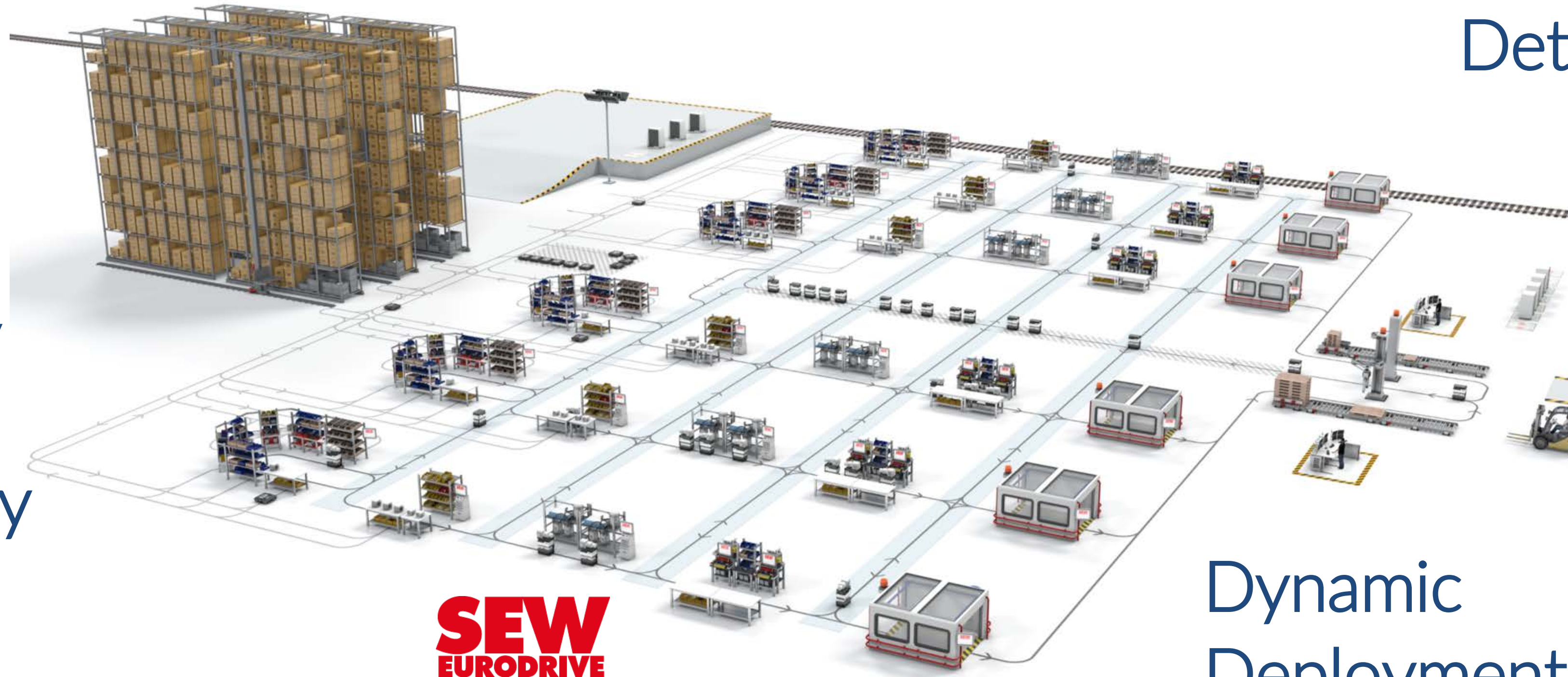
- Follow the industrial demand and design for it

# Advanced Challenge

- Provide solutions for real industrial problems

End-to-End  
Determinism

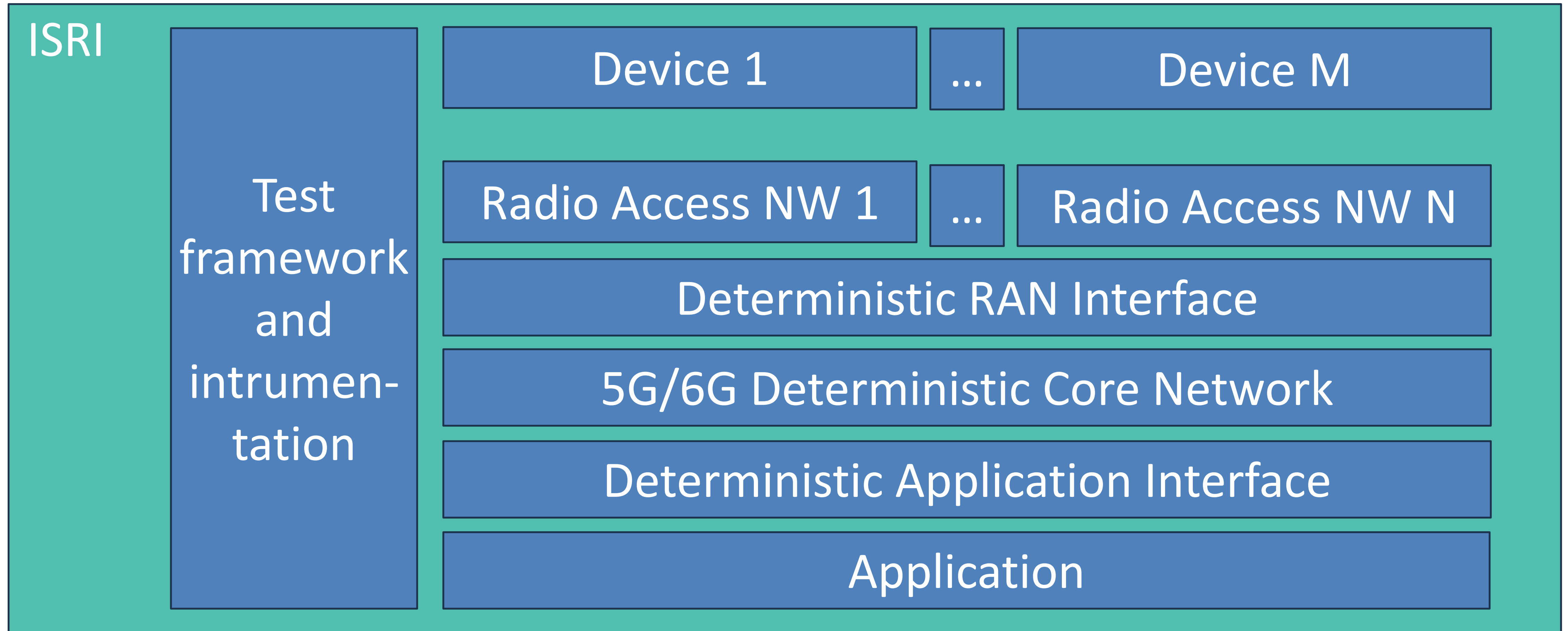
Multi-  
Technology  
Wireless  
Connectivity



**SEW**  
EURODRIVE

Dynamic  
Deployment

# Potential Solution



# Current Partners



Industrial application:  
logistics

Industrial application:  
Cyber-physical  
separation of a  
frequency converter

# New Partners

- We are looking for new partners from Finland and 1 to 2 further countries
- Partners interested in
  - Industrial realtime applications
  - Dependable wireless communication
  - Security for distributed systems
  - Setup of PoCs in real industrial environments
  - Testing of distributed systems

# Project Setup

- Setup of consortium until end of February/Beginning of March
- Application to Celtic Next Call 15. April 2025
- Project duration of 3 years starting Q4 2025
- Project Structure
  - Application Requirements
  - Realtime System Architecture
  - Realtime Interfaces
  - Dependability, Resilience and Security
  - Proof of Concept
  - Management



# Contact Info



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