



# KLIC-WIN

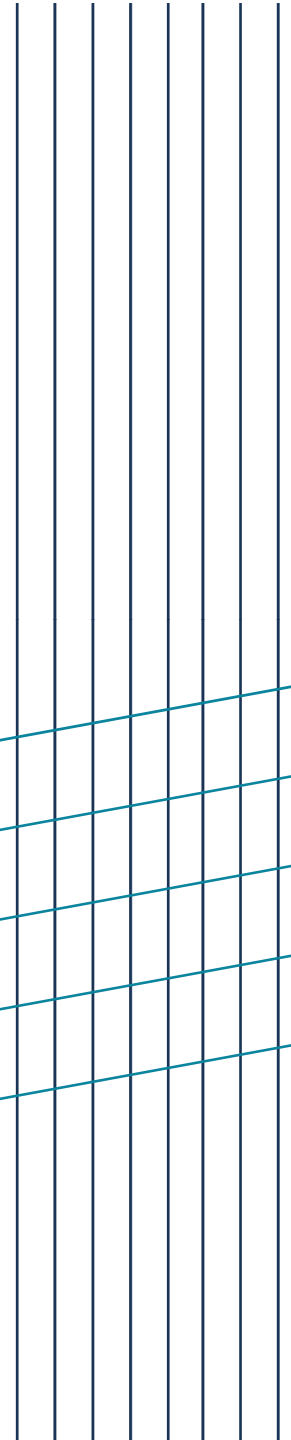
*Exchanging geographical information to prevent excavation damage to cables and pipelines in the Netherlands; a usecase of INSPIRE*

*Utility Services*

GWF2014

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# Topics

- KLIC, cables and pipelines information centre
- WION, legal obligations
- Klic-online, the conceptual design
- Future needs
- European directive: INSPIRE theme Utility Services
- KLIC-WIN: matching WION & INSPIRE US

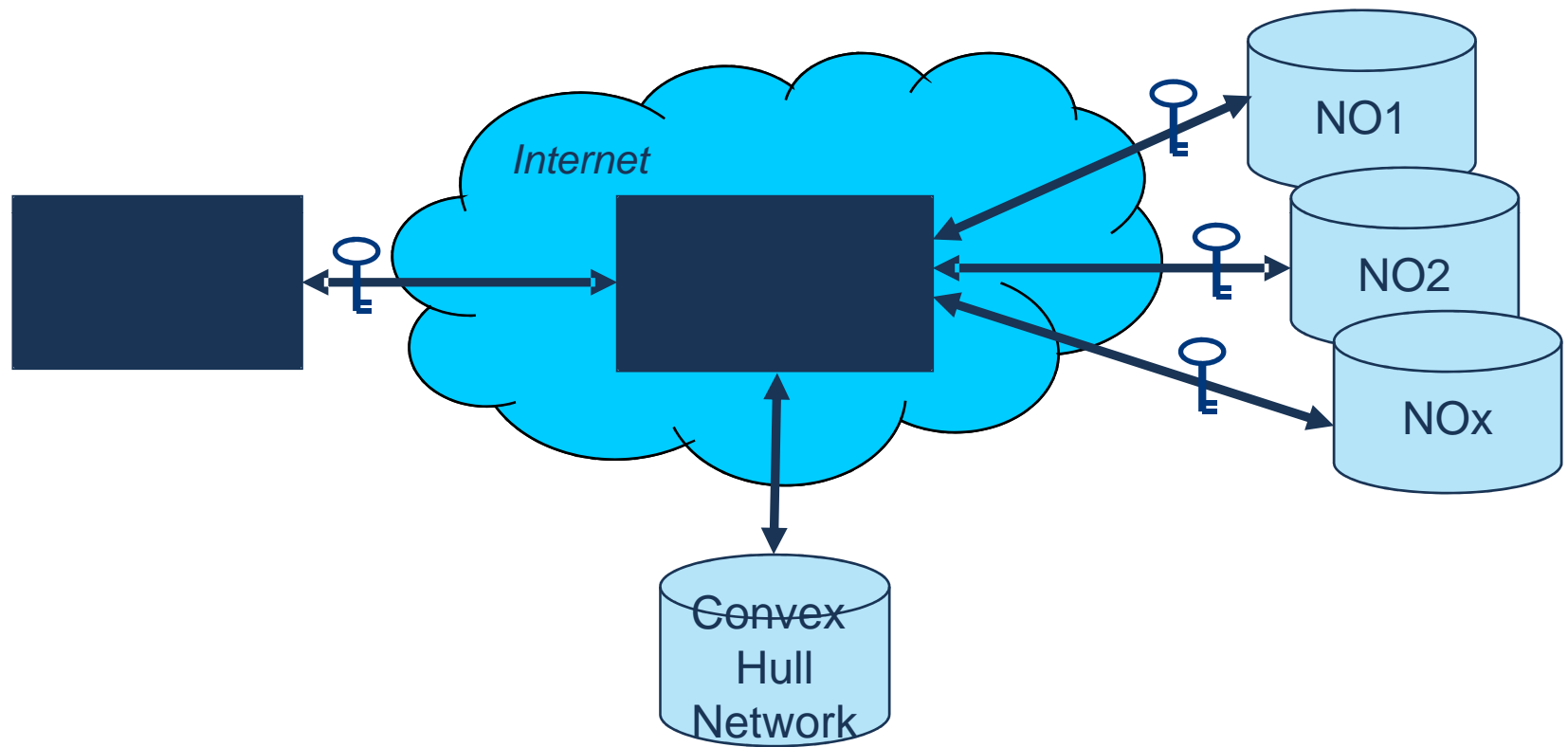
# KLIC, cables and pipelines information centre

- An initiative of network operators (1967)
- Goal: decrease the number of excavation incidents
- Reported excavations are dispatched to network operators
- Network operators send their maps directly to the excavator
- Characteristics:
  - Simple procedure,
  - Effective and well established
  - Based on voluntary participation
  - Labor-intensive
  - Unstandardized maps

## WION, legal obligations

- Commissioning party: ensure that the work can be performed with due care
- Excavator: report the mechanical digging plans and work with due care,
- Network operator: participate in WION and deliver information to the system (Klic-online)
- Kadaster: develop, maintain and service the system
- Agency Telecom: monitoring and enforcement

# Klic-online, the conceptual design



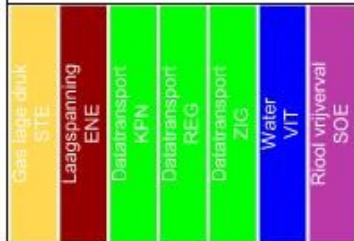
*kadaster*

# KLIC-online, area information

KLIC-nummer: 13G143928 - 1

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Verzamelkaart alle thema's



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kadaster

## Future needs

- High quality demands: ubiquitous
  - Continuously available (24x7)
  - Without waiting (near real-time)
  - Presented at any location and on any user platform
- Multiple maps e.g. planned topography, type of soil, ground water, cadastral boundaries, addresses, etc.
- A controlled process for reporting excavations
- Authenticated users which specify their requests
- Authorization based on applicant's profile and intended use
- Web services
  - Viewservice (WMS)
  - Downloadservice (WFS)

# European directive: INSPIRE US

- Annex III subtheme 6a Utility Services
- Obligatory for 80%e of the Dutch network operators
- Strict roadmap
  - Metadata published (2013)
  - Webservices (WMS/WFS) data as is (2013)
  - Data harmonised (2020)
- High quality demands
  - 24x7 available
  - 99% uptime
  - Respons viewservice < 5 s
  - Start download < 20 s
  - Simultaneous > 20 users



# KLIC-WIN: matching WION & INSPIRE US

- One system that fits both WION and INSPIRE US
- Letter of intent
- Steering committee
- Outlines, synergy, program plan
- Challenges
  - A3: authentication, autorisation, accounting?
  - How to fit in the private sector (e.g. telecom)?
  - Datawarehouse central / distibuted / hybride?

# KLIC-WIN (data exchange in a hybride model)

