Smart Surveyors for Land and Water Management

kadaster

GIN Geo-Informatie Nederland

ITC UNIVERSITY OF TWENTE.

Theme: Smart Surveyors for Land and Water Management

Organized by:

- FIG Office
- Dutch Kadaster
- ITC University Enschede (NL)
- GIN (Geo Informatie Nederland)

Smart Surveyors for Land and Water Management

Opportunities!

- Great event
- Worldwide exposure & interest
- Great turnout from Europe expected!
- Time for visibility!

amsterdam
FIG WORKING WEEK 2020
MAY 9 – MAY 15

Smart Surveyors for Land and Water Management

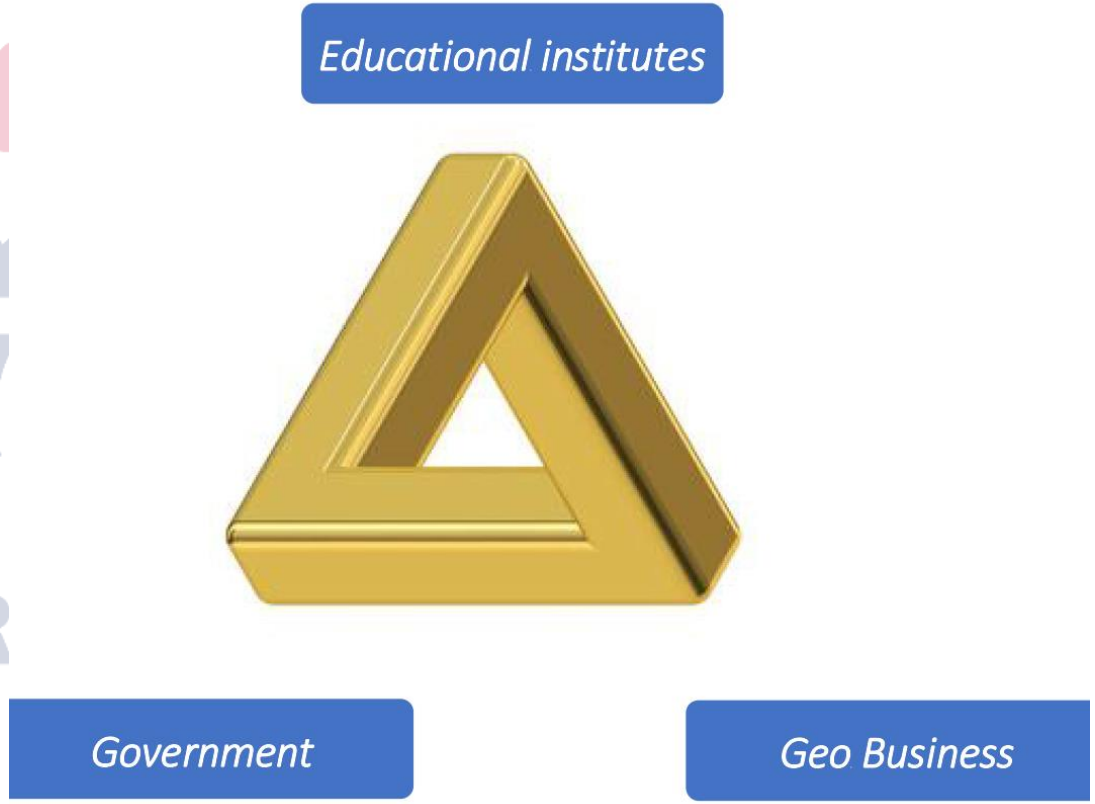
Theme

http://www.fig.net/fig2020/theme.htm

Smart: modern, smart collection of data, integration of activities

Land en Water management: our 'golden triangle' : collaboration in the chain of government, geo-business and educational platforms focus on climate adaptation

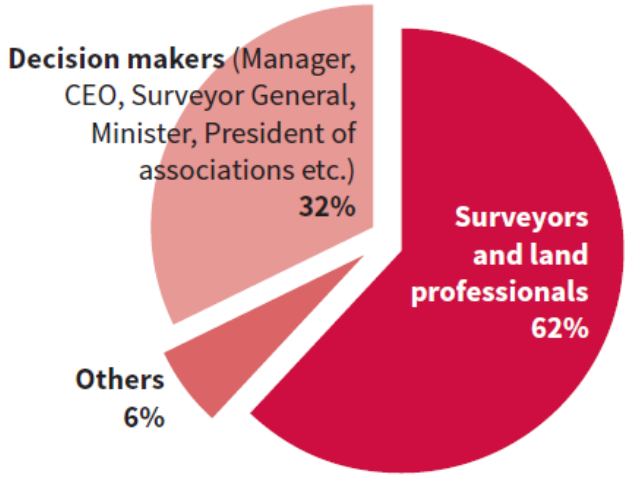
Sustainable Development Goals: challenges for people, planet, profit

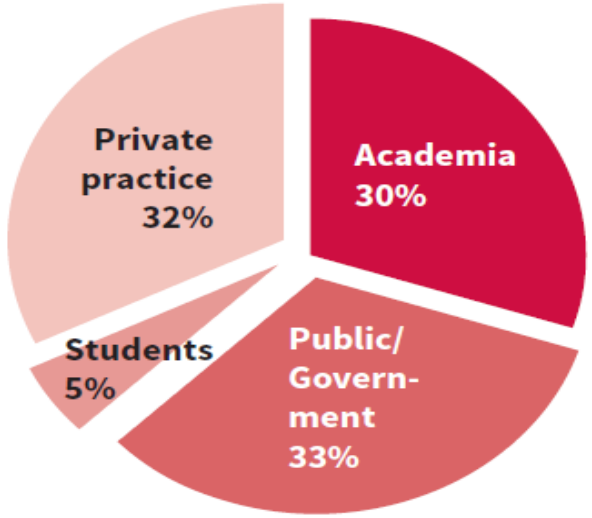


Smart Surveyors for Land and Water Management

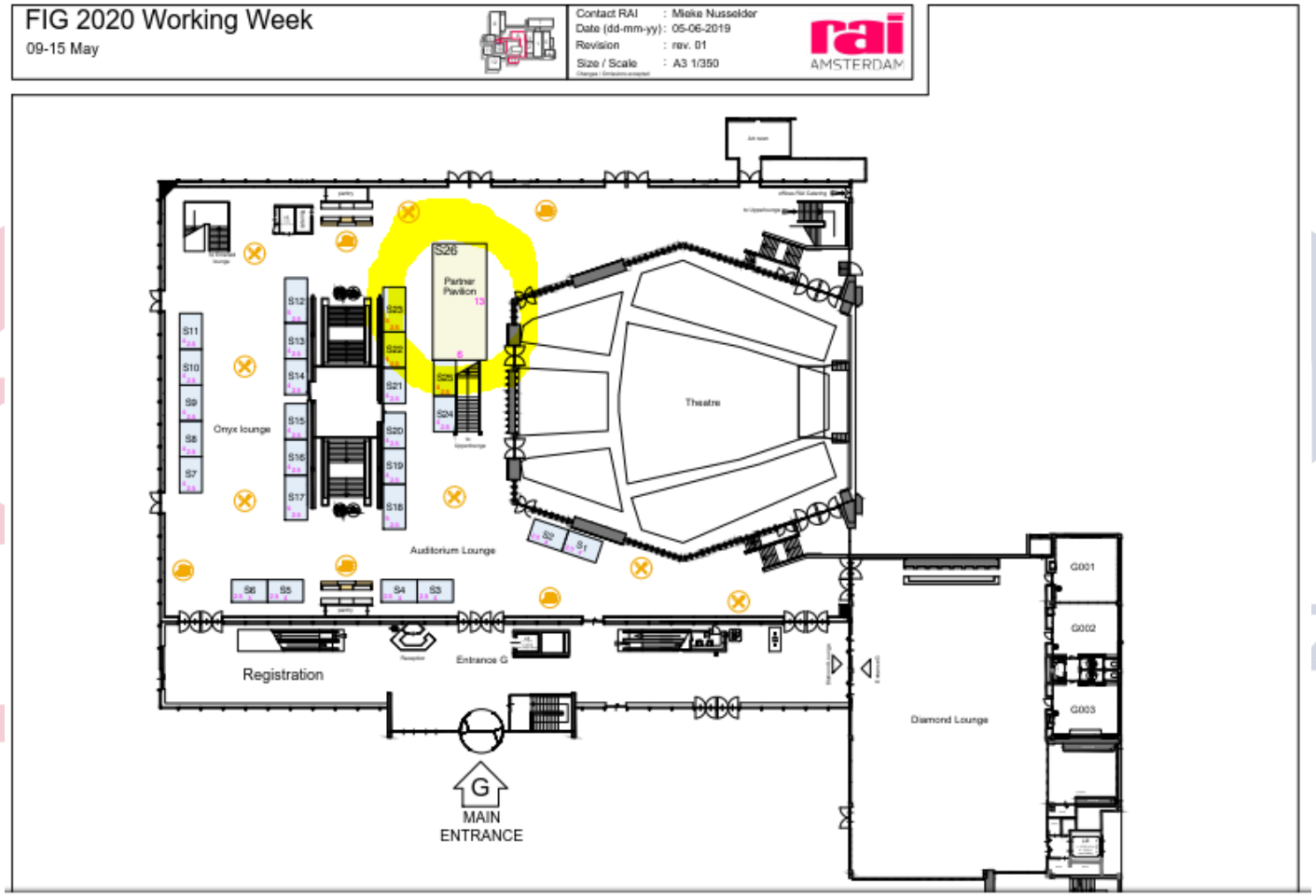
Participants

Approx. 1,500 participants, including 300 Dutch attendees





RAI Amsterdam; floorplan



Smart Surveyors for Land and Water Management

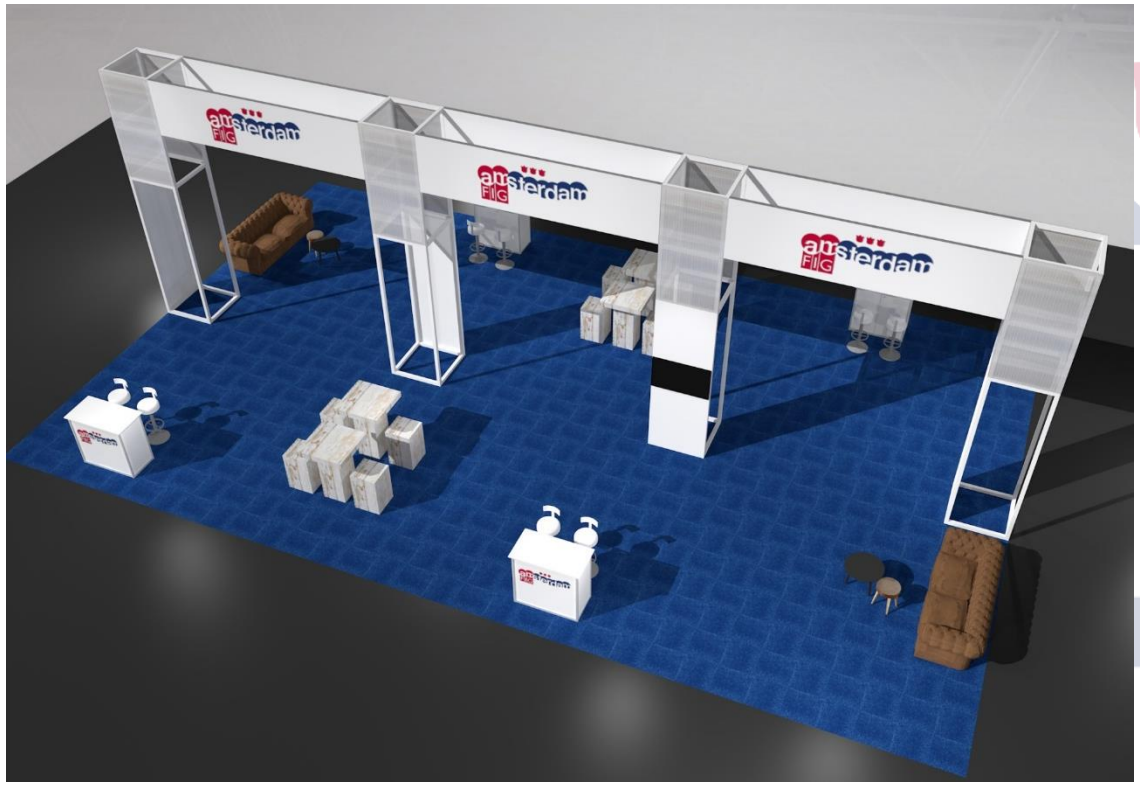
FIG

kadaster

GIN Geo-Informatie Nederland

ITC UNIVERSITY OF TWENTE.

Exhibition in RAI (May 11-13)



Market for 6 participants

Clog: 4 by 2.5 = 10m2

Tulip: startup 4 m2

Smart Surveyors for Land and Water Management

Sponsorships

Wide variety of possibilities, look upon:

- http://www.fig.net/fig2020/sponsorships.htm
- http://fig.net/fig2020/images/exhibition/manual/Prospectus_sponsorship_exhibition.pdf

- Challenges for CLGE?

FIG WORKING WEEK 2020
MAY 9 – MAY 15

Invitation

- May I please invite you to join in Amsterdam?
  - As a *visitor*
  - As a *speaker* (Call for papers: still one week!
  - As an *exhibitor*

Smart Surveyors for Land and Water Management

FIG

kadaster

GIN Geo-Informatie Nederland

ITC UNIVERSITY OF TWENTE.

Regarding my job:

Last time to attend CLGE-meetings.

Thanks for the great time we had!

Especially in the wee-hours.

CU In Amsterdam!

Smart Surveyors for Land and Water Management

Improvement Cadastral Map: reasons

What?

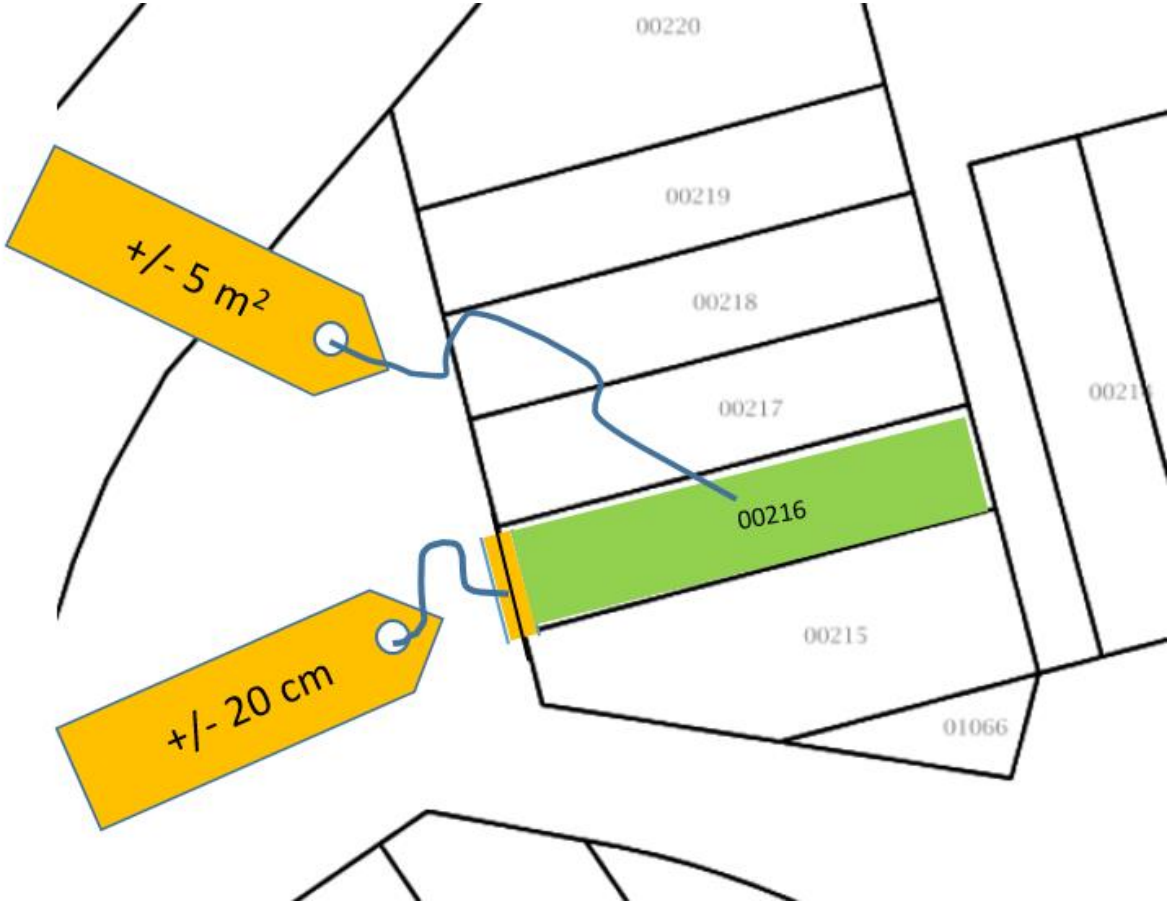
1. communication about quality
2. improvement geometric quality

Why?

1. need for "*find your boundary*"
2. uncertainty about parcelsize

How?

1. automatic calculation & mapping
2. extended datamodel



Smart Surveyors for Land and Water Management

FIG

kadaster

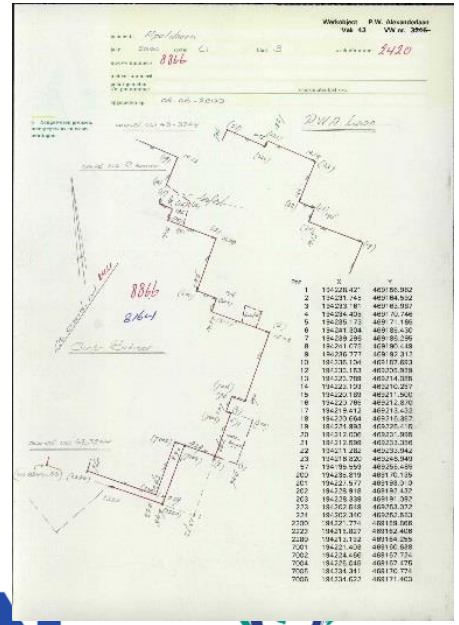
GIN Geo-Informatie Nederland

ITC UNIVERSITY OF TWENTE.

Cadastral Map Next: best of both worlds

cadastral map
→ viewer
inaccurate & coordinates

field documents
→ reconstruction
accurate & local dimensions



improved map
viewer & reconstruction
accurate & coordinates

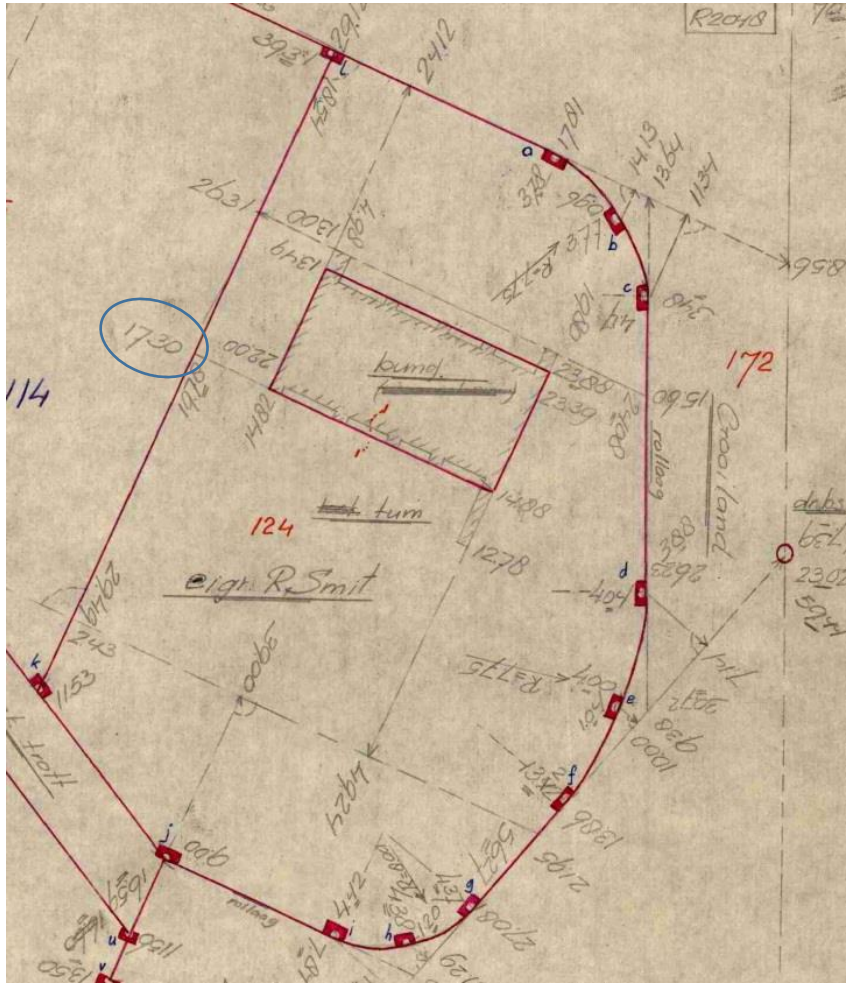
Smart Surveyors for Land and Water Management

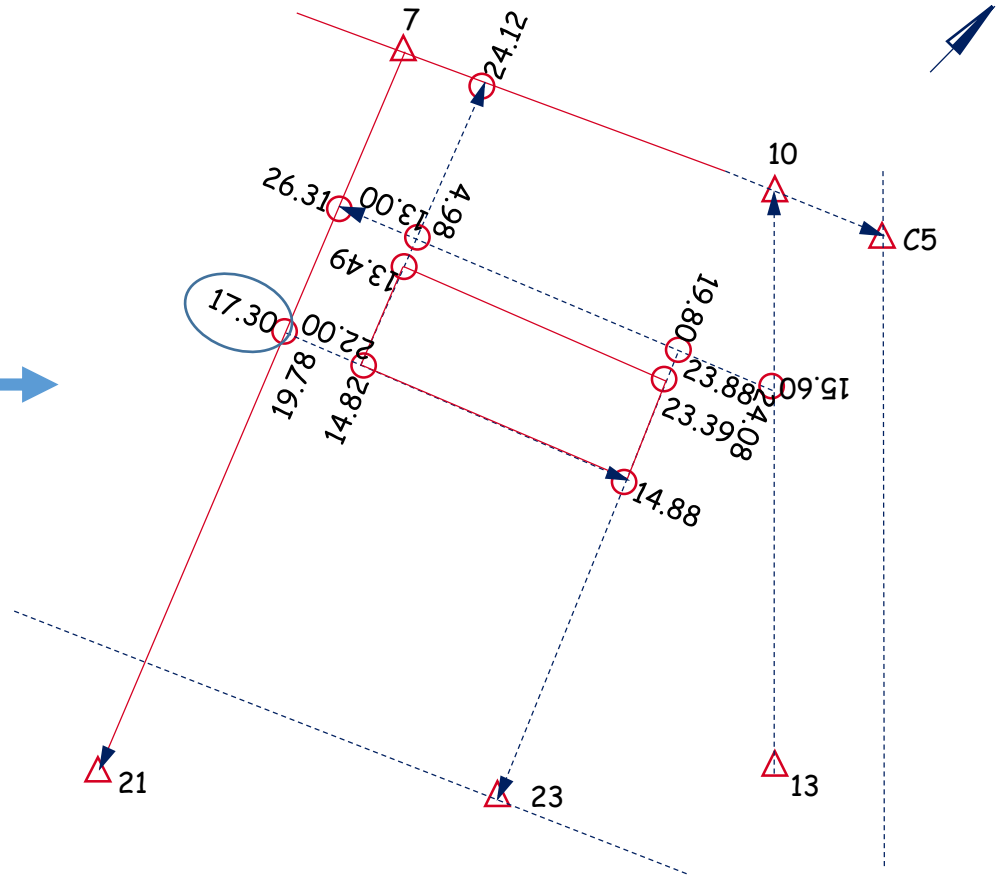
FIG

GIN Geo-Informatie Nederland

ITC UNIVERSITY OF TWENTE.

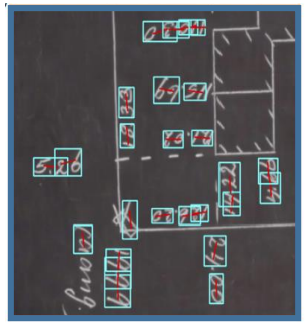
Vectorising: automatic fieldsketch reading

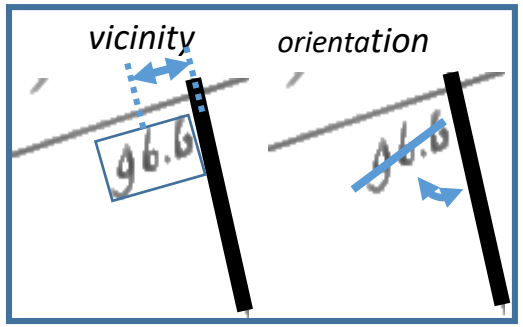




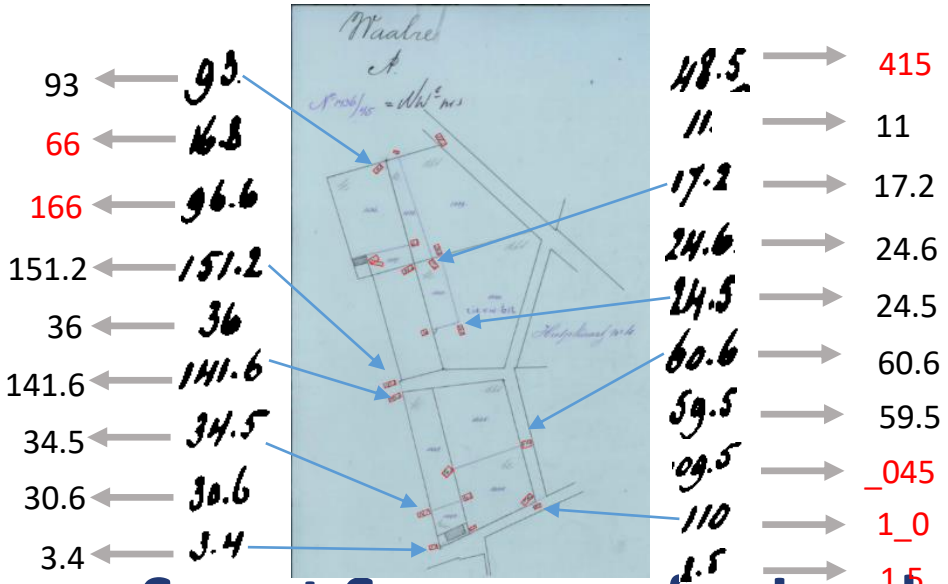
Smart Surveyors for Land and Water Management

Vectorising: some “activities”

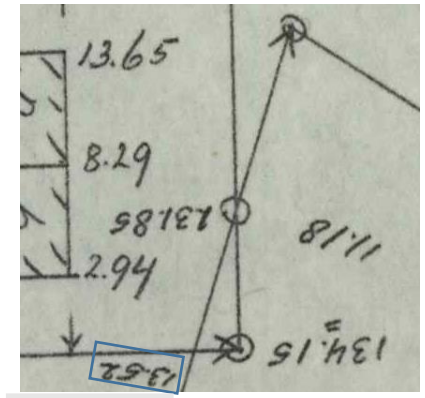




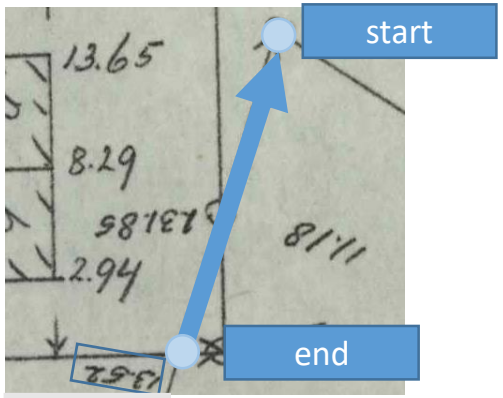
Reading digits



meaning

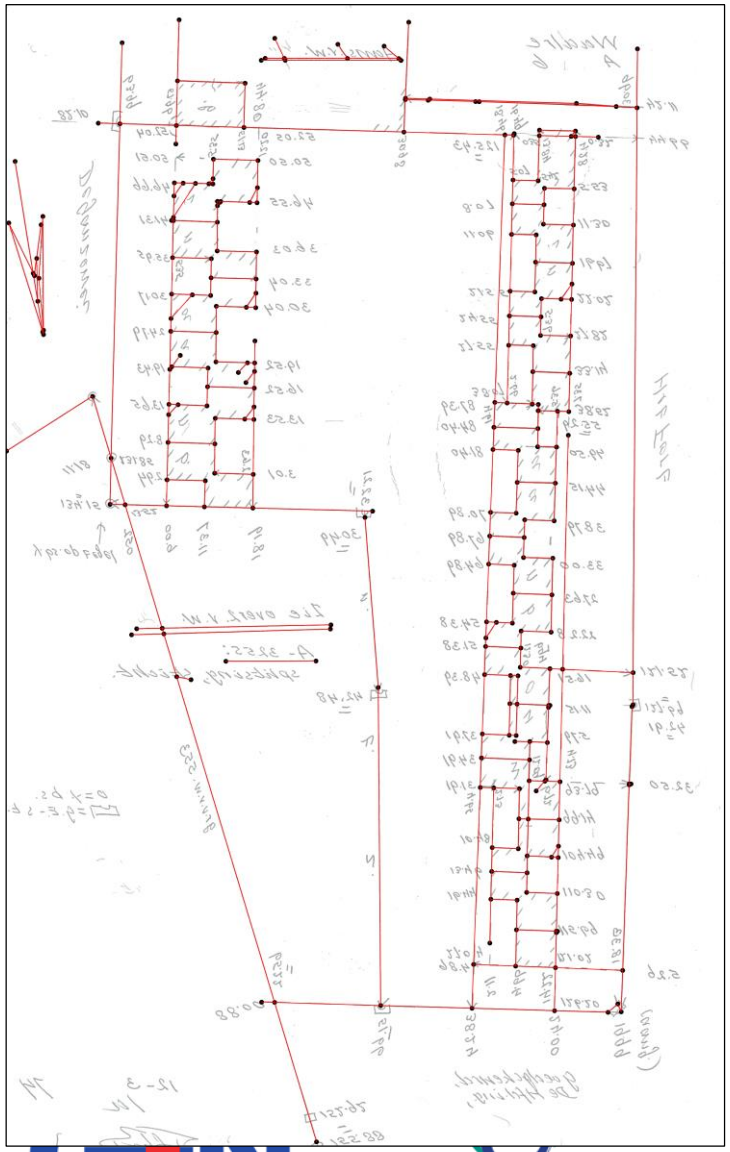


13.52



13.52

Lines & points



Smart Surveyors for Land and Water Management

FIG

kadaster

Geo-Informatie Nederland

ITC UNIVERSITY OF TWENTE.

Sketch by sketch building the accurate map

Smart Surveyors for Land and Water Management

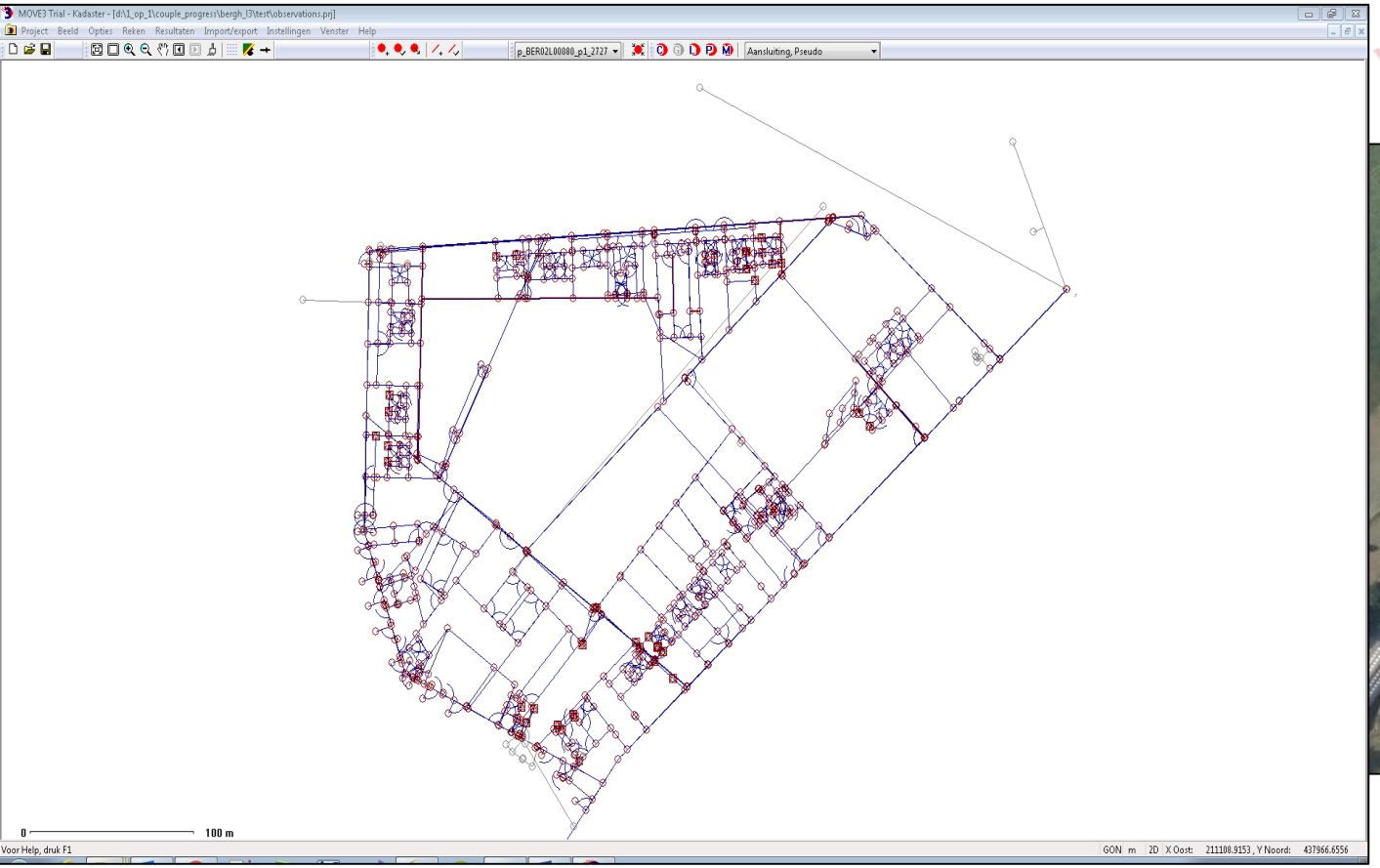
FIG

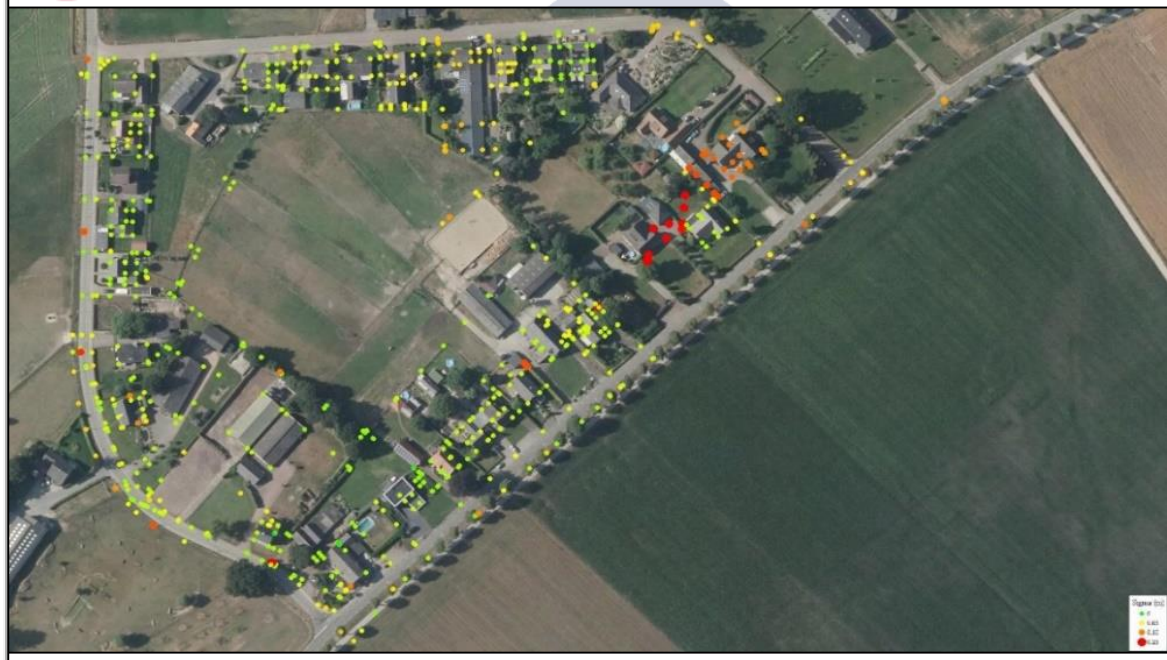
kadaster

GIN Geo-Informatie Nederland

ITC UNIVERSITY OF TWENTE.

Example Bergh: 50 sketches combined with high geometric quality (max 4 cm!)





Smart Surveyors for Land and Water Management

FIG

kadaster

GIN Geo-Informatie Nederland

ITC UNIVERSITY OF TWENTE.

Smart Surveyors for Land and Water Management

kadaster

GIN Geo-Informatie Nederland

ITC UNIVERSITY OF TWENTE.