Deformation

Risk determination using satellite data

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Electricity + Gas

Gas distribution network
24,000 km

Primary gas service lines
1,400,000

Customers
2,000,000
Ground deformation

• Different deformation rates
  • Leakages
  • Bends
Deformation on gas service lines

- Normal
- Influence of deformation
Processing measurement points

- Visualize spatial patterns
A neighbourhood

- Deformation map
Deformation on each gas service line

- Total deformation per address
Time until replacement

- How many years until the gas service line needs to be replaced?
Using satellite data within Stedin

• Effectiveness:
  • Reduced costs per neighbourhood
  • Increased safety for customers
  • Previously unknown risk areas discovered automatically

• Strategic planning:
  • Predictive analysis