



TELECOM INFRA PROJECT®

Who We Are



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Governance & Scope





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Francisco Martin Pignatelli
President



Larry Alder
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Board Member



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Board Member



Cristina Rodriguez
Board Member



Kaniz Mahdi
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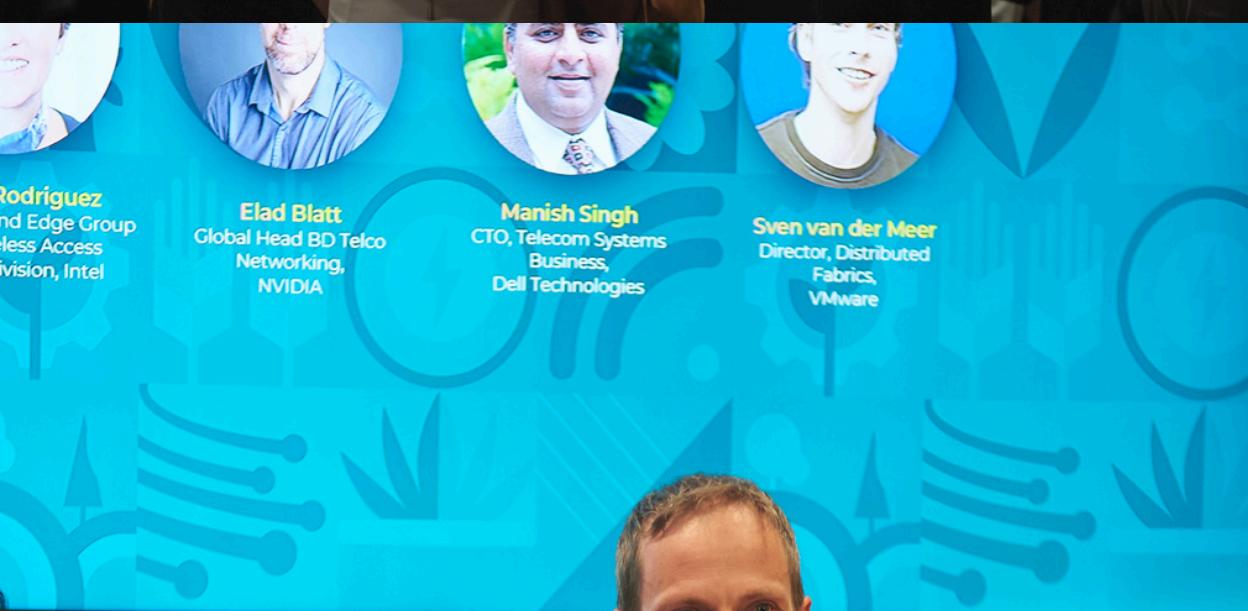
Satish Sharma
Board Member



Thomas Lips
Board Member

Our Mission

TIP is a global community of organizations working together to accelerate the deployment of open, disaggregated, and standards-based network solutions. TIP convenes industry and policy stakeholders, providing a neutral platform for innovation and industrialization, allowing its members to achieve their objectives.



How We Work

We collectively channel our efforts through the **TIP Framework** and more than 800 experts working in our Project Groups.

Defined use cases, blueprints, and test requirements within Project Groups



Neutral Host
& Infra Sharing
TELECOM INFRA PROJECT



OOPT™
TELECOM INFRA PROJECT



OpenLAN™
TELECOM INFRA PROJECT



OpenRAN™
TELECOM INFRA PROJECT



TelcoAI™
TELECOM INFRA PROJECT

TIP Testing Framework certifying deployable solutions



Test & Validation Council



Badge allocation based on test completion against defined criteria



Network of regional TIP authorized labs



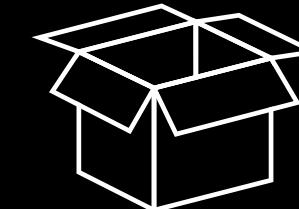
TIP ACADEMY
TELECOM INFRA PROJECT

15 courses and webinars
5 global partners

Promotion of TIP-certified solutions and suppliers



TELECOM INFRA PROJECT



Showcase of trusted solutions



by TELECOM INFRA PROJECT

TIP-certified vendors and integrators

Convene and promote across the industry

DEFINED USE CASES, BLUEPRINTS, AND TEST REQUIREMENTS WITHIN PROJECT GROUPS

TIP's Project Groups act as **incubators for new ideas and technology**, working on specific technical and operational challenges within the telecommunications industry. They identify key problems and propose solutions by developing use cases, requirements, and test plans.

This collaborative effort helps to create blueprints, which are **comprehensive roadmaps that provide a structured approach** for deploying a system with specific features and product requirements.

TIP Testing Framework certifying deployable solutions

Promotion of TIP-certified solutions and suppliers



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Defined use cases, blueprints, and test requirements within Project Groups

TIP TESTING FRAMEWORK CERTIFYING DEPLOYABLE SOLUTIONS

Promotion of TIP-certified solutions and suppliers

Solutions are tested against the defined criteria using the **TIP Testing Framework**. This process is managed by our **Test & Validation Council**, and uses a network of regional TIP-authorized labs. The completion of tests against these criteria leads to a badge.



BRONZE

A vendor has self-assessed and confirmed their product or solution complies with TIP's requirements.



SILVER

A product has been tested in a controlled environment to verify its alignment with TIP-defined specifications.



GOLD

A solution has been comprehensively tested, usually in a live environment, and validated in accordance with TIP's test plans.

Defined use cases, blueprints, and test requirements within Project Groups

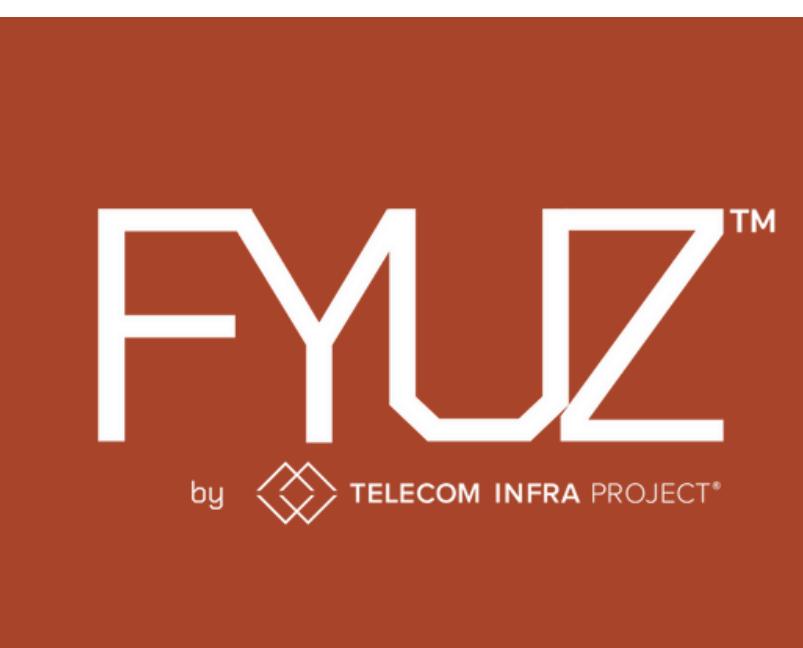
TIP Testing Framework certifying deployable solutions

PROMOTION OF TIP-CERTIFIED SOLUTIONS AND SUPPLIERS

After a solution or product has been tested and badged, TIP promotes it through several channels to **encourage industry adoption**.

TIP promotes its certified vendors and integrators by **providing a public platform to showcase their commercial-ready solutions**, which have been rigorously tested and validated to build buyer confidence and **accelerate global deployment of open networks**.

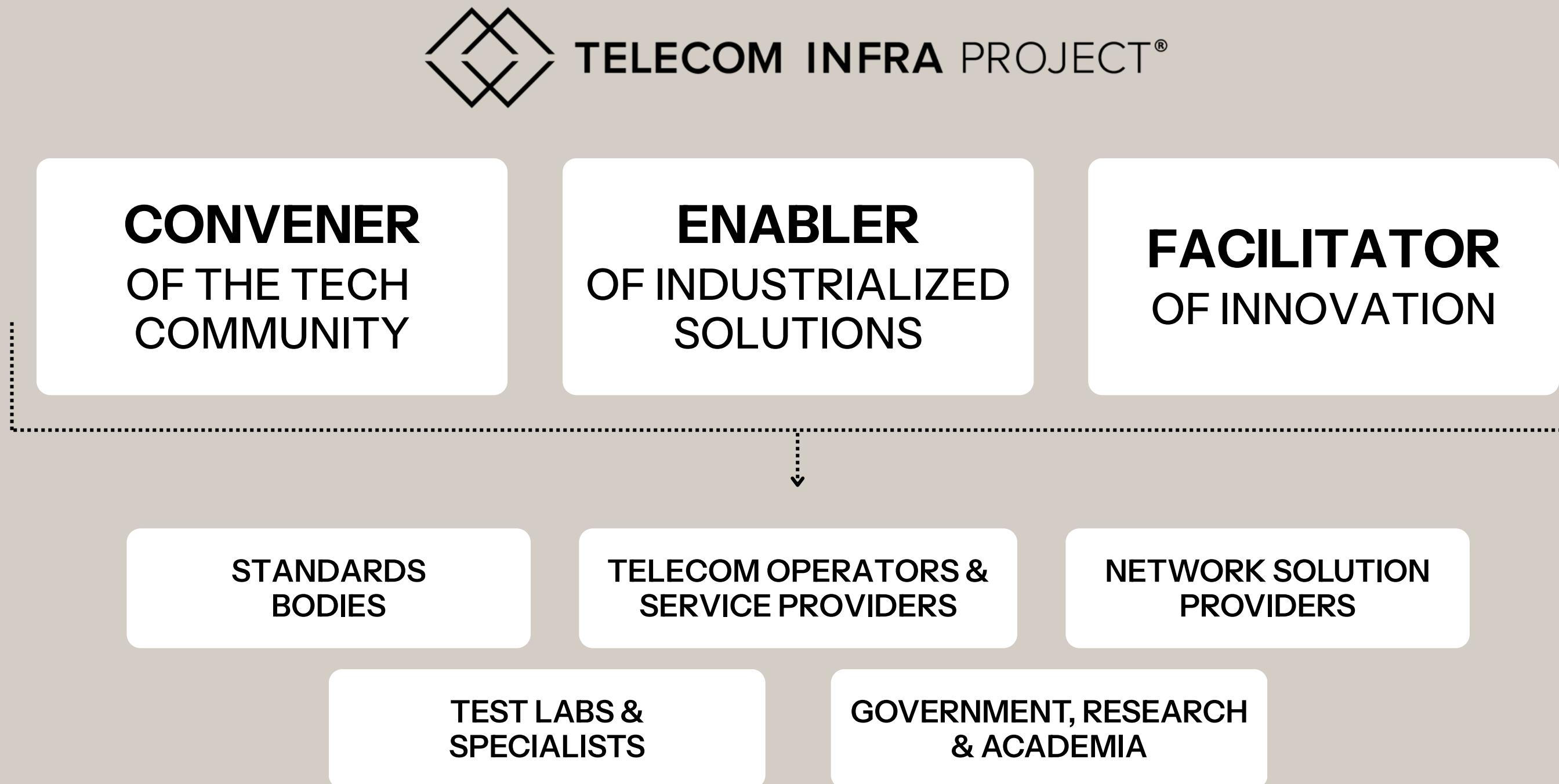
This approach enables a **“test once, deploy many times” model**, streamlining the supply chain and making it easier for operators to adopt new technologies.



A showcase of TIP-qualified products and solutions from the community. It serves as a marketplace where service providers can simplify their search for interoperable solutions and connect with verified partners. This platform helps to drive new connectivity solutions to the market by providing a space for solution providers to demonstrate their capabilities and form partnerships.

TIP's signature annual trade event, bringing together a community of innovators and industry professionals to network, share knowledge, and promote their businesses. The event serves as a platform to educate the community on the future of open and disaggregated networks. Fyuz hosts a wide range of attendees, including operators, vendors, systems integrators, and policymakers.

TIP is uniquely positioned to enable market scaling of Open Network Solutions



GLOBAL OUTCOMES

Certified,
Deployable
Solutions

More
Deployments

Supply
Diversification

Global Scaling

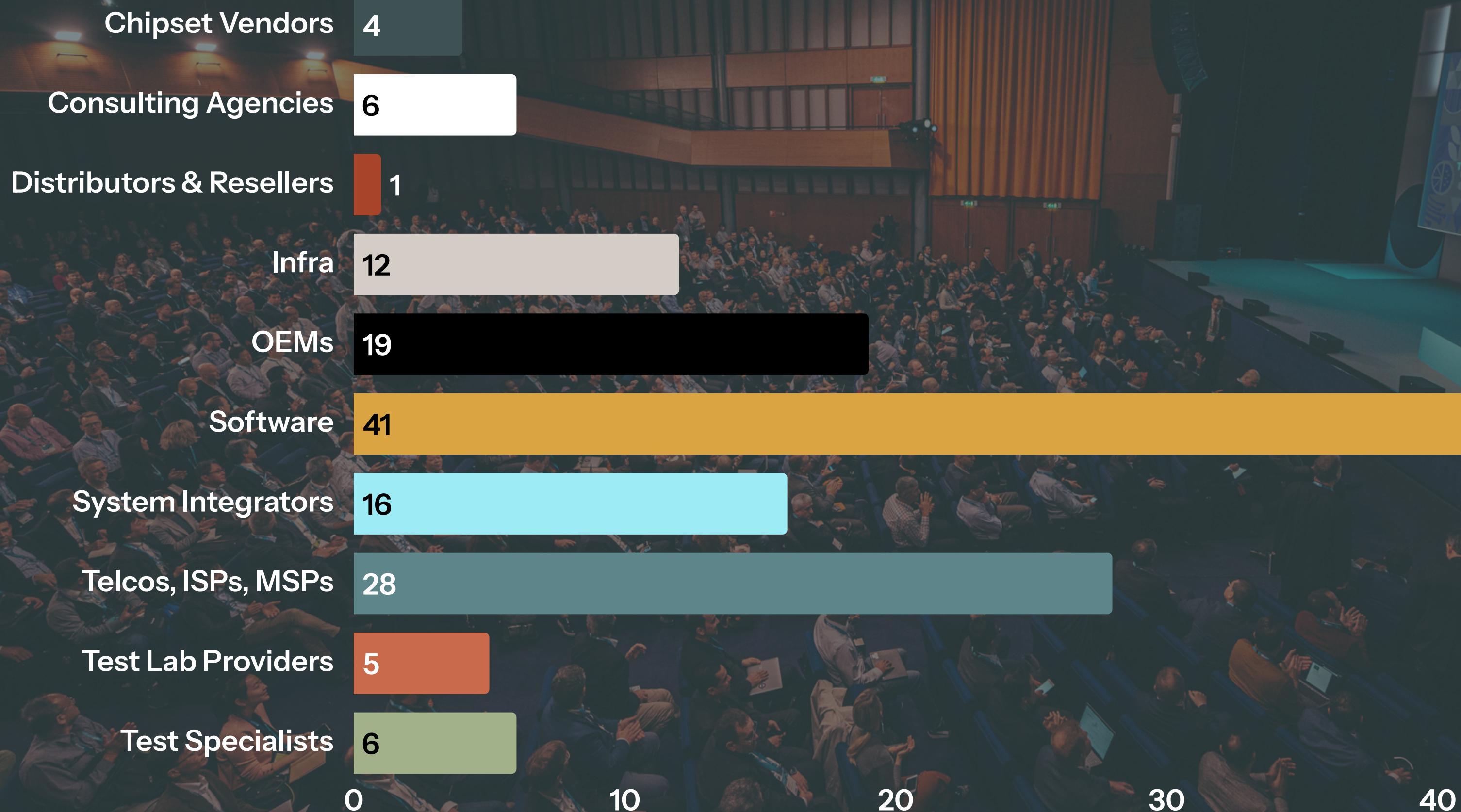
Further
Innovation



Project Group Activities & Priorities

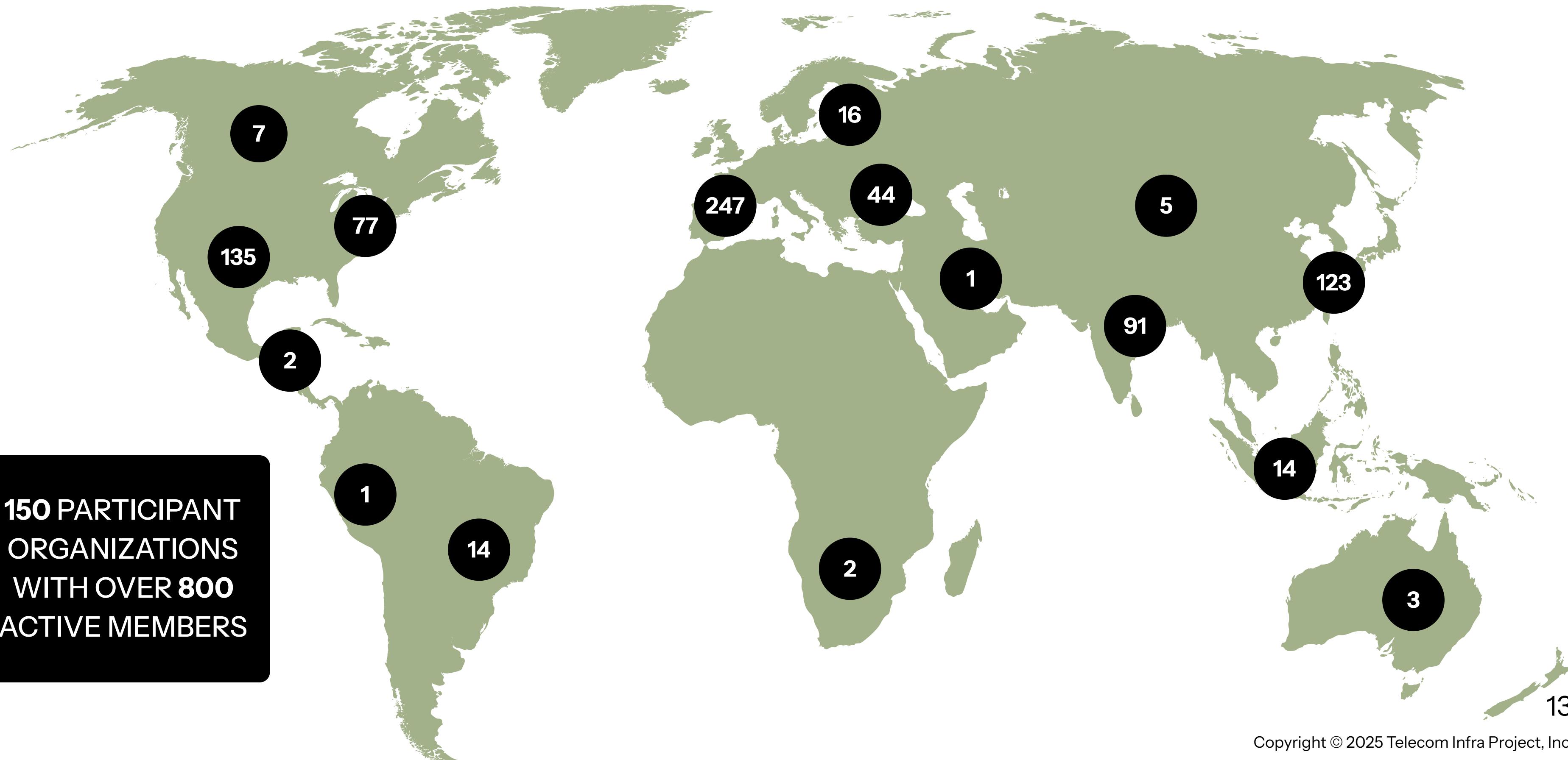


Participating Organizations by Classification



COMMUNITY BREADTH & DEPTH

Participating Members by Continent





Neutral Host & Infra Sharing



OOPT™



- Led by **IONX Networks, CloudExtel, Proptivity, Airspan**
- Focus on showcasing technically and commercially viable Neutral Host models integrated with mobile operators, deployed to address inbuilding and outdoor densification coverage requirements in different regions.

- Led by **Telefónica, Orange, MTN, Vodafone, Telia, NTT, KDDI**
- Growing community and strong market visibility, aligned with IOWN Global Forum
- Multi-operator testing program for IPoDWDM
- NTT and MTN deploying Phoenix 400G transponder



- Led by **Shasta Cloud, Join Digital, Inventum, Galgus, Pavlov Media**
- Enterprise-grade, open source-certified, end-to-end WiFi system and LAN switching, in line with WiFi 6 and 7 standards
- Grow market for TIP OpenWiFi, with hundreds of thousands of access points deployed for the multi-dwelling sector and mobile offloading

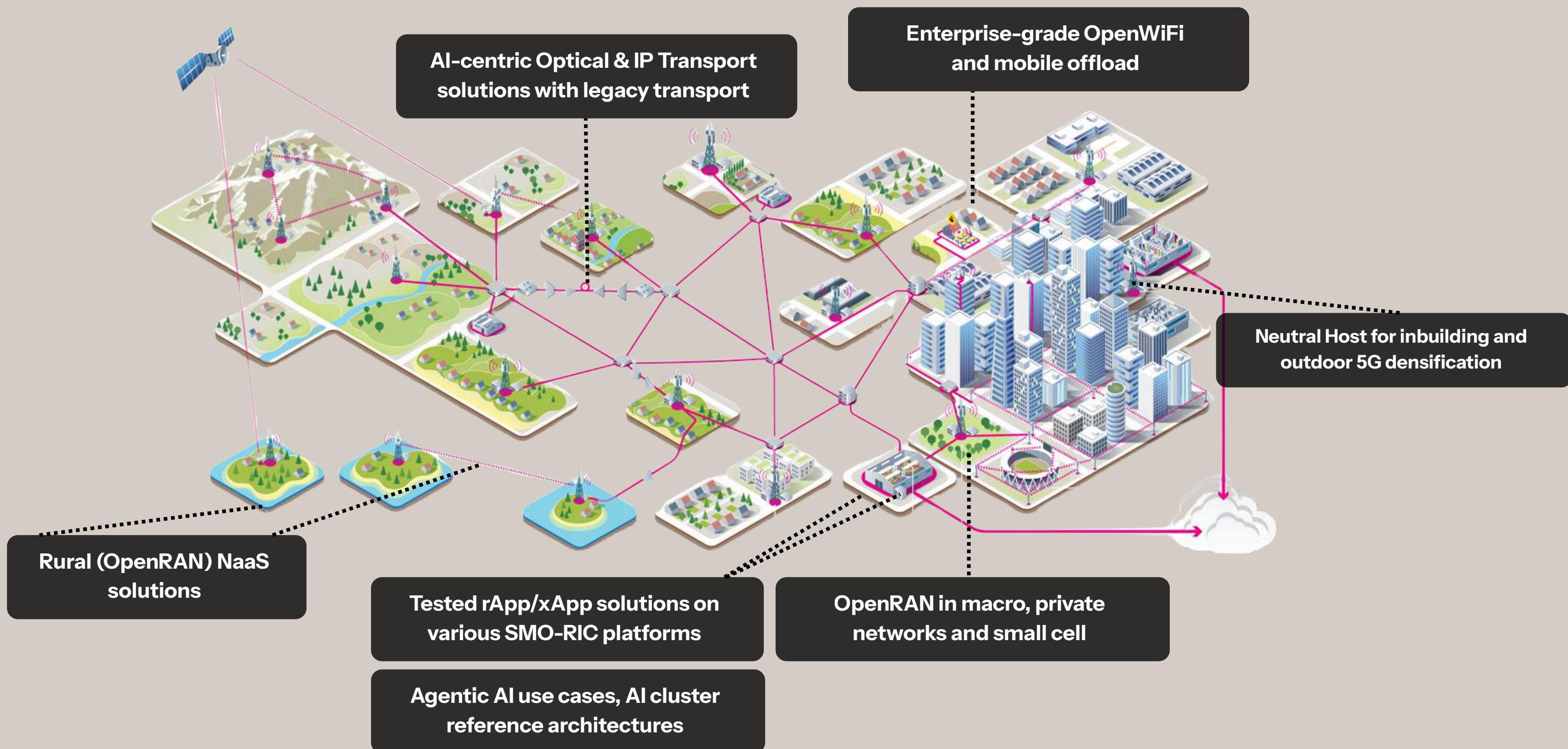


- Led by **AT&T, TELUS, Boost Mobile, Deutsche Telekom, Vodafone**
- Solutions subgroup focusing to enhance Open RAN system performance
- Scaling SMO-RIC and rApps marketplace with definition and telco-grade testing of a prioritized set of telco-requested rApps

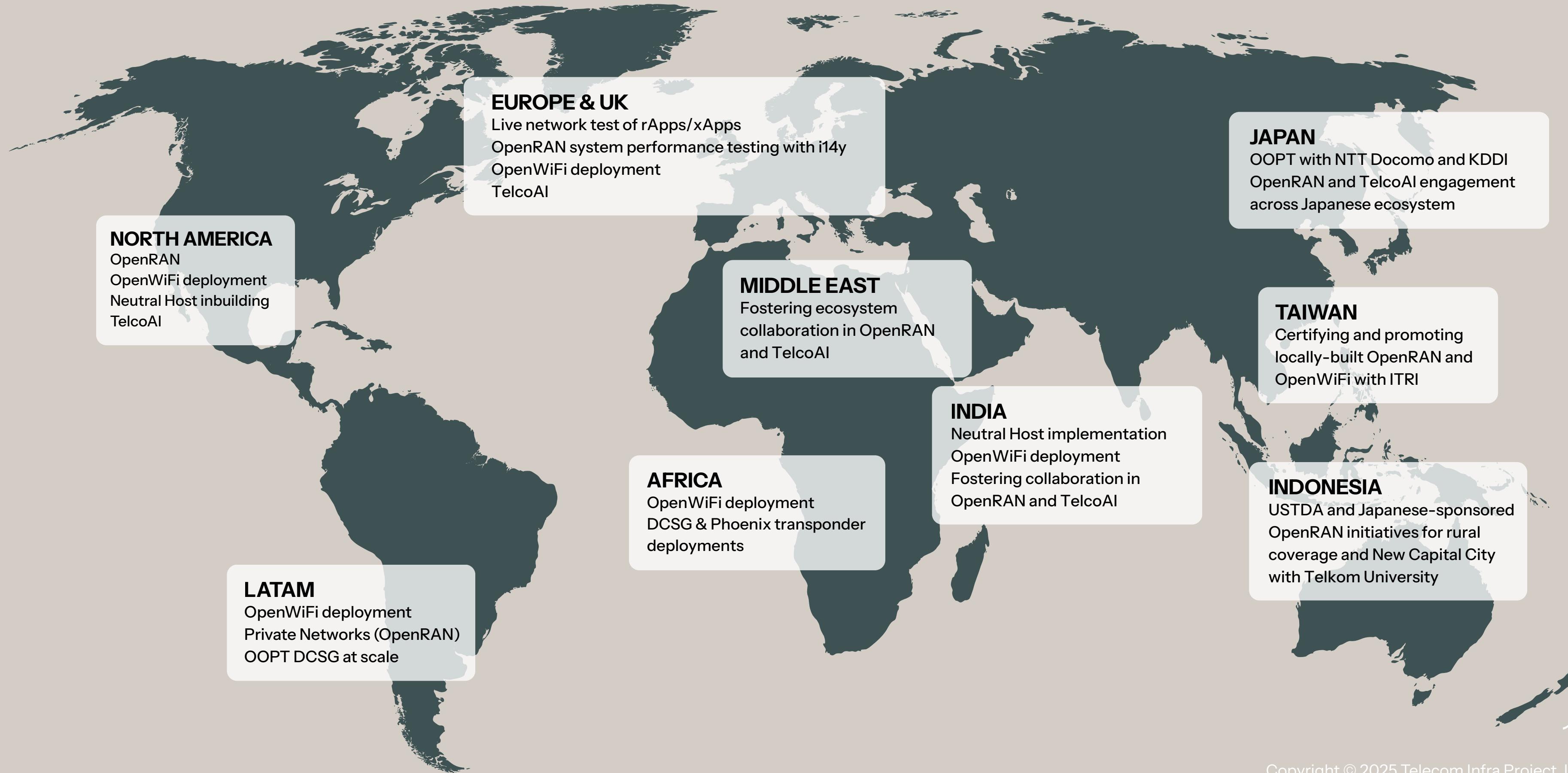


- Led by **Orange, Deutsche Telekom, NVIDIA, Intel**
- Reference architecture blueprints defined for different AI cluster sizes
- Initial use case focus on Agentic AI solutions for B2B and B2C with Orange PoC
- Develop an industry facility or blueprint for real-world network data management, and governance for training and productizing AI applications

TIP has blueprinted examples of validated and deployable solutions based on common telco requirements



Coordination with industry and government activities to drive economies of scale and further innovation



Key Highlights

Testing & Badging

First OpenRAN System Performance Test Plan published

MANTRA multi-vendor IPoDWDM Proof of Concept

~40 TIP Badges awarded over the course of 2024

Trials & Deployments

9 priority rApps/xApps tested live

Phoenix Open Transponder tested live in South Africa

100K+ OpenWiFi Access Points deployed globally

Breaking New Ground

2 Playbooks published supporting neutral host deployment

Charting new areas of innovation in TelcoAI

800+ certificates issued to 1500+ learners by TIP Academy



in collaboration with **accenture**

TIP Academy: Addressing the skills gap as the industry transforms

We estimate that the **\$14 billion** global equipment market draws a directly-related services market of **\$21 billion**--about **60% of the total addressable market**.

This associated services market requires more than **170,000 new trained resources** by 2028, with a mix of skills, including:

- Software and systems integration
- Cloud and virtualization technologies
- 5G and 6G communications



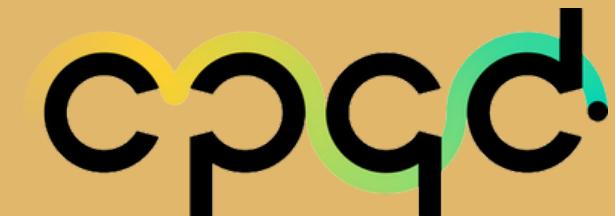
in collaboration with  accenture



in collaboration with **accenture**

A network of global partners delivers TIP Academy value to communities of telecom professionals and students:

Industry-neutral **B2B** and **B2C**
Available now: OpenRAN, Telco Cloud
15 courses and webinars:
• **1500+** enrollments
• **800+** certificates issued
Learn more: www.tip.academy





Fyuz, Telecom Infra Project's signature 3-day trade event since 2022, **brings together innovators, thought leaders, and industry professionals** to shape the future of telecommunications and digital infrastructure.

This dynamic event offers a collaborative platform for **networking, knowledge exchange, and solution-building**, all focused on accelerating the deployment of cutting-edge technologies that drive connectivity around the world.





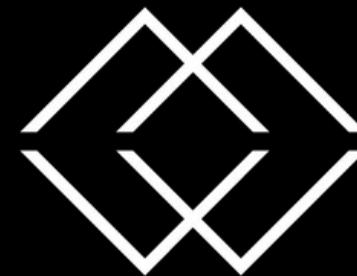
Powering the Future of Telecom

The Telecom Infra Project (TIP) is a global force driving a revolution in network infrastructure. We are a diverse community of organizations dedicated to accelerating the deployment of open, disaggregated, and standards-based network solutions. By providing a neutral platform for innovation and industrialization, TIP empowers its members to achieve their objectives and reshape the industry.

Join the Movement

By bringing together operators, solution providers, and other key players, TIP fosters an environment of collaboration that leads to more deployments and global scaling. We are not just talking about the future of telecom—we are building it, one open solution at a time.

www.telecominfraproject.com



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