

BACKBONE NETWORK REGIONAL DWDM

AUVERGNE-RHÔNE-ALPES
REGIONAL COUNCIL



La Région
Auvergne-Rhône-Alpes



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THE PROJECT

In 2013, Axione took care of the implementation of a Very High Speed regional network on behalf of the Auvergne Rhône-Alpes Regional Council. This comprehensive service also included the operation and maintenance of the network that was to interconnect 1500 educational institutions throughout the region. Access to the Very High Speed network improves the day to day lives of teaching staff and is an aid to learning for school students.

1,500

EDUCATIONAL INSTITUTIONS
INTERCONNECTED VIA A
VERY HIGH SPEED NETWORK

10

GIGABIT/S DE NETWORK
SPEED IN WDM TECHNOLOGY

24

INTERCONNECTION POINTS OF
PRESENCE FOR DEPARTMENTAL
(COUNTY) NETWORKS

The challenge:

Since 2013, Axione has ensured the provision, implementation integration and the administration of the *Amplivia* regional Very High Speed network for the Auvergne-Rhône-Alpes Regional Council. The service provided has made it possible to interconnect

1500 educational institutions (including universities, high schools, lower schools and primary schools) throughout the entire region, and it has been extended to the Auvergne in the last few years. Access to the Very High Speed Network has meant that the teaching staff and students are able to enjoy optimal connections, in order to develop innovatory digital projects (for instance: classes taught via video-conferencing, learning using digital media etc.)

The Axione teams also manage network operation and maintenance, ensuring a continuous, uninterrupted Very High Speed connection.

AXIONE'S SERVICES

Supply and installation of a WDM activation solution for the black fibre installation.

- Design of the *Amplivia* network based on DWDM technology, making it possible to scale up the system's speed for large capacities of up to 100Gbit/s
- Installation and implementation of equipment owned by the region

Operation of the WDM infrastructure

- Project management: operational project monitoring, analysis of technical matters, contract management, monitoring of scheduling and key project indicators
- Supervision of the *Amplivia* network and management of incidents by the Pau monitoring centre, year-round and 24/7

Preventive and corrective maintenance

- Annual preventive maintenance visit
- On site corrective maintenance

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Axione's Assets

- Strong commitment to service consistency when deploying new connections, with operations with no interruption in service provision.
- Monitoring of equipment 24/7 and management of access restrictions to guarantee that service is reestablished within 4 hours in case of interruption.

CLIENT BENEFITS

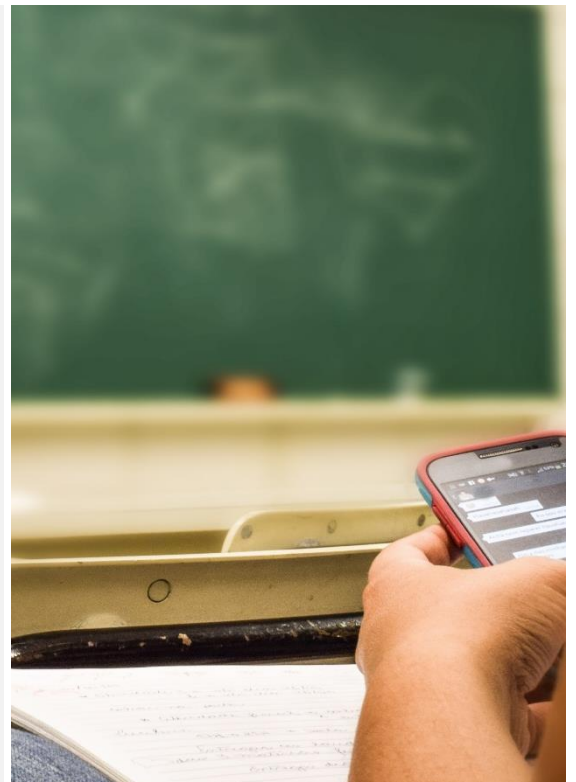
A network that is

 **reliable and
performs well**

- A reliable, secure, interconnected network enabling all educational institutions to communicate remotely.

Optimum connection for educational establishments

- A Very High Speed connection that enables the use of teaching media and tools to facilitate student learning and the day-to-day lives of teaching staff.



KEY INFORMATION

DWDM regional backbone network // Project Manager: **Axione** // Client: **Auvergne-Rhône-Alpes Regional Council** // Start of contract: **2013**
End of contract: **2021**