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Future-proof digital infrastructures
and platforms for the Alpine area

The contribution of EUSALP to close the gap

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Alpine Area infrastructures: where we are and what we need

Several transnational backbones already exist but is strategic to increase density and neutrality in the Alpine area.

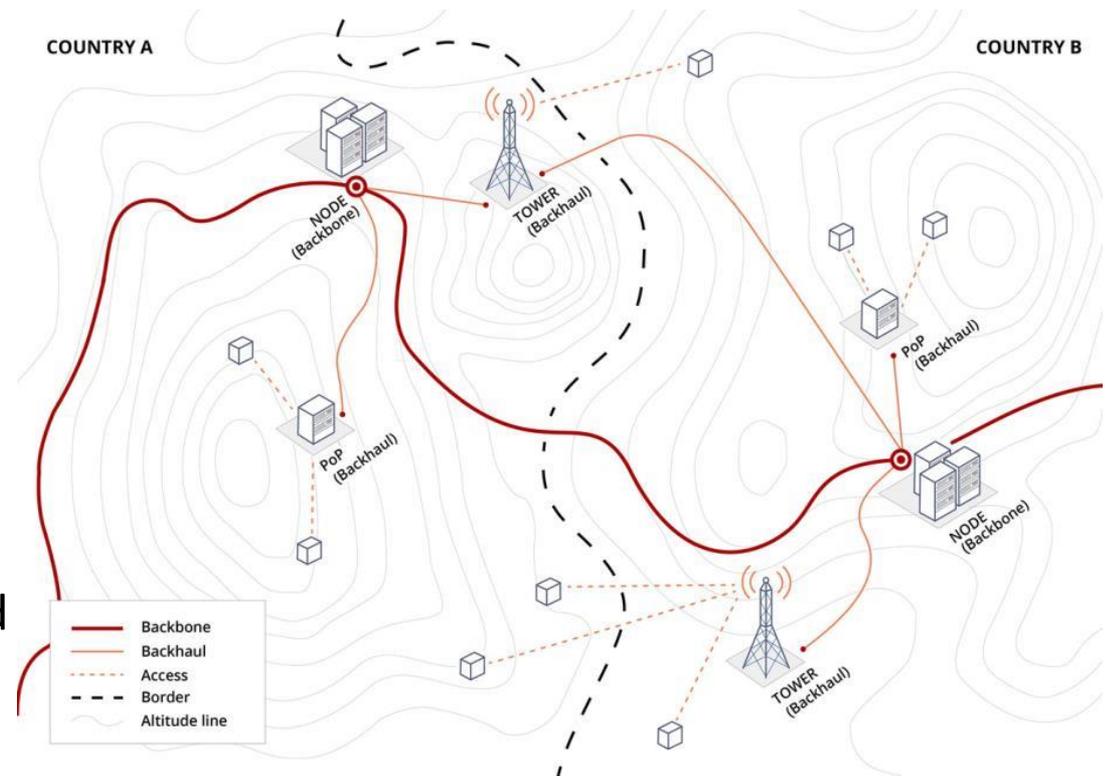
National networks - public and private owned - are “not so close” to the border while villages are the last frontier, often served in FWA.

Infrastructures are needed to match network evolution

- More fiber for backhauling
- Common locations to host ICT devices
- Other fiber for network redundancy (both backbone and backhaul)

Alpine Area infrastructures: where we are and what we need

- Fiber redundancy is a key requirement for high availability services
- While backbones seem already reliable, backhauling still has a lack and should be increased
- Common locations (PoPs) need to remain neutral to help market growth
- Many PoPs must be created and connected to increase service coverage



Advantages expected

Technical

- High speed and very low latency
- Better coverage and redundancy
- Decentralization through development of edge/fog computing with smaller data centers capable to manage local traffic

Human

- Increase cross-country cooperation
- Foster digital skills and information society in cross-border areas
- Balancing negative demographic trends of mountain areas, attracting new residents by hiring local people in telco and proximity data center
- Foster competitiveness in telco market (wholesale model) to get more and better services at lower prices

Closing the gaps

Main issues

- Technical Fragmentation
- Governmental Fragmentation
- Commercial Fragmentation

Feasibility of new links

- Maturity of the existing connections: availability of infrastructures/investment required
- Ease to access to infrastructures: both the access to the existing fiber optics and the closeness/availability to other neutral facilities
- Ownership fragmentation: number of owners on each physical route
- Complexity of governance: public/private or neutral/not-neutral

Further steps:

1. Assessment of required investments
2. Involvement of public and private stakeholders
3. Targeted level of cooperation among stakeholders
4. Funding model



<https://www.alpine-region.eu/publications/cross-border-connectivity-alpine-region>

Title of the Study: Cross border connectivity in the Alpine Region: analysis and development according to network evolution

Authors: Top-IX Consortium, Prof. Carlo Alberto Carnevale Maffé

Publication: 27.09.2019

Practical application

SMART & SUSTAINABLE OUTDOOR SPORT AREAS



SMART VILLAGE: “DISPERSED HOTELLERIE”, SMART AGRICULTURE AND DIGITAL TOURISM



SMART NATURAL PARK



SMART MOBILITY & LOGISTICS





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Thank you for your
attention!

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