

Foreword

O1 Smallworld – universal GIS platform for utilities companies.

O2 Data typology in the telecommunications industry.

03 Why FME?

Customers

Custom made migration – adapting the process to customer data format

06 Problems during data migration process



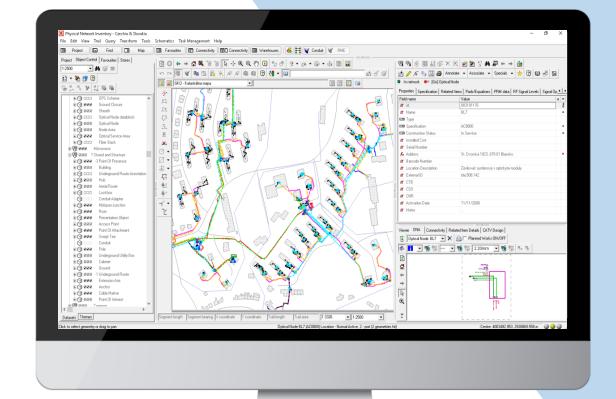




Smallworld Network Inventory

- Smallworld is a proven portfolio of products supporting the entire life cycle of assests from planning, through design and construction to streamlining operations
- Smallworld's architecture is based on an open and flexible technology that allows adapting to even most complex needs and implementations

Globema's solutions based on GE Smallworld platform include network inventory, planning it's development, supporting operations, outages support and management of field tasks, automation of logistics processes etc.







Solutions for telco industry

Physical Network Inventory (PNI)

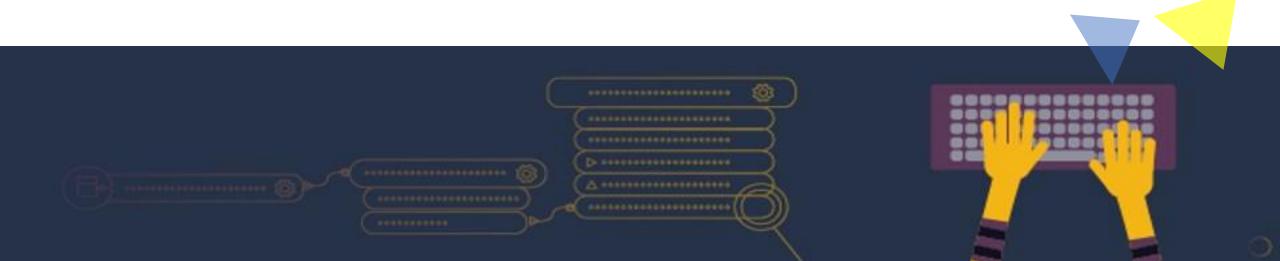
Supports passporting of telecommunications networks, their planning and design, and the use for supporting operations.

Physical Route Manager (PRM)

Allows you to group any number of physical resources in an easily accessible and managed system, called the Route. The Route consists of interrelated objects/components – such as fiber optic cables, ports and connectors that map connections between locations.

Optical Network Atlas (ONA)

Extending the functionality by generating optical path diagrams that can be presented as documentation at location level and cable details.

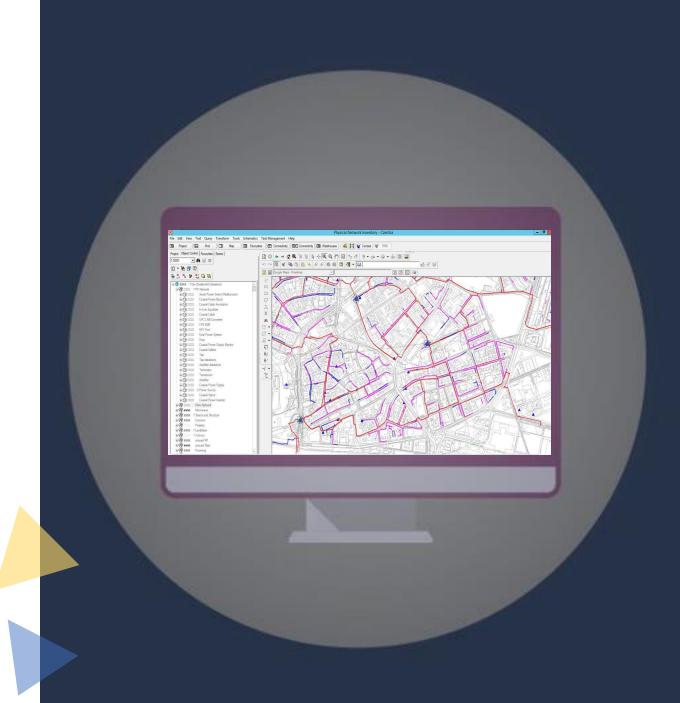


Telco data

- Telco data model (infrastructure)
 - Buildings
 - Canalization
 - Manholes
 - Access points
 - Poles
- Telco data model (network)
 - Passive elements
 - Active elements
- Fiber Optic Network
- Address data
- Unrelated to the functioning of the network
 - Maps
 - Cadastral data











- 1. Saving time
- 2. Repeatability of data migration process
- 3. Help in data analysis
- 4. Support in data debugging
- 5. Reporting
- 6. Flexibility







Customers

UPC Romania – Liberty Global.



Telekom Romania



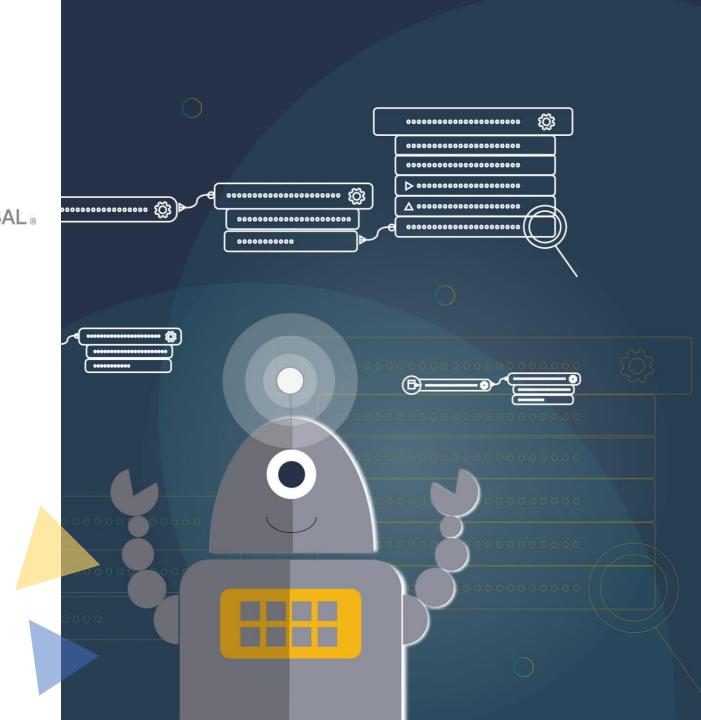
Euroweb











Applications used before Smallworld by customers

Previous used systems: AutoCAD,MapInfo, Excel

Hybrid functionality between

MapInfo/AutoCAD for geometry data
and Microsoft Excel for connectivity in
splices or ODF's, but also keeping data
about nodes(poles, chambers) and
routes(Aerial Route, Underground
Route, conduits etc.).

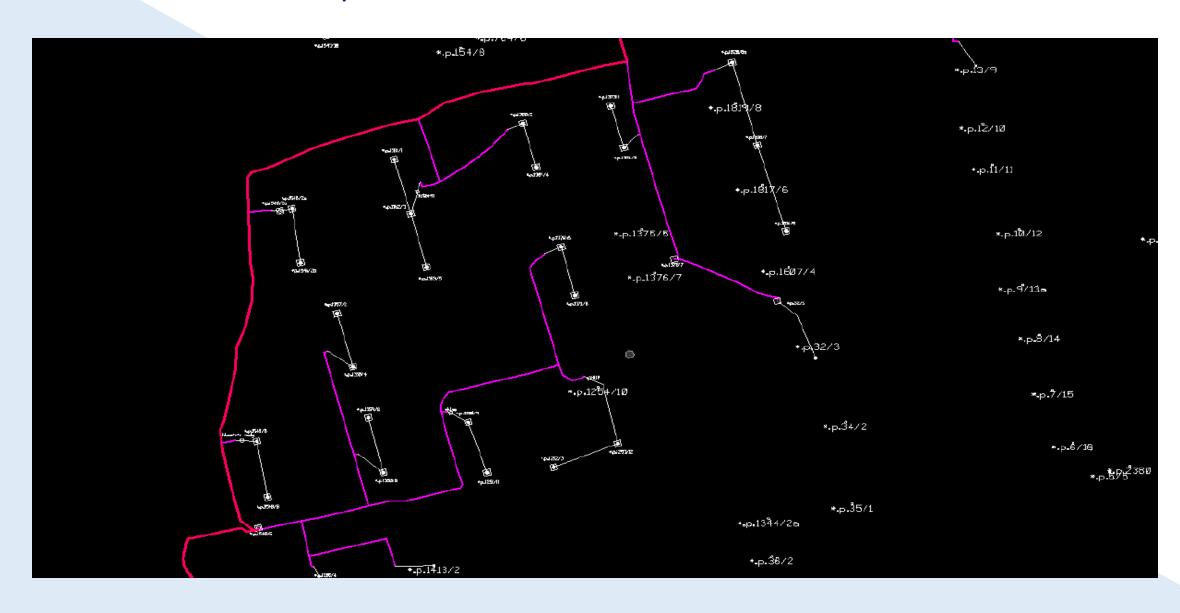
Independent databases for Bucharest and other cities in Romania.

Migration scope

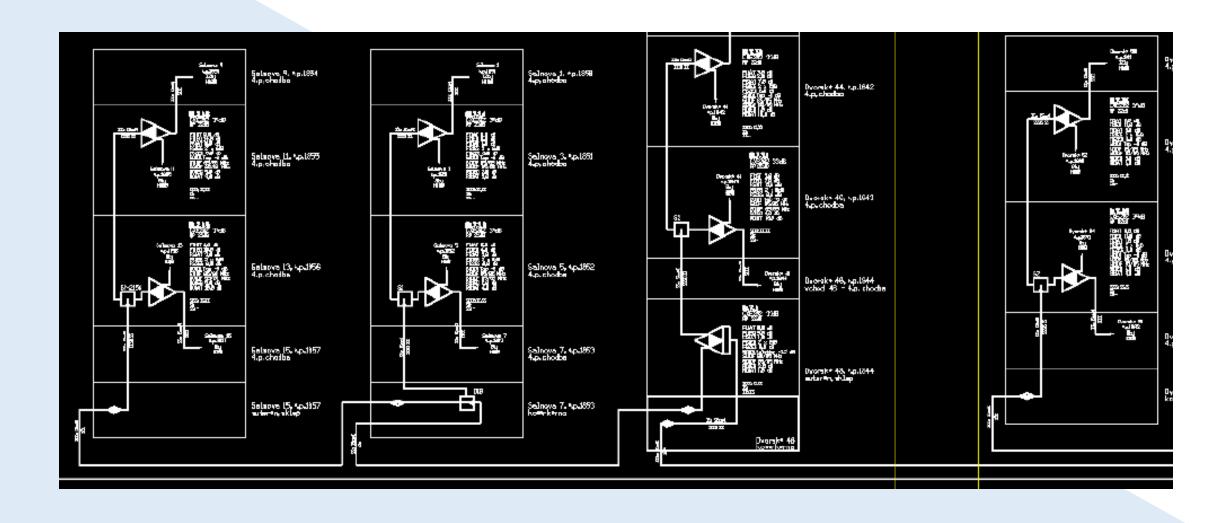
- Infrastructure
- Network objects
- Address database
- Connectivity
- Services



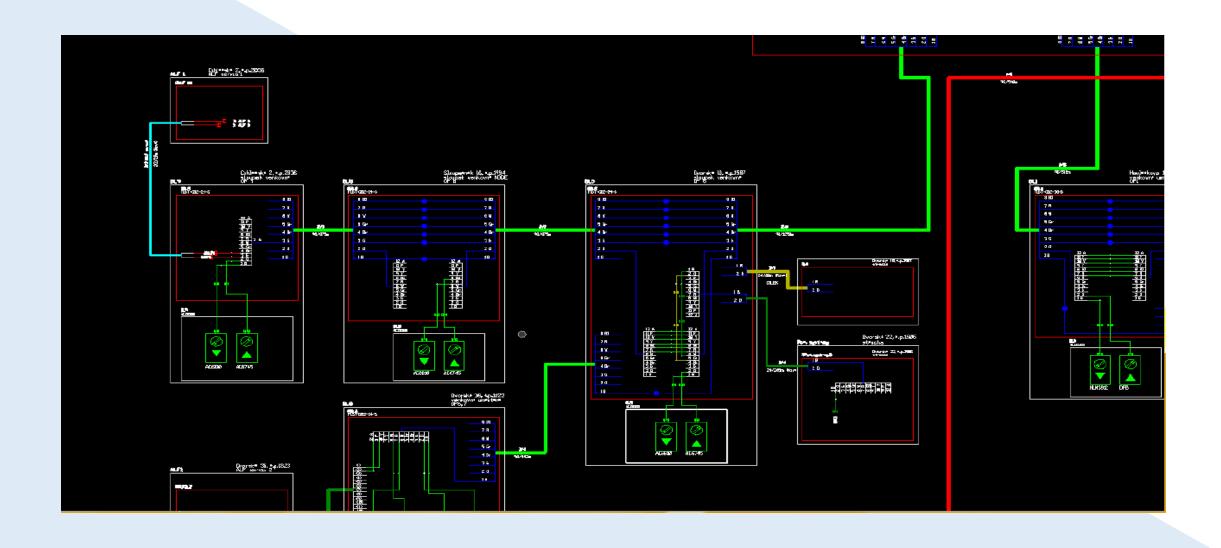
Data before import – AutoCAD



Data before import — AutoCAD



Data before import - AutoCAD



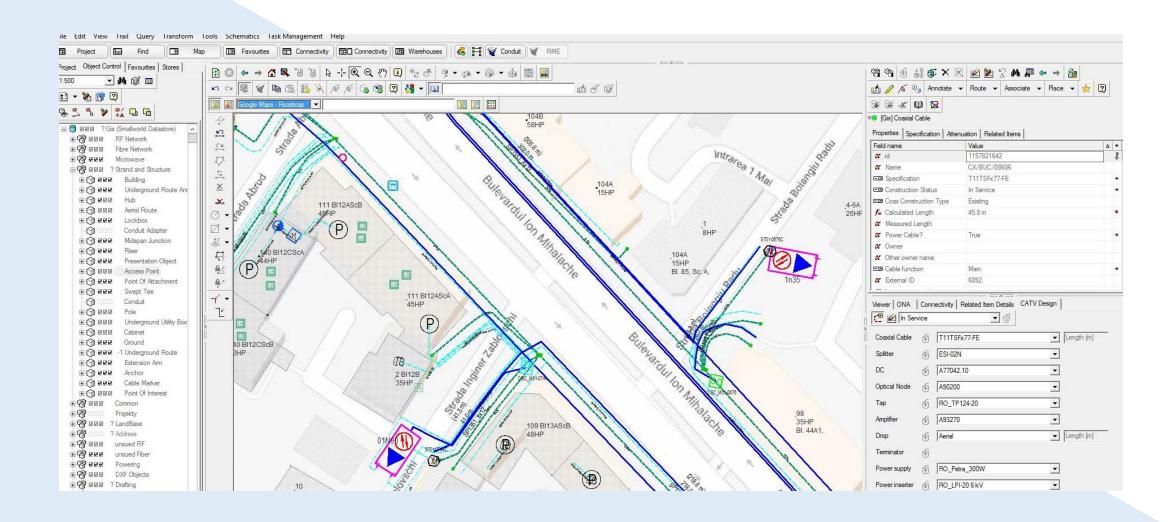
Data before import - Excel

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Data before import - Excel

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7		Transport	B-02	Str. Martisor	[TRS] Transport	Standard	HDPE-40-P, ROSU	NJA, NJA	ALB	T-10x8	Asignata	7/12/2010 0:00
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9	195	Transport	,	Calea Vacaresti [B-02]	[TRS] Transport	Standard	HDPE-40-P, ROSU	NJA, NJA	ALB	T-10x8	Asignata	7/12/2010 0:00
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11	108	Transport		Str. Pridvorului	[TRS] Transport	Standard	HDPE-40-P, VERDE	NJA, NJA	ALB	T-10x8	Asignata	7/12/2010 0:00
12	200	Transport	B-02	Str. Pridvorului	[TRS] Transport	Standard	HDPE-40-P, VERDE	N A, N A	ALB	T-10x8	Asignata	7/12/2010 0:00
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Data after import – Smallworld PNI



Issues during data migration process

- Missing data or mandatory attributes (usually mandatory). But with proper analysis, we managed to work jointly with customer, corrected data and migrated accordingly.
- Data wasn't in proper coordinate system, or unknown. Using FME scripts, such issues were solved by applying proper projections or transformers made to move whole set of data at once.
- Telco network data in in continuous change. Sometimes, when finishing data migration, there are big chances that changes are happening in the field meanwhile.









Thank you for your attention

Q&A



