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LANDFOLIO® DENVER USER CONFERENCE 2018

Penmap for Mobile Data Collection





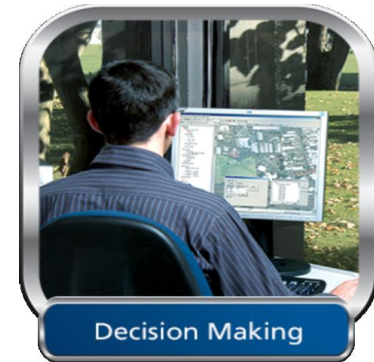
Agenda



- Trimble Penmap Software Solution
 - Penmap Overview
 - Penmap in the Field
- Trimble Catalyst Solution
- Penmap Customer Examples
- Penmap Lunch Demo

Trimble Solutions

- Transforming survey and engineering workflows by integrating technology solutions to provide professionals with greater productivity



Penmap: mobile, simple, and flexible



What is Penmap?

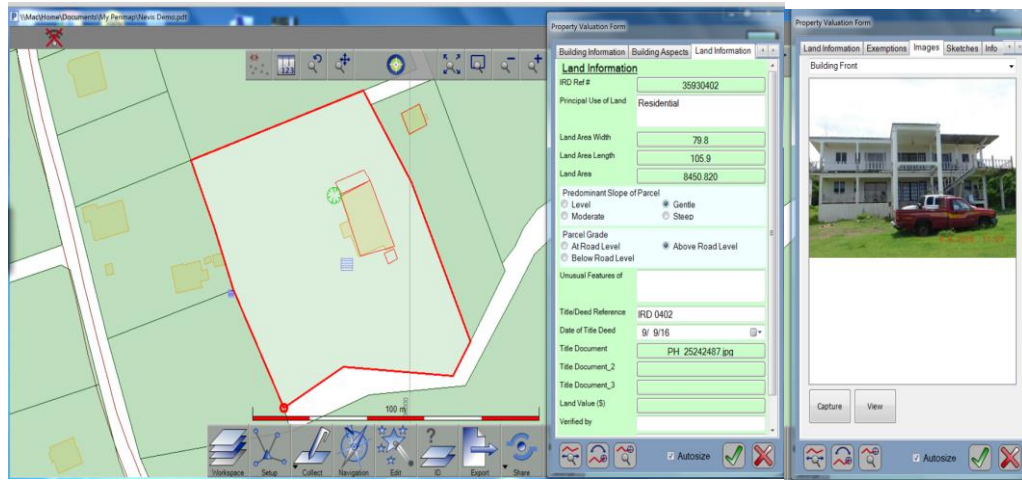
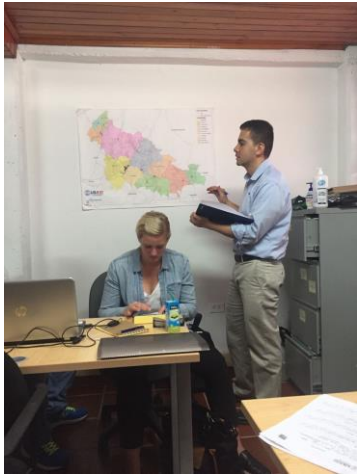
- **Graphic field book**
 - Digitization, Constructing, Sketching *
- **Controller**
 - Totalstation*, GNSS
- **Survey Data Collector**
 - Points, lines, objects
- **GIS Data Collector**
 - Capture attributes, additional data in GIS schema
- **Data Manager**
 - Import / export and apply definitions

* Not all features available for Android



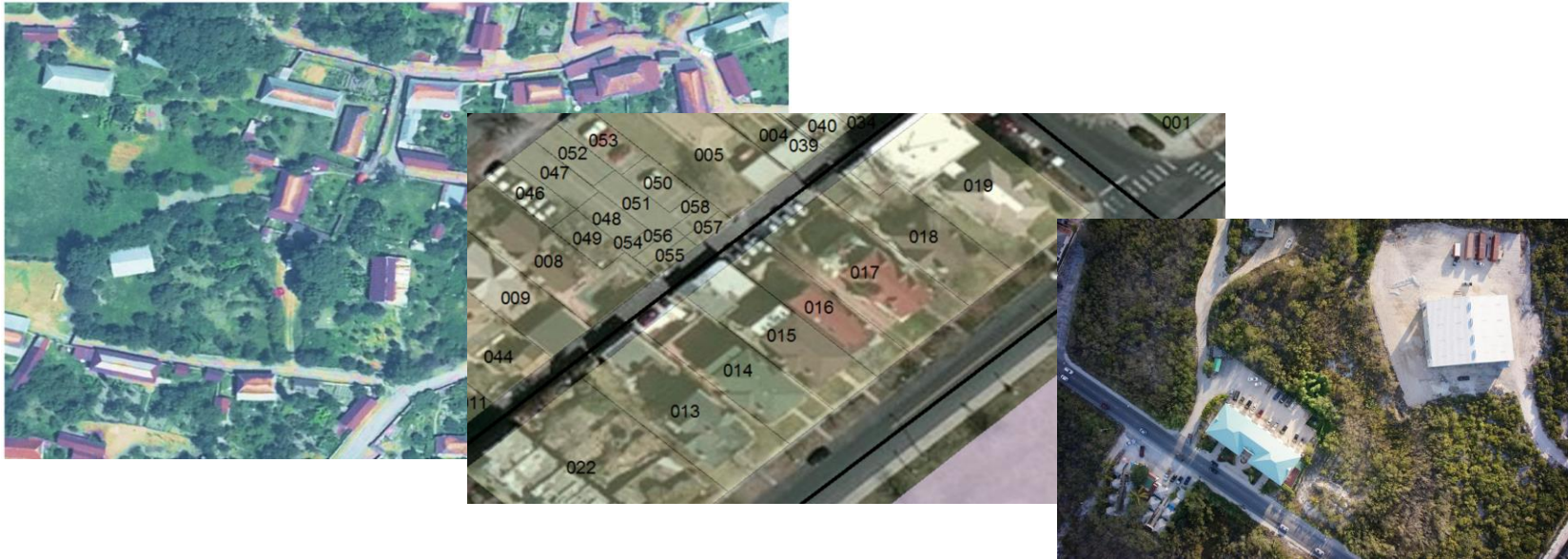
Penmap Concept

- Flexibility in data collection without compromising quality
- Process integration and workflow optimization
- Digital data transfer and management



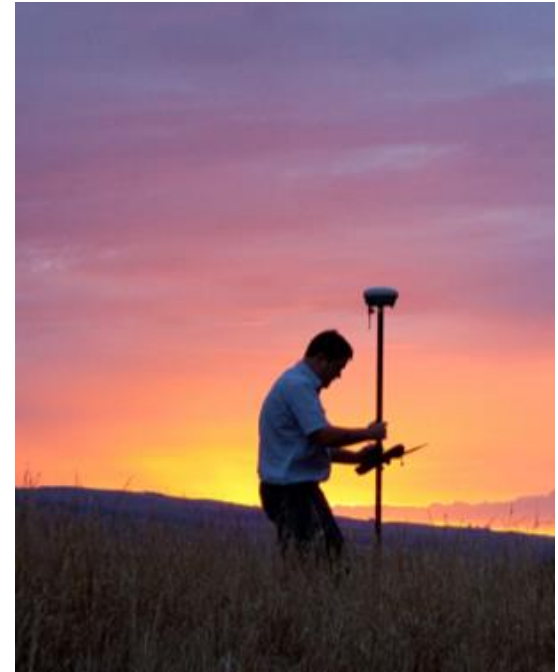
Orthophotos and Cadastral Data

- Load background imagery (JPG, TIFF) and data (DWG, CSV, SHP)

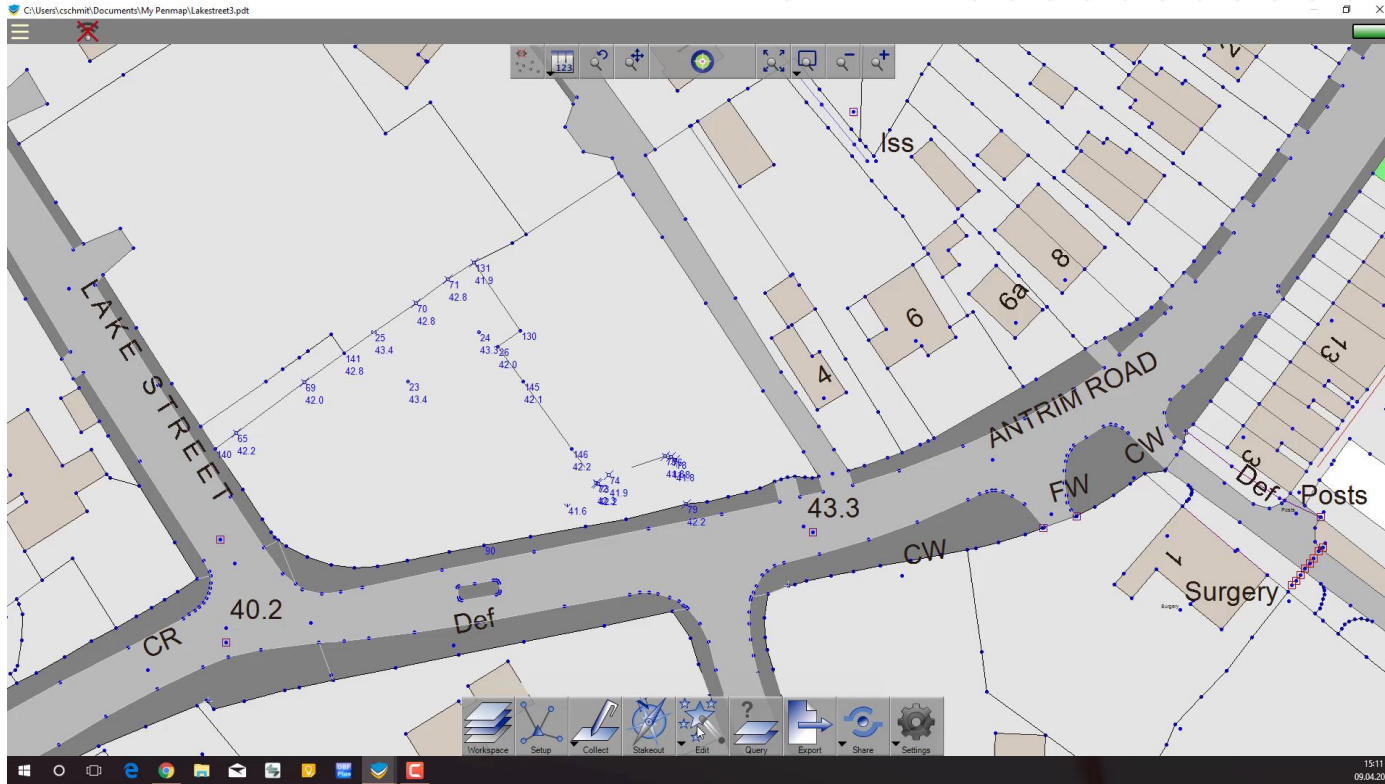


Penmap Workflows

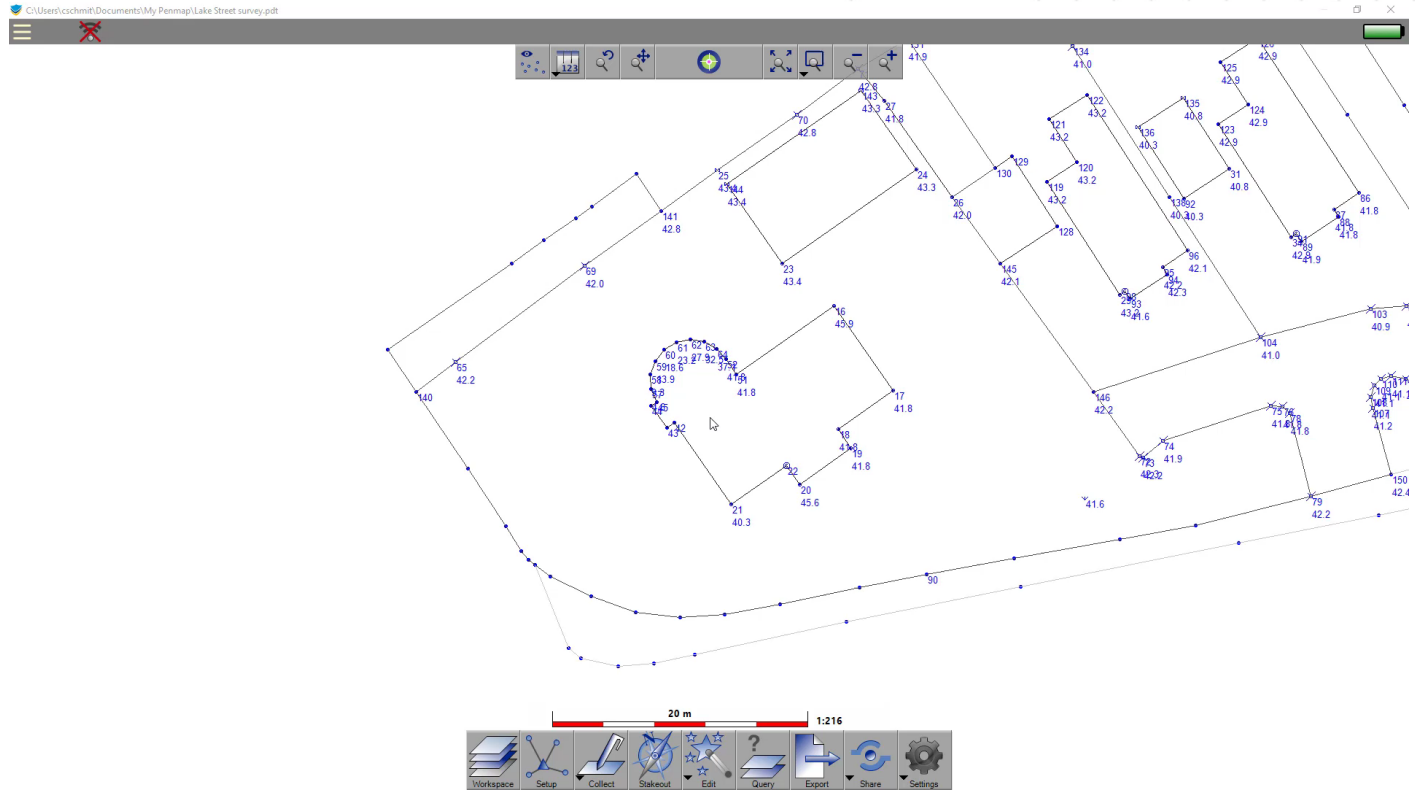
- GIS and Survey based workflows
 - Same equipment and software
 - Leverage high accuracy data across your organization
- Enhanced editing and validation workflows
 - Split Area and line behaviours
 - Copy and Paste objects from other surveys
 - Rerouting line geometry
 - Maintaining and updating common topology
- Edit and verification of data in real time



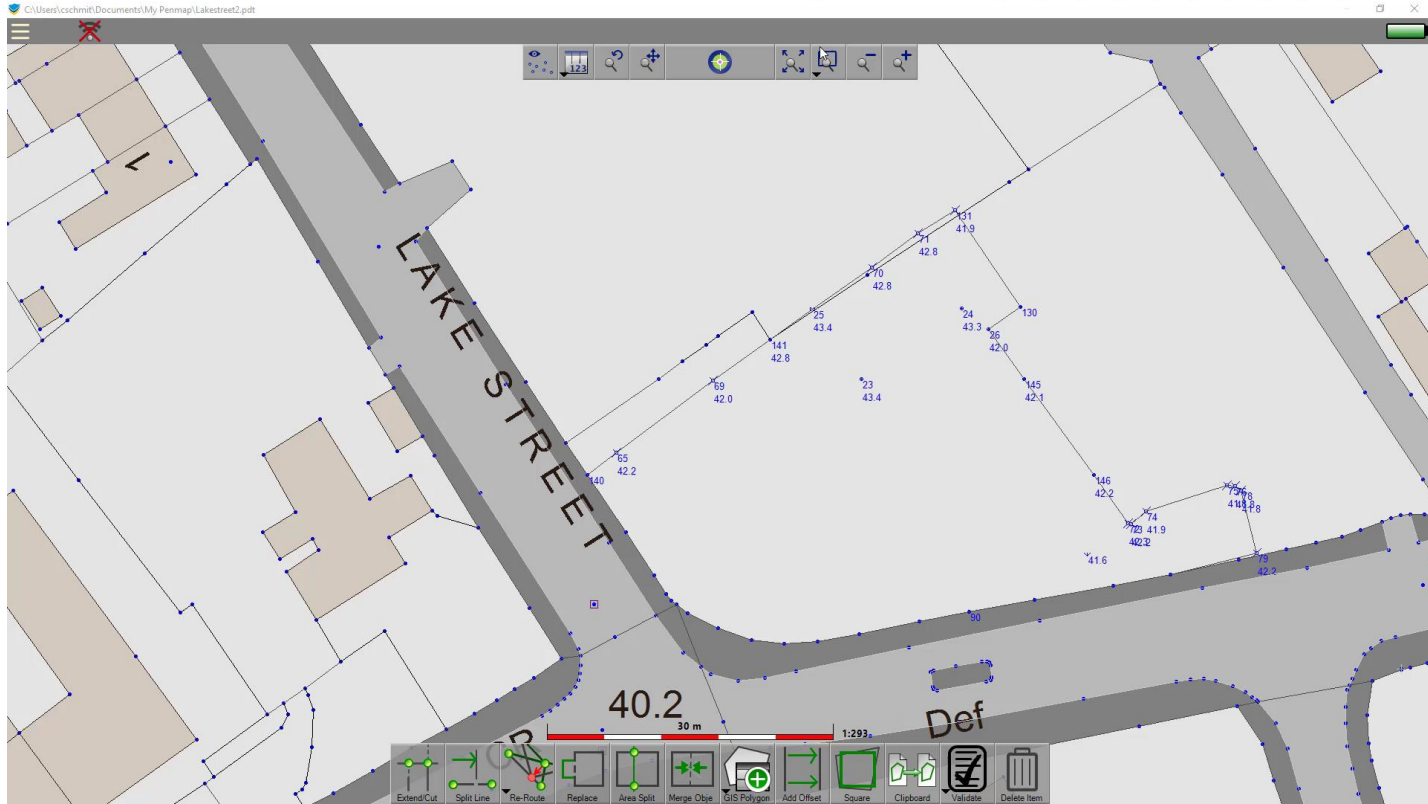
Split Area



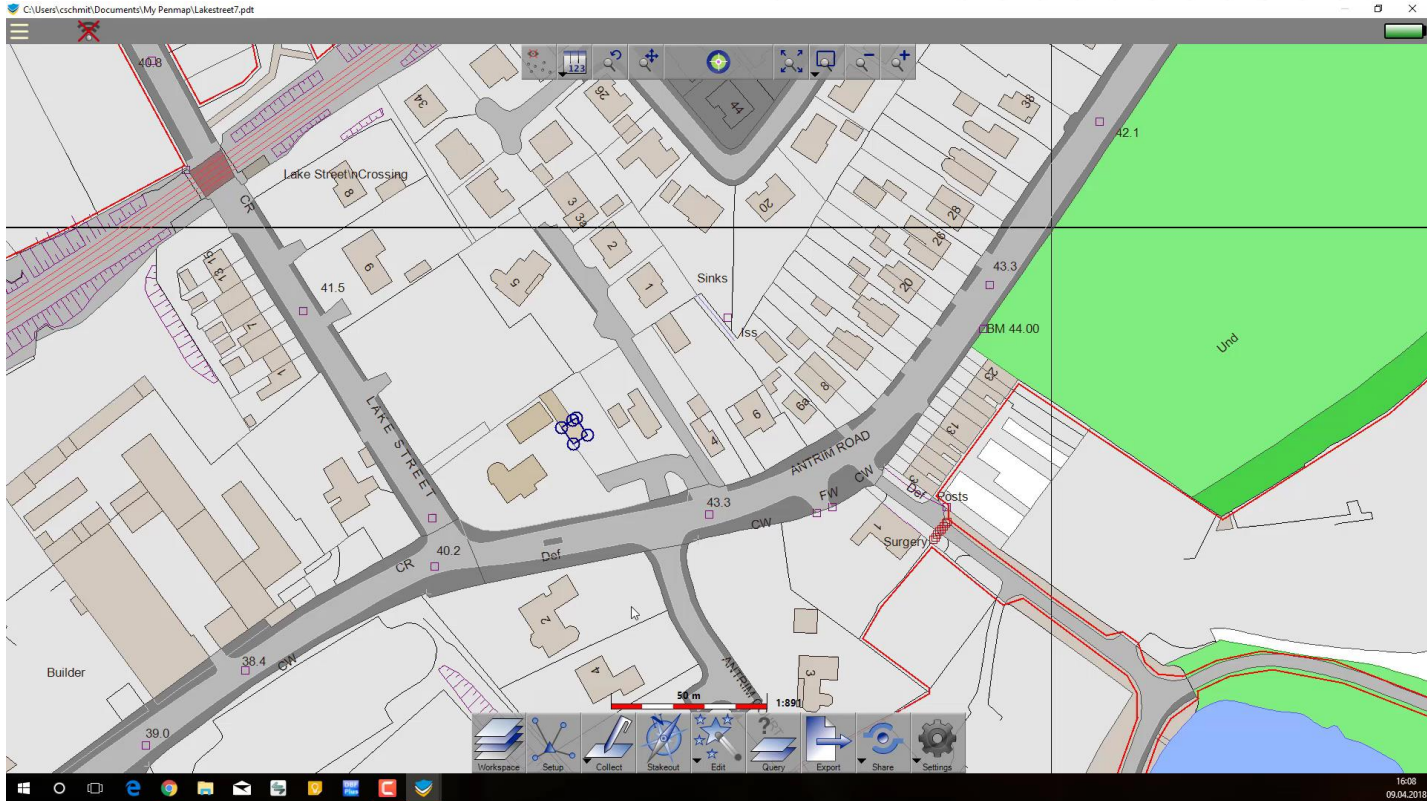
Copy and Paste Objects



Rerouting Line Geometry



Project Validation in the Field



Penmap Instrument Support

- Android: Catalyst, Trimble R-Series
- Windows: S-Series, R-Series, T10, Data-Radio for Base-Station



Trimble Catalyst- DA1 Antenna

- New concept of GNSS ‘software’ receiver
- Lightweight and easy to configure
- Pair with custom apps on your smartphone
- Subscribe to the accuracy service that you need
- Compatible with Penmap
- [Catalyst Video](#)



Trimble Catalyst – What you Need

1. Trimble DA1 Antenna
2. Subscription for Trimble Catalyst
3. Android Device
4. Trimble Catalyst-enabled App
 - Penmap
 - SDK



Trimble Catalyst - Accuracy



1 Meter



Sub-meter



Decimeter



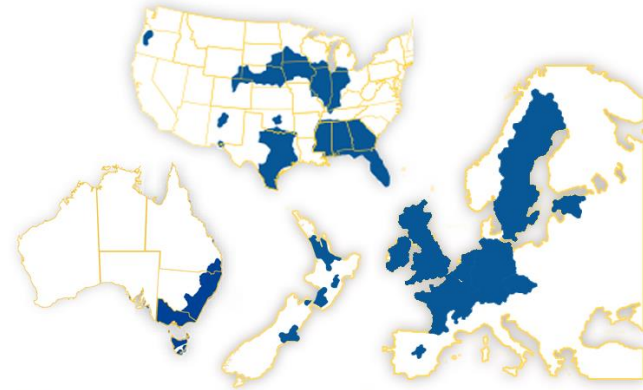
Precision



Catalyst Sub-meter: IP-delivered corrections coverage area (50 cm)

Catalyst Sub-meter: Satellite-delivered corrections coverage area (50 cm)

Catalyst Sub-meter: Trimble VRS Now and RTX Regional iono-model coverage areas (30cm)



Catalyst Decimeter: IP-delivered corrections coverage area (10 cm)

Cadastral Surveying



kadaster



Topographic Surveying



Agricultural Parcel Controls

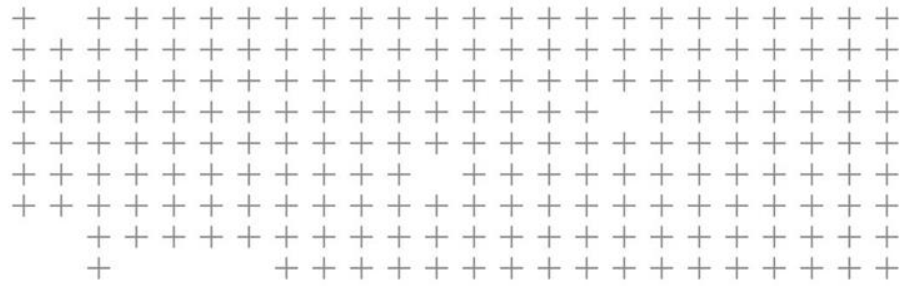


Landesvermessung und
Geobasisinformation
Brandenburg

Utility Mapping



ENERGIEAG
Oberösterreich



Demo