

## CASE STUDY

# QUART DE POBLET, VALENCIA PROVINCE: FIBRE OPTIC NETWORK AS COMPETITIVE ADVANTAGE

In order to remain attractive as a location, the Spanish municipality of Quart de Poblet has opted for a modern fibre optic network from Datwyler.

Quart de Poblet is a municipality with over 25,000 inhabitants. Only six kilometres from Valencia, Spain's third largest city, its strategic position provides businesses and international organisations with a locational advantage. Another advantage is the excellent transport infrastructure, which includes a good link to Valencia's public transport system as well as direct connections with the motorways to Madrid and Barcelona. Last but not least, the businesses established in Quart de Poblet benefit from the proximity of the provincial capital's airport.

The municipality is characterised by sustainable planning and development, the range of high-quality services on offer, and scenery like the Túria Nature Park. For many families all this makes Quart de Poblet a residential area with a high quality of life.

### Fit for the digital future

In order to ensure that this remains an attractive location in future, two years ago the municipality decided



to create an extensive high-performance municipal fibre optic network. Not only is the provision of a modern communications infrastructure considered advantageous for companies, but it also provides freelancers and home office workers with the opportunity of working more efficiently.

It further ensures that the municipality's public services are easy to use. Nowadays only towns and municipalities with a comprehensive technical infrastructure which allows the fast and interference-free transmission and processing of large amounts of data can score points in the "smart city" competition.

### A high-performance infrastructure

When setting up its municipal fibre optic network Quart de Poblet opted for a high-performance solution from Datwyler. Its physical basis is two 1,100 metre long FO Outdoor loose tube cables – one with 144, the other with 12 OS2 fibres. Added to that there are the appropriate





high-performance connecting components. This solution connects the town hall and several official buildings, including the city library, the civic centre and the fire service. The installation was undertaken by Viriotec Sistemas SL, one of Datwyler IT Infra's certified Solution Partners, based in Alicante.

In order to make optimum use of the performance of the network with its high data volume and to reduce latencies, a small data centre simultaneously serving as a central distributor was set up in one of the municipal buildings. Here use was made of the space-saving FO-DCS high density system, which provides numerous LCD connections on a few rack units.

To connect the individual buildings to the "data motorway", moreover, further fibre optic cables and multiple cables (trunks) preassembled with connectors were needed as well as various patch cables. These were also supplied by Datwyler.

### From planning through to commissioning

Datwyler has already supported many cities throughout the world in rolling out fibre optic broadband. The special challenge with each of these projects is to find an economical and yet sustainable solution which takes account of the municipality's differing requirements and needs – from planning through to commissioning.

With this project as well Datwyler's experienced engineering team was there to advise the customer at every stage.

### Networked all round

Quart de Poblet started operating the municipal fibre optic network in September 2022. Today, with the modern digital infrastructure linking the public buildings to the administrative centre, very short response times are achieved, the municipality's tasks are optimised and information is available in real time.

(January 2024)