



# DESIRE6G - Deep Programmability & Secure Distributed Intelligence for Real-Time E2E 6G Networks

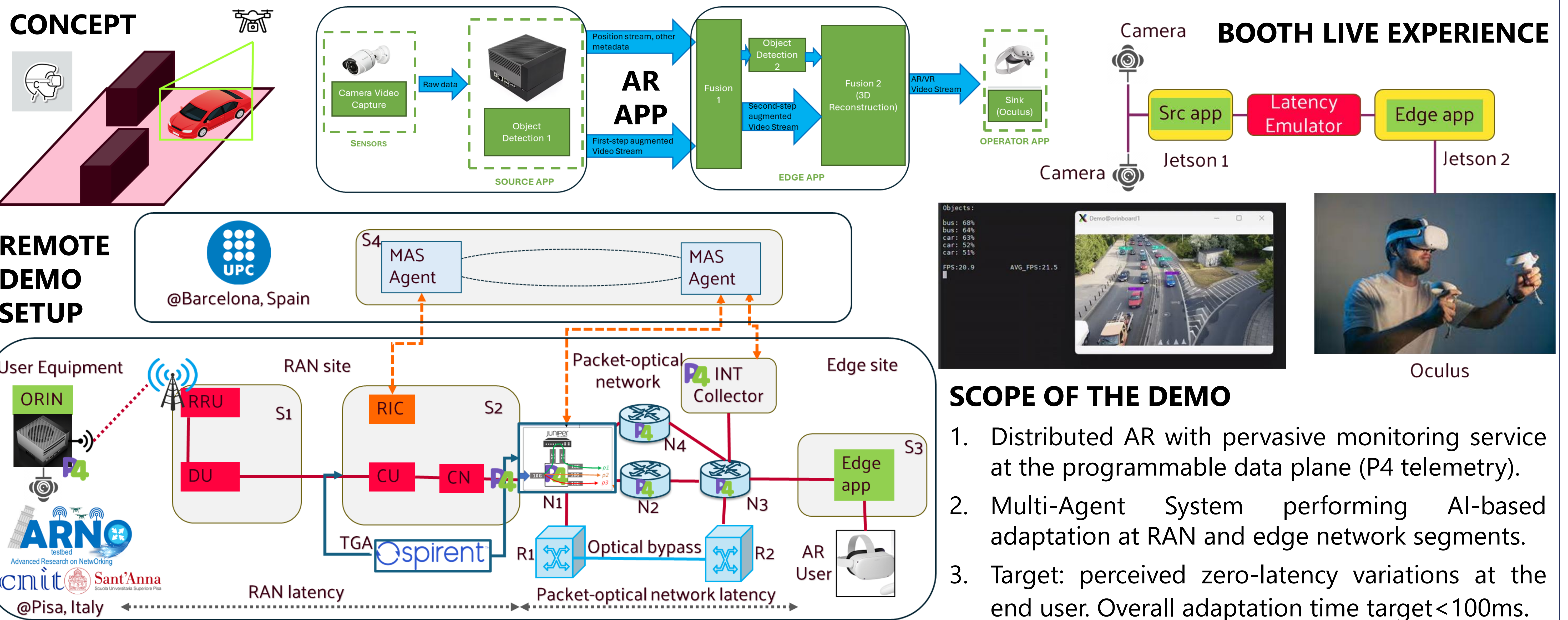
## VISION

Design and develop a zero-touch AI-native control, management & orchestration platform for eXtreme URLLC application requirements over a **performant, measurable and programmable data plane**.

## USE CASES / DEMOS

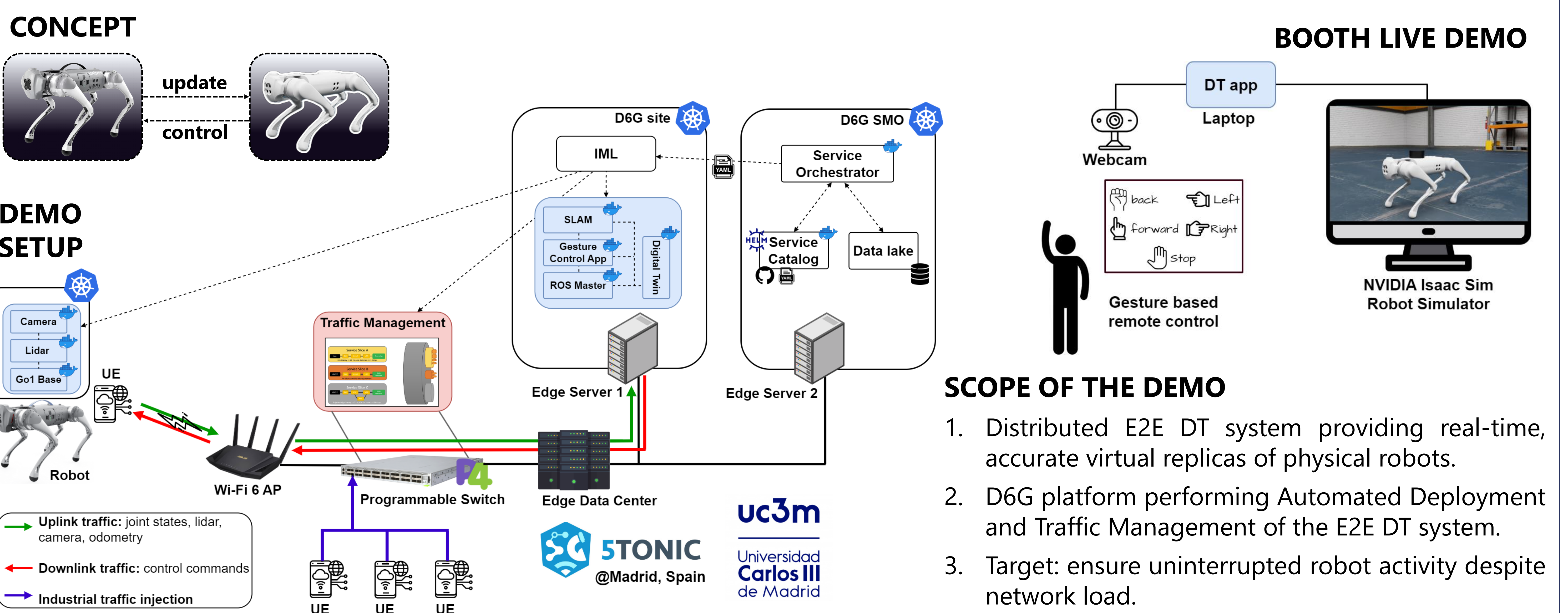
- ✓ Intelligent and resilient VR/AR applications with perceived zero latency
- ✓ E2E Digital Twin

## DEMO 1: AUGMENTED REALITY WITH PERCEIVED ZERO LATENCY



- ### SCOPE OF THE DEMO
1. Distributed AR with pervasive monitoring service at the programmable data plane (P4 telemetry).
  2. Multi-Agent System performing AI-based adaptation at RAN and edge network segments.
  3. Target: perceived zero-latency variations at the end user. Overall adaptation time target < 100ms.

## DEMO 2: REAL-TIME DIGITAL TWINS



- ### SCOPE OF THE DEMO
1. Distributed E2E DT system providing real-time, accurate virtual replicas of physical robots.
  2. D6G platform performing Automated Deployment and Traffic Management of the E2E DT system.
  3. Target: ensure uninterrupted robot activity despite network load.



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**Project lifetime: 01/01/2023 - 31/12/2025**  
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