Shared, Open and Disaggregated Networks to Fast Track Digital Inclusion
Global data consumption predicted to rise annually by 47% over the next few years. Meanwhile, mobile ARPU values are falling.

28.5B Networked devices and connections (mobile & fixed).

Over half of the world’s population, still do not have access to the internet.

Of those connected, many could use a more reliable Internet with improvements in bandwidth and latency.


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WHAT IS TIP?

The Telecom Infra Project (TIP) is a global community of companies, organizations, and institutions. They’re working together to accelerate the development and deployment of open, disaggregated, and standards-based technology solutions.

Together We Build, Test & Deploy.
WHO IS TIP?

A wide diversity of members and scope of activities

SERVICE PROVIDERS
Satellite ISPs MNOs MSOs

TECHNOLOGY PARTNERS
Established & Smaller OEMs Startups Research Institutes

SYSTEM INTEGRATORS
Professional Integrators

CONNECTIVITY STAKEHOLDERS
Municipalities Enterprise Internet Companies

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Fast tracking digitization requires additional investments and increases network operational costs

- New deployments may increase network expense proportionally to the number of new sites
- This makes it challenging for connectivity providers to meet the needs of digitization
The industry can work together to build, share and deploy networks

**NETWORK SHARING**
By sharing physical infrastructure, connectivity providers can significantly reduce operational costs (e.g. site rent, maintenance costs, …)

**NEW TECHNOLOGIES**
Through disaggregation and open interfaces reduce deployment costs, enable operational efficiencies (e.g. through automation) and accelerate innovation.
THE SOLUTION
Networks sharing improves the business case for better connectivity

I. FAST TRACK DIGITIZATION
- **Fast track** digitization initiative as stakeholders works together to achieve common goal
- **Reduce risks** for all stakeholders
- **Build more** infrastructure vs. Build singular networks

II. SIMPLIFY REGULATORY FRAMEWORKS
- Simplified **regulatory framework** as infrastructure sharing normalize the connectivity foundations
- Open Infrastructure to advance **digital economy**

III. INCREASED INNOVATION
- Stakeholders focus on **innovation** as network infrastructure is shared giving equal opportunity
- Reduces network infrastructure "clutter", optimize network infrastructure

BENEFITS OF NETWORK SHARING
Open, disaggregated networks further optimise the business case for better connectivity

I. BETTER NETWORK ECONOMICS
- Disaggregated network functions **reduce risks** for operators from a currently **fragile supply chain**
- Open interfaces facilitate **operational automation** (lower OpEx)
- Virtualized architectures enable efficiencies in **computing capacity** (lower CapEx)

II. FUTURE PROOF NETWORKS
- Open network HW and SW future **proof network investment** and prepare network for future technology evolution **without being “locked in”**
- SW-based architectures are more flexible to introduce **new services**
- **Increased Network adaptability** which lowers deployment costs

III. INCREASED INNOVATION
- Disaggregated multi-vendor networks **accelerate network innovation**, as operators can choose “**best in class**” solutions for each network component / function

**BENEFITS FOR THE INDUSTRY FROM OPEN, DISAGGREGATED NETWORKS**
Open and disaggregated networks

The combination of SW-HW disaggregation and open interfaces helps the industry:

- Create a more sustainable Supply Chain
- Improve network economics
- Increase innovation in connectivity
WHAT WE ARE BUILDING TOGETHER

A very substantial progress: there are trials & commercial deployments of open and disaggregated solutions across the world.
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