



CH2M HILL ESPAÑA S.L.

Telecommunication Consulting Services

Client
ORANGE

Location
Spain

Consulting Services for VHBB Launch

With more than 182 million customers on five continents, France Telecom is one of the world's leading telecommunication operators. . Since 2006, ORANGE, a key brand of France Telecom, has been the single brand for Internet, television, and mobile telephone services in the majority of countries where the company operates.

As a result of new generation network (NGN) developments and the telecommunication market in Spain, ORANGE selected CH2M HILL as the consulting firm for the launch of Very High Broadband (VHBB) system, thanks to our experience in network roll-out and the added value we offer with our consulting capabilities as well as our first hand knowledge of technical issues.

CH2M HILL provides consulting services to ORANGE in defining the project for launching FTTx networks, the development of requirements and tools, and the definition of dashboards. CH2M HILL collaborates with ORANGE on several aspects related to FTTx network roll-out, including planning, tracking, technical and economic evaluations, as well as relationships with regulatory agencies and other operators.

Technical consultancy and specialized assistance for the FTTH network launch included the following:

- Performing cost studies and work models.
- Collaboration on the definitions of technical specifications and criteria.
- Developing the Design Manual and defining the complete launching process.

Technical support in relation to the other operators and regulatory bodies, principally Telefónica and CMT included:

- Performing objective analyses of CMT's resolutions, and evaluating how they could affect ORANGE.
- Working on communal themes with other operator companies, such as the sharing of channels and vertical cabling on buildings.
- Participating in meetings with multiple operators to define sharing criteria and analyzing the agreements or proposals.
- Acting as intermediary in the relationship with Telefónica.
- Analyzing wholesale offers from Telefónica (MARCO service) in regard to channel sharing and vertical cabling on buildings.
- Analyzing consulting tools proposed by Telefónica, MARCO, NEON, and CARPE to perform necessary requests for information regarding vacant channels and their shared use.