Geospatial Network Inventory

FTTH network – city deployment

Part of FTTH network in Cracow city.
Operator's network inventory consists of:
- civil infrastructure (duct network, manholes, poles, e.t.c.)
- optical fibre cables inside ducts
- network nodes with FTTH devices
- multi dwelling buildings connected to network
- cable fibers connected with devices located in network nodes

Pole

Manhole

MDU building
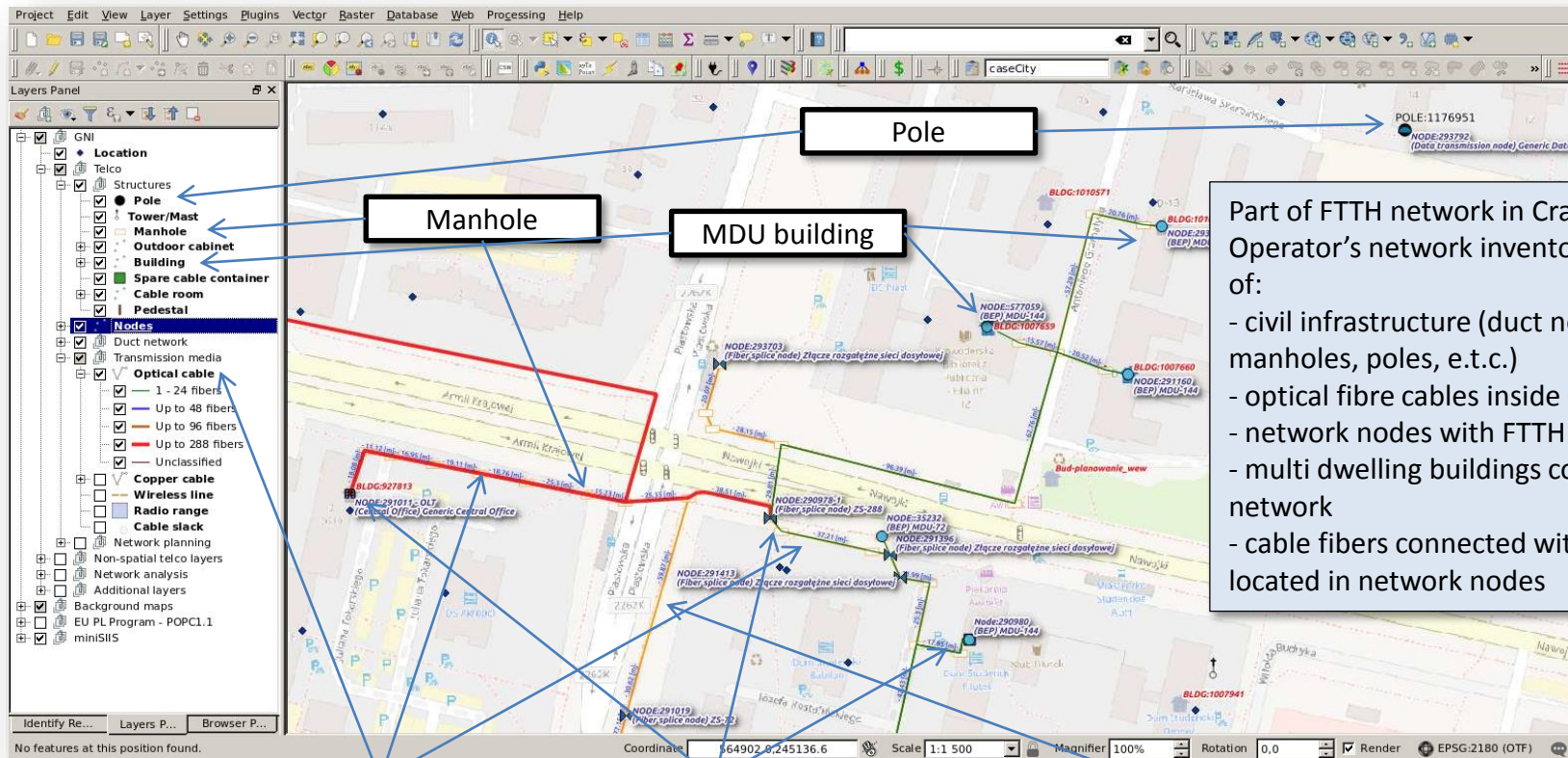
Optical cable

Fiber Network Nodes

Underground ducts

Connection Manager

Cable fibers are connected in Connection Manager module.

OLT ISP view

Connection Manager

Splice closure ISP view

Resource forms accessible directly from map

Each network resource has dedicated form showing its business attributes and relations

Optical cable

Node

Building

Network resources has corresponding 3D CAD view showing their internal structure

Central office

Manhole

Building

Forms with business relations
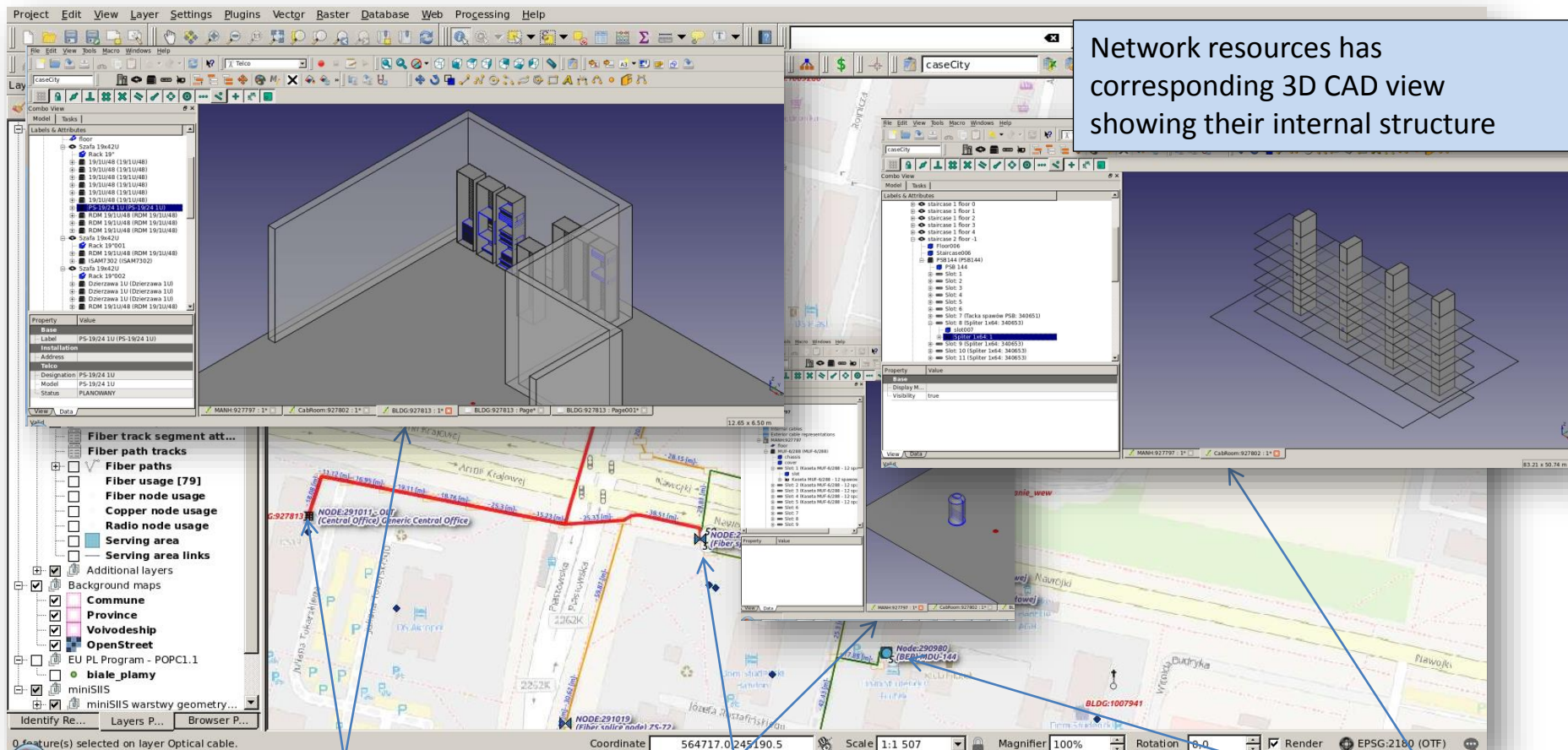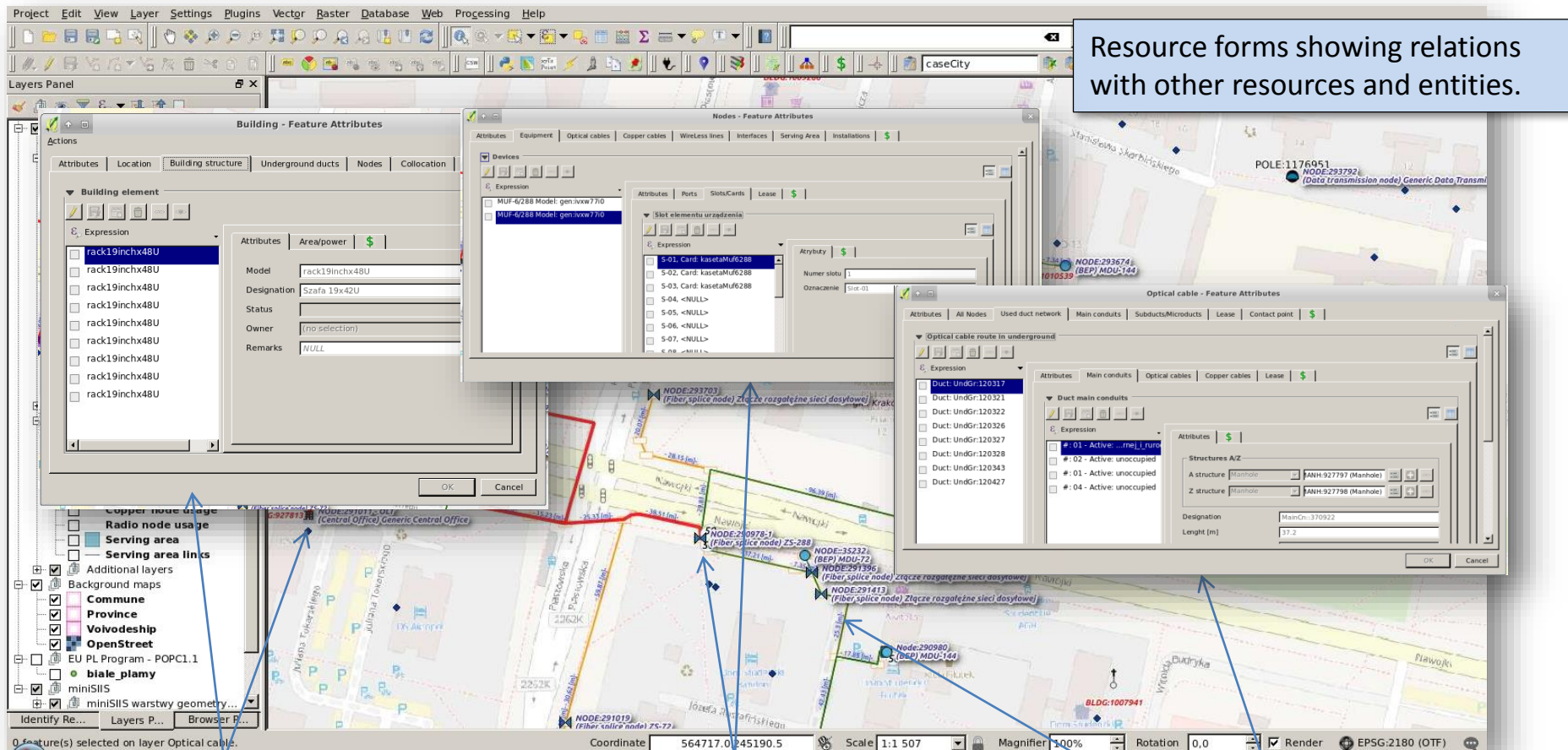
Resource forms showing relations with other resources and entities.

Rack in Central office

Device in Node

Cable in Duct network

Fiber paths view

Connected fibers establish fiber paths with full information about their route, attenuation and amount of fibers in the same relation.

Fiber path

Details of fiber path

Fiber tracks and their segments
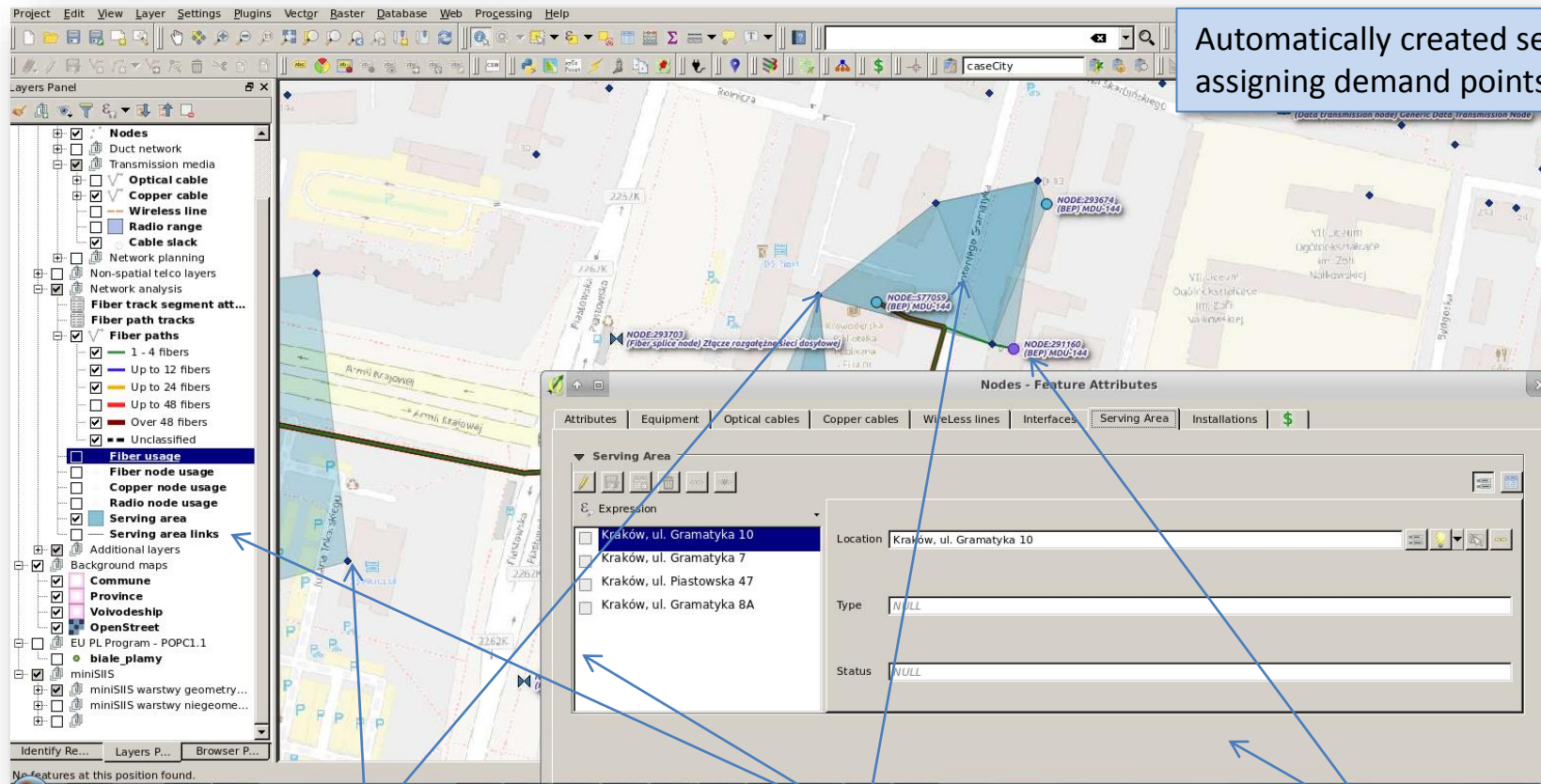
Automatically created serving areas assigning demand points to nodes.

Demand point

Node serving area

Node

Network resources usage

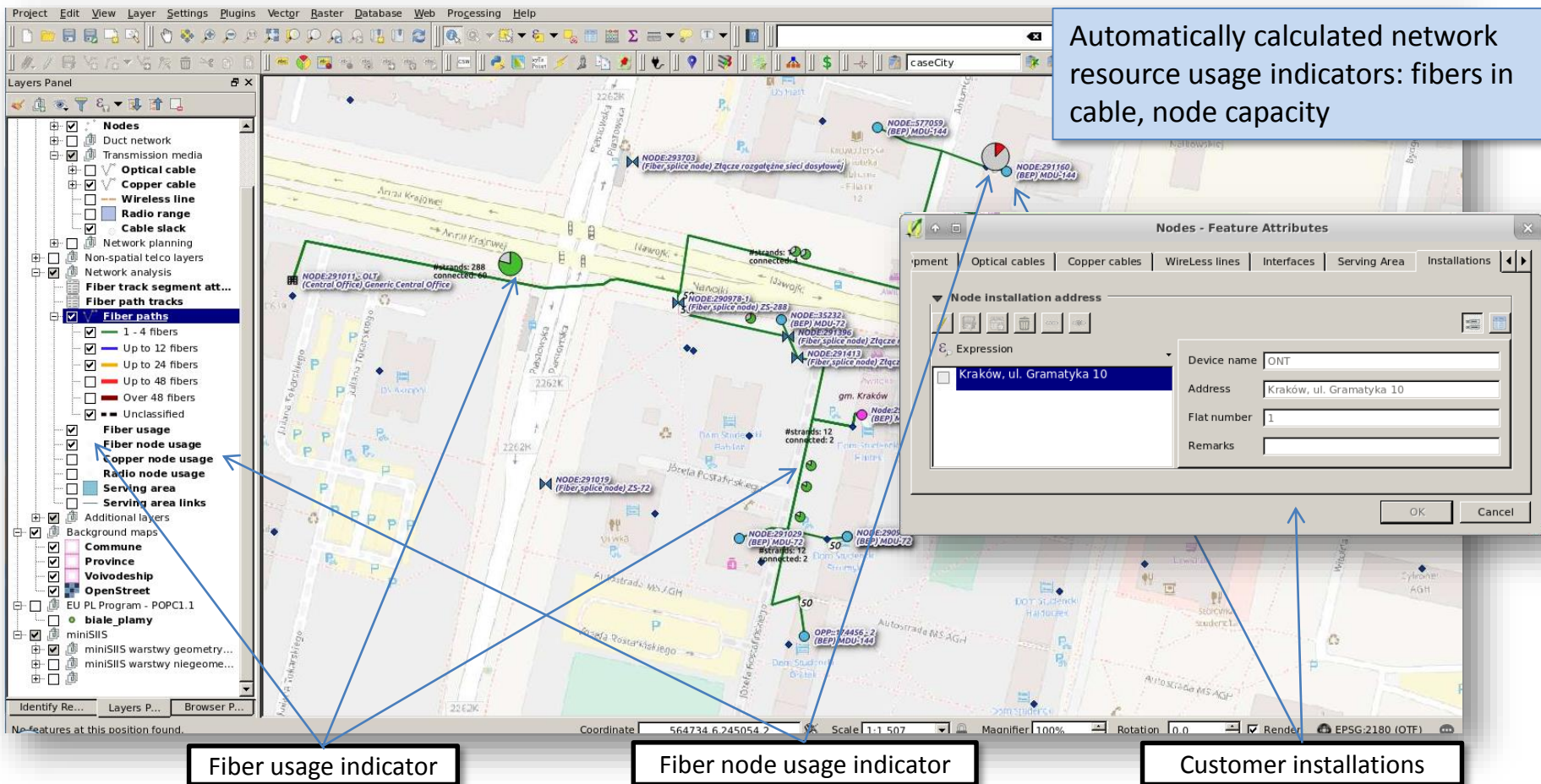Automatically calculated network resource usage indicators: fibers in cable, node capacity

Fiber usage indicator

Fiber node usage indicator

Customer installations
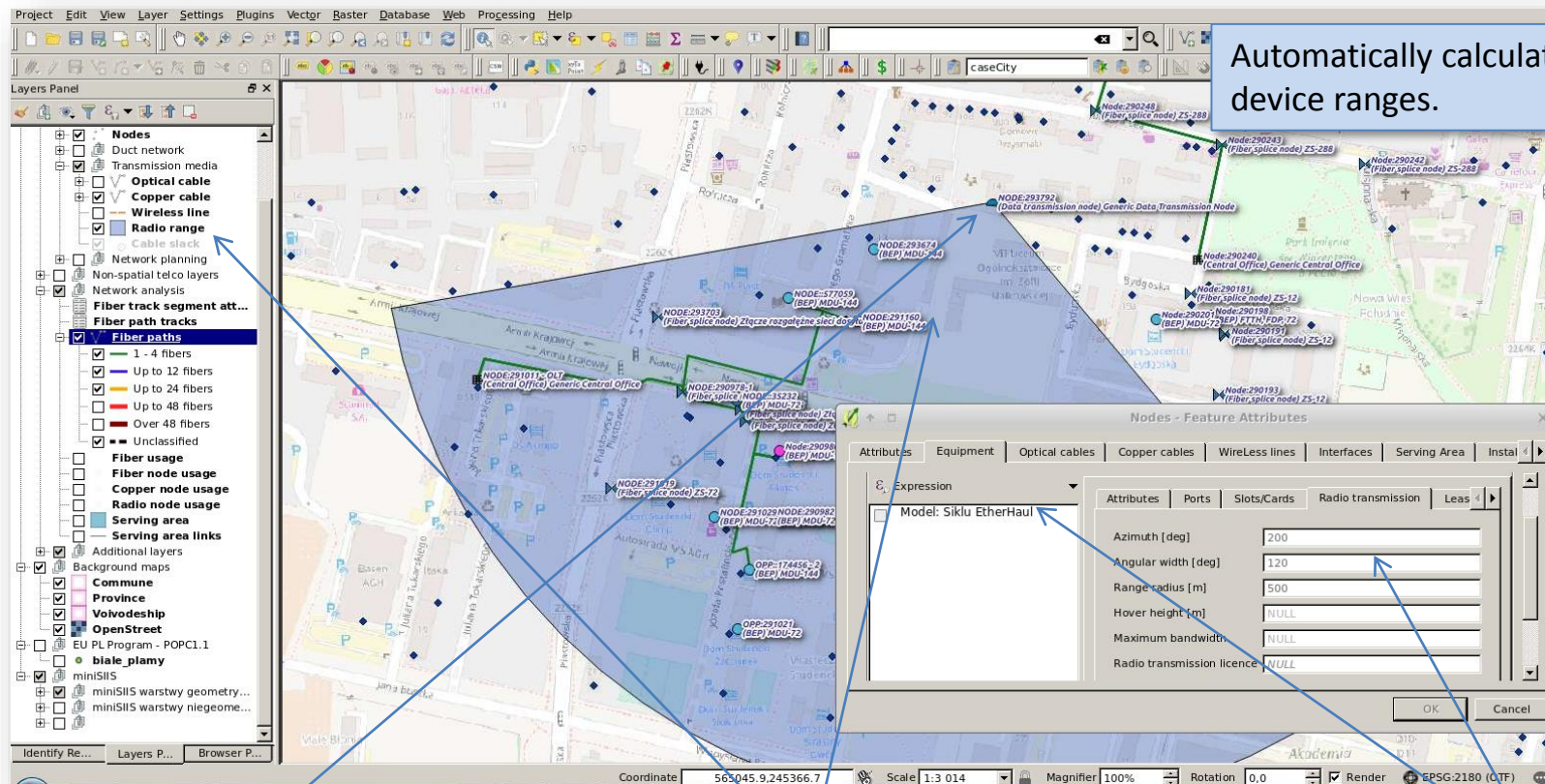
Radio ranges
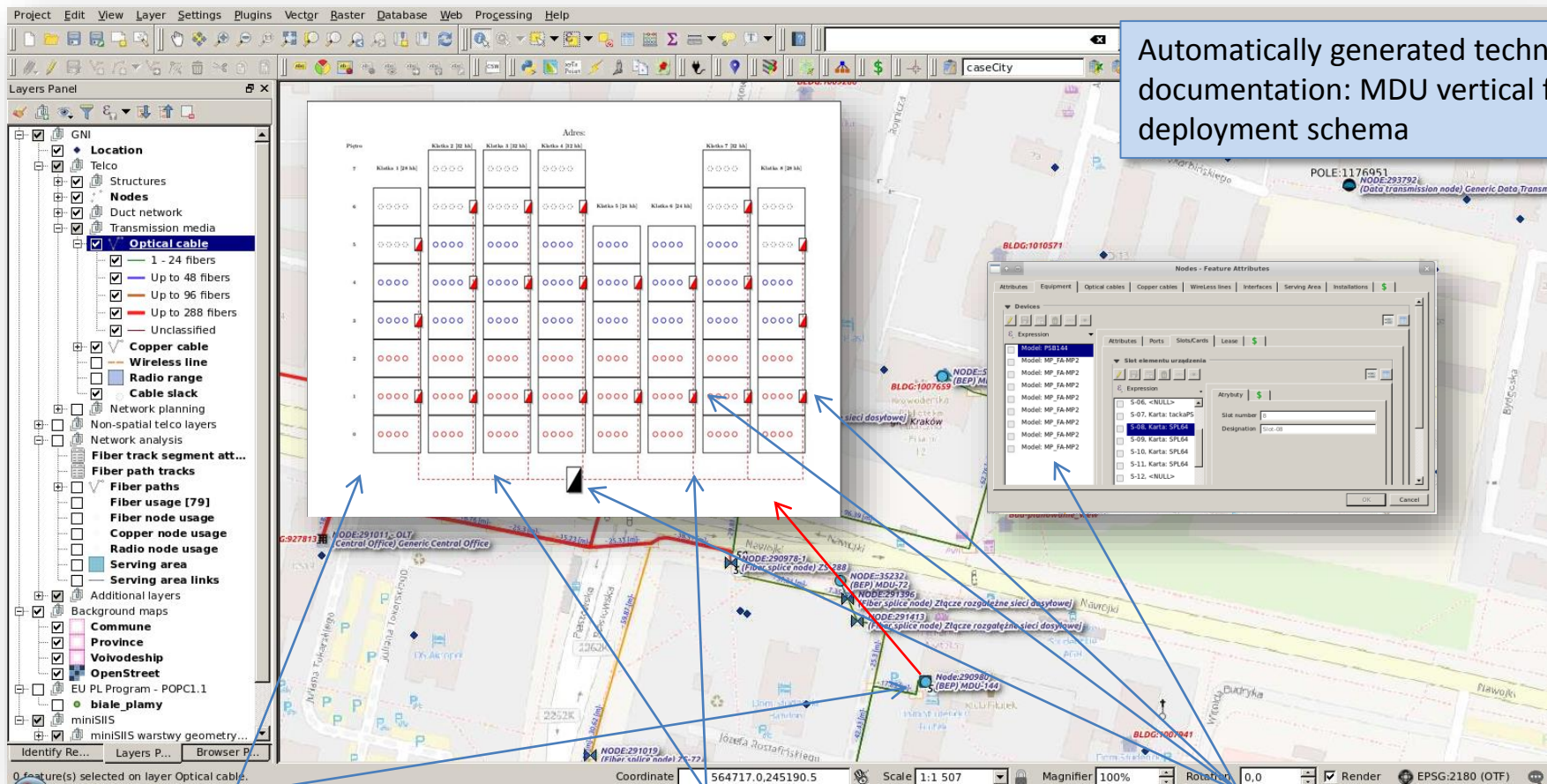
Automatically calculated radio device ranges.

Mast/Tower

Radio range

Radio sector attribiutes

Technical documentation generator

Automatically generated technical documentation: fiber splicing schema

Rack in Central Office

Optical cables

Nodes

MDU fiber splicing schema

Technical documentation generator

Automatically generated technical documentation: MDU vertical fiber deployment schema
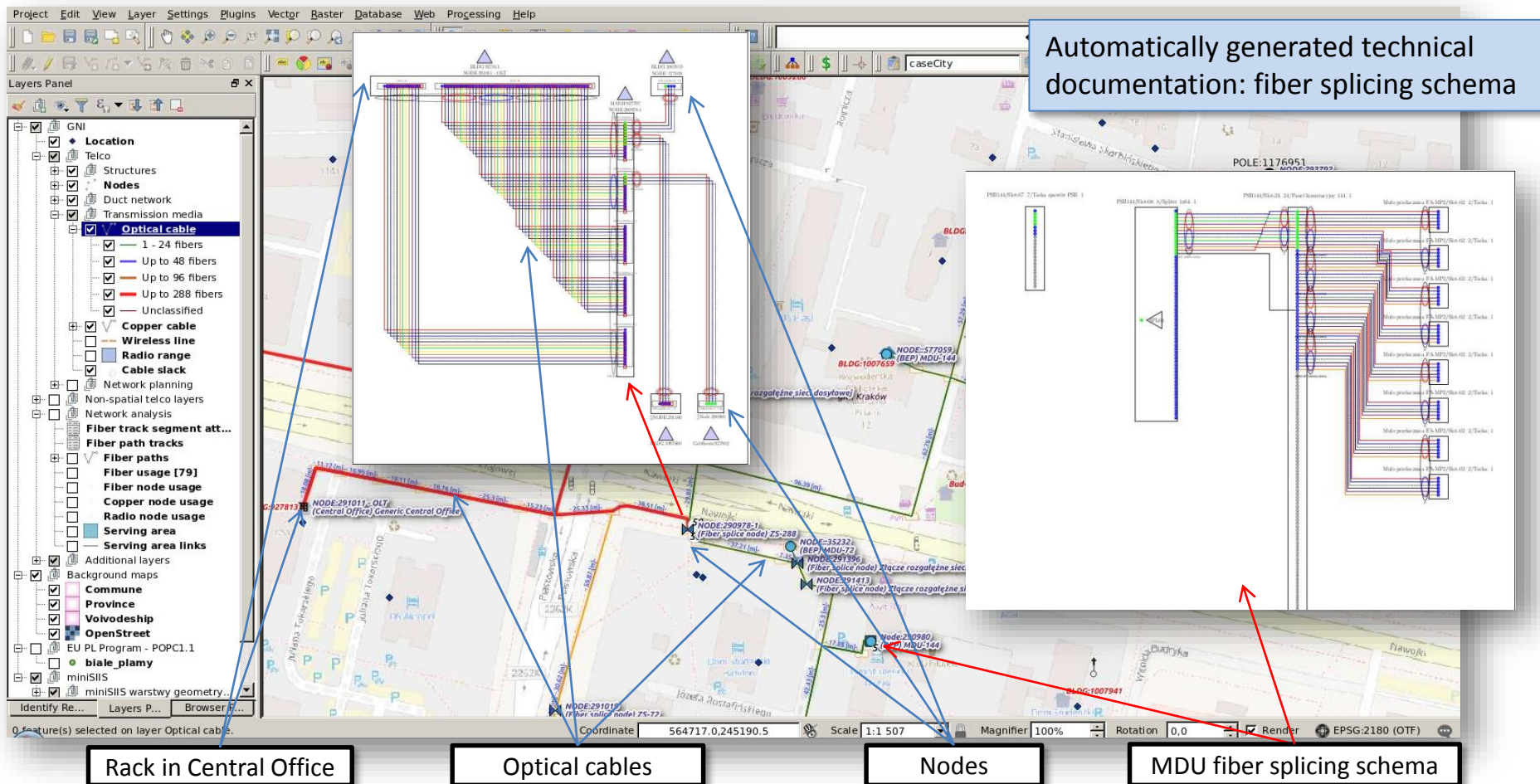
Vertical building view

Optical Internal cable

Devices in node

Technical documentation generator
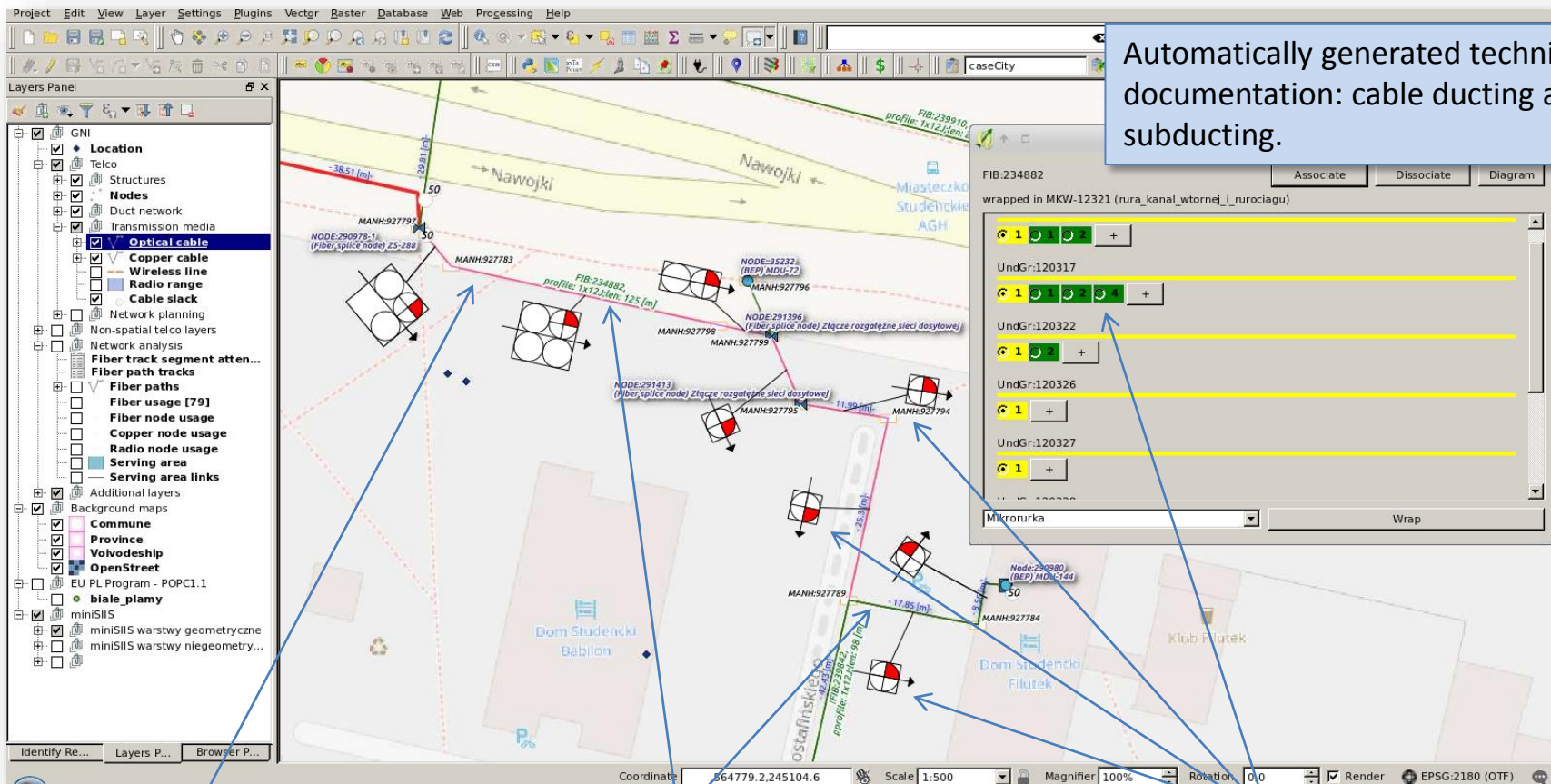
Automatically generated technical documentation: cable ducting and subducting.

Duct network

Optical cable

Conduits and subducts

Technical documentation generator

Automatically generated technical documentation: technical drawing of any device, installation guidelines

Central Office

Colour coded rack

Node

Thank you

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https://ksavinetworkinventory.com

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