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Session: Construction & Infrastructure
Damage control to sub soil cable and pipelines in The Netherlands

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Cables and Pipelines in The Netherlands

The sub soil is full of cables and pipelines. (i.e. gas, water, electricity, data, etc).
Cables and Pipelines in The Netherlands

• Damage to the cables and pipelines can lead to economic, social and/or environmental disruption and even to serious injury to the excavator and by-standers.

• Need for information!
Non legally based period of information exchange

A voluntary information center (KLIC) was established in the 80’s

Utility companies and public administrations were not obligated to supply information to excavators.

Excavators were not legally obligated to obtain any information in advance about cable and pipelines in excavation areas, this was voluntary.

> There was no legal obligation to give or to obtain any location information about excavation areas in advance.
Legislation Timeline

• 2003 – Publication in Dutch newspaper, NRC Handelsblad ‘Waiting for the Big Bang’.


• Questions arose in the Dutch Parliament, pressure to create legislation.

• July 1, 2008: Sub soil Cables and Pipelines Information Exchange Act (WION) established.

• December 1, 2010: Sub soil cable and pipeline information now digitally available.
2003

Slechte registratie kabels

**Groot risico op ongevallen bij graafwerk**

Door een van onze redacteuren

**MAARSEN, 17 OKT.** Bij 3 procent van al het graafwerk bestaat het risico op ongevallen met kabels en leidingen. Dit komt neer op 3.750 keer per jaar, zo concludeerde Kiwa Management Consultants in een onderzoek voor het Kabels- en Leidingen-Informatie Centrum (Klic).

Het Klic, dat meldingen voor graafwerk ontvangt en doorgeeft, zegt Rietjens. Het precieze aantal ongevallen is echter niet bekend, maar het is niet ongebruikelijk dat een feit wordt vergeten of verdwijnt in de gaten.
Gellingen, Belgium 2004
Cables and Pipelines Information Exchange Act (WION) ...what it means...

To excavators:
• Application request to KLIC-online before starting excavation work.
• Use the KLIC information and ‘Dig carefully’.
• Report back any abnormalities or incorrect cable and pipeline information.

To utility companies/public administrations (1100):
• Register area of interest and its characteristics to KLIC-online.
• Deliver requested information to excavators/KLIC ASAP.

To all:
• All information must be exchanged digitally.
• Follow special procedure for safety zones.
Electronic exchange of information

- Excavator
- Cable and pipeline company
- Cable and pipeline company
- Cable and pipeline company

Request:

Confirmation:

Registration of areas of interest
Act information exchange

Act: two phases

Phase 1: (July 2008 – July 2010)
- Kadaster partly intermediar
- Information/maps send by mail

Phase 2: (July 2010- )
- Complete electronic information exchange
- Use of large scale base map and IMKL
Number of application requests

![Graph showing the number of application requests from 2004 to 2011. The graph indicates a steady increase in the number of requests over time.]
KLIC Response Time

- KLIC Response time
- ...Maximum 3 days....
- But mostly within 30 minutes
Result: combined digital information
Success drivers

- Legal obligation.
- Combined map on top of the large scale base map of the Netherlands.
- Standards implemented (IMKL).
- Regular meetings with stakeholders.
All to prevent this ....