



MIGRATION OF RADIO  
RELAY SYSTEM  
CITY OF CLERMONT-FERRAND

RADIO RELAY SYSTEMS

# MIGRATION OF RADIO RELAY SYSTEM

## CITY OF CLERMONT-FERRAND

### PROJECT

Following a refurbishment project, Bouygues Telecom decided to entrust Axione with overhauling the transmission architecture of Clermont-Ferrand's mobile network.

**38**

MOBILE SITES INVOLVED

**480,000**

RESIDENTS CONNECTED

**135,000,000**

M<sup>2</sup> COVERED

#### The challenge:

In January 2019, Bouygues Telecom appointed Axione to migrate 39 radio links, involving 38 mobile sites, in order to ensure continuity of its mobile network service in and around the city of Clermont-Ferrand. This challenge meant that Axione teams had to bring the radio relay system on stream by February 2020.

“ The project illustrates Axione's know-how in technical project management and network lifecycle. It reaffirms and indeed strengthens the links between Bouygues Telecom and Axione. What's more, it shows our ability to meet carriers' needs in terms of mobile network development.

**Alexandre BOURBLANC, network lifecycle project manager  
Toussieu business unit (Lyon)**

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### AXIONE'S SERVICE

We provided our customer with an end-to-end service, in compliance with the set deadlines.

#### Design of remote sites

- Line-of-sight path defined for the new remote sites of the radio relay links to be used in order to ensure that no obstacles in elevated locations (masts, trees, etc.) were blocking retransmission from the existing remote sites to the new links

#### Integration and commissioning of new remote sites

- Recreation of two large-scale nodes for the relay system which represent key concentration points (one of which has become one of the largest radio relay system sites in France)

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### Axione's added value

- Provides continuity of mobile service in and around the city of Clermont-Ferrand, while integrating new mobile sites
- Delivers projects on time and in line with required quality standards

### CUSTOMER BENEFITS

A better connected...

city

- A refurbished network that enables the carrier to roll out all of its services in the city of Clermont-Ferrand

#### User benefits

- Optimum connectivity in the city for the 480,000 residents of Clermont-Ferrand and its surrounding area



### KEY INFORMATION

Migration of radio relay system // Prime contractor: **Axione** // Client: **Bouygues Telecom** // Start of works: **January 2019** // Completion of works: **February 2020**