KLIC-WIN

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

Utility Services

INSPIRE 2014

Ad van Houtum

Cadastre, Land Registry and Mapping Agency, NL
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
KLIC-nummer: 13G143926 - 1

Verzamelkaart alle thema's

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<th>Digitaal</th>
<th>KPZ</th>
<th>Lagaat</th>
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<th>VIT</th>
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kadaster
Futere 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, groundwater, 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 / distributed / hybride?
Decision making process

• AAA versus open/free
• Options for dealing with INSPIRE:
  – Decentralized: the data remain with the NO
  – Centralized: a copy of the NO-data in the portal
  – Hybrid: a mixture of both
KLIC-WIN (data exchange in a hybrid model)