



The Standards People

ETSI Research Conference 2023

Maximizing the Impact of European 6G
Research through Standardization

DETERMINISTIC6G

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6G SNS

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1. Project Overview

- **Project Name:** Deterministic E2E communication with 6G
 - **Project website:** deterministic6g.eu



- **Stream:** STREAM B-01-01, System Architecture

- **Members:** Ericsson, KTH, B&R, Cumucore, IUVO, Montimage, Silicon Austria Labs, SSSA, University of Stuttgart, Orange

- 6G technology enabler project



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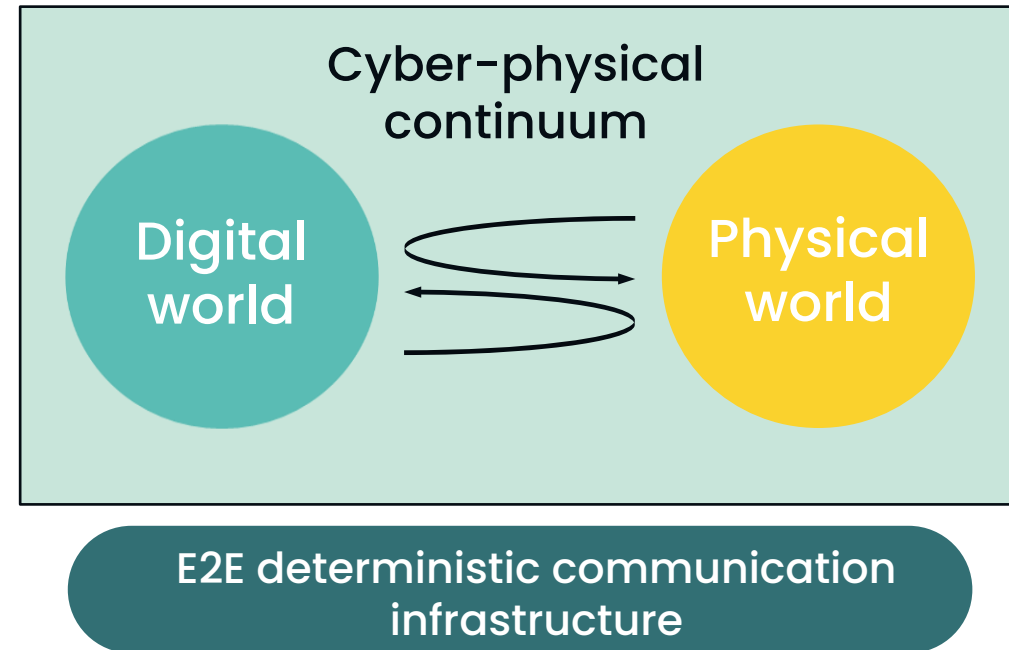
2. Technical Information

- **Project Key Objectives:**

- Develop a new architecture optimizing deterministic E2E communication with 6G to enable innovative use cases

- **Key technologies used/investigated:**

- 6G architecture and interfaces allowing dynamic interactions in integrated heterogeneous infrastructure (6G-DetCom)
- New data-driven ML methods for 6G systems providing probabilistic latency guarantees at run-time
- E2E time awareness for supporting the deterministic operations



3. Planned Standardization Activities

- **Standardization plans / objectives:**
 - exploit wireless-friendly deterministic communication innovations towards standardization activities
- **Project activities / technologies that may lead to standardization:**
 - Concept & solutions development toward 6G-DetCom (6G, TSN, DetNet), OPC UA enhancement
- **Potential targeted standardization bodies / groups:**
 - 3GPP, IEEE TSN working group, OPC UA, IETF DetNet
- **Standardization planning and estimated time plan:**
 - 2024-2025