



S M A R T G i S

CONNECTING THE DOTS

FROM BARRIERS TO BUILD-OUT

# You already know the barriers. How to create collaboration between DSOs and broadband providers.

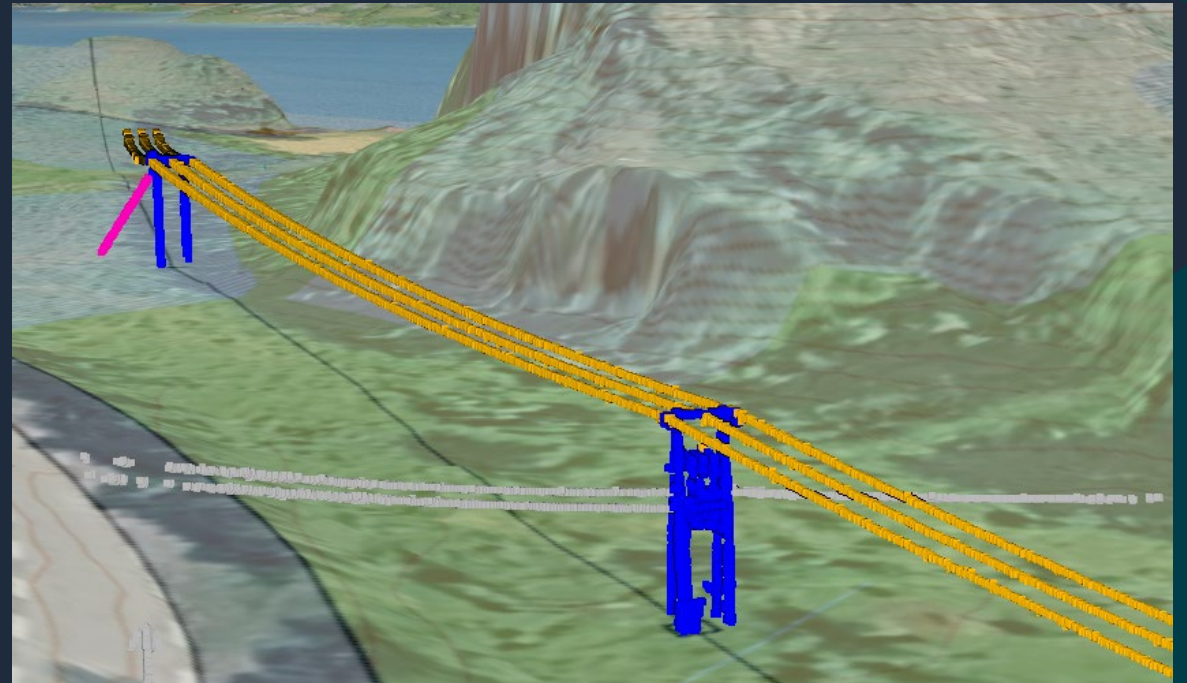
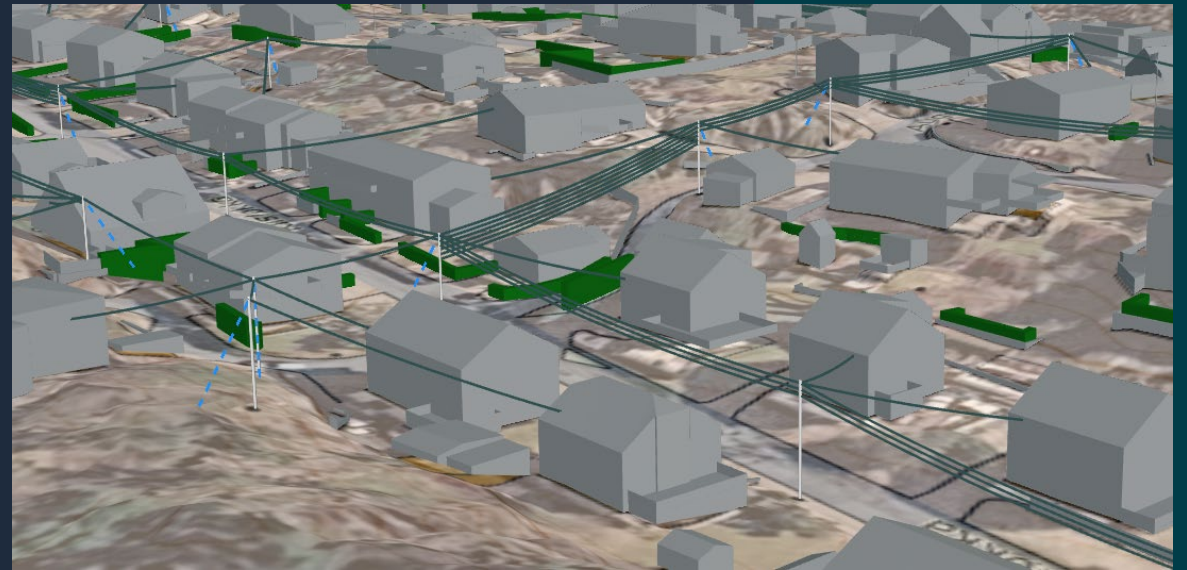
Precise knowledge of existing grid infrastructure — and faster, cleaner pole-sharing.

# Who we are and what we do

We provide 3D platform for DSO (power grid company) to build, document and maintain their grid.

## KEY facts

- 8 Employees
- 64% of the Norwegian DSO's are using SmartGIS daily.
- Expanding into Sweden and Finland this year.  
Maybe Germany?



# How can SmartGIS streamline broadband roll-out (joint-use)?

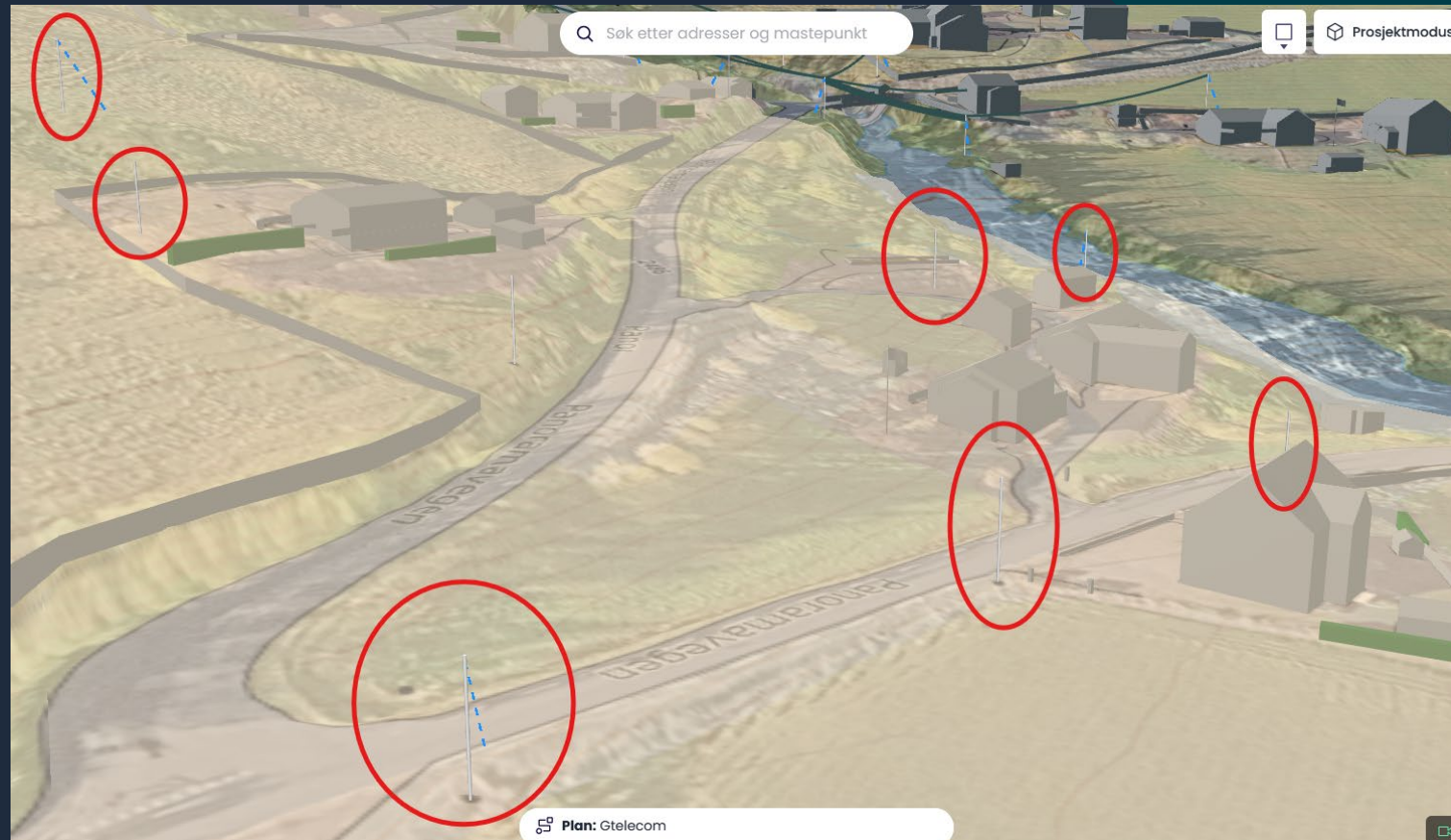
SmartGIS already have existing infrastructure from DSOs in our platform. (low voltage, high voltage and trenches.)

By sharing some of this information, the DSOs can spend less time on mechanical calculations and gathering information.  
(Requires access/approval from the grid company)

Procedure:

- 1) Broadband provider logs into SmartGIS
- 2) Can instantly see all available poles in the area
- 3) Selects which poles the want to apply for pole-sharing on.
- 4) Select cable type

Done.



# Full control over what each pole needs in seconds instead of weeks

## Calculations are done right away

Mechanical calculations of the poles are done automatically with finite element method.

## Automatic cost allocation

Pole-sharing costs are allocated according to the agreement between the parties

## Finding the “cheapest route”

both parties can easily optimize which route they want to build, based on cost.

## Complete report

both parties can be granted a full report on costs, necessary upgrades, repairs or reinforcements that needs to be done.



Ledning4

Stolpe3

Mastepunkt3

Barduner0

Travers0

Krefter

Forskyvninger

Kap.uth.

Ruling Span

LASTTILFELLE

Worst case

Middel +6°C

Montasje +15°C

+50°C

Vindlast

Uniform last

Kombinasjon vind og is

-30°C

-25°C

-20°C

-15°C

-10°C

-5°C

0°C

+5°C

+10°C

+15°C

+20°C

+25°C

+30°C

Søk...

| SPENN1    | LEDER1    | FRA → TIL1      | LEDNINGSTYPE1           | FUNKSJON1 | L [M]1 | STØRST KRAFT [KN]1 | BRUDDLAST [KN]1 | TILLATT LAST [KN]1 | % AV UTS1 | STATUS1  | DIM. LASTTILFELLE1     |
|-----------|-----------|-----------------|-------------------------|-----------|--------|--------------------|-----------------|--------------------|-----------|----------|------------------------|
| S15053328 | L22585176 | 124339 + 124340 | EX 3x95                 | Fase      | 37     | 9,6                | 42,0            | 33,6               | 23%       | OK       | Kombinasjon vind og is |
| S15053332 | L22585189 | 124339 + 124340 | G144-9 QEAE (ADSS 16kN) | Fase      | 37     | 21,6               | 65,0            | 18,8               | 33%       | ADVARSEL | -30°C                  |
| S15053327 | L22585177 | 124323 + 124339 | EX 3x95                 | Fase      | 50     | 16,1               | 42,0            | 33,6               | 38%       | OK       | Kombinasjon vind og is |
| S15053331 | L22585188 | 124323 + 124339 | G144-9 QEAE (ADSS 16kN) | Fase      | 50     | 21,8               | 65,0            | 18,8               | 34%       | ADVARSEL | Kombinasjon vind og is |

OUR DOCUMENTED EFFECT

**74%** reduction

**in processing time for pole-sharing applications**

The approval process between telecom operator and grid owner — the step that stalls build-out — done in a fraction of the time.

**higher uptime and lower maintenance cost**

**Better documentation on who is operation in the grid**

DSOs have full control with SmartGIS on who is present in their grid — easier to coordinate repairs and pole replacements.

PROVEN IN NORWAY, READY FOR YOU

**Reuse the poles. Cut the paperwork.  
Build faster.**

**Fredrik Bakke**

SmartGIS · Pole Insight · Punktsky