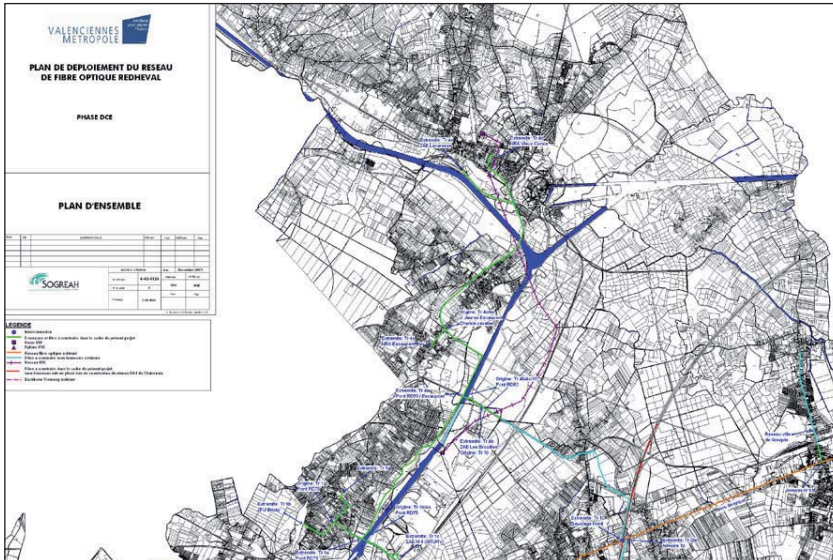


# Valenciennes - Extension of the "REDHEVAL" optical fibre network



**Country**  
France

**Client**  
Communauté  
d'Agglomération  
Valenciennes Métropole

**Date**  
2005-2008

**Cost of works**  
€2m excl. VAT

## Sogreah's services

- Full project management, from the preliminary design to the approval of outstanding works
- Extension of the existing network
- Securing of the loops
- Connection of business areas and of the main buildings



## Context

In the context of its economic development, the *Communauté d'Agglomération Valenciennes Métropole* (urban area authority) has decided to secure and develop its optical fibre network.

## Description of the project

Taking the existing network as a starting point, Sogreah designed a reliable and durable network, made sure that the network is a secure loop, reinforced it in

strategic places and connected all business areas and main buildings (hospitals, secondary schools, rescue centres, technical centres, etc.) to it.

60 km of civil engineering works were necessary, including the laying of the optical fibre and the connections.

All existing infrastructure was used (use of available tubes in the tramway or France Telecom facilities for example, use of

sewerage pipes).

Thrust-boring techniques were used to go beneath railways and certain roads, or to avoid works in places where works had recently been undertaken.

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