What is Aerial RAN CoLab – OTA?

- Use Cases
  - Fast track Experimentation
  - Validate and Benchmark Results
  - Full stack C Programmable
  - Radio Network As An Innovation Sandbox

- Foundations
  - Stable
  - Scalable
  - Reliable
  - Performant
  - 6G Features Integrated
  - Cognitive Network
  - Developer Extensible
  - Manage Developer Lifecycle
  - Qualified Blueprints

- Developer Launchpad
  - Developer APIs and Extensions
  - Developer Tools

- Performant Developer Lifecyle
2024 ARC-OTA – 6G Touchpoints

- **Immersive Communications**
  - Immerse XR
  - Multi-sensory telepresence
  - Holographic communication

- **Hyper-reliable and low-latency**
  - Full automation & control in industrial env.
  - Robotic interactions
  - Emergency services

- **Massive Communication**
  - Smart cities
  - Environmental monitoring
  - Agriculture

- **Integrated Sensing and Communication**
  - Activity and movement detection

- **Integrated AI and Communication**
  - Site specific L1 optimizations
  - L1 datasets

- **Ubiquitous Connectivity**
  - Hyper-connected global eHealth
  - Space, HAPs, drones, terrestrial, under-water

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**AI/ML Platform**

SW defined / cloud native

Energy efficient accelerated compute