

# PelicanCorp

Nov 2023

A new approach of the utility assets sketching process

Lets digest one big number

DAMAGES

14,000



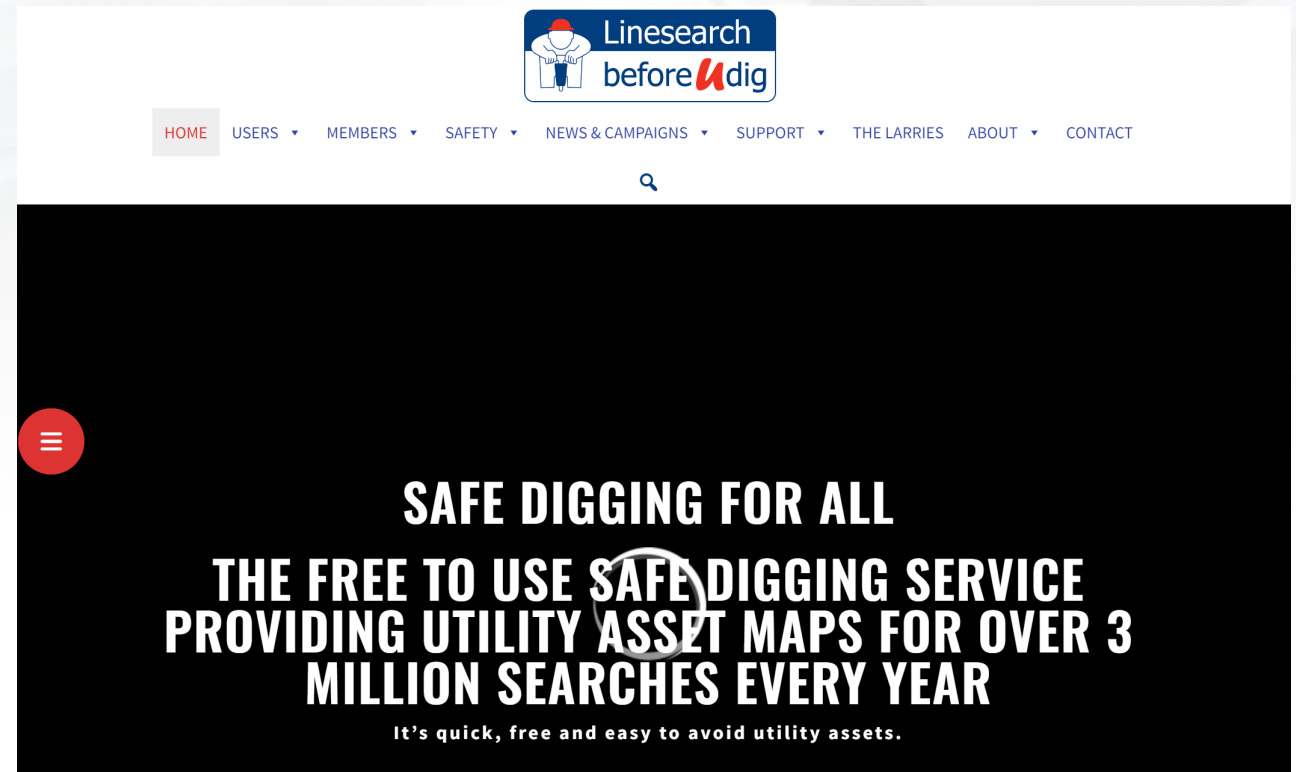
We cant get any better fixing damaged networks, so we need to concentrate on preventing them from being damaged in the first place !!

That's how many damages a large Telco gets in one year (in a country with 200,000 excavations a year)

About 40% of those are inside the boundary

And that costs us about 10 Million dollars of which we bill (not necessarily recover) about 60%

- Companies who excavate generally will search which assets owners are near their dig site.
- In UK they lodge the enquiry at “**LSBUD.co.uk**”



- 3,75 million searches in 2022\*
- 11% growth over 2021
- Estimated excavations: >4 million
- Strong growth due to fiber roll out

\* Source LinesearchbeforeUdig / Digging up Britain report

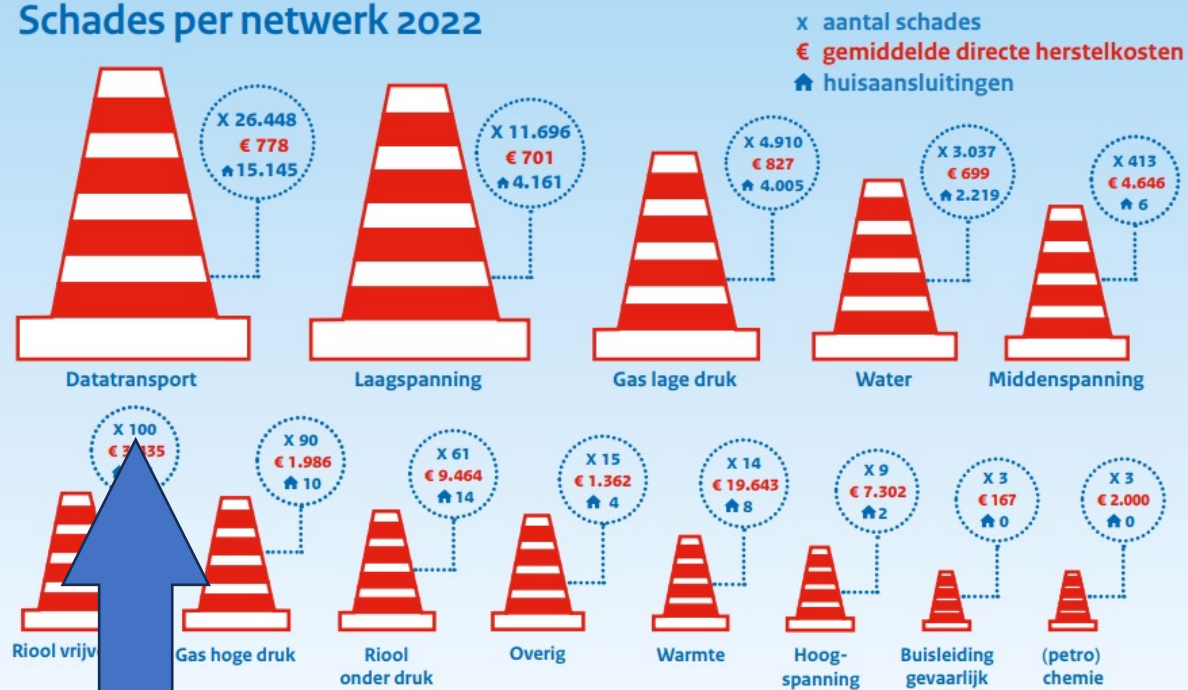




- >100,000 Damages p/a
- Health and Safety of workers
- Reactive maintenance costs
- Cost to society
- Cost to business
- Reputational Damage

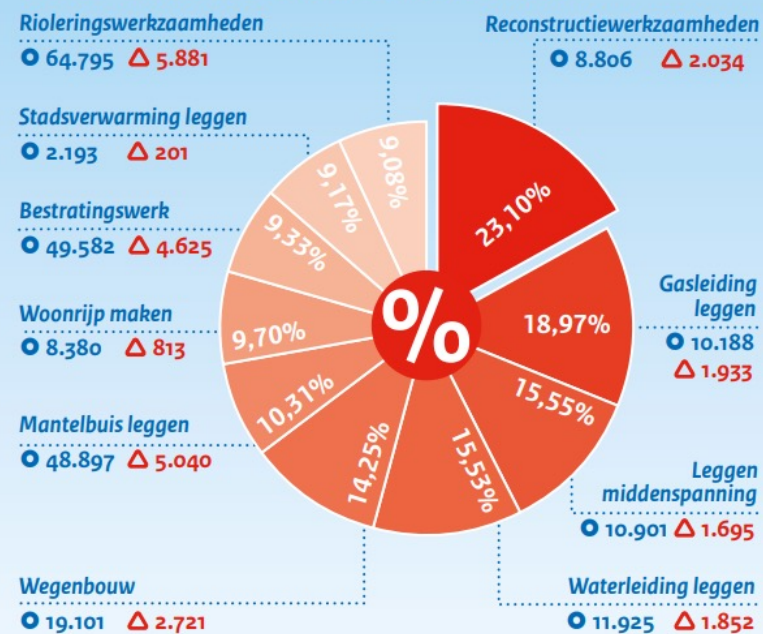


## Schades per netwerk 2022



## Aard werkzaamheden graafschades 2022

## TOP 10 - gebaseerd op graafschadepercentage





Classic processes come with with many pain points and lead to **long delays** and **high costs**

#### No standardized workflows

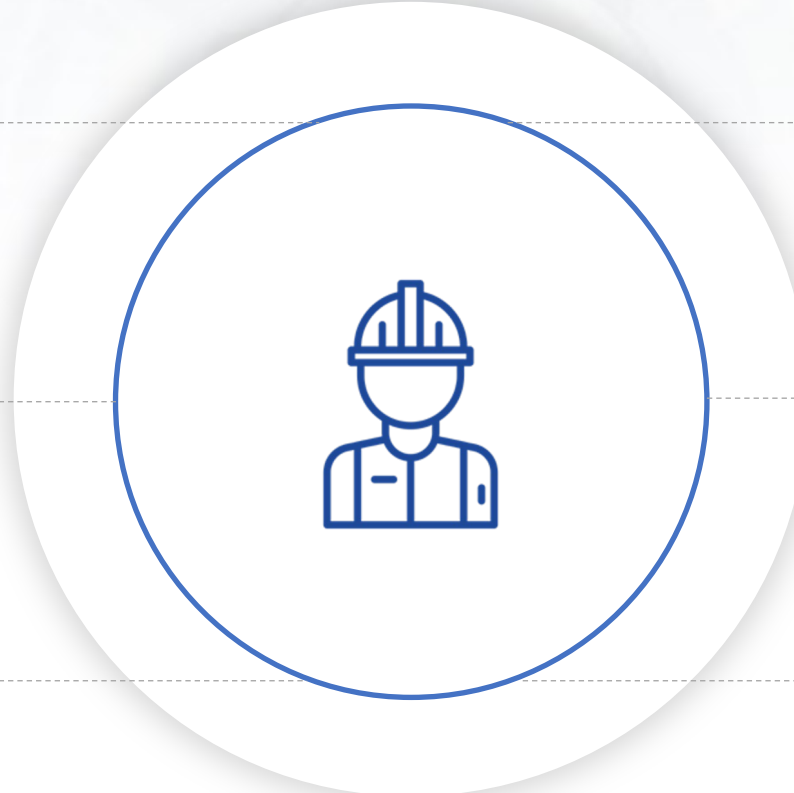
Working with different contractors often requires to adapt workflows

#### Slow collaboration

Painstakingly slow turn-around times to deliver as built plans. Up to. 30-90days

#### Mix of data formats

Geospatial data and photo's are stored in different locations



#### Data quality depends on who did it

There is no uniform workflow that guides every field user to collect data in a similar manner

#### Post-processing

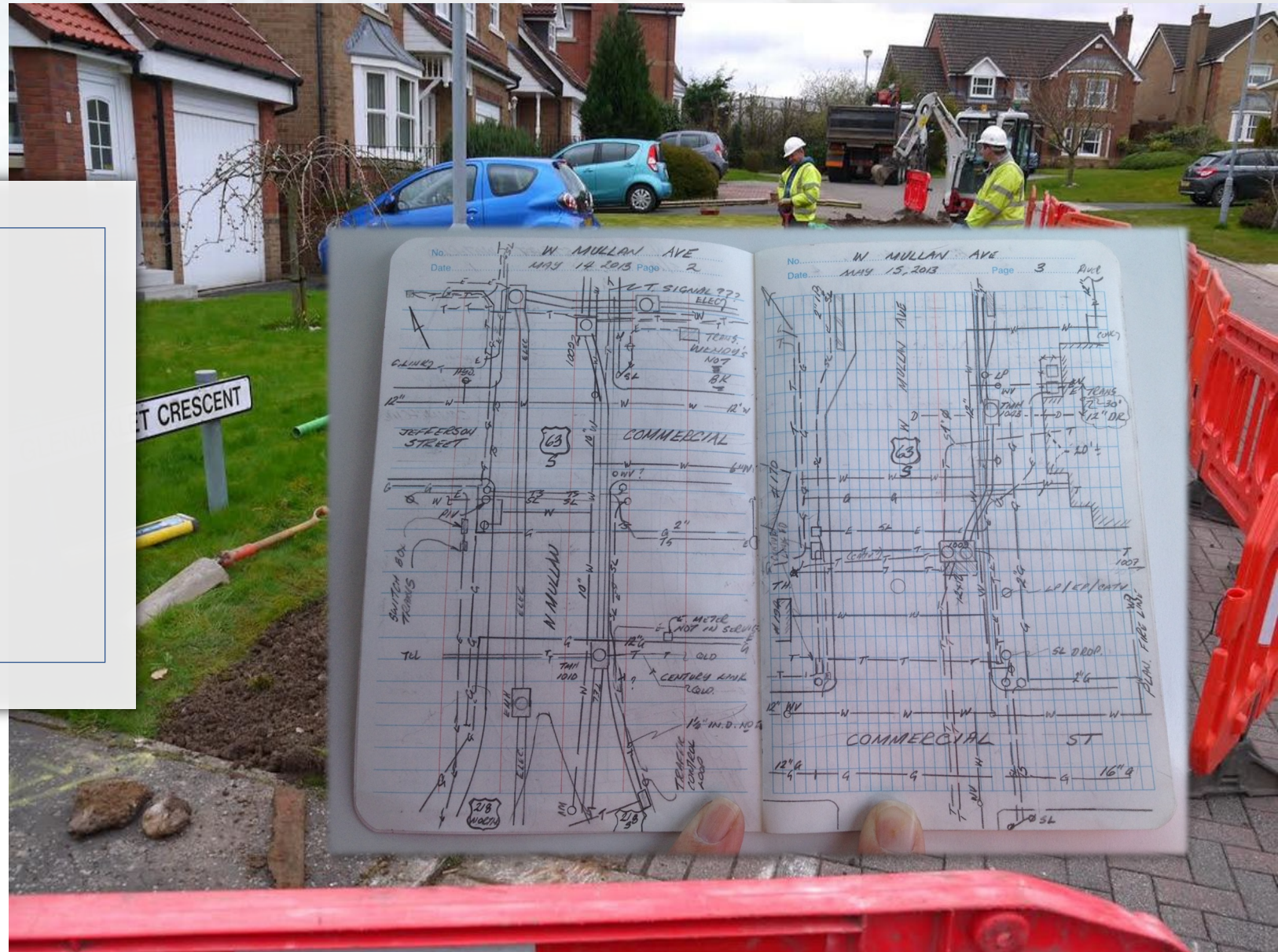
A lot of additional work is required to bring deliverables in a common format

#### Paper based maps

Field users have to take notes on paper which needs to be post-processed



- As built mapping
- Hand Drawn
- Time Consuming
- Error Prone
- Post processing
- GIS/CAD Transfer







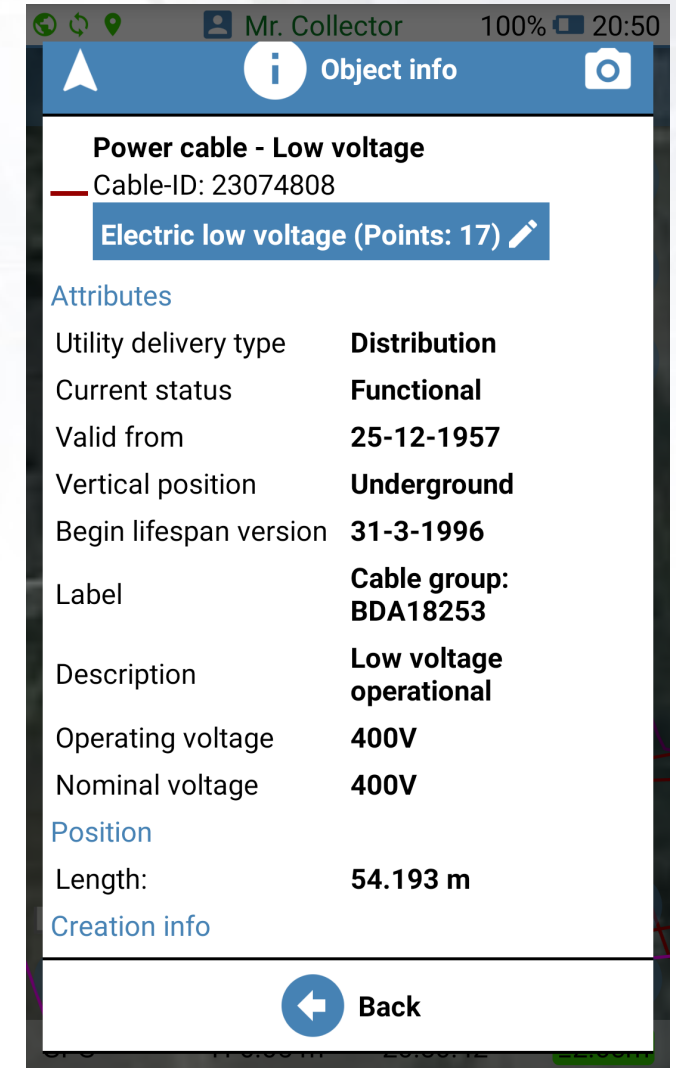
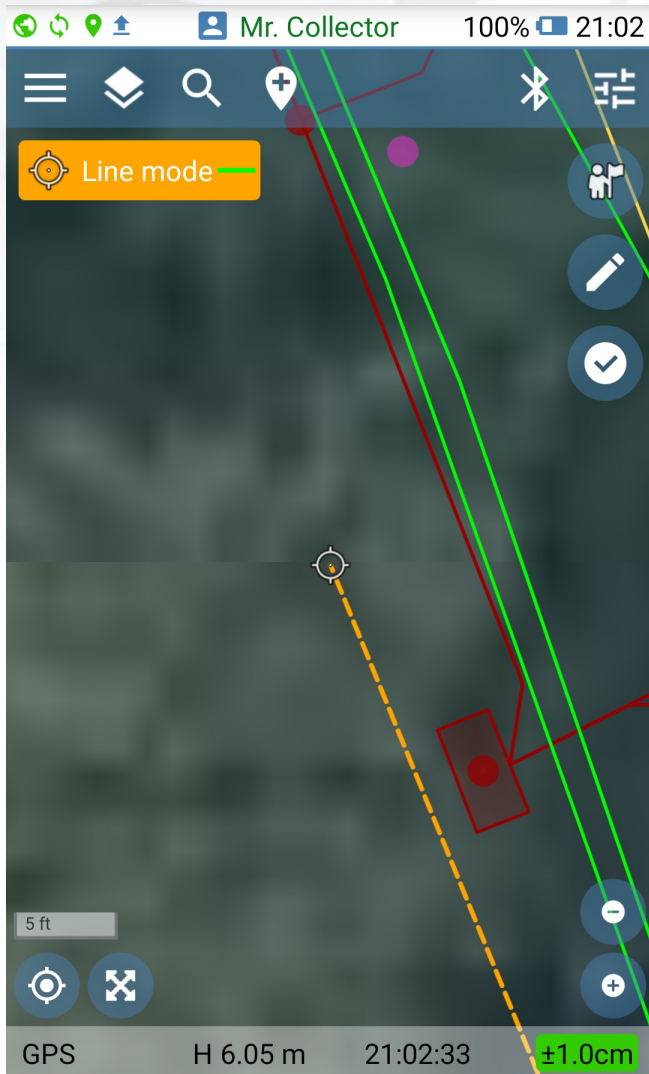


- Cloud Powered
- Digital Drawings
- Multi Utility
- EM Locator Connected
- Forms
- Inspections
- Mobile App











Geolantis.360 allows to manage data collection & inspection projects with contractors. Share GIS & CAD data with external parties without giving up control.

Standardised workflows and data capture catalogues ensure high data quality, simplify processes and save time & money.



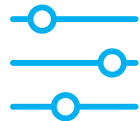
Coordinate efficiently



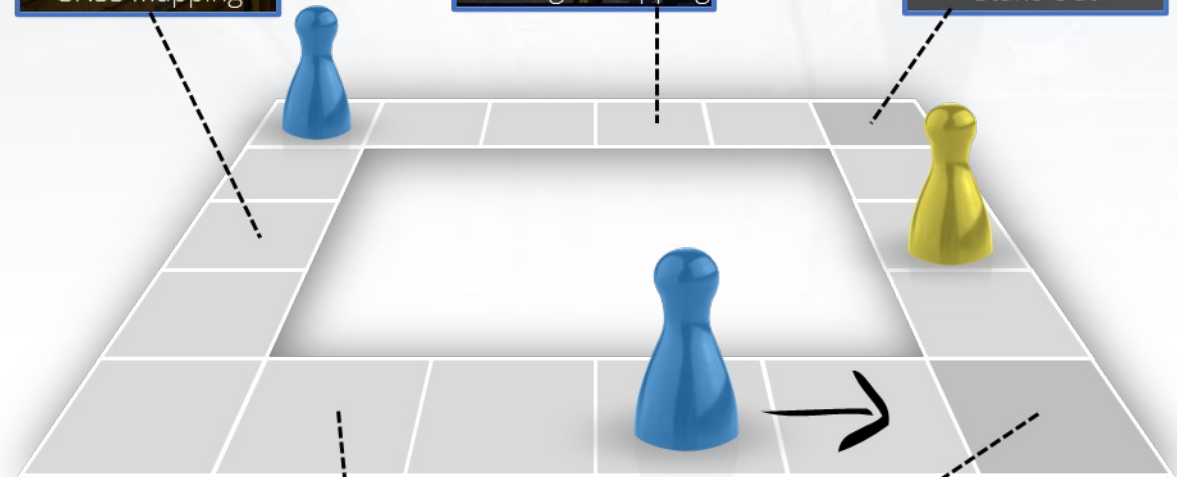
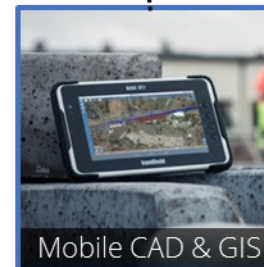
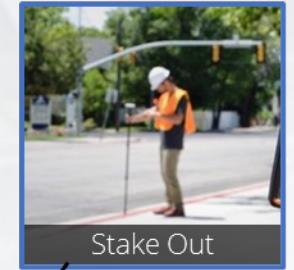
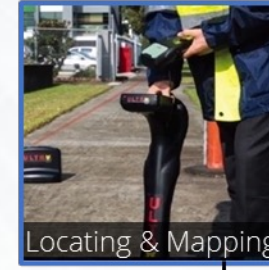
Reduce risk



Track performance



Take control



## House connection process

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A fully digital end-to-end process  
for house connections





## How it was

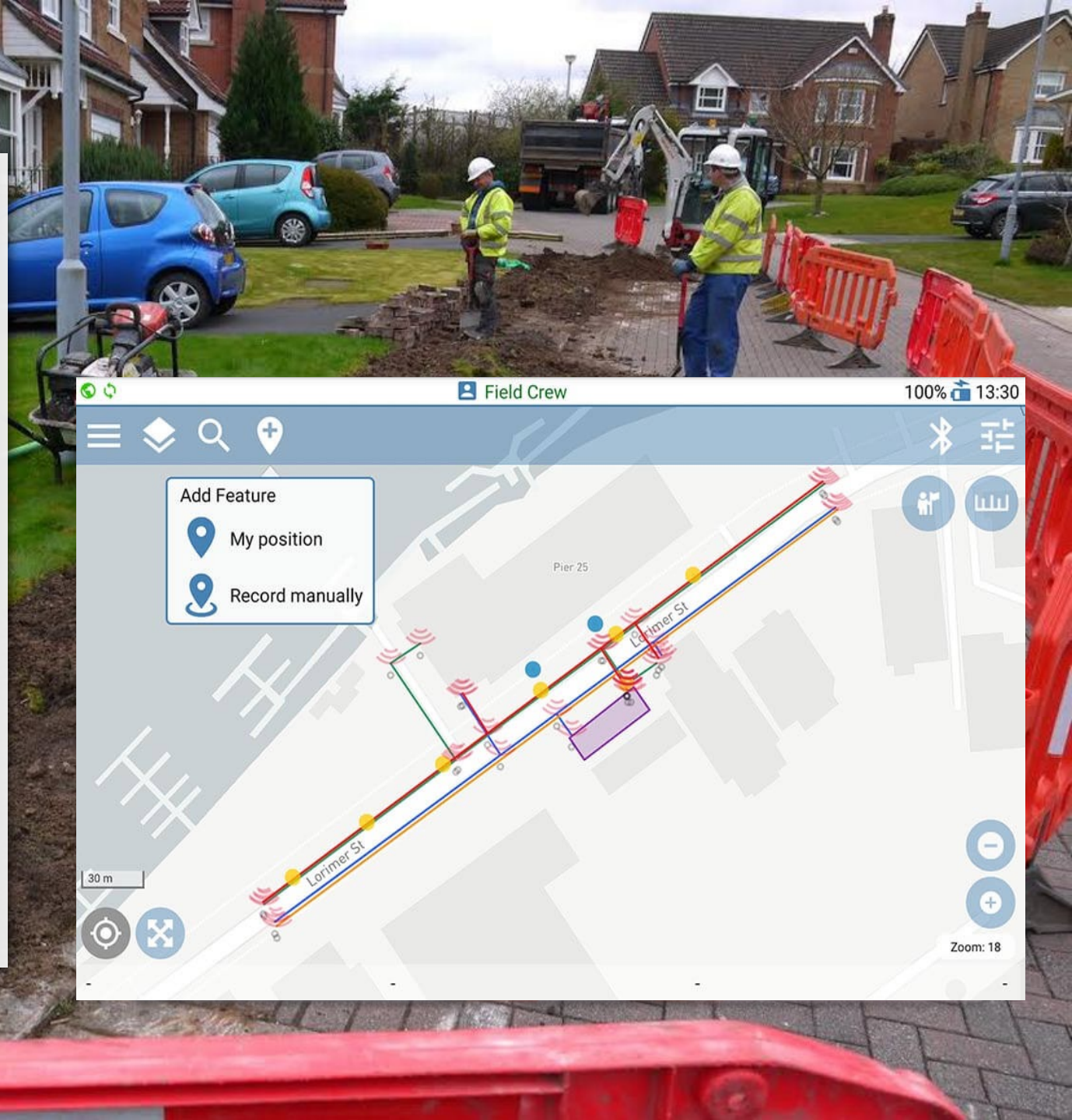
- Inefficient, each utility arranged its own process
- Multiple contractors active for one object
- Very long lead times (6 to 12 months) before new assets were visible in plans
- Time Consuming
- Error Prone due to the manual process
- A lot of post processing (back office) to transfer to GIS





# The guiding principle to improve the process

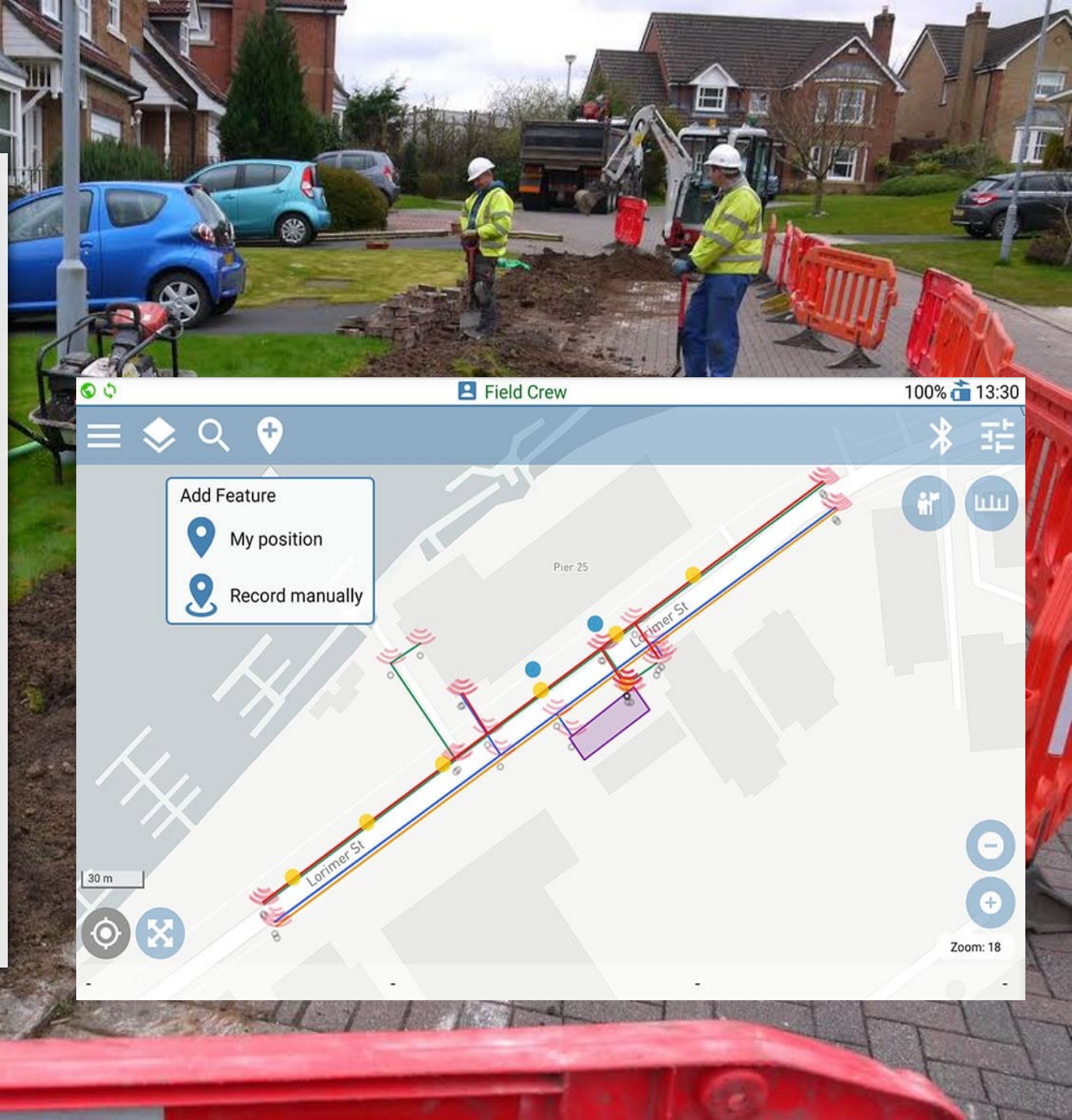
- One contractor does all the connections in a certain area over a period of 3 to 5 years
- Full digital process – end to end – without paper documents
- Accurate as-built documentation (sub centimeter)

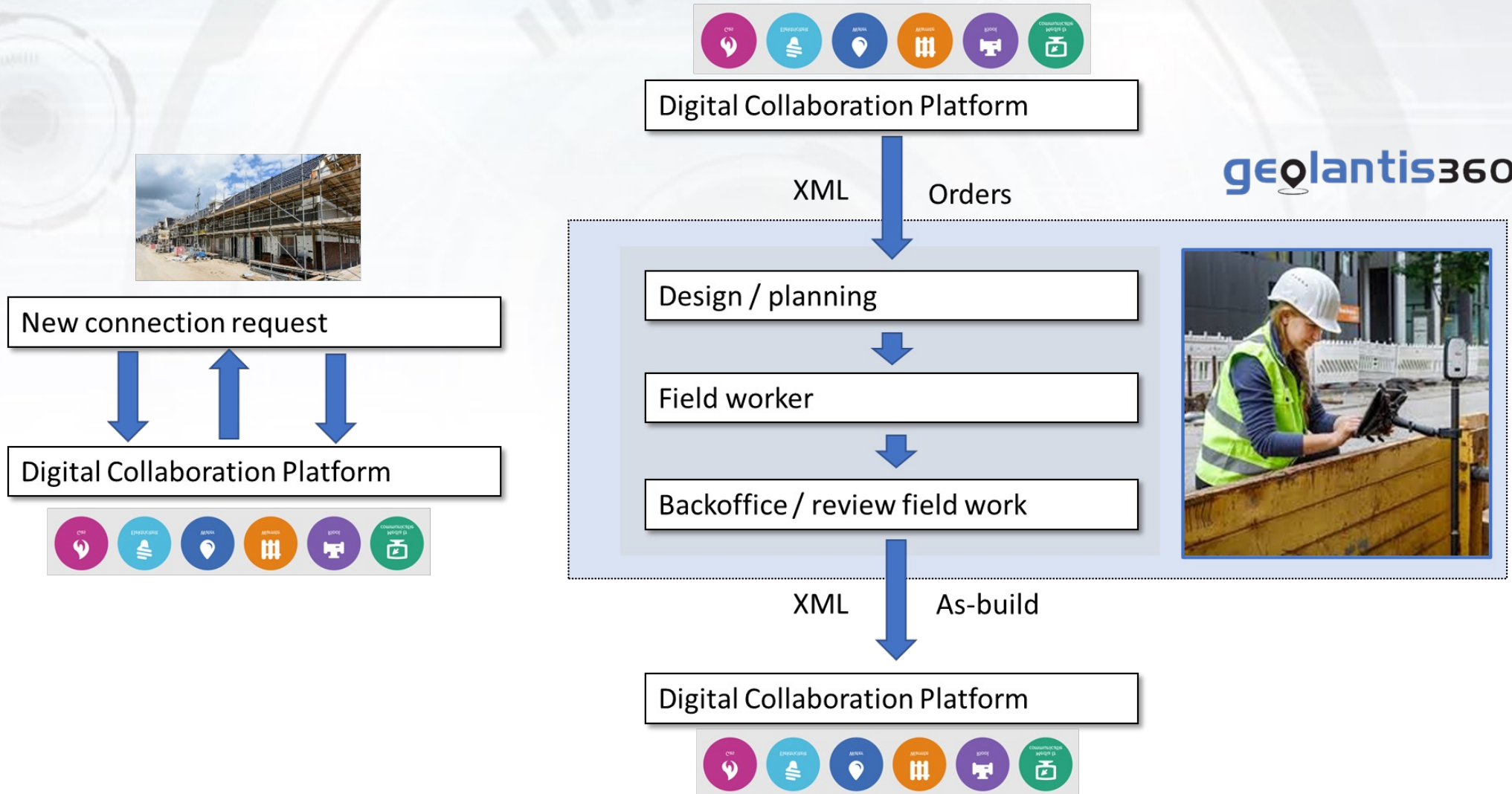




# The guiding principle to improve the process

- Have as-build within 1 month visible in GIS and plans to reduce strikes
- Eliminate Post processing (back office) to transfer to GIS
- Combine sub processes such as tests (gas connection) as a part of meta data



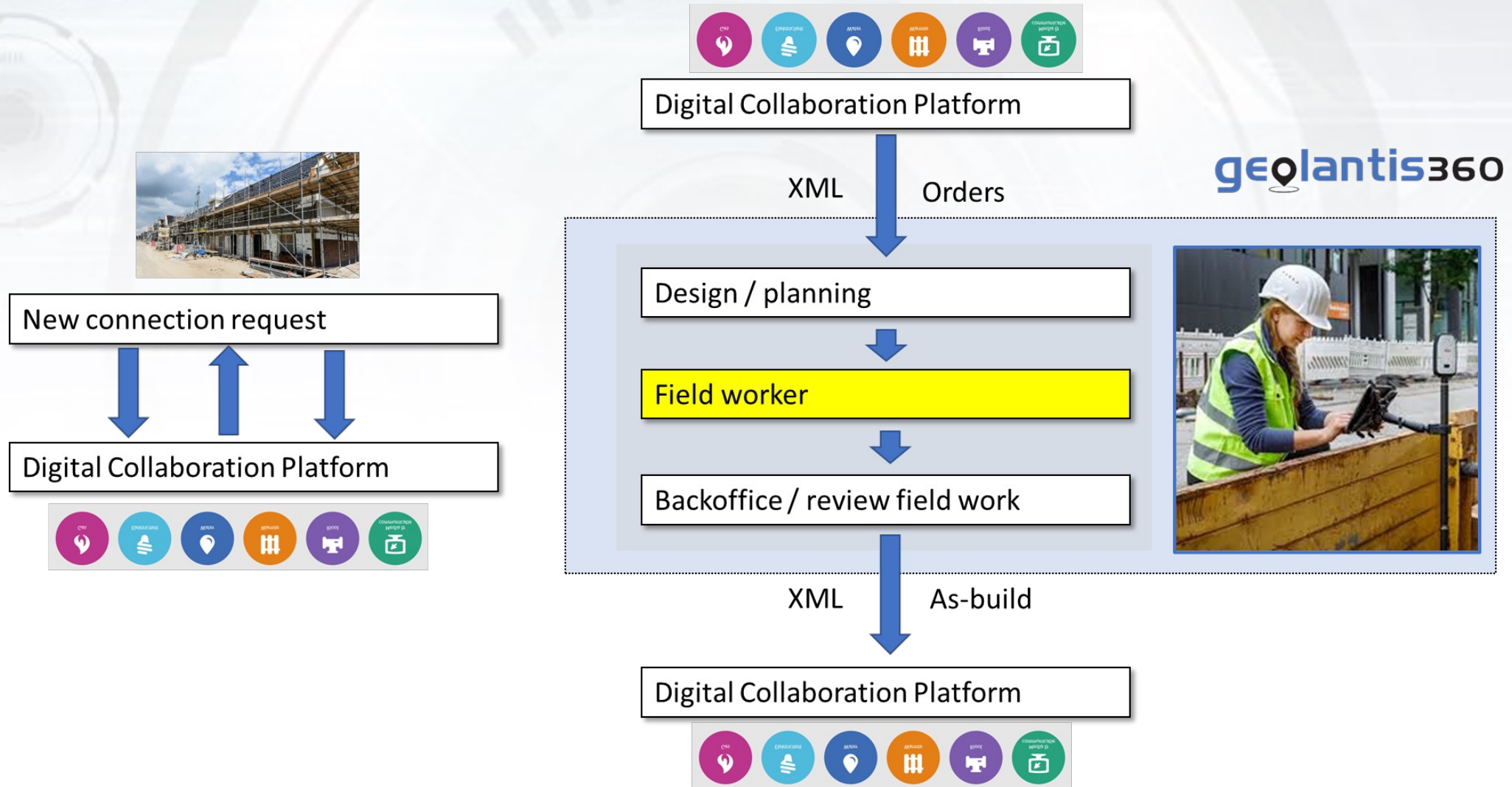




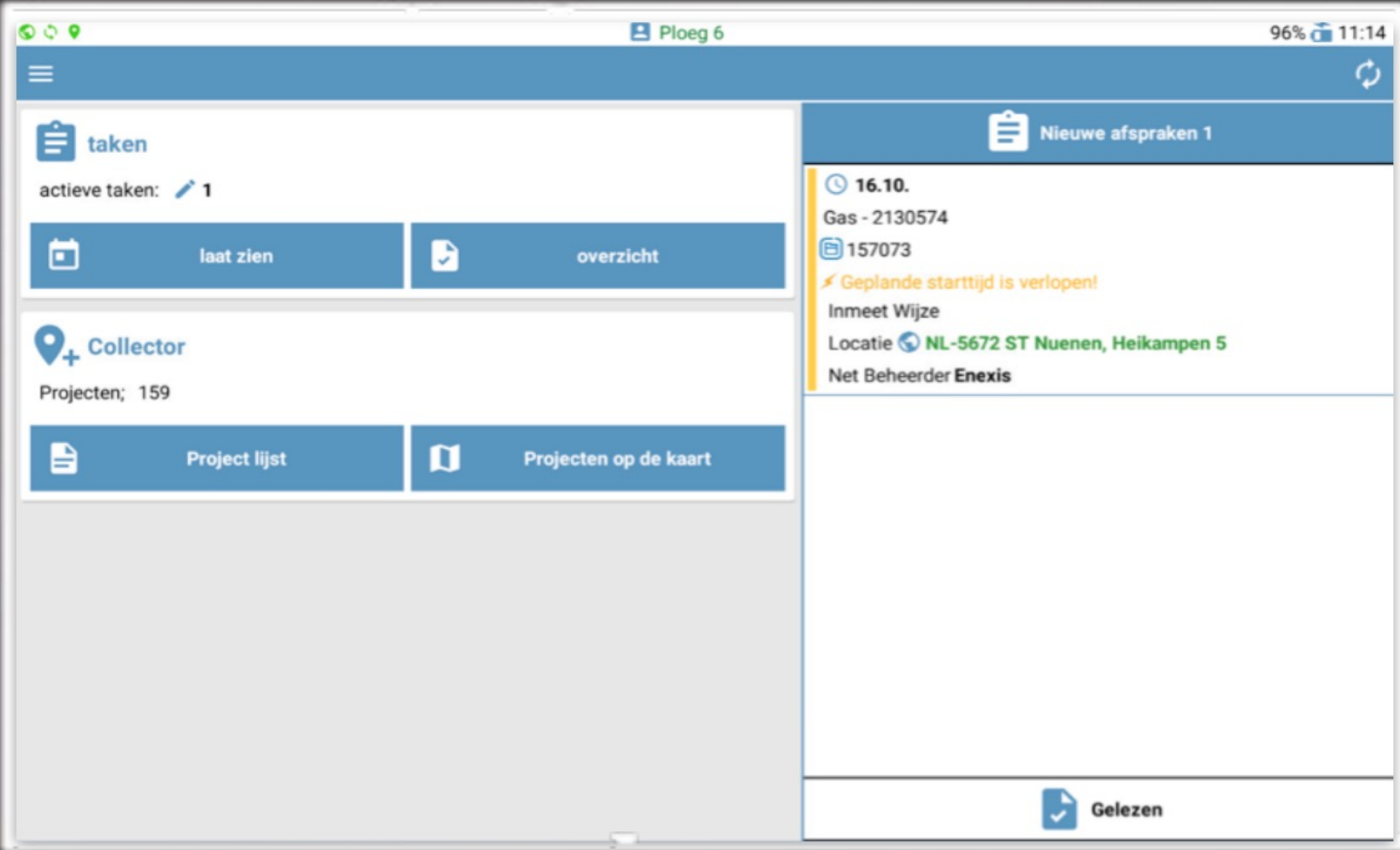
## The “digital blue-collar worker”

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taken

actieve taken: 1

laat zien

overzicht

Collector

Projecten; 159

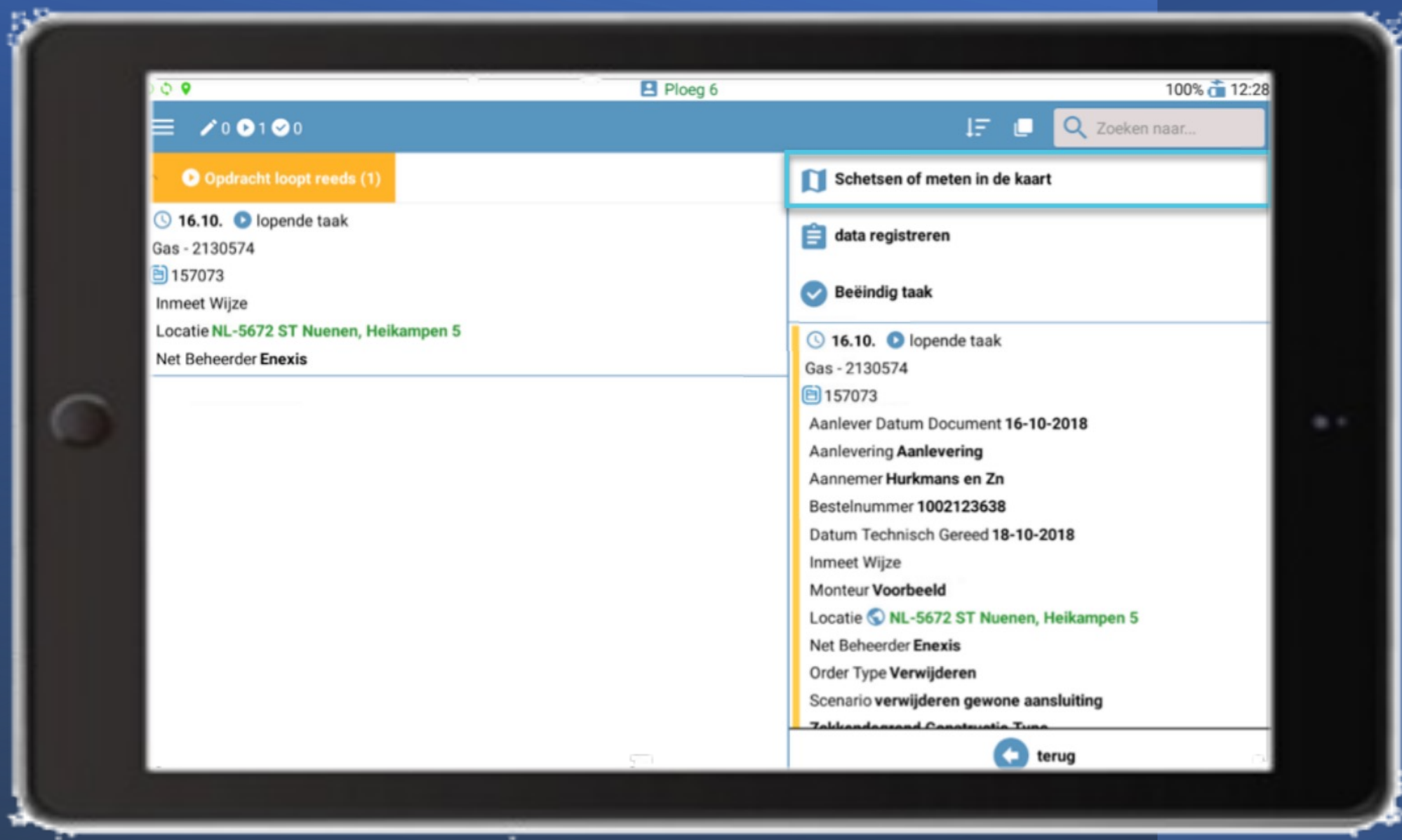
Project lijst

Projecten op de kaart

Nieuwe afspraken 1

16.10.  
Gas - 2130574  
157073  
Geplande starttijd is verlopen!  
Inmeet Wijze  
Locatie NL-5672 ST Nuenen, Heikampen 5  
Net Beheerder Enexis

Gelezen



Ploeg 6

100% 12:28

0 1 0

Zoeken naar...

Opdracht loopt reeds (1)

16.10. lopende taak

Gas - 2130574

157073

Inmeet Wijze

Locatie NL-5672 ST Nuenen, Heikampen 5

Net Beheerder Enexis

Schetsen of meten in de kaart

data registreren

Beëindig taak

16.10. lopende taak

Gas - 2130574

157073

Aanlever Datum Document 16-10-2018

Aanlevering Aanlevering

Aannemer Hurkmans en Zn

Bestelnummer 1002123638

Datum Technisch Gereed 18-10-2018

Inmeet Wijze

Monteur Voorbeeld

Locatie NL-5672 ST Nuenen, Heikampen 5

Net Beheerder Enexis

Order Type Verwijderen

Scenario verwijderen gewone aansluiting

Zakdoosend Constructie Type

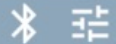
terug





synfra01

39%



Categorie

zoeken naar...

Afname Service Punt (1)

Afname Service Punt  
Punt

Gas (4)

AanboringGas  
Punt

AansluitleidingGas  
lijn

AfsluiterGas  
Punt

Koppeling  
Punt

Mantelbuis (1)

Mantelbuis  
lijn

Sketch (2)

terug

5 m  
20 ft

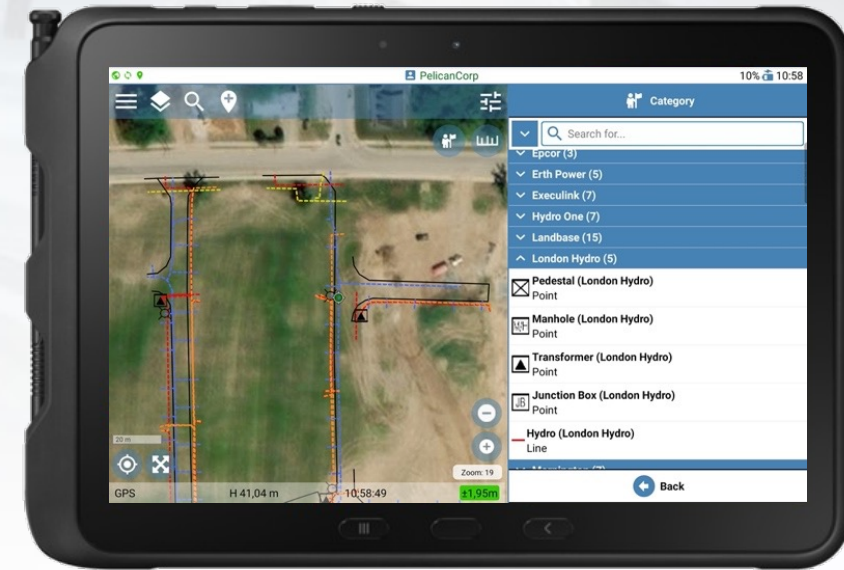


GPS

13:56:36

±3,00m

- The DSP/Synfra process is country wide active
- All major utilities and contractors are collaborating in a standardized process
- Turnaround of a new connection is 6 days (active in GIS)
- Paperless, “richer” information
- Accurate information of the location of the assets
- Drive to combine multiple connections in one workflow





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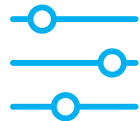
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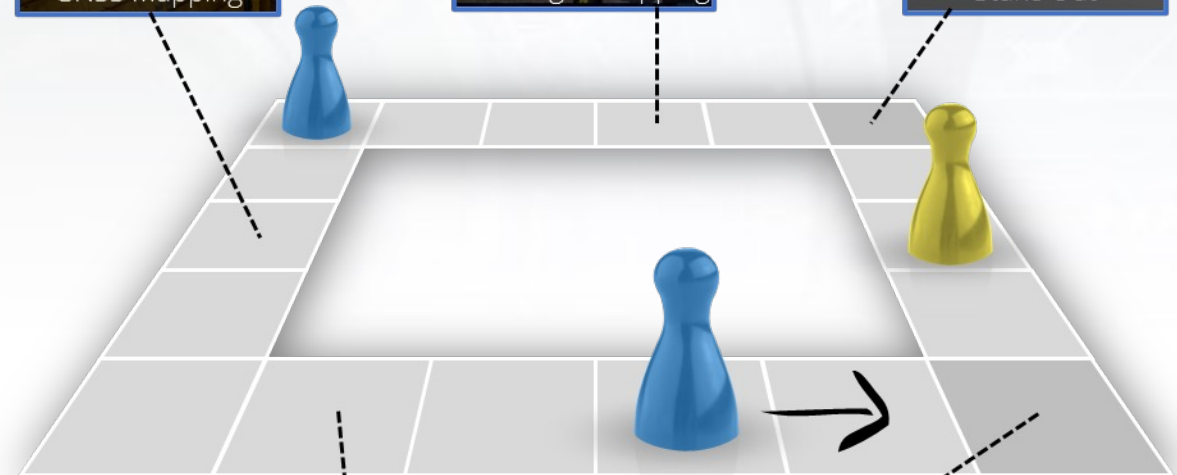
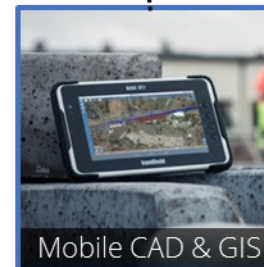
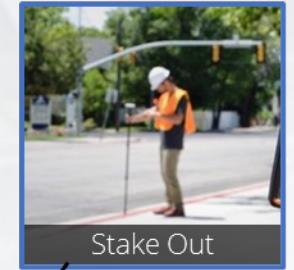
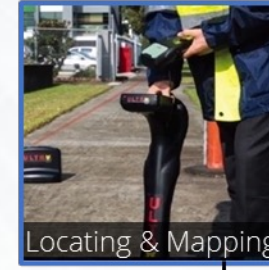
Reduce risk



Track performance



Take control





George Majerus

“

*Eine unserer wichtigsten Aufgaben ist es, unser Glasfasernetz so genau wie möglich zu dokumentieren. Die cloudbasierte Geolantis.360-App, die präzises GNSS nutzt, ist äußerst genau und wir verlassen uns jeden Tag darauf, um unsere wertvollen Vermögenswerte zu dokumentieren. Ihr Kundenservice ist unübertroffen.*

”

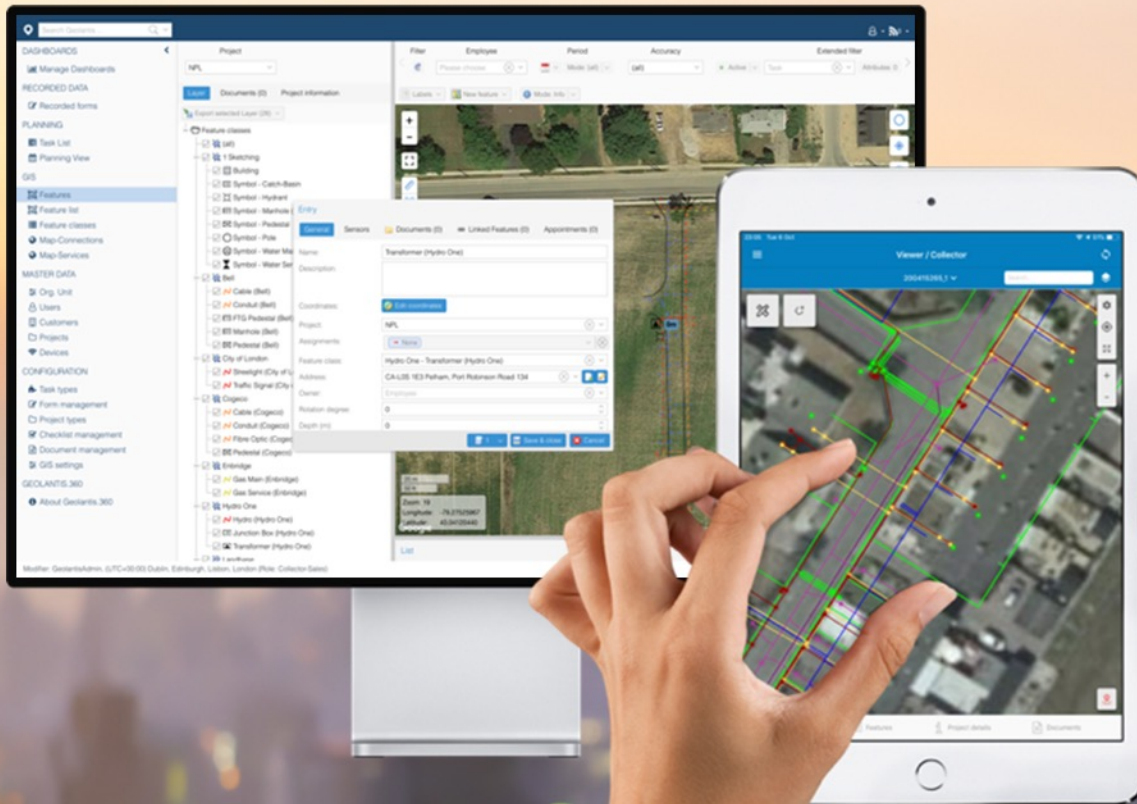
*Geolantis is a game changer for us*

- ✓ Luxconnect provides the main fiber backbone in Luxembourg
- ✓ Continuous extension of ist network
- ✓ Use a mobile mapping field apps for accurate mapping of their network
- ✓ Give their subcontractors access to the apps to document works they do on behalf of Luxconnect.
- ✓ After job completion, Luxconnect has immediate access to the collected information (geospatial data and photo's)
- ✓ Data is exported into the cable management software





- 📍 Mapping
- 📍 Mobile GIS
- 📍 Stakeout
- 📍 Inspections
- 📍 Collaboration
- 📍 Health & Safety





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geolantis360

Thank You

**PelicanCorp**