OpenRAN is an initiative to define and build 2G, 3G and 4G RAN solutions based on a general-purpose vendor-neutral hardware and software-defined technology.

**Why OpenRAN?**

Need for vendor-neutral HW and SW-centric options: OpenRAN Project Group focuses on two fundamental aspects of RAN development: SDR based Software and GPP based Hardware. Revolutionizing the building blocks will result in the RAN being less costly to build and operate but have greater flexibility and power in functionality.

**With OpenRAN**

- **OEMs can develop single-solution equipment** that will interoperate with hardware deployed by any vendor who chooses to adopt TIP technologies.
- **GPP based development**: No vendor specific “secret sauce” – e.g. in Common Public Radio Interface (CPRI) implementation, hardware acceleration, in processor and in chipset optimization etc. thus reducing dedicated HW cost.
- **Multi-vendor flexibility within the RAN**: the ability to adopt best of breed in the RAN space and reduce reliance on a single vendor.
The developments

Streamlined Infrastructure
BBU hardware is based on general purpose platforms

Dynamic Scalability
Virtualized BBU scales up and down as required

Reduced CAPEX and OPEX
Reliability and capacity boosted

Improved Performance

Use cases

Rural Scenarios
Dense Urban Scenarios

Multiple deployment scenarios can be supported by a variety of off-the-shelf hardware platforms

With OpenRAN, continued

• Allows for a wide range of vendors to provide innovative, best of breed RRUs and virtual BBUs compatible with GPP hardware options for a diverse set of deployment scenarios.

Benefits

• Can use pluggable modules from other vendors
• More cost-effective than traditional integrated platform solutions
• Expands RAN vendor ecosystem and drives innovation

What next

• Learn more about Telecom Infra Project telecominfraproject.com
• Join the OpenRAN Project Group: telecominfraproject.com/openran/ to learn and contribute
• Contact us with questions or comments: OpenRAN-info@telecominfraproject.com