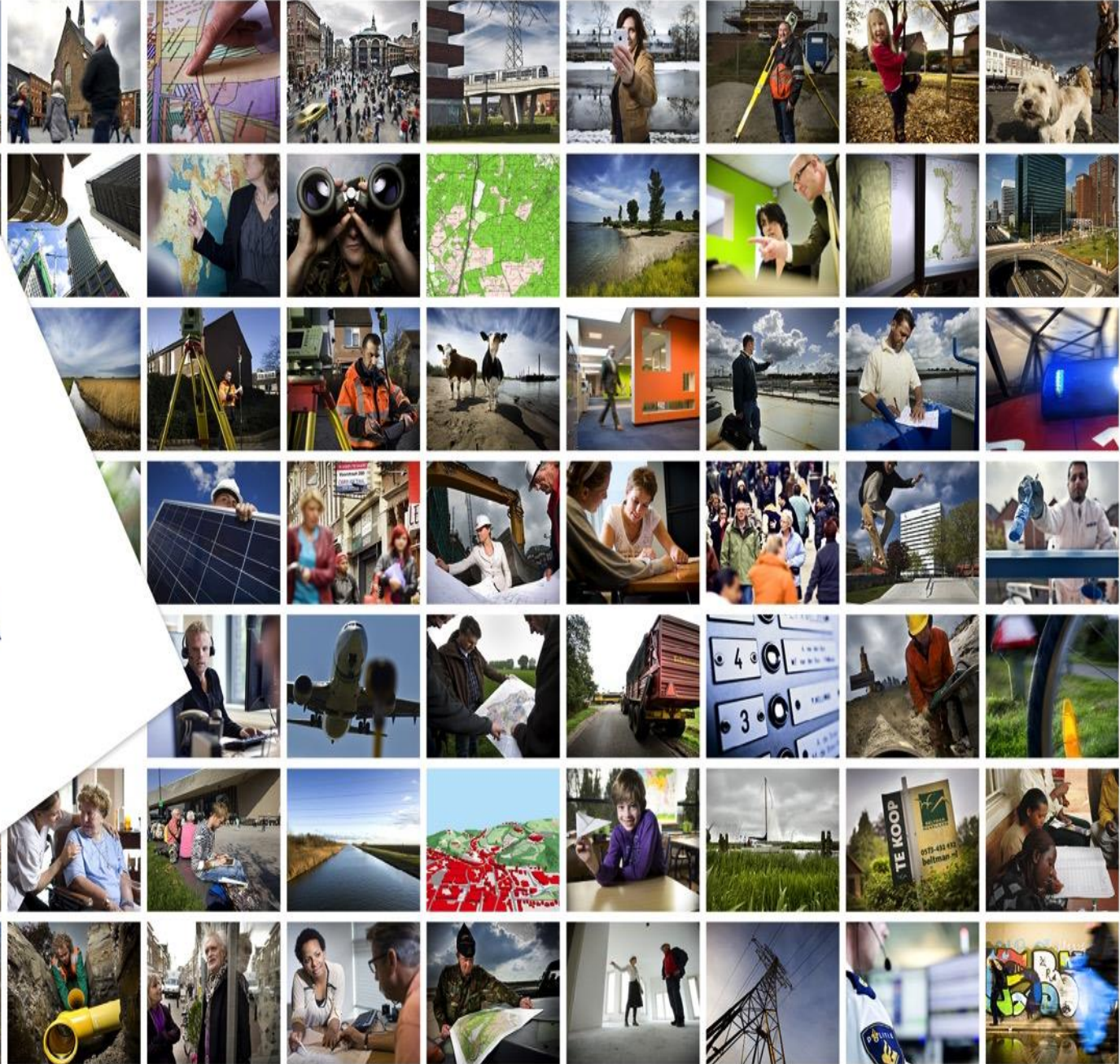


kadaster



▪ Theo Splithof senior advisor / procesmanager Cadastre

kadaster

kadaster



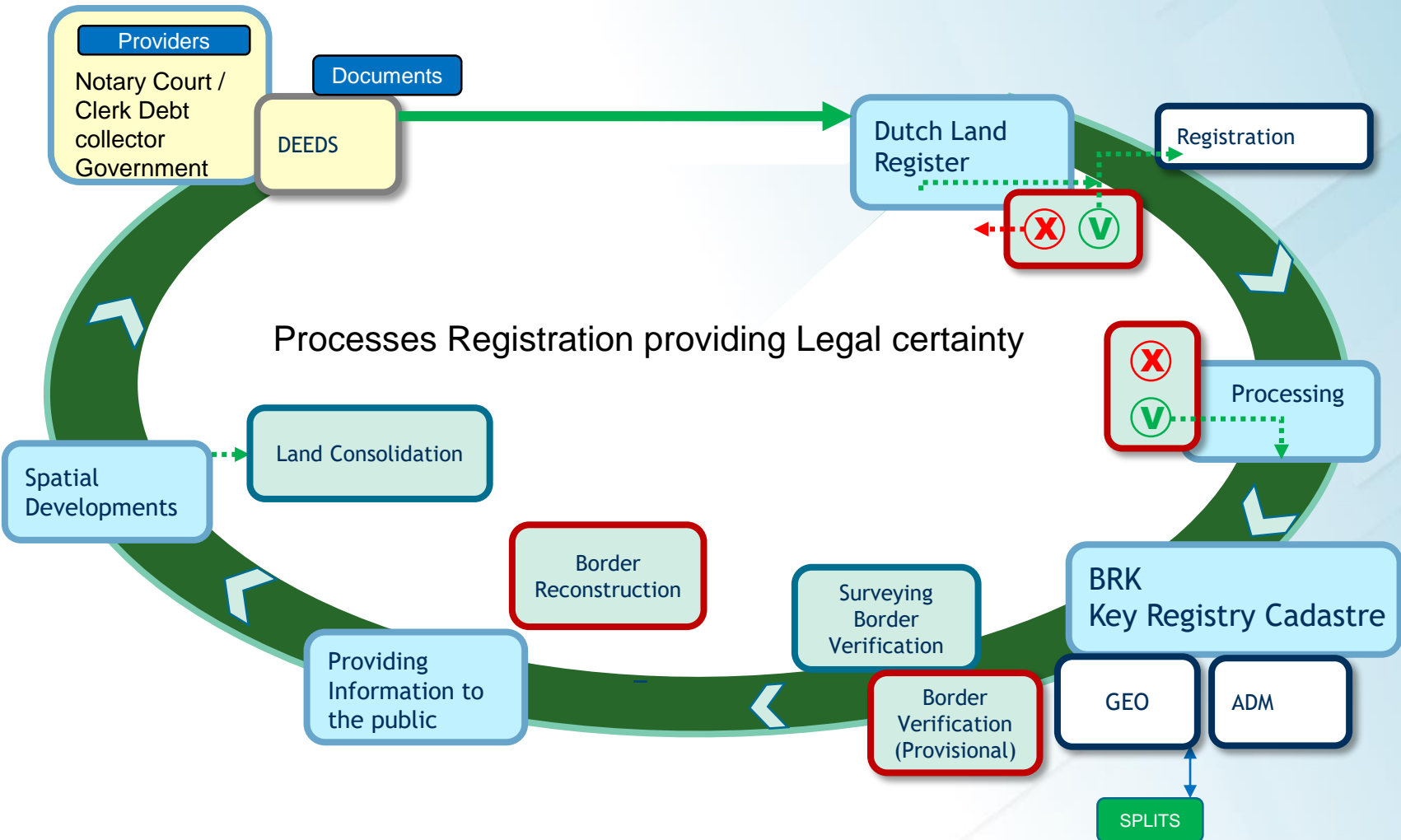
Cadastral surveying Updating cadastral map

Theo Splithof Senior Advisor
Procesmanager Key Registry Cadastre

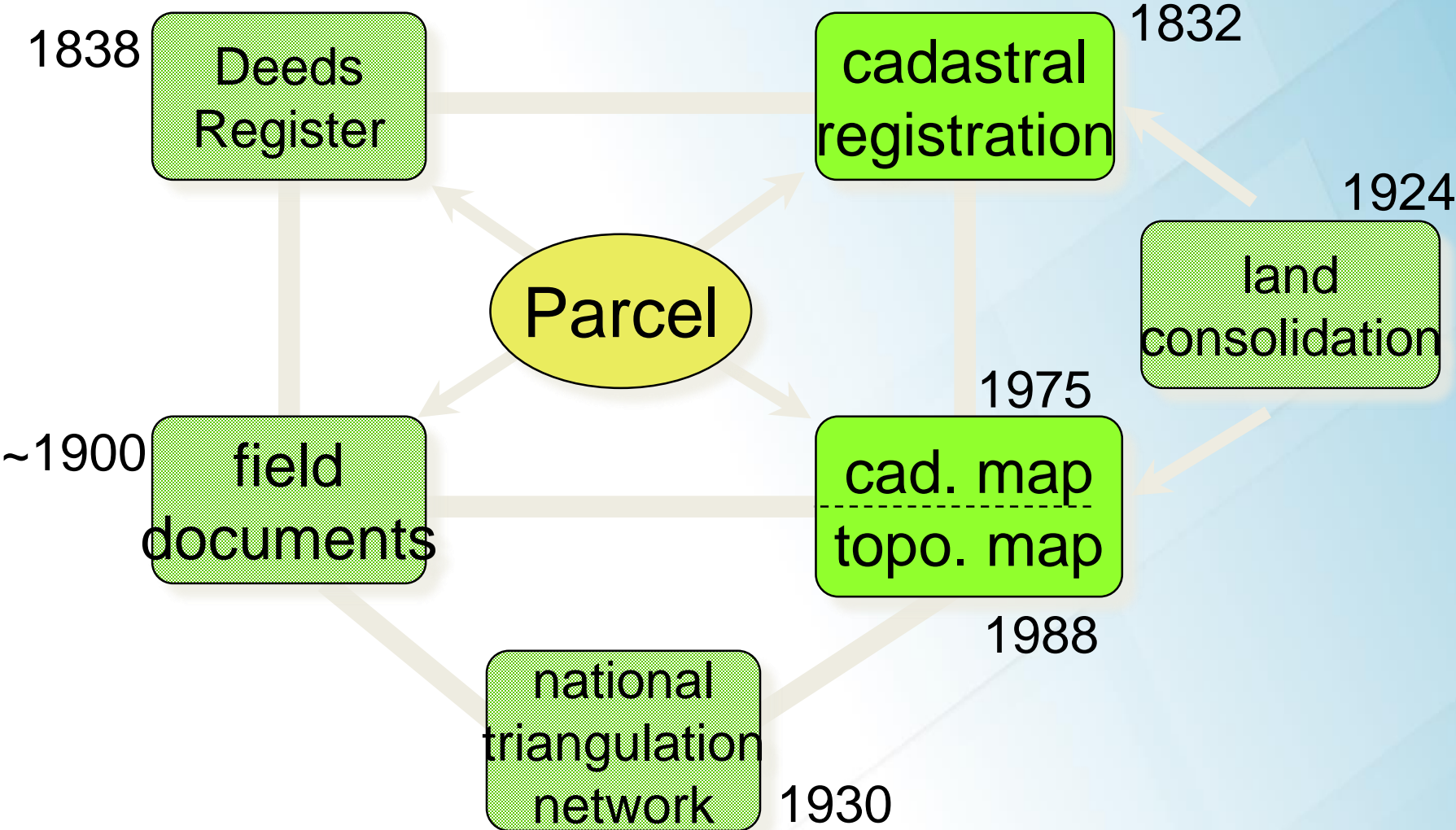
Agenda

- I will give you a short view about our past
- I will give you our processes of maintaining the cadastral map
- I will focus on the (new) provisional borders
- I will mention the role of our surveyors.

Global diagram process steps Land Registration and Geography

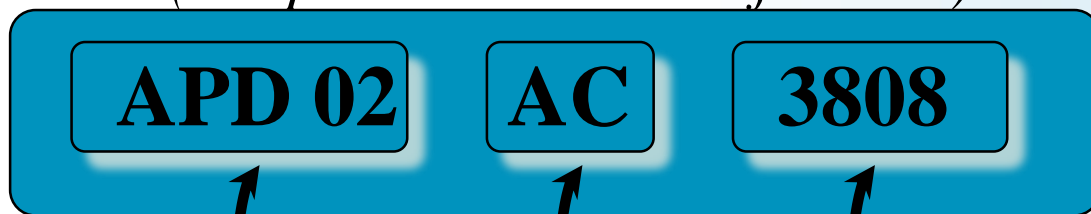


Cadastral Basic Structure



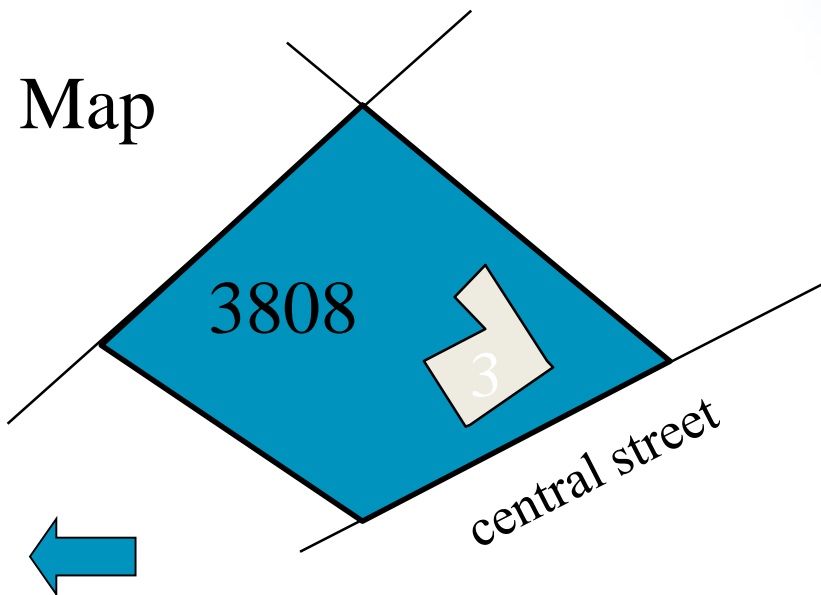
Cadastral parcel number

(unique national identification)



municipality-code section number

Map



Administration

| | |
|----------------|-----------------------------|
| identifier | APD02 AC 3808 |
| owner | Smith, J.P. |
| right | full ownership |
| object-address | 3 Central street Motown |
| area | 1 a 97 ca |
| culture | house, garden |
| history | APD00 A 1027 APD00 A 936 |
| X, Y | 197 766 467 428 |

Cadastral Map in the Netherlands

Form:

- analogue: >35.000 island map sheets
 - (scale 1:500 till 1:5.000)
- digital: complete national coverage
 - (1 seamless mapdatabase).

Cadastral Map in the Netherlands

Consistency / actuality:

- cadastral map (Geo) is always synchronised with cadastral registration. (Adm)
- Supplemented with Topographic elements.

Cadastral map

Content:

- Boundaries of parcel
- Coordinates
- Topographic elements (BGT):
 - Main buildings
 - Street names
 - House numbers



Techniques used:

- Main registration in Oracle Spatial database
- INSPIRE Web Portal (PDOK): PostGIS, geoserver (webserver)
- For a specific application, Deegree (webserver)
- Open source components in use (for web applications): openlayers, GeoExt, Heron

Access to cadastral map in INSPIRE Web Portal is restricted

Land survey

- Surveyors employed by our organization
- Choice made in 1832 (focus on levying taxes)

Current situation (2019):

- Collecting data ourselves (about 250-300 surveyors)
- Using measurements of third parties
- Outsourcing work.

Provisional cadastral boundaries

Solution in cadastral update process:

- Parcel creation before deed registration with provisional boundaries and parcel area
- Simple verification of geometry of new boundaries in terrain later on
- How? Web application: Owner/Notary prepares request for parcel division with provisional geometrical data of the new future cadastral boundaries

Provisional cadastral boundaries (Splits)

Zoeken

kadastraal | **adres** | postcode

Kadastrale aanduiding

Gemeente

Sectie

Nummer


Zoeken



Perceelinformatie

Perceel
geen perceel geselecteerd.

percelen geselecteerd: 0
schaal: 1: 1500000
X: -97942 Y: 486812

Instellingen en legenda



Selecteren | Lijn  | Vlak  | Wijzigen | Coördinaten invoer | Splitsen | Wissen

Boundaries

Visual boundaries



Fixed boundaries



Surveying Instruments and Software

Every type mobile device

Survey-Instrument



Windows 10 Mobile



Special software & standard OS



Land survey

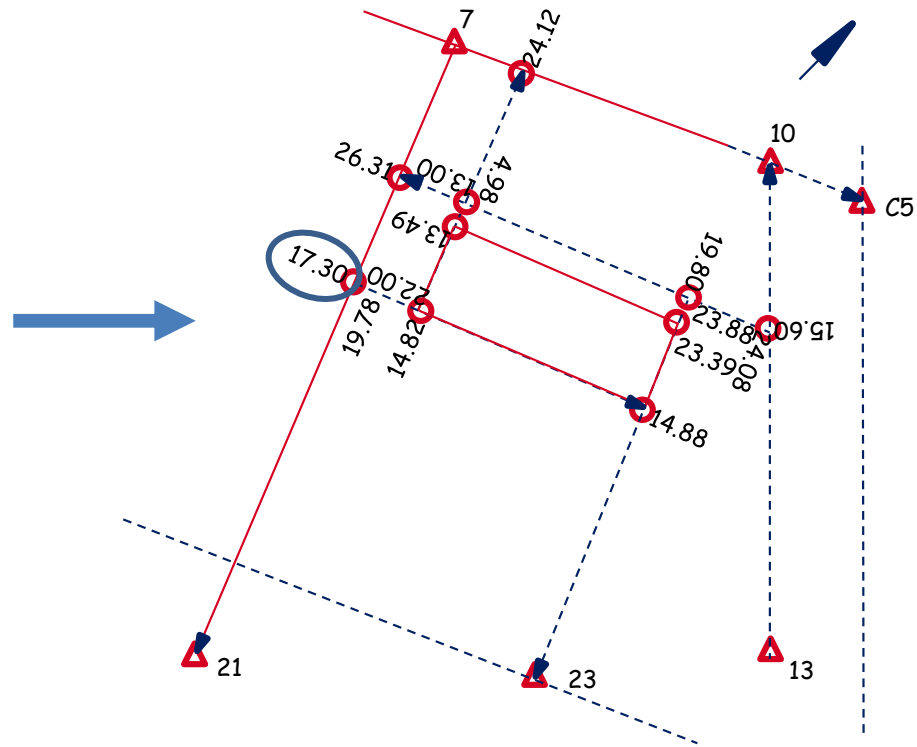
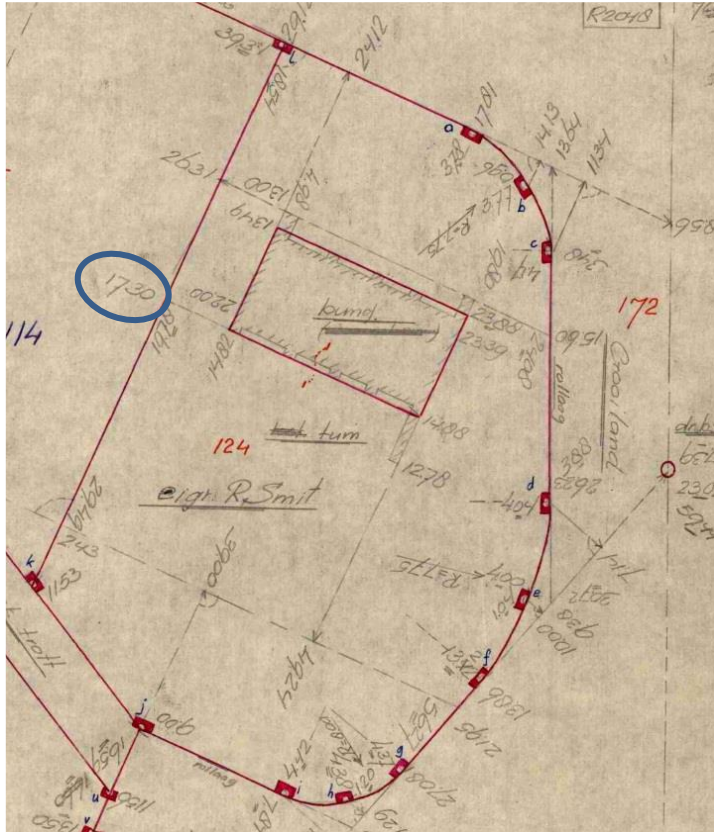
- Instrument:
 - Tachymeter (Leica, Trimble)
 - GPS receiver
- Tablet pc (to register facts)

At the office or at home:

- Download of collected data
- Edit environment for cadastral boundaries (Geomedia)



Fieldsketch as base for cadastral mapping



Theo Splithof, Senior Advisor Key Registry Kadaster
FIG Commission Annual Meeting Seoul aug 2019



After surveying

- Check and control
 - Technical and Legal. (deed)
- Calculate the aerea
- Update the registration
- Message to the clients



Are there any yestions?

Thank you for your attention

Theo Splithof