

Fibre optic infrastructure in Strijp-S ICT | Eindhoven, NL

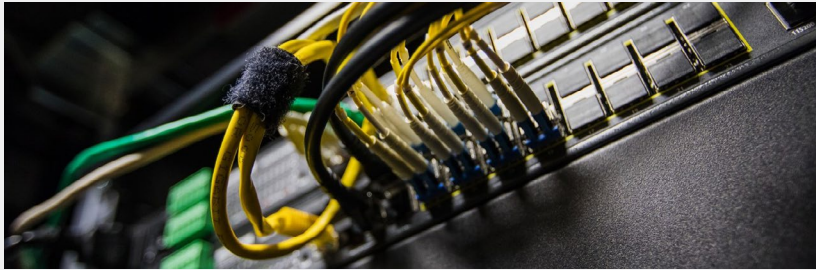




Photo source: VolkerWessels

500km of Fibre Optic(Backbone) cables have been installed in ducts in the Strijp S district (68 acres) for improving connectivity in the area. The Fibre Optic network acts as a Backbone for additional data related services in Strijp-S. 227 smart light poles are directly connected to the fibre - 400 poles in total through gateways in the other poles.

Measured Impacts

350 home connections
7.050 office connections

 project scale **District level**
 development type **Brownfield development**

Benefits

- Encouraging digital entrepreneurship
- Enabling new business opportunities
- Improving data availability
- Enabling many kinds of new services, less latency in transmission (high transmission speed)




Lessons learned

- Combine the installation of the fibre optic infrastructure with other ground works required
- As much communication as possible with potential partner (e.g. providers to have several access points to prevent vendor lock-ins, city council to provide permits and investment money, responsible persons in the city administration)
- Capacity will grow due Technological developments in fibre - meaning ducts with the same size will carry more capacity

Challenges

Defining the future usage patterns and requirements together with a wide variety of potential users. Receiving the permits in time (connection to local poles, digging permit).

Supporting factors

-  **geographical**
 Eindhoven – Strijp-S – Densely populated area with many different small companies
-  **partners**
 VolkerWessels , City of Eindhoven - Implemented through a PPP with the local municipality that allowed shorter processes
-  **other**
 Area built as a smart data driven area and therefore in need for a strong data backbone. Huge variety of different data related services expected in the area.

Contacts

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