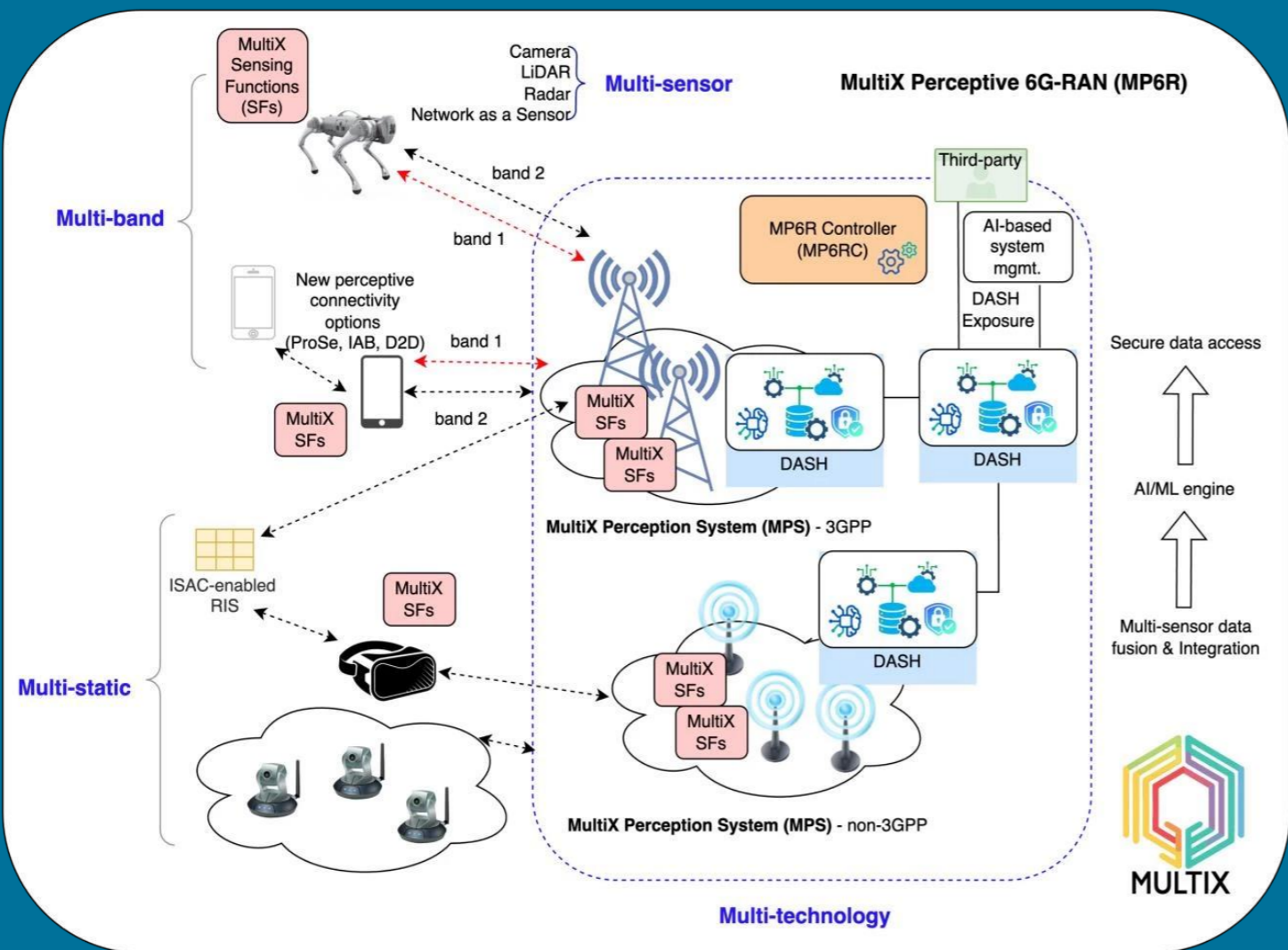


Advancing 6G-RAN

through Multi-technology
Multi-sensor fusion
Multi-band
Multi-static perception



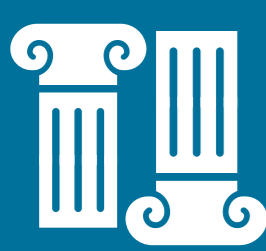
I. Our Vision



II. Key Innovation Pillars



Experiments focus on **human sensing** via **RF**, **multi-band localization**, and integrated **high-speed communication**. Demos show movement tracking, vital sign estimation, and Gbps throughput, with results including new datasets and open SW



Data Access and Security Hub (**DASH**): A full distributed data entity providing **secure aggregation**, **storage**, and **exposure of multi-sensor data**, ensuring privacy and trustworthiness

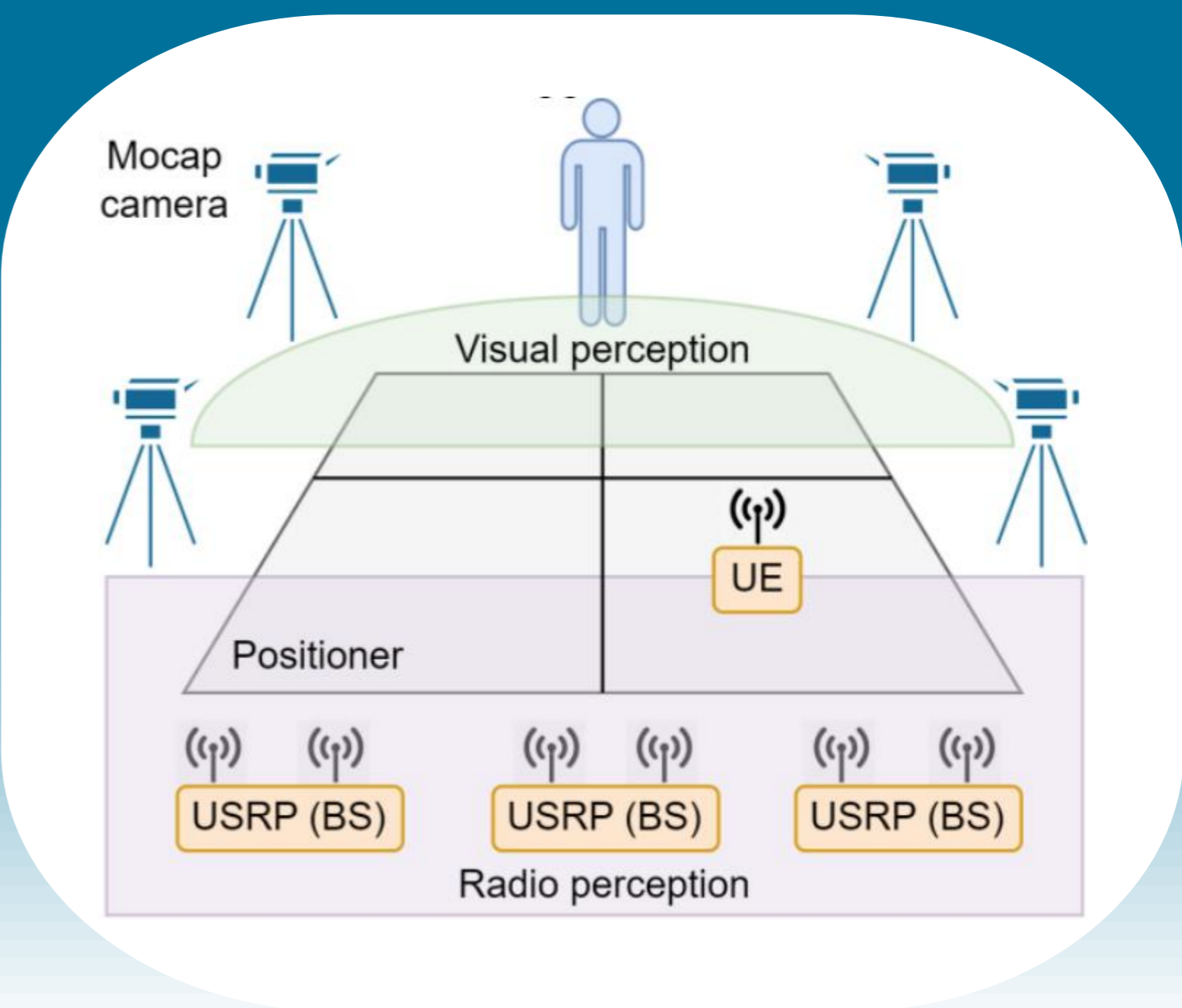
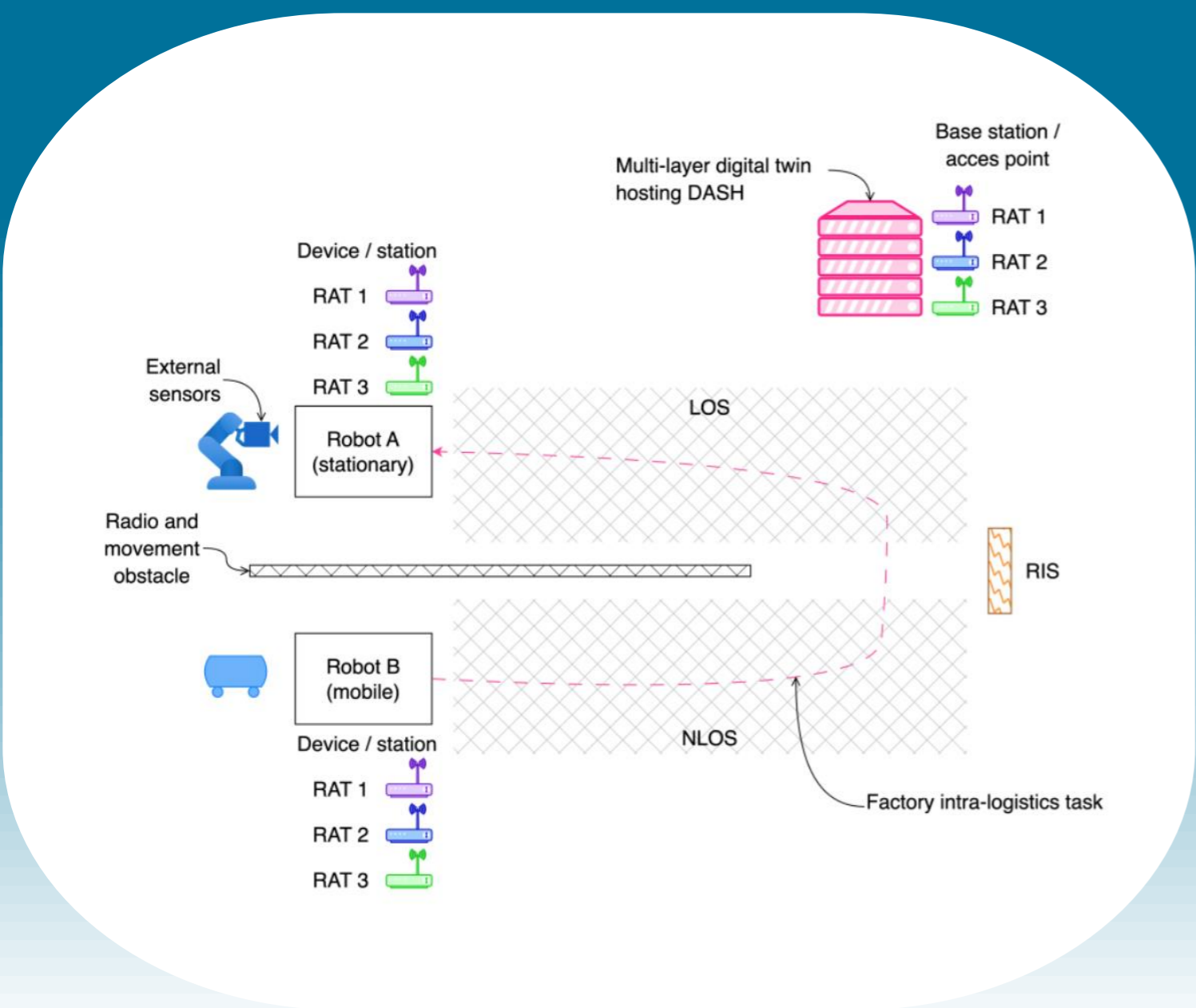


MultiX Perception System (**MPS**): A next-gen **RAN architecture** embedding **multi-sensor**, **multi-band**, **multi-static**, and **multi-technology** ISAC capabilities directly into the RAN stack, enabling plug-and-play extensibility for advanced sensing applications

III. Proofs of Concept

PoC 1) Multi-Layer Digital Twin for **Industrial Manufacturing**

PoC 2) Contact-free **eHealth** Monitoring in Home Environments



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