

# USER CASE: TELECOM RAISERS



## WITH CABLEX BY MATÉRIAUX SABAG IN WYNIGEN (SWITZERLAND)



### BACKGROUND

According to the OFCOM1, broadband networks have drastically increased since the implementation of fiber optics (FTTX) in Switzerland.

It is now a need to rebuild the underground networks to provide a high-speed connection for the whole country.

<sup>1</sup> <https://www.bfs.admin.ch/asset/fr/gr-f-16.04-30107a-ind>

### PROBLEM

The actual manholes are buried and need to be renovated for the installation of the new components (such as the broadband network). Raisers and covers give an access from the surface of the ground for the next handling operation time.

2 raisers need at least 2 days of work by 2 people (formwork, concreting, cover installation). The job site creates traffic nuisances in the neighborhood.



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### TIME SAVING

30-60 min per element instead of >8 hours



### SUSTAINABILITY

optimize resources + reduce transportation & concrete in the elements = 30% CO<sub>2</sub> reduction



### SOLUTION

Once the existing excavation is open, the Contractor takes the measurements of the raisers and transfers them to the Production through the Configurator.

Each prefabricated and 3D printed concrete element is fully customized. They are produced within 30 minutes at Matériaux Sabag. The raisers are reinforced, and anchoring sleeves are integrated for the transportation.

The Telecom raisers are delivered in-situ 24 hours after its production and installed within 30 minutes for each element including covers.

Thanks to this technology, the work site can progress faster, as the workers are available to undertake other tasks. The logistics is reduced to one truck crane which takes care of the delivery and the installation of the broadband raisers and covers.



### PARTNERSHIPS

Production:



Civil Works:



Owner:



VIDEO

