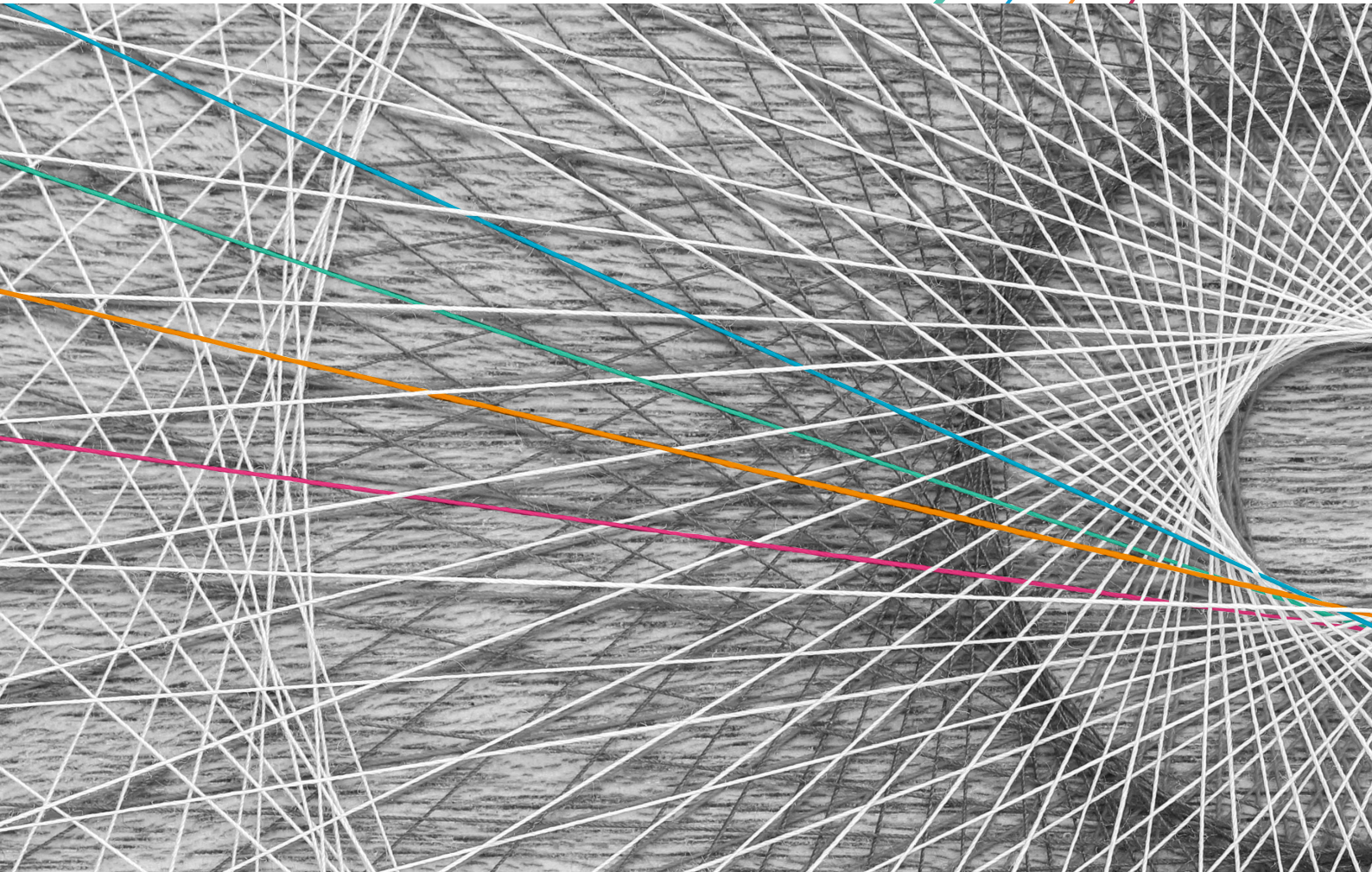


# NETWORKS

Analyzing, Planning & Optimizing

## Fixed Access



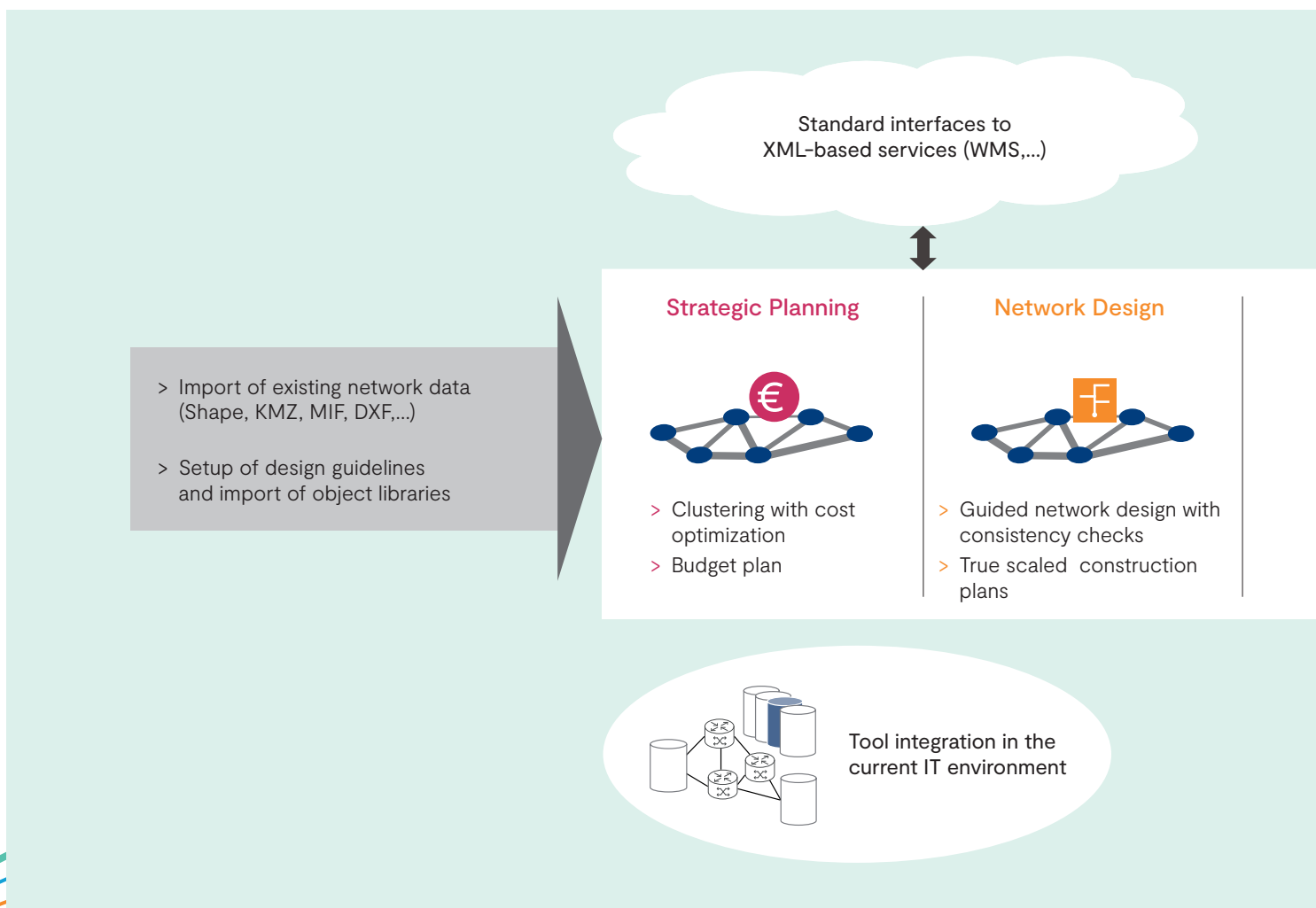
## The Features

**NETWORKS** Fixed Access is a tool for planning, optimizing, and documenting the outside plant of your fixed access network based on FTTx, PON, HFC or Ethernet technology.

Design, construction, and operations issues are covered by one comprehensive application – with flexible licensing for application components.

Thanks to included optimization functions operators and carriers can reduce their investment and operational costs. The implemented features allow efficient and flexible planning work.

By using a common planning database, several users can work simultaneously in different projects.



## Why customers choose our tool

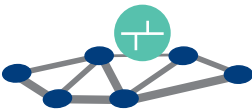
“In our business we are dealing with a lot of different FTTx projects. Due to its flexibility, **NETWORKS** can be adjusted easily to our different project requirements.”

“In terms of user handling the tool is one of the best tools available on the market. Detecon develops the tool very close to reality. So for us it is simple to understand how we have to do something.”

“Detecon convinced us with their fast and comprehensive support. We can always call and talk to the right person who helps us.”

### NETWORKS

#### Fiber and Cable Management



- > Efficient usage of free resources
- > Detailed work orders

#### Operations Support



- > Provisioning planning
- > End-to-end customer relations

- > Export of results in various formats (KMZ, Shape, DXF,...)
- > Comprehensive reporting in all MS-Office formats and PDF

Web frontend



# Do you know the best investment strategy for your access network?



**Strategic Planning:** Our tool supports the selection of a future proof network topology and a profitable way to implement it.

## Evaluate different rollout scenarios

- > Automatic creation of network topologies with various technologies
- > Cost optimized clustering of access and distribution areas

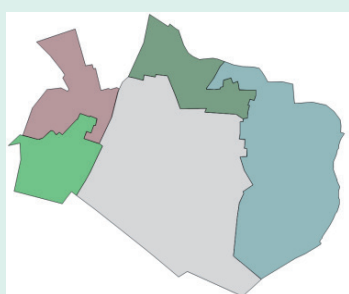
## Compare CAPEX/OPEX forecasts

- > Consider existing infrastructure during cost modeling
- > Overall scoring charts as well as detailed bills of material

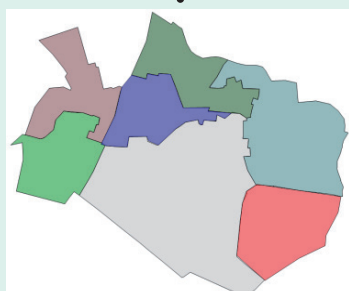
## Select the best rollout strategy

- > Convenient algorithms to balance the deployment steps with the available budget
- > Profound investment plan

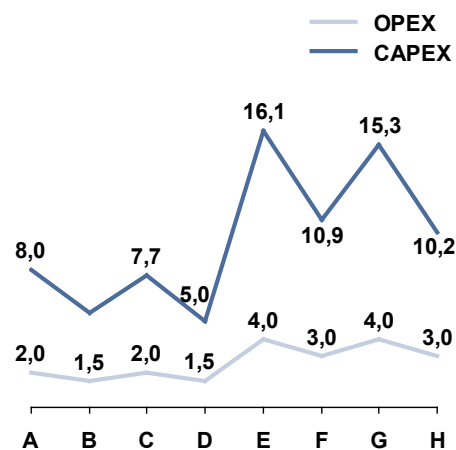
Various charts support the comparison and evaluation of different rollout scenarios.



⋮



Comparison of variants:





# Do you use efficient tools to prepare the civil works for your network rollout?



**Network Design:** Our tool offers network design of ducts and conduit systems as well as the monitoring of the construction progress.

## Develop optimized master plans further into detailed designs

- > Professional network design with included checks of planning rules
- > Flexible generation of network topologies with various technologies

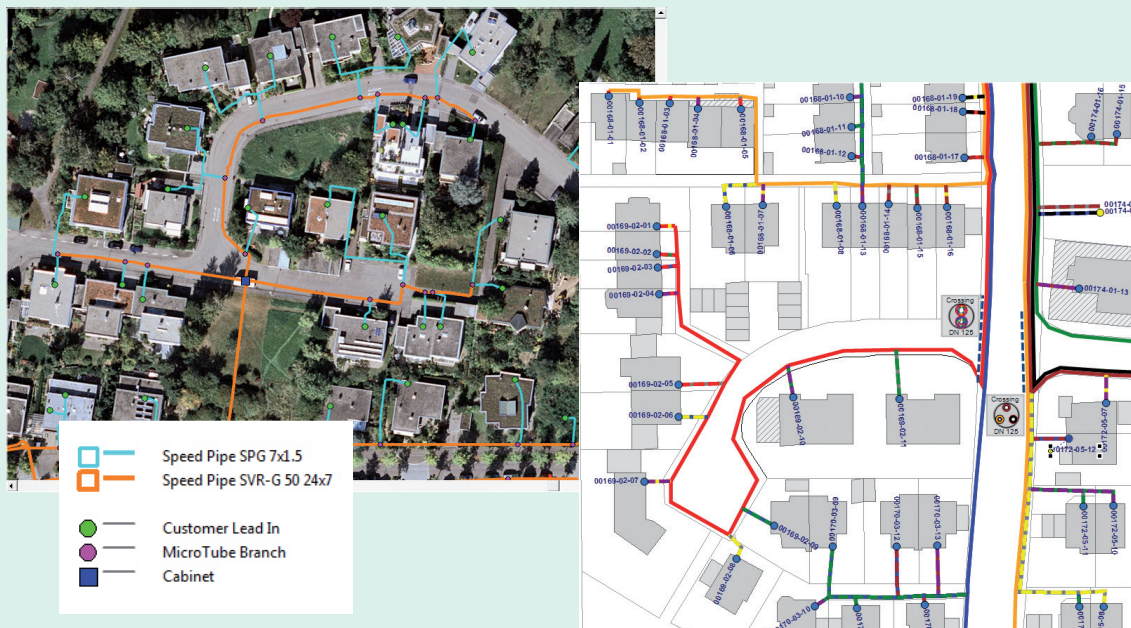
## Prepare Bill of Quantities and construction plans

- > Automated generation of drawings including text positioning
- > Export of detailed reports in all common formats

## Document as-built changes and supervise the construction progress

- > Network life cycle documentation of each network object, the development areas, and the overall project view
- > Automated alignment of built ducts based on GPS measured data

A detailed duct network plan including duct allocation and conduit positions can be designed based on imported GIS data or geographical maps.



# Are you able to keep track of your continuously changing cable network?



**Fiber and Cable Management:** Our tool manages the entire life cycle from fiber connections and their splices up to cables and equipment.

## Create equipment configurations and assign fibers

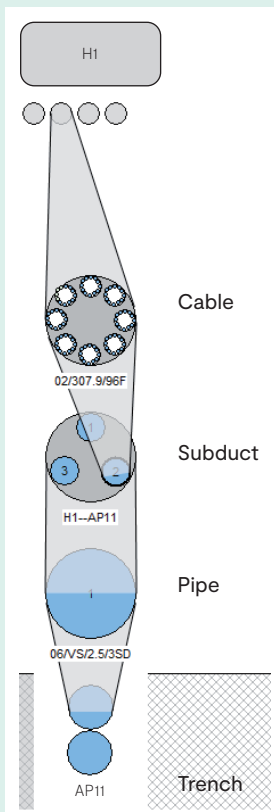
- > Automatic design of equipment, patches & splices
- > Guided search for possible new fiber connections with regard to user defined protection requirements

## Prepare work orders for installing, changing and retiring

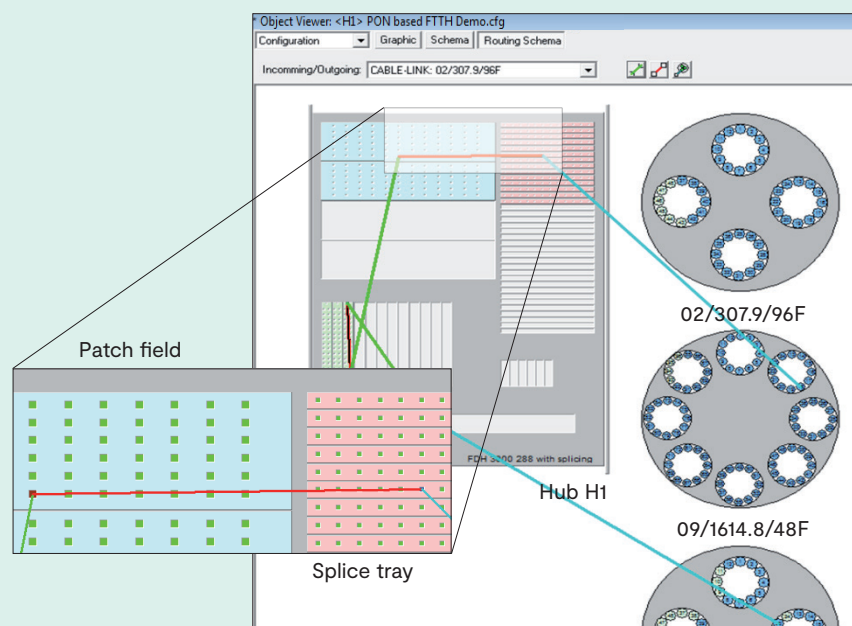
- > Node based or connection based outputs such as tables, lists, and schematic drawings
- > Create work orders with just a few clicks or customize it to existing workflows

## Document as-built changes and visualize fiber allocation

- > Transparent analysis and automated take-over of returned modifications
- > Comprehensive support of various active and passive technologies



Detailed planning of the physical infrastructure comprises the fiber allocation and cable point configurations, including fiber patches and splices.



# Are you able to manage any particular customer demand in your network?



**Operation Support:** Our tool supports the provisioning of bandwidth and fiber services as well as leased resources.

## Prepare the provisioning of services

- > Find end-to-end connections over available fibers/ports with regard to all protection requirements
- > Identify network upgrades and list all measures to implement the connections and create change orders

## Support network operation tasks

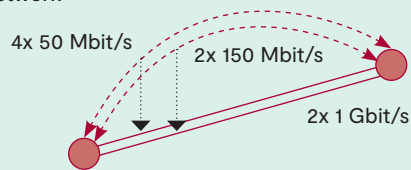
- > Straightforward fault handling based on detailed cross-layer-view
- > Compile the required information for the billing process

## Provide other parties with appropriate information

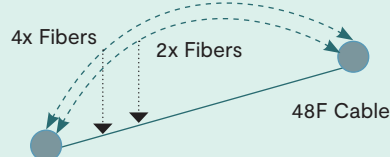
- > Web applications for transparent access to the provisioning process
- > Standard interfaces to integrate the tool in the IT environment

Our integrated tool allows you to maintain a comprehensive overview from the detailed planning of cables and ducts to the management of services and resources.

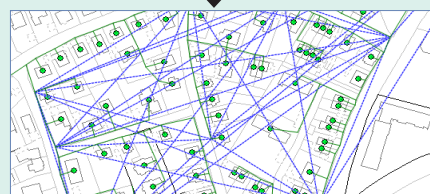
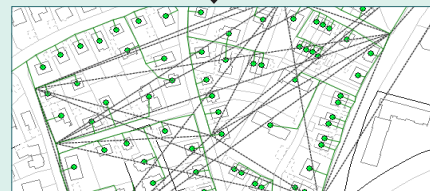
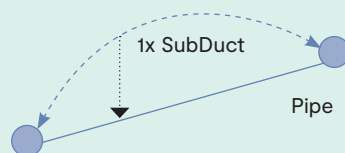
### Transport Network



### Cable Network



### Duct Network



# Your Benefits

Fixed Access 6

NETWORKS Fixed Access supports you in improving productivity and collaboration by getting a current, accurate view of your network to accelerate planning and operation.

## Better Collaboration

- > Increased productivity and collaboration across your organization by distributing tasks and information to the right people

## Digital Twin

- > Model anything with an optimized digital twin and integrate everything into a single network view

## Automation

- > Design conduits, cables and fibers automatically based on defined planning rules

## As-Built

- > Improve field to office data quality

## Acceleration

- > Reduce in-office design and planning effort
- > Accelerate construction and restoration timelines

We invite you to benefit from the advantages of analysis, planning and optimization with NETWORKS.

We look forward to your inquiry.

**NETWORKS**  
a product of **DETECON**

Detecon International GmbH  
Network Optimization & Tools  
Riesaer Straße 7  
01129 Dresden · Germany

Phone: +49 351 64890 111  
[Networks.Info@detecon.com](mailto:Networks.Info@detecon.com)  
[www.NetWorks.detecon.com](http://www.NetWorks.detecon.com)

© 2023