



**TKI** | Tele-Kabel-Ingenieurgesellschaft mbH

# INNOVATIVE SOFTWARE SOLUTION



Planning, documenting, and  
managing FTTx networks

# SOFTWARE SOLUTION FOR NETWORKS OF TOMORROW

NET is TKI's high-performance software solution for the highly-automated planning, documentation, and management of passive telecommunications infrastructure.

Practice-oriented workflows ensure an intuitive working environment. Meaningful charts and overviews combined with tabular evaluations and reports deliver optimal results.

NET supports your creativity with a high degree of automation, while leaving you plenty of design flexibility thanks to the freely scalable planning and display rules.

The NET tools are used at all levels of planning, construction, incorporation of red correction, and network documentation, down to and including fiber level and network management.

You can use the NET tools individually or in combination with each other depending on your requirements.

With NET, you output the data in accordance with the latest "GIS Nebenbestimmungen" for all funding phases.

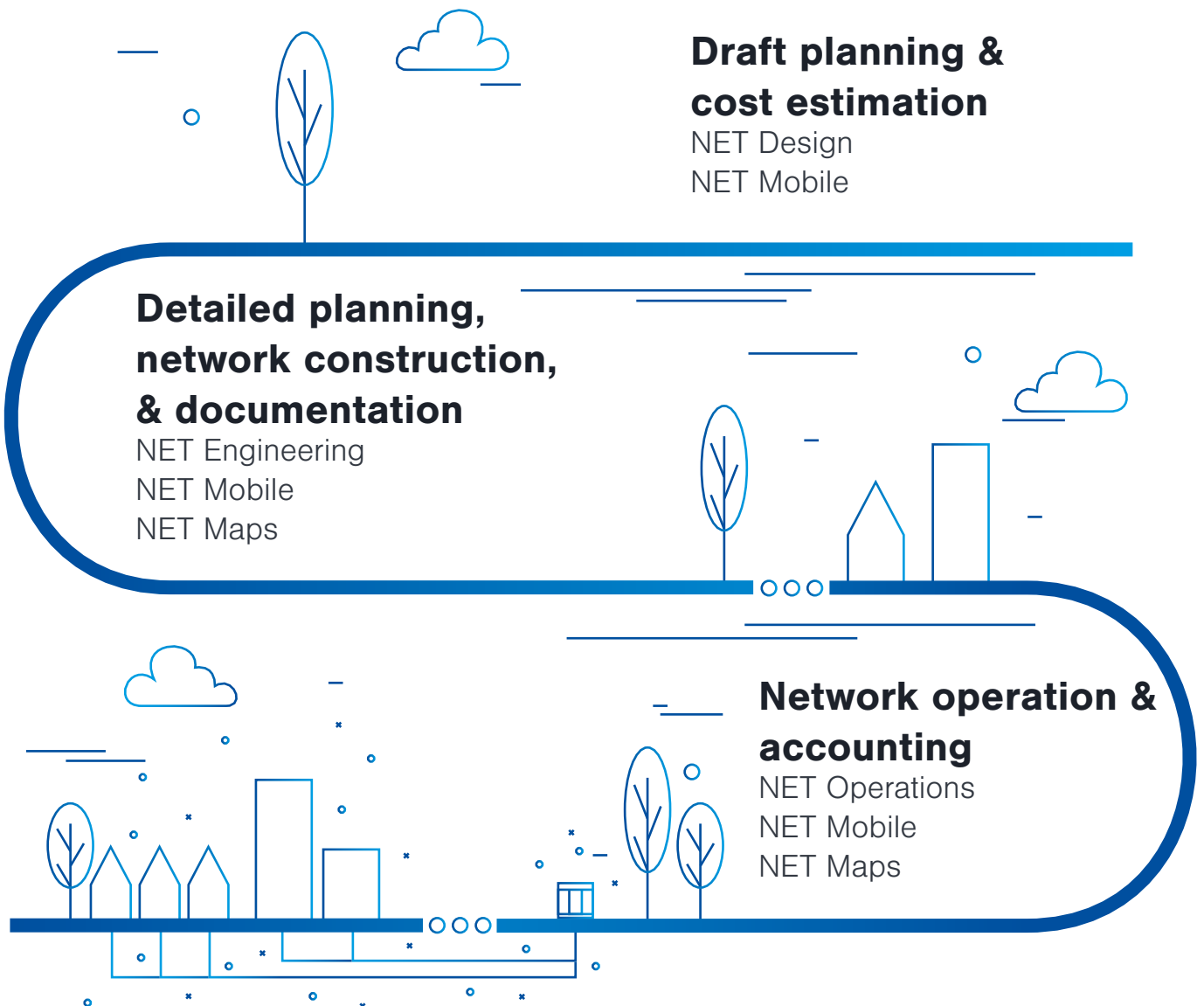
Adding NET Maps to NET Design, NET Engineering, and NET Operations gives you a solution for providing information, and NET Mobile offers web-based access to your data.

The software solutions are available as rental licenses for integrating NET in your company. As an alternative, we can host software and data for you.

# From planning to documentation through to network management

---

The tools in the NET product family cover the entire network life cycle of complex telecommunication networks. NET is a high-performance and flexible solution based on Autodesk® AutoCAD® Map 3D; it is used for the efficient planning, documentation, and management of communication networks.



# Innovative software solutions for effective working

---

## **NET** Design

NET Design is a comprehensive software package for highly automated planning with freely scalable planning rules based on mathematical optimization algorithms.

The result is a structural plan including an arithmetical, detailed cost overview.



### **Optimized structural planning**

Highly automated, mathematically optimized structural planning saves time and costs



### **Scalable planning rules**

Freely scalable planning rules enable quick comparison of various planning options



### **High degree of automation**

Despite a high degree of automation, the planner can intervene manually at any stage

## **NET** Engineering

With NET Engineering you document route, fiber optic, and duct networks down to the fiber and micro duct level.

NET Engineering allows you to do both document the network and prepare the implementation planning including all necessary documents and reports.



### **Topological connection**

Depiction of all network levels and their topological connections right down to the fiber



### **Intuitive operation**

Practice-oriented workflows ensure intuitive handling



### **Charts and overviews**

Meaningful charts and overviews, tabular evaluations, and reports deliver optimal documents for carrying out construction work

## **NET** Operations

NET Operations supports you in managing your network.

Use the routing to find and reserve free fiber paths and to connect them with services and the related customers. Apply the OTDR measurement to the network and have the fault visualized.



### **Quick overview**

Mapping of the fiber allocation enables a quick overview of the network utilization



### **Routing**

Routing with various criteria supports the network marketing



### **Visualization of faults**

Visualization of faults helps the technicians identify faults on site

# Mobile solutions for more flexibility



NET Mobile enables high-performance access to the network data via the web.

The networks can be accessed on mobile terminals via standard web browser. Use your data anywhere online and offline.



## User-defined access

Individually scalable access rights for different user groups



## Qualification of data

Defined possibilities for generating, modifying, and qualifying geodata and factual data including photos



## Offline mode

Data processing also possible offline



NET Maps gives you a fully automated information providing solution

The web-based information portal enables you to prepare meaningful planning information with ease in next to no time. NET Maps can be used both internally in the company and externally.



## Quick information

Quick and scaled information at the push of a button with various plot templates, paper formats, and scales



## Customized access

Reliable user management for internal and external use



## Real time information

Daily updated information about your existing networks with archiving

Our products are individual, flexible, and coordinated

Further information at  
[www.tki-chemnitz.de](http://www.tki-chemnitz.de)

## Effective software solutions for planning, documenting, and managing FTTx networks

- Highly-automated structural planning and detailed planning of FTTx networks
- Freely scalable planning rules for comparing the costs of various planning options
- Simple and flexible aggregation of geodata
- Depiction of the telecommunication network right down to the wiring details
- Layout in various degrees of detail depending on scale and content
- Automatic generation of meaningful, flexibly configurable reports, plans, and overviews
- Automatic export of data according to "GIS Nebenbestimmungen" for funded projects
- Effective network management with workflows for routing, wiring, and fault visualization
- Network data can be stored in Oracle, PostgreSQL or SQLite
- TNIM standard interface in xml format for exporting and importing data to and from other data formats

Contact us for further information

TKI Tele-Kabel-Ingenieurgesellschaft

Web [www.tki-chemnitz.de](http://www.tki-chemnitz.de)

Email [tki@tki-chemnitz.de](mailto:tki@tki-chemnitz.de)

Phone +49 371 52 333-0

Fax +49 371 52 333-33

Curiestrasse 19

09117 Chemnitz, Germany

Your competent service provider for consultancy, planning, construction, and operations as well as software solutions in the telecommunications field