Designing and operating modern telecom networks using ArcGIS Utility Management

Telecom Domain and Ensemble Geoinfrastructure Manager



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Orchestrate



Business Value

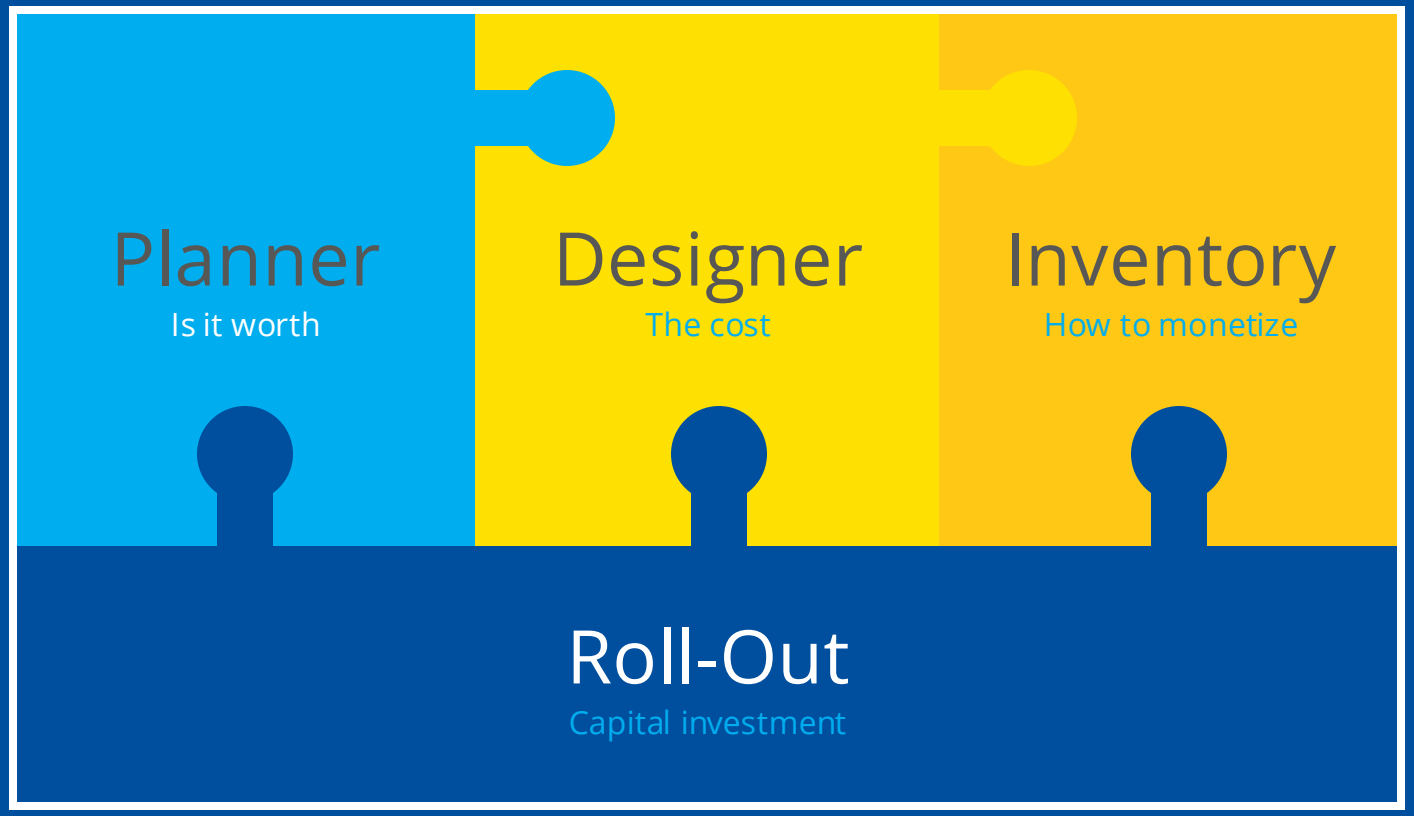
Ensemble Geoinfrastructure Manager 3.0

- Faster time-to-market for fiber rollout
- Lower capital investments per home passed
- Single source of truth for the network
- Reduced operational costs and faster service delivery
- Design quality and standardization
- Investor- and regulator-ready reporting



Geoinfrastructure Manager 3.0

Telecom and Electricity Networks Planning, Design and Inventory



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Digital Twins of Networks

Ensemble Geoinfrastructure Manager 3.0

- Utility Network and Telecom Domain Based
- Core UNM Information Model
- Extended Information Model
- Associations and Rules
- Various Data Models
- Online, Pro and Mobile Versions
- More than 20 features such as Asset Catalog, Asset Editor, Associations Manager, Splice Manager and many more



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Features

Geoinfrastructure Manager 3.0

GIM Pro

GIM Inventory

Asset Manager (Tool as tree-based view of elements, all, selected, on the map, search etc.)	**Associations Manager** (Tool to manage containments, connectivity and attachments)	**Splice Manager** (Tool to manage specifically fiber connectivity inside splices)	**Trace Manager** (Tool to perform numerous tracings e.g. circuit, path, root-cause, etc using numerous tracing configurations)	**Incident Manager** (Tool to introduce various incidents in the network, fault, cable cut, planned outage, etc.(	**Layout Manager** (Tool to publish advance map layouts e.g. for construction, feasibility etc.)	**Reports** (Tool to view various reports e.g. interactive BoM, selected network elements, capacity of elementsetc.)
Asset Catalog (Tool to manage Asset templates, definition of assets including structure, default attributes, symbol, library of elements etc.)	**Topology Manager** (Various topology validation tools)	**Infrastructure Manager** (Tools to manage specifically infrastructure views, butterfly, cross-section, building diagram etc.)	**Circuit Manager** (Tool to manage circuits – create, view, edit, calculate signal loss, also assign service as attribute, like service ID)	**Cost Manager** (Tool to create bill of material in an interactive way and associate costs to each elements and show BoM)	**Dashboards** (Tool to browse and view web dashboards)	**Insights** (Tool to generate charts based on elements)
Version Manager (Tool for creation of GIM versions which extends ArcGIS version management and includes users, lifecycle management state machine etc.)	**Asset Editor** (Tool to perform various editing such as Cut and Insert and other feature editing tools etc.)	**Device Manager** (Tool to manage specifically inside plant, active devices, layouts etc.)	**Capacity Manager** (Tool to view capacity,e.g. free ports, free, fiber, free ducts, coverage gaps etc.)	**Diagram Manager** (Tool to view various diagrams)		**AI Manager** (Access to AI agents - Synth)

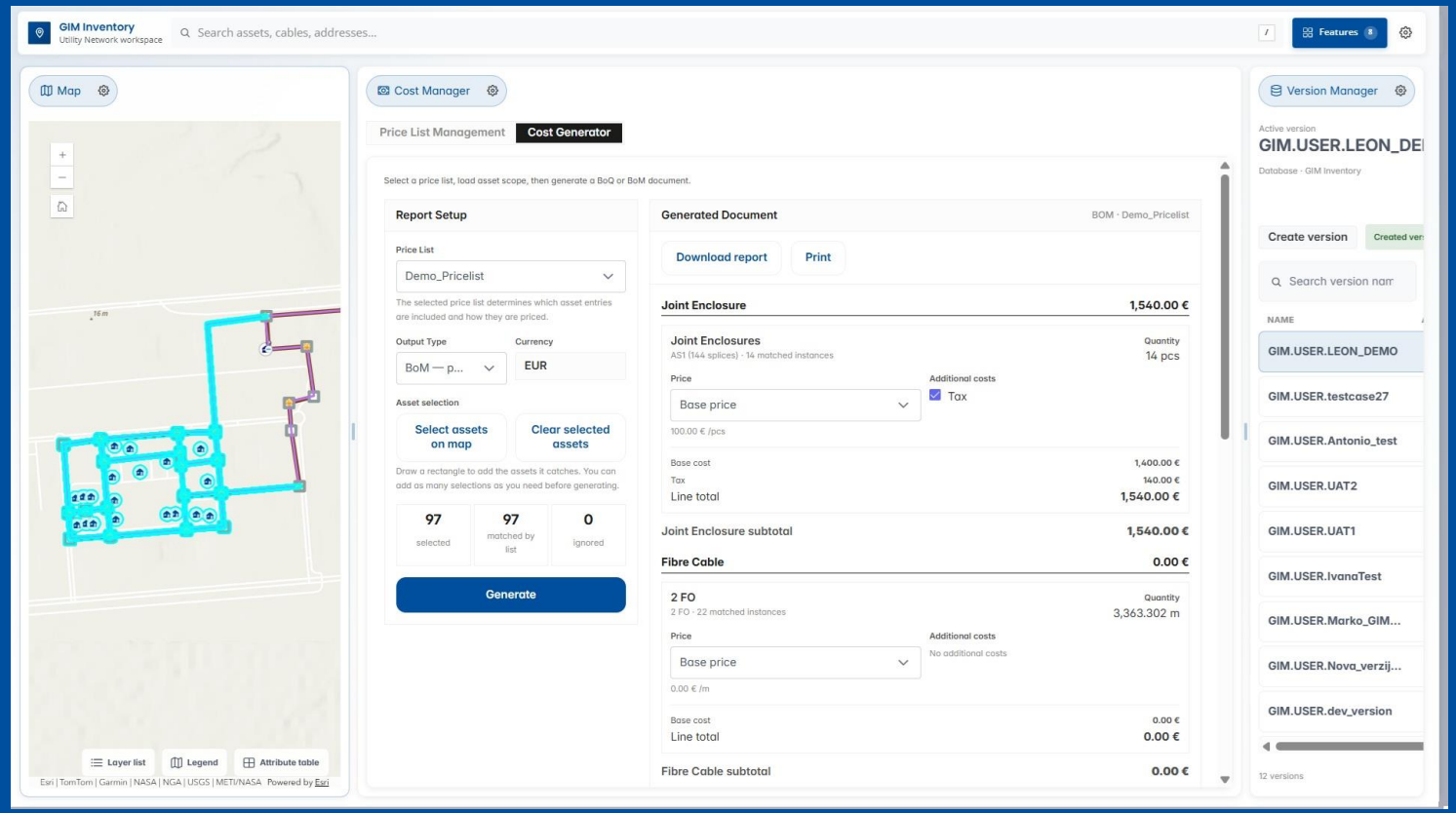
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Demonstration

Overview of GIM 3.0 Features

- UN Telecom Domain Model
- Asset Catalog
- Asset Manager
- Version Manager
- Topology Manager
- Planner and Design Manager
- Association Manager
- Asset Editor
- Infrastructure Manager
- Splice Manager
- Cost Manager
- Layout Manager
- Trace Manager



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DEMO

For a live demo, please contact fran.brajcic@gdi.net



Kelag Energie Feasibility

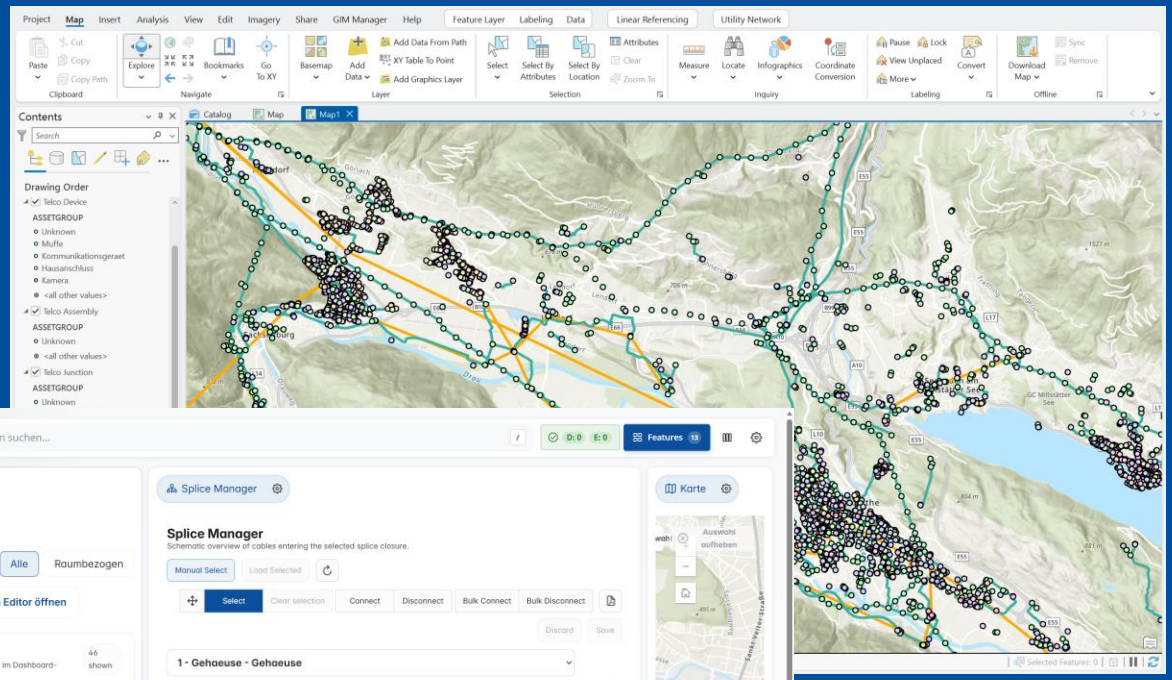
Migration of Grid Telecom Network to TDN and GIM

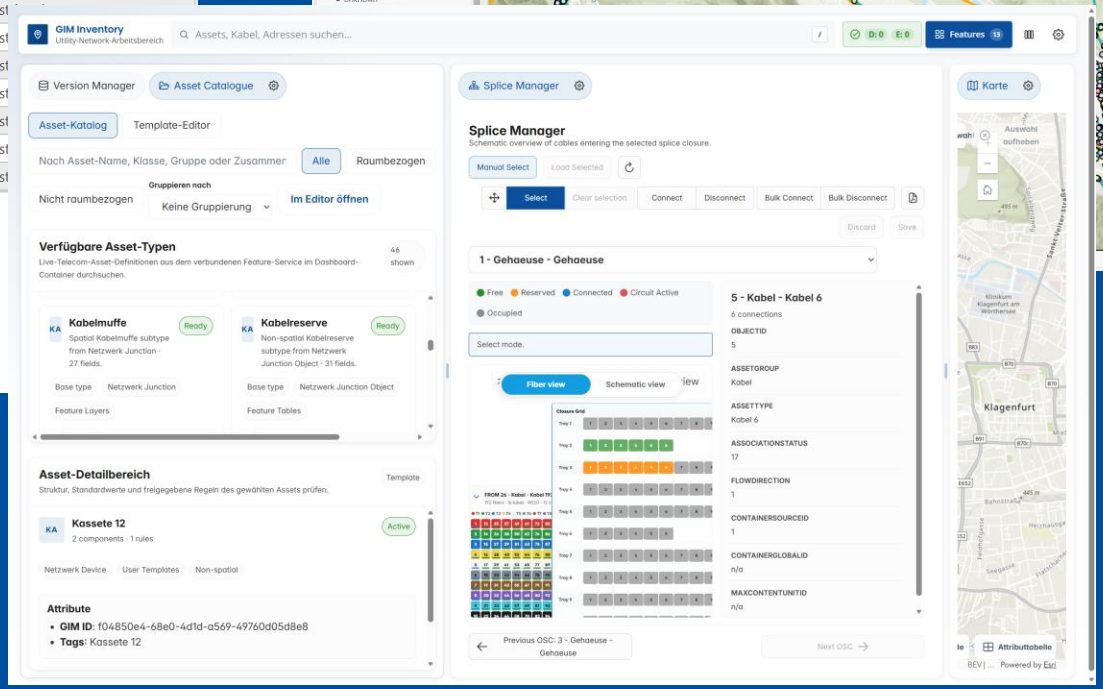
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- Structure Line

Asset Group Name	Asset Type Name	Association Role	Container View Scale	Association Deletion Semantics
Unknown	Unknown			
Kabelschutzrohr	DN 32	Container	1:1	Restricted
	DN40	Container	1:1	Restricted
	DN50	Container	1:1	Restricted
	DN unbekannt	Container	1:1	Restricted
Rohrbuendel	SRV-G 63	Container	1:1	Restricted
	SRV-G unbekannt	Container	1:1	Restricted
Einzelrohr	Hausanschlussrohr 7 mm	Container	1:1	Restricted
	Hausanschlussrohr 10 mm	Container	1:1	Restricted
	Hausanschlussrohr 12 mm	Container	1:1	Restricted
	Hausanschlussrohr 14 mm	Container	1:1	Restricted
	Mikrorohr 10 mm	Container	1:1	Rest
	Mikrorohr 12 mm	Container	1:1	Rest
Freileitung	20kV	Container	1:1	Rest
	110kV	Container	1:1	Rest
	220kV	Container	1:1	Rest
Hilfstrasse	Direktverlegung ohne Rohr	Container	1:1	Rest
	Virtueller Verlauf	Container	1:1	Rest

- Structure Boundary
- Structure Junction Object
- Structure Edge Object
- Telco Network
- Rules





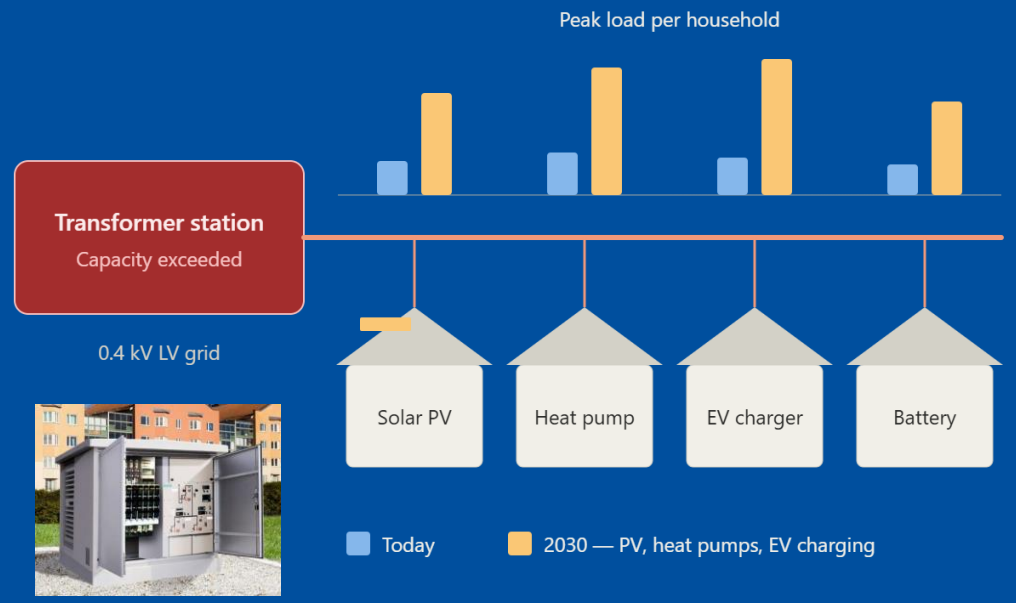
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Geoinformation Manager - Electric 3.1

Low Voltage Strategic Planning - Roadmap

- GIM Electric brings the Utility Network to electricity distribution, with a dedicated focus on the most pressing question for DSOs today: how to plan the strategic evolution of the low voltage grid.
  - LV grid under pressure
  - Transformer capacity must double
  - Automated investment planning
  - Least-cost grid reinforcement
  - Minimal outages, minimal disruption
  - Scenario-based strategic budgeting



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About Ensemble Global

Who are We?



Ensemble

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Ensemble Global

The complete Operations Support Systems

esri Partner Network Member

- Experienced telecom and digital industry team with proven experience with European telecom operators, large information technology companies and geoinformation technology engagements.







Selected Customers

Europe and Middle East














Questions and Answers

Discussion





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