



# KLIP

At the eve of the digital phase ...

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# Intro KLIP

## ■ What?

- cable and pipe information portal (KLIP)

## ■ What for?

- to prevent damage caused by excavation works
- region of Flanders

## ■ How?

- [www.klip.be](http://www.klip.be)
- optimise information-exchange between
  - planrequester (PAV) ~ i.e. excavator, ...
  - cable and pipe operators (KLB)



# KLIP: a phased approach

- Phase 1
  - operational since march 1, 2007
  - KLIP as single point
    - of **request** for cable and pipe information
  
- Phase 2 = KLIP Digital Phase
  - in the 'pipeline' (201x)
  - KLIP as single point
    - of request for cable and pipe information
    - for **exchange** of cable and pipe information

# KLIP-decree

- KLIP-decree of march 14, 2008
  - obligatory registration as KLB (upload KLB-zone)
  - obligatory request for and receipt of cable and pipe information prior to the start of excavation works



- Federal Portal for Cable and Pipeline Information (KLIM)
  - [www.klim-cicc.be](http://www.klim-cicc.be)
  - originally: companies for transmission of oil-gas-chemicals by pipelines and electricity
  - extension for other utilities in Brussels + Wallonia
- Linked to KLIP

# KLIM



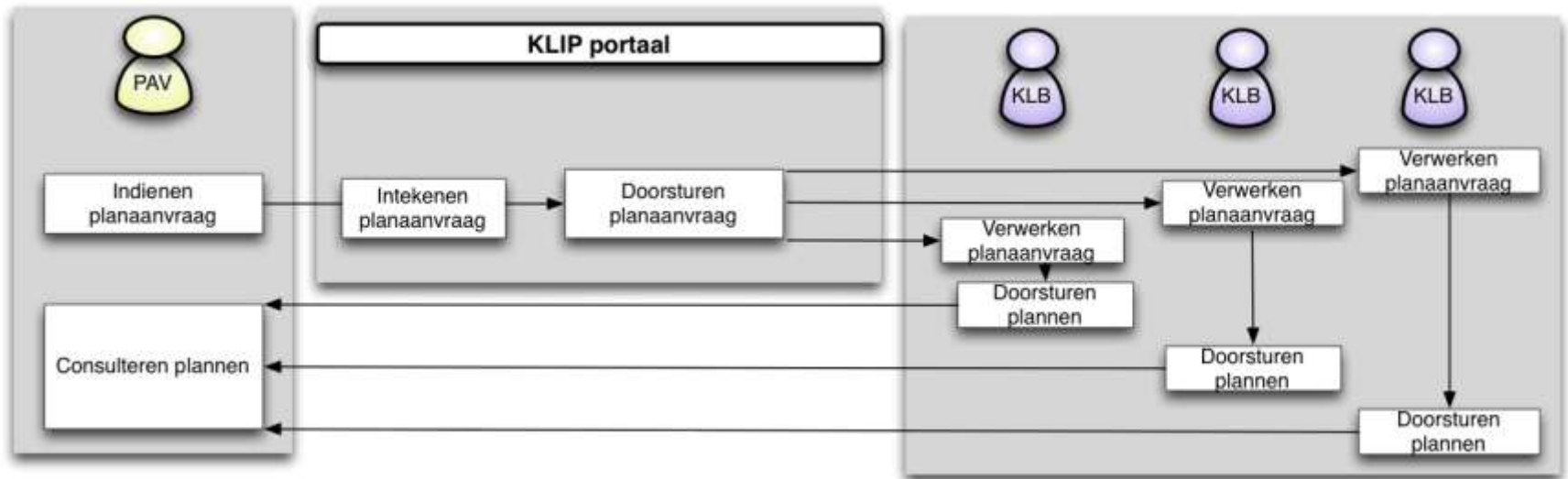
## Brussels Capital Region

- Major Utility Companies are member of KLIM-CICC
- Government prepares a new ordinance
  - Cfr KLIP-decree
- Will probably appoint KLIM-CICC as central system

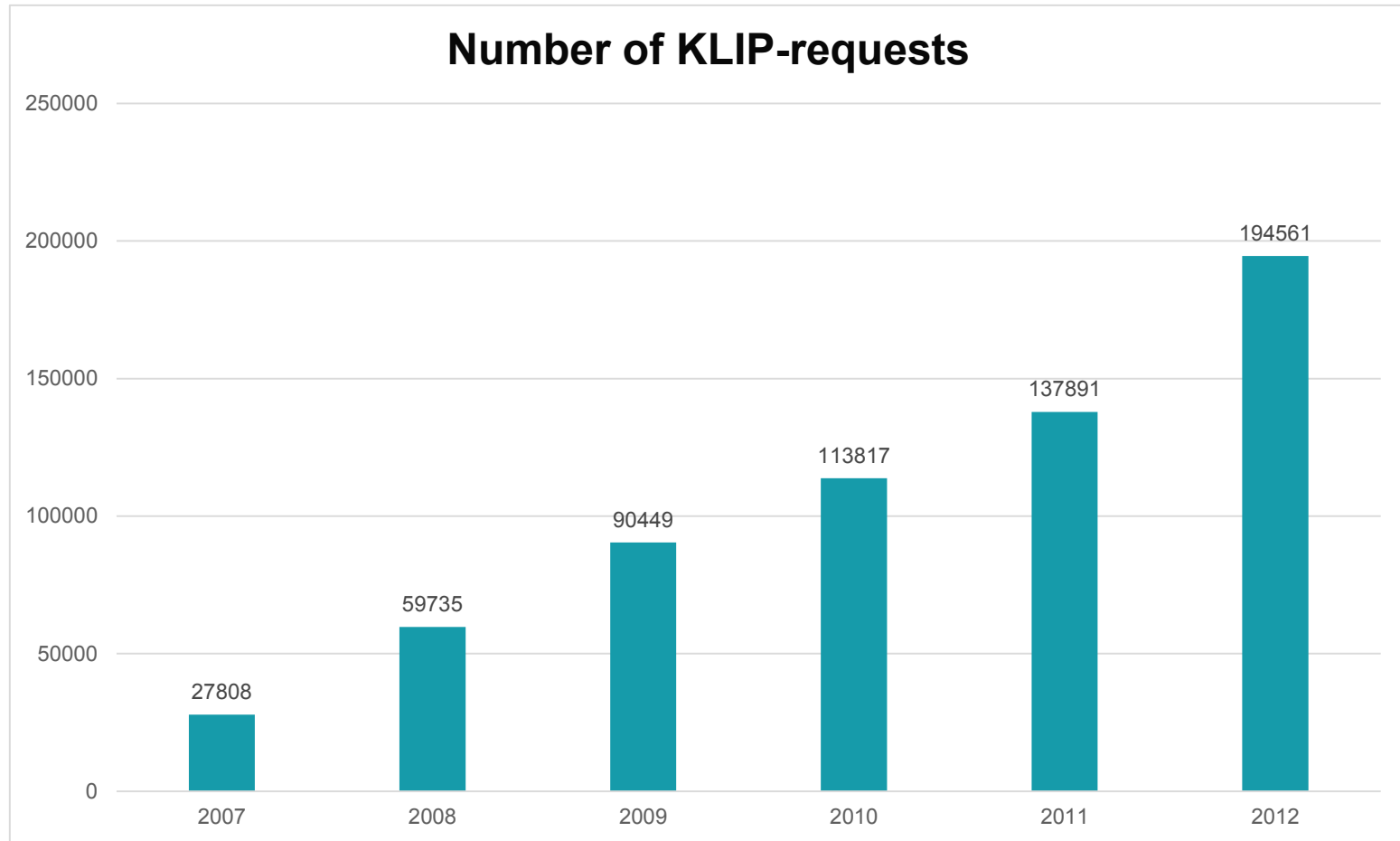
## Wallonia

- Major Utility Companies are member of KLIM-CICC
- No legislative initiative

# KLIP today

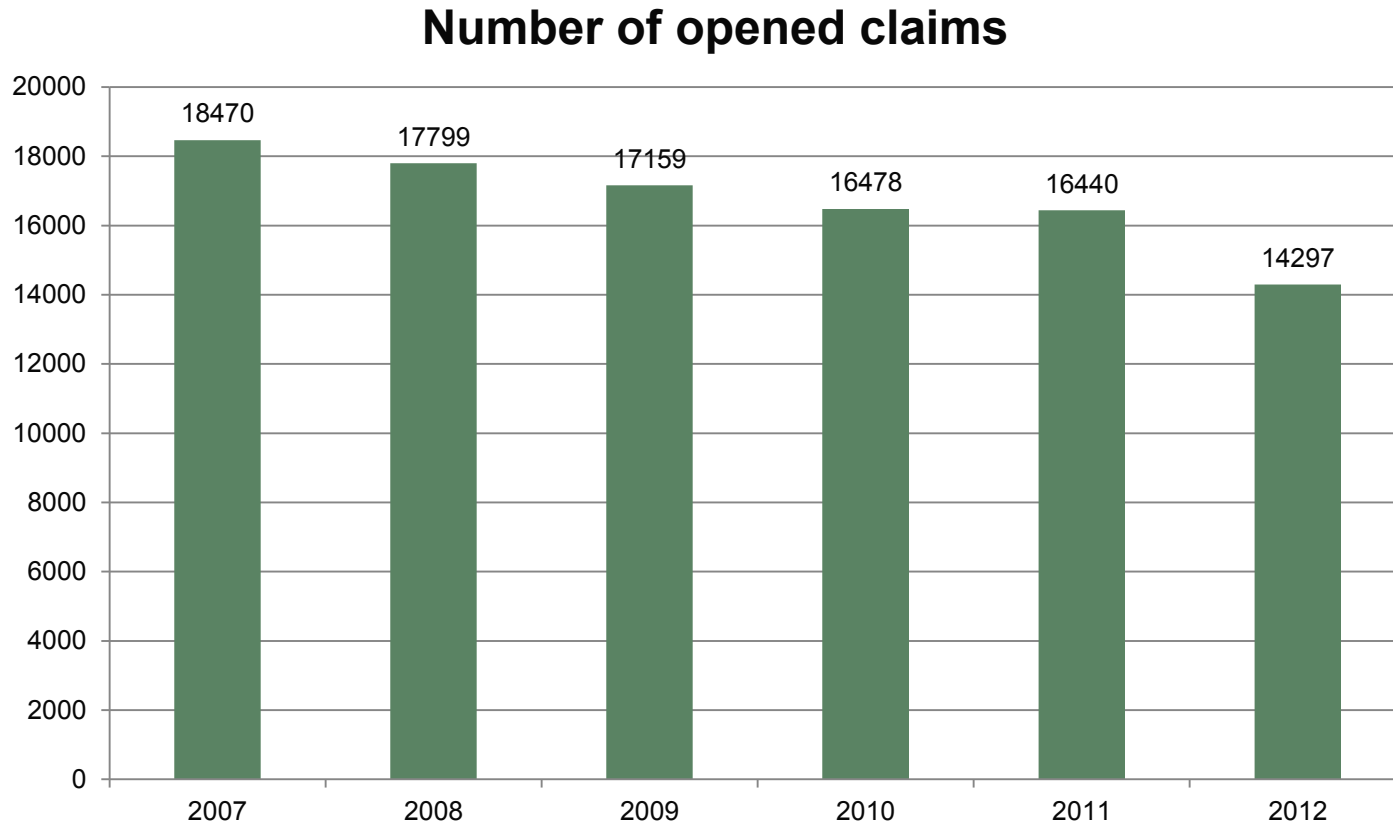


# Use of KLIP





# Effect of the use of KLIP / KLIM



Source: Datassur

# KLIP Digital Phase: user requirements

- The planrequesters (PAV) want

- to consult all cable and pipe information in one single plan
- to receive quicker this information
- to view the information in an uniform presentation
- to receive only information from within the requested zone

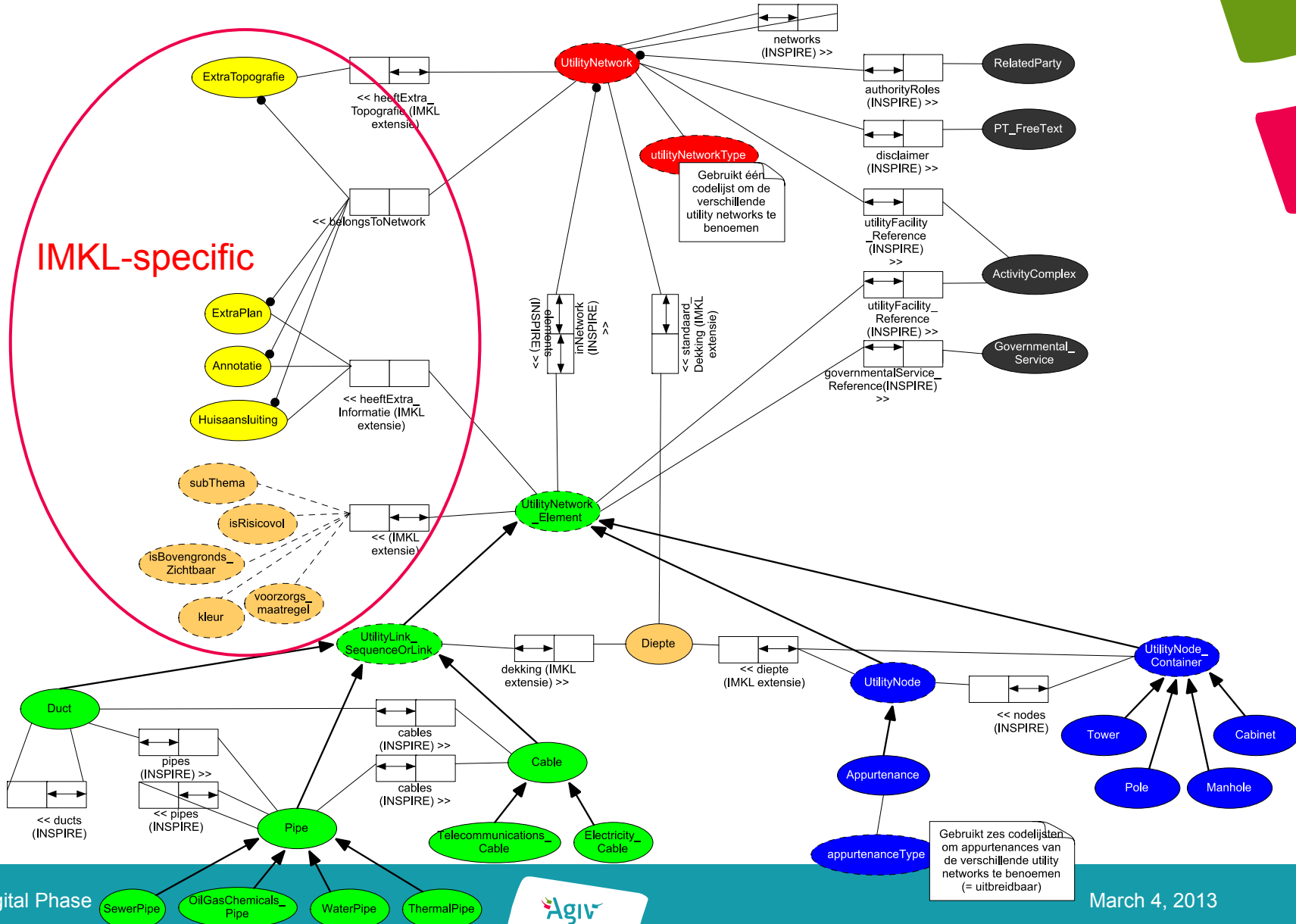
- The network operators (KLB) want

- to manage their information (decentralized management)
- to use open standards for the exchange of information

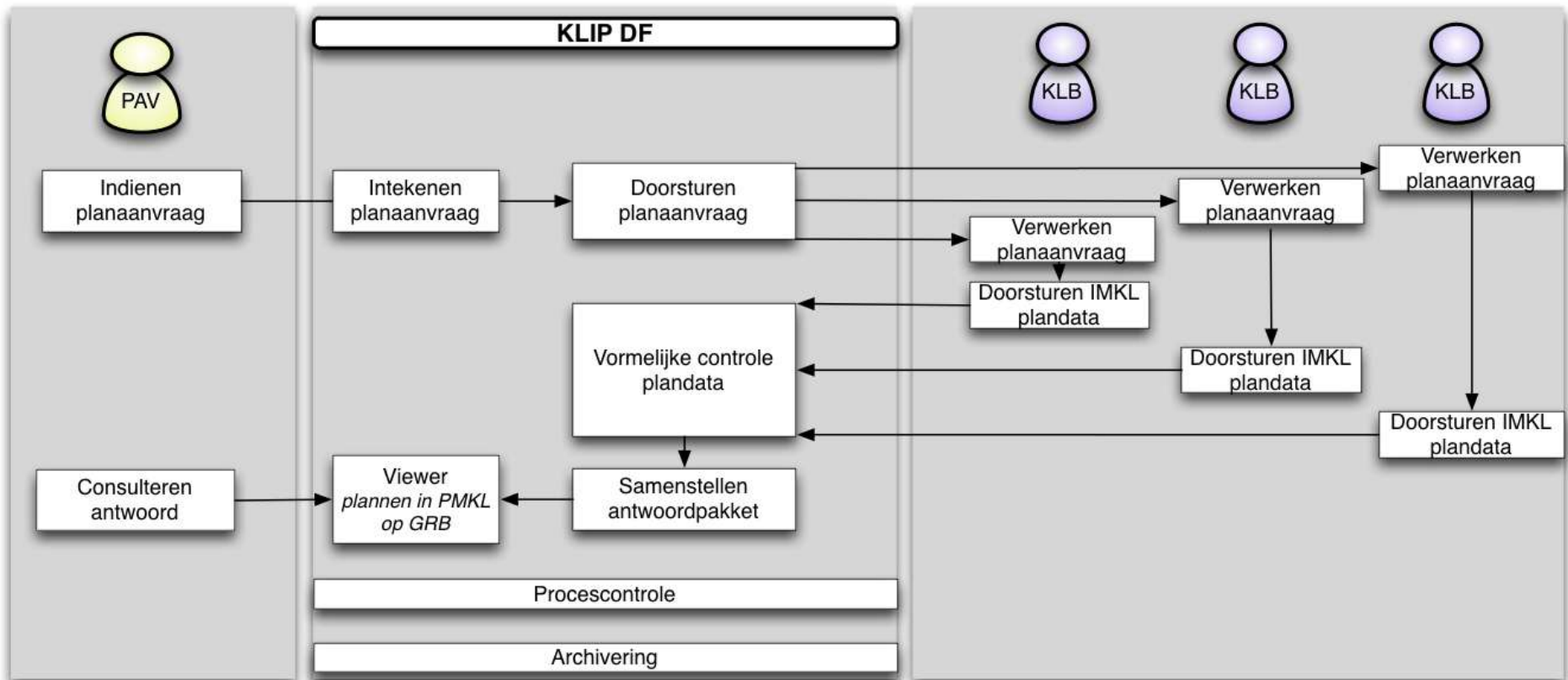
**Digital  
exchange**

# IMKL: aligned with INSPIRE US

IMKL & integratie met INSPIRE US (ORM)



# Digital KLIP: procesflow



# Status of the project Digital KLIP

- Principal agreement stakeholders
  - definition of the project
  - principals of financing
    - development of the portal: Flemish government
    - operational service, maintenance and evolution of the portal: payment per plan request
  - Timing
    - development new KLIP-portal (2015)
    - obligatory digital exchange (201?)
- KLIP and INSPIRE
  - needs further research

# Questions?

[www.klip.be](http://www.klip.be)

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