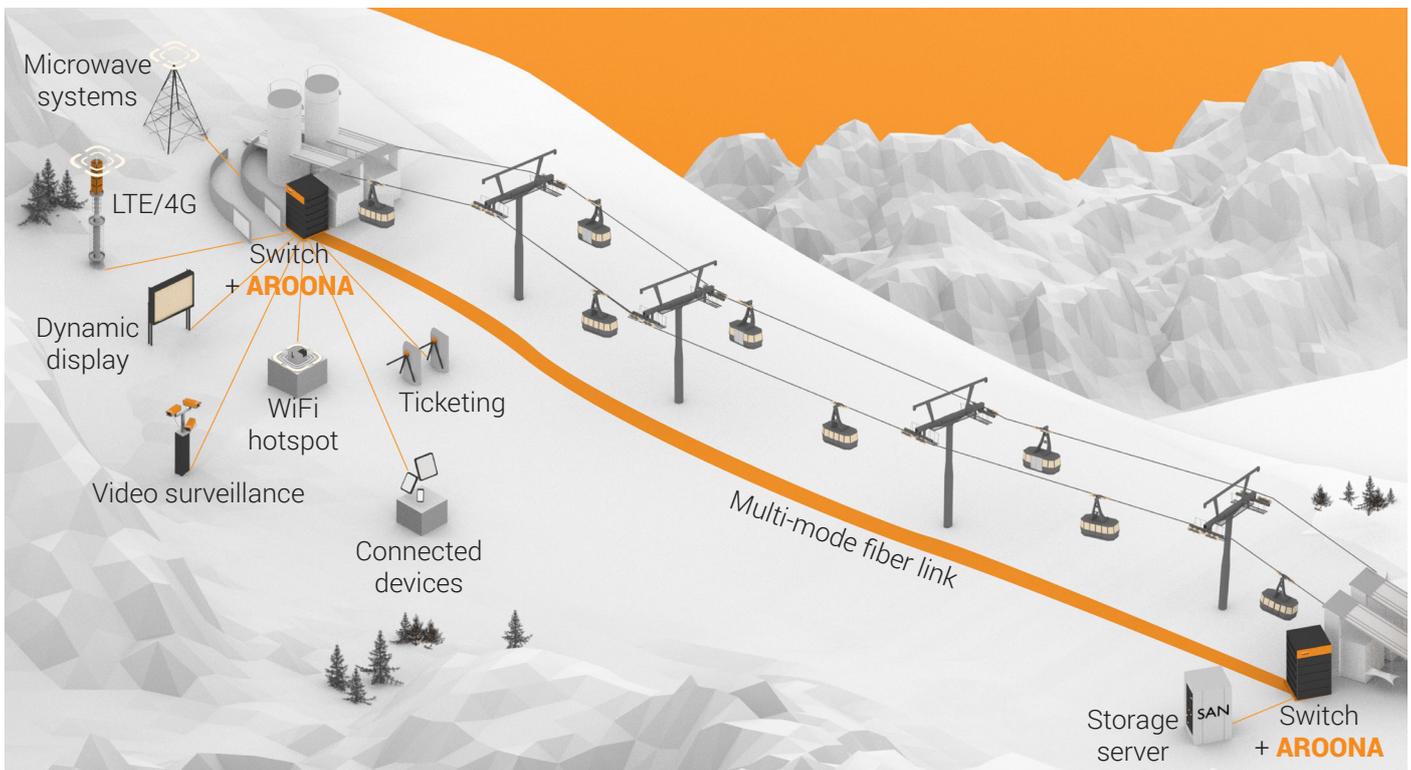


# AROONA

Deliver broadband connection up to the top of ski slopes, without deploying new fiber.

Transform a multi-mode fiber link in **4 independent high throughput** channels of 10 Gb/s up to 10 km



The IT network of ski resorts is being modernized, up to the top of ski slopes. The growth of digital services represents a huge data flow that multi-mode fibers deployed alongside ski lifts cannot support.

Deploying a single-mode cable is one solution to avoid this bandwidth limitation, but specific constraints of mountain environment make new deployment very complex and costly.

CAILabs offers to harness the full potential of your existing multi-mode fibers by multiplying up to 400 times their capacity with Aroona technology.



## Use case

You wish to install new digital services at the top of ski slopes, such as ticketing, WiFi hotspots or video surveillance. These services require a few Gb/s of data throughput for a good quality of service. However, the existing fiber of 1800 m is an OM1 multi-mode fiber limited at 100 Mb/s.

Roll-out of a **new cable of single-mode fibers** is very **costly**, and particularly **complex** considering the length and the access conditions to existing cables ducts.

With **AROONA**, it is possible to upgrade the capacity of one pair of multi-mode fibers up to **4 x 10 Gb/s, without any new fiber deployment**. Aroona allows a flexible and progressive capacity increase of the network to high broadband and ensures the sustainability of the infrastructure.

« Despite the distance and the connection between old generation OM1 fibers over a distance of 3.3 km, we enjoy now several links at 10 Gb/s at 3200 m thanks to Aroona. It allows us to offer new digital services to our customers and colleagues. Without this technology, a fiber deployment in the mountains would have been very long and costly. To sum up, it is a successful encounter between high mountains and high technology. »

Patrick Jullian, network administrator, Deux Alpes Loisirs

## Aroona in a few words

### Up to **x400 capacity increase** for LAN multi-mode fiber

- 4 independent parallel channels
- 4 x 10 Gb/s data throughput up to 10 km



### Compatibility with **standard equipment**

- All multi-mode 50/125µm fibers (OM2/OM3/OM4) or 62.5/125µm fibers (OM1)
- Standard single-mode transceivers
- Transparent to communication protocol



### **Controlled investment**

- Quick installation, easy characterization, minimum disruption
- Up to 10 times cheaper than new fiber roll-out, avoid deployment hidden costs
- Return on investment is possible by renting bandwidth to telecoms operators



### **Awards and Prizes**



Innovation IT Trophy



Innovation IT'Night Prize



Cisco Country Digitalization Acceleration



Huawei Digital IN-Pulse Award

