FIG Commission 7
2022 Annual Meeting

October, 2022

Markus Koper | Trimble Land Administration

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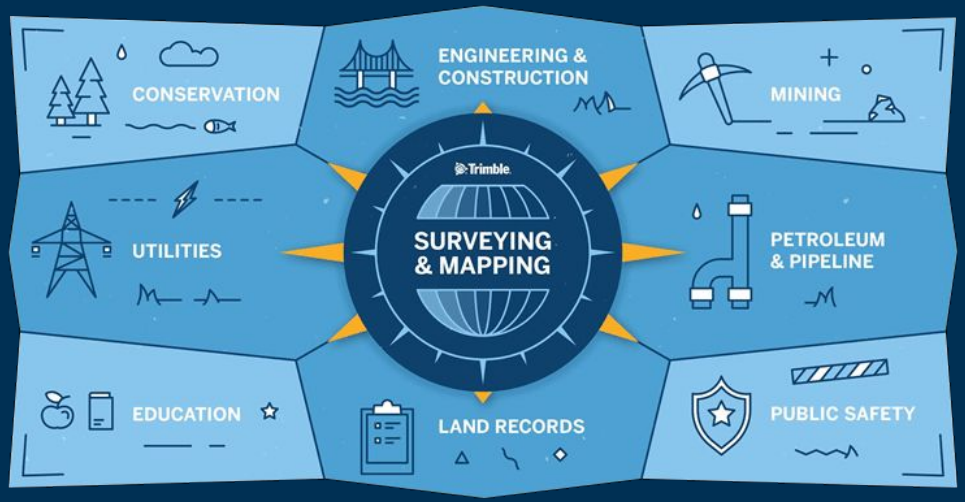
Trimble

About Trimble Land Administration

- Part of the Geospatial Sector at Trimble
- *"Transform the way the world collects and manages land information"*

Geospatial Platform Strategy

Trimble's Geospatial platform enables our surveying and mapping customers to connect the physical earth with the digital world in a wide variety of industries, transforming the way the world works.



Geospatial Platform Strategy

The Trimble Geospatial platform consists of innovative hardware, software and correction services that enable multiple industry workflows

CONCEPT & DESIGN
SCHEDULE & PROJECT MANAGEMENT
OWN, OPERATE & MAINTAIN
EXECUTE CONSTRUCTION

Trimble Cadastral Survey Solutions

System of record → Office Preparation → Fieldwork → Office Processing → System of record

Trimble Cadastral Solution

Trimble Business Center
Trimble Connect

Trimble Access
Trimble Penmap

Improving the regional cadastral survey workflows

Regional cadastral requirements

- Measurement workflows
- Measurement processing
- Reporting
- Deliverables
- API´s and Interfaces

Trimble Geospatial Technology

World's best survey solutions for cadastral data collection and processing (Hard and Software), supporting full digital workflows

Trimble's Fit-for-Purpose Solution

PENMAP ANDROID DATA COLLECTION
Land Registry Software

Field data collection for everyone
Easy to use, map based, STDM / LADM compliant

ANDROID OS FIELD DEVICES
Affordable Data Collectors

Bring Your Own Device - Android devices are inexpensive and offers a performance and flexibility

TRIMBLE CATALYST
GNSS Positioning Concept

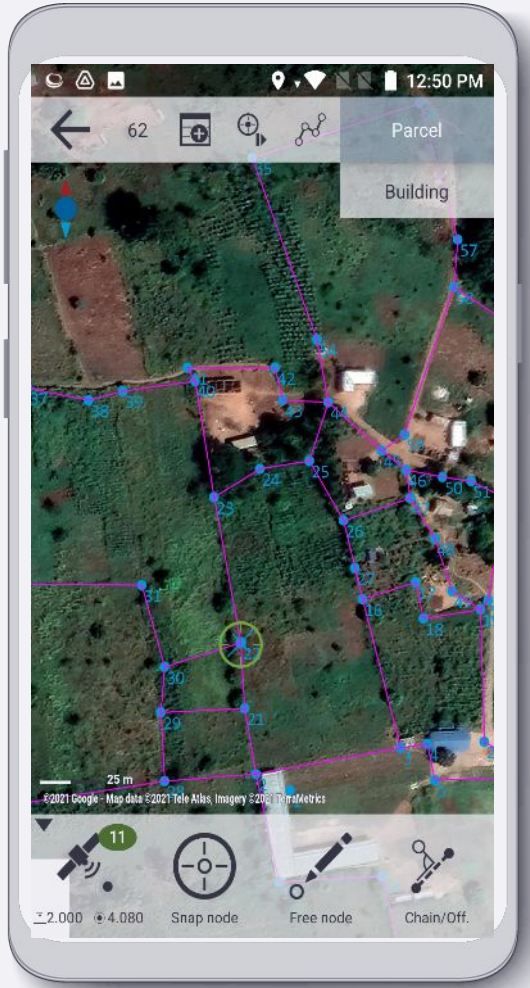
Low cost GNSS antenna and correction service on demand - worldwide

Trimble Penmap Android

Fit-For-Purpose

Data Collection

- Easy to Use
- Flexible
- Background Data
- Collect & Edit
- GNSS
- STDM / LADM



Trimble Penmap

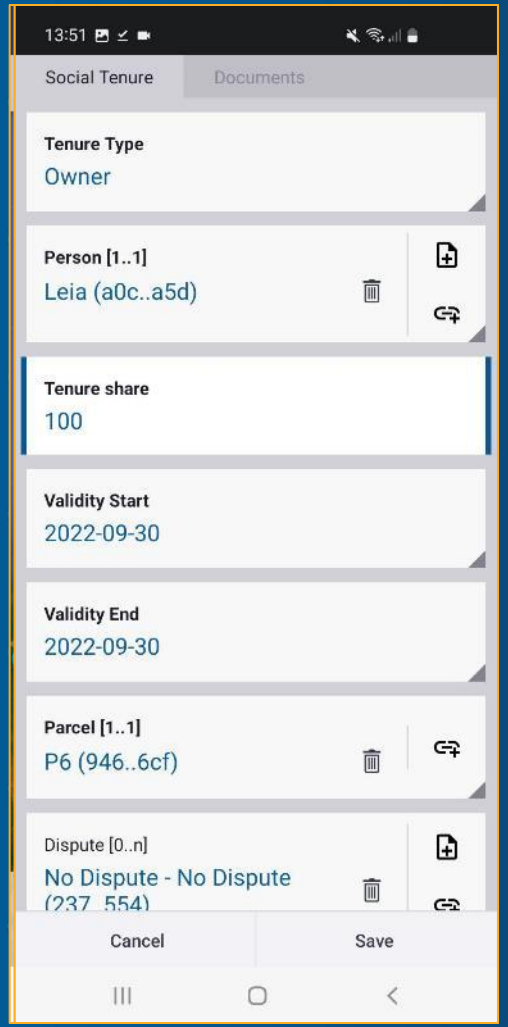
Land Administration Data Collection

Map: Graphic & GIS Data
- Parcel

Formbased - Table Data
- Person

Relationship - Map & Formbased
- Tenure

Flexible / Professional / Easy-to-use



LADM field data collection

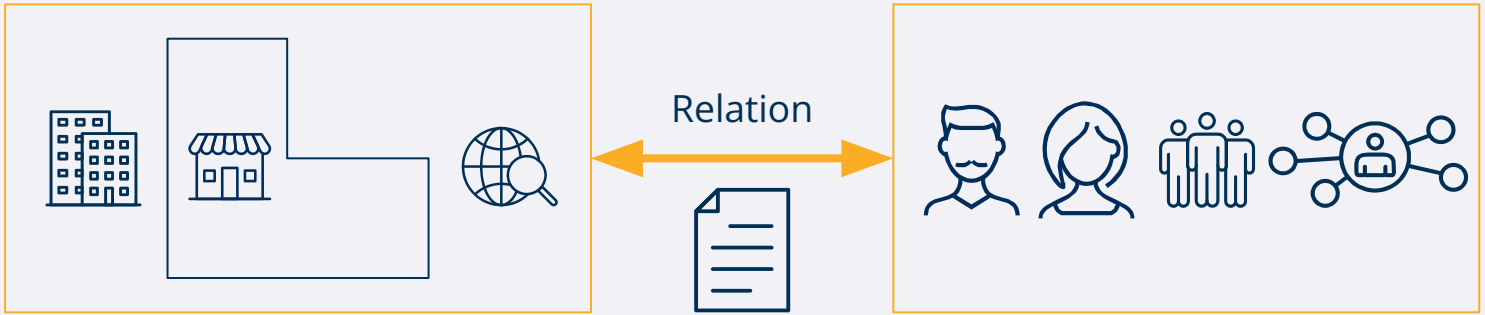
Spatial Data - Non Spatial Data - Relationships

SPATIAL DATA:

Parcels, Buildings, Agriculture Fields etc.

NON-SPATIAL DATA:

Persons, Parties, Legal Entities etc.



Map: Graphic and GIS data

Formbased - Table data

Relationship 1:n

Owner, Tenant, Share etc.

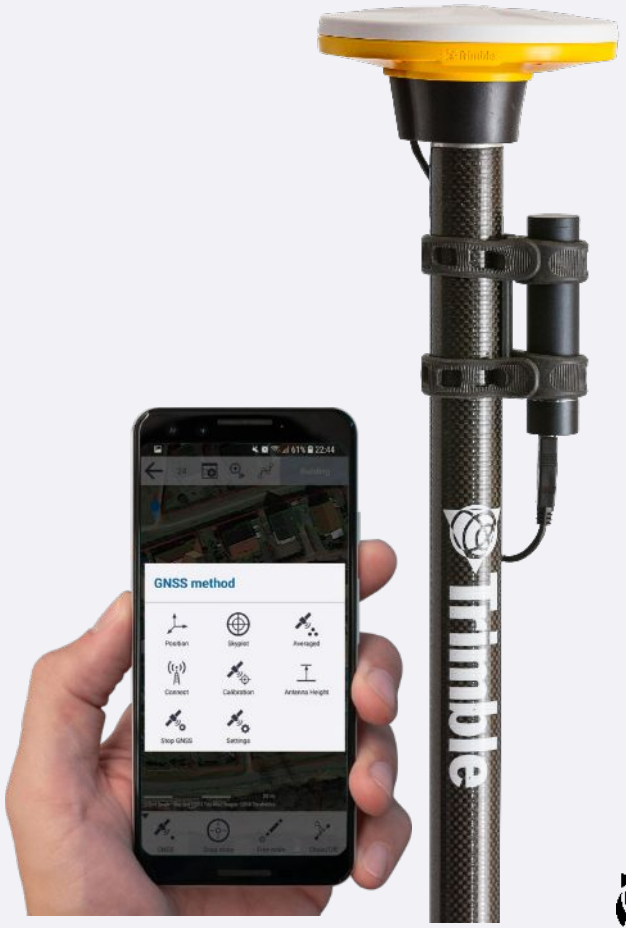
Trimble Catalyst - GNSS Positioning-as-a-service

DA2 - GNSS Receiver

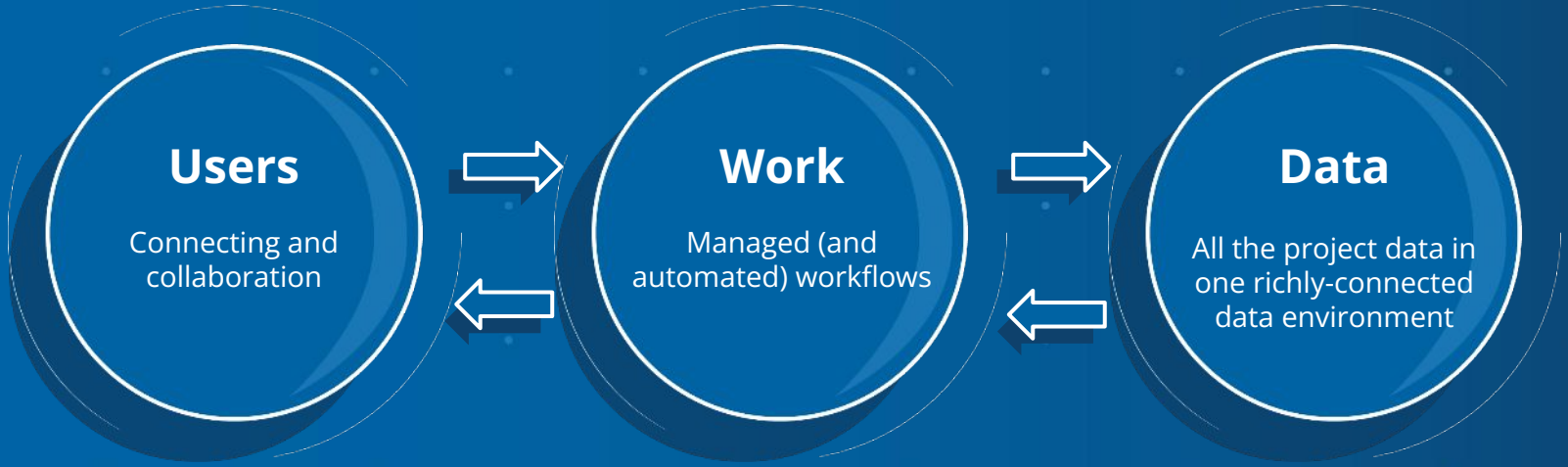
AND

Trimble Correction Service

- Worldwide available - up to **“cm accuracy”**
  - In connected and unconnected areas
- Scalable for individuals, small teams, and large crews
- Inexpensive, Flexible
- Simple to use - Plug and Play



Connecting the physical and digital worlds



Everybody... → **...working together** → **...on the same page**

Thank You

Trimble Land Administration

For Questions or Feedback please contact:
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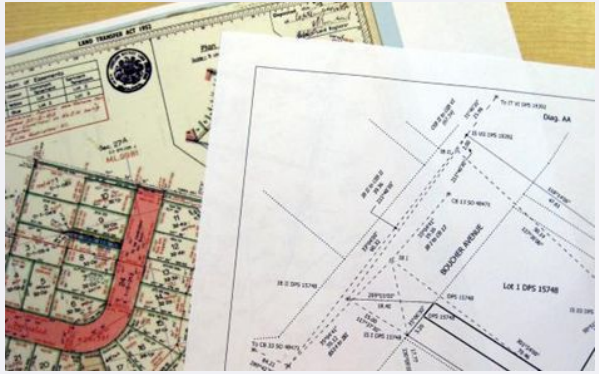
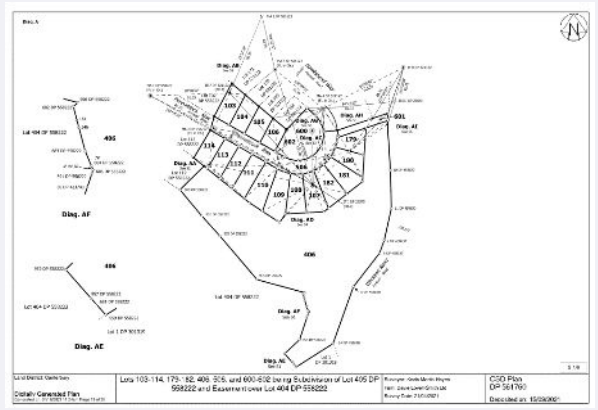
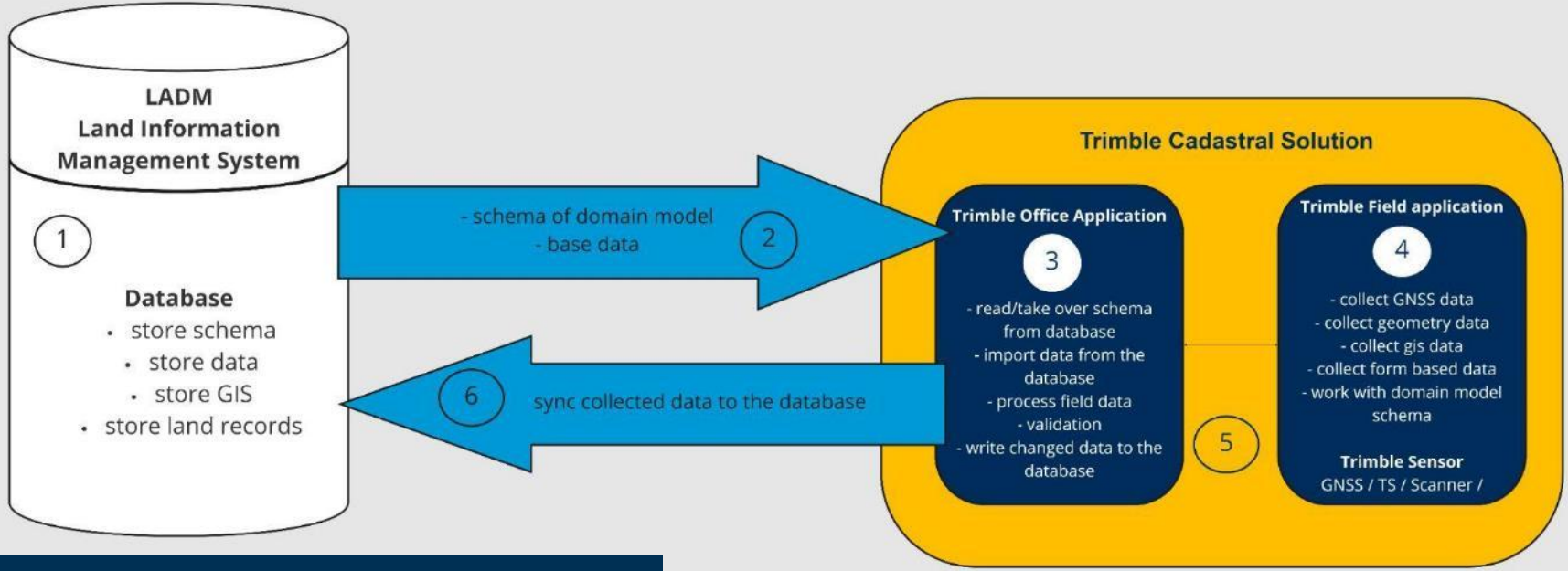
What is Cadastral Surveying?

The Cadastre:

- The documentation of land ownership and interests in land.
- This varies in each country;
  - Paper Records
  - Spatial Databases
- Each country has its own Cadastre or Cadastral System and with that it's own requirements and regulations for collection and for the submission of cadastral data.







Data Workflow