

Country Report:

The Netherlands

NDR key parameters

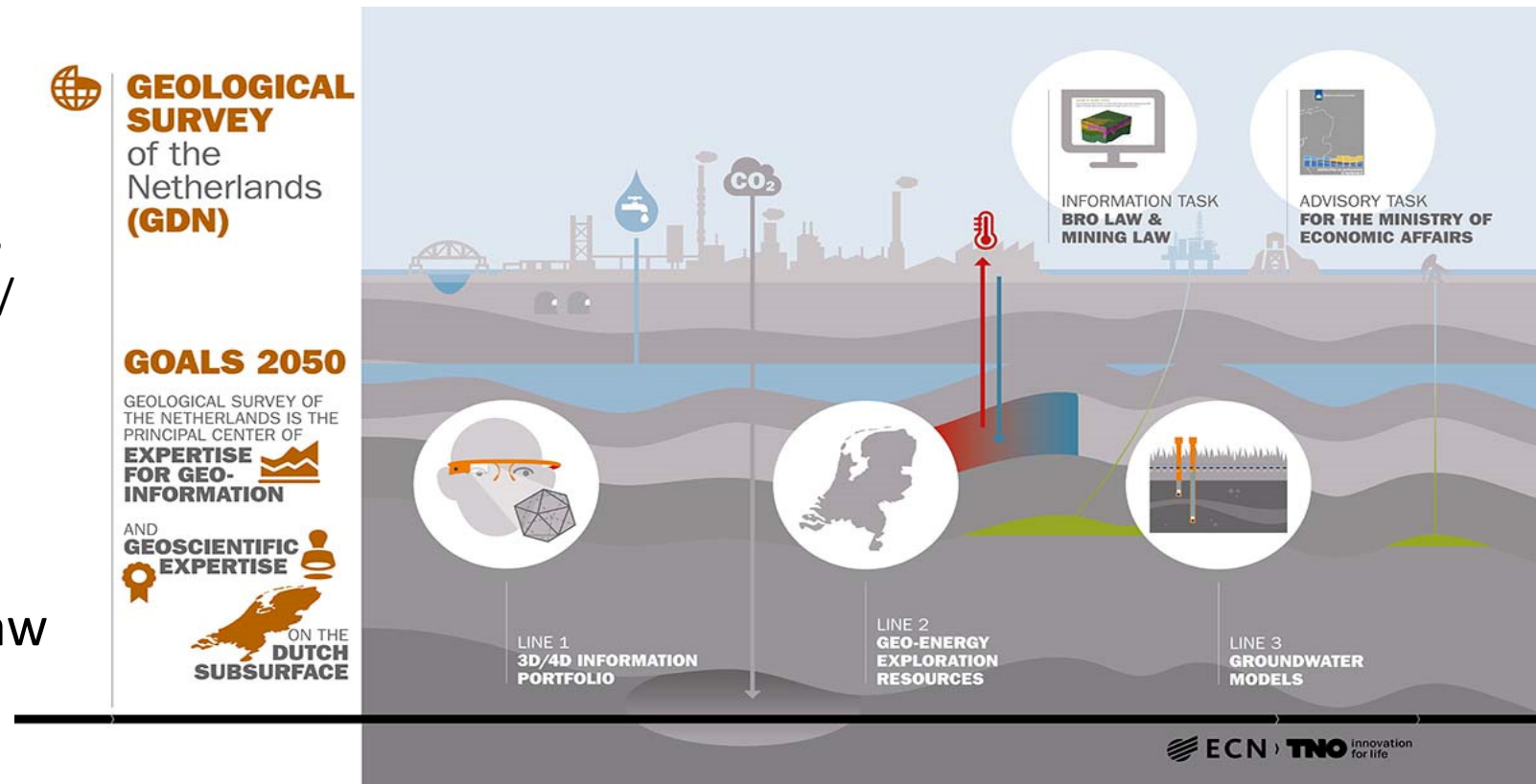


Name of the NDR	TNO Geological Survey of the Netherlands
Type of organisation	Independent Research Organization with a Governmental task
Operating since:	100 years
Employees:	NDR: 70 (Survey: 200) (TNO: >3000)
State participating agency:	Ministry of Economic affairs
State Supervisor:	State supervisor of mines

Type of data	
Onshore	Yes
Offshore	Yes
License information	Yes
Production information	Yes

Objectives

- Best possible data and information
 - Climate change
 - Monitor effects exploration (oil / Gas / Groundwater)
- Legislation
 - BRO / Mining law / EU-INSPIRE



ACHIEVEMENTS



- Software development:
 - Agile/scrum as standard / Moving towards DevOps
 - Improvements in seismic data management
- Changes in portal portfolio (related to Enterprise Architecture)
 - Combining functionality: develop once, use multiple times
- Key Register
 - 7 new data types live on 01-01-2020 (for 5 of them the technical system is ready):
INCLUDES GEOLOGICAL MODELS -> new requirements for mapping department!
 - Important test passed (BIT)
 - First contract with ministry has been signed
- 100 year anniversary
 - publication of new Geological map (surface geology, 1:600.000)

ACHIEVEMENTS E&P data



- Incorporate Pre stack 2D seismics in the NDR
 - Digital input is not easy to find
 - Mainly for geothermal
- 3D pre stack
 - Increased demand because shooting new data is politically ‘not done’
- Licences
 - Geothermal is stable. No new drilling activity
- NLOG upgrade
 - have a look: www.nlog.nl
- Discussions with Nogepe on improving data exchange process

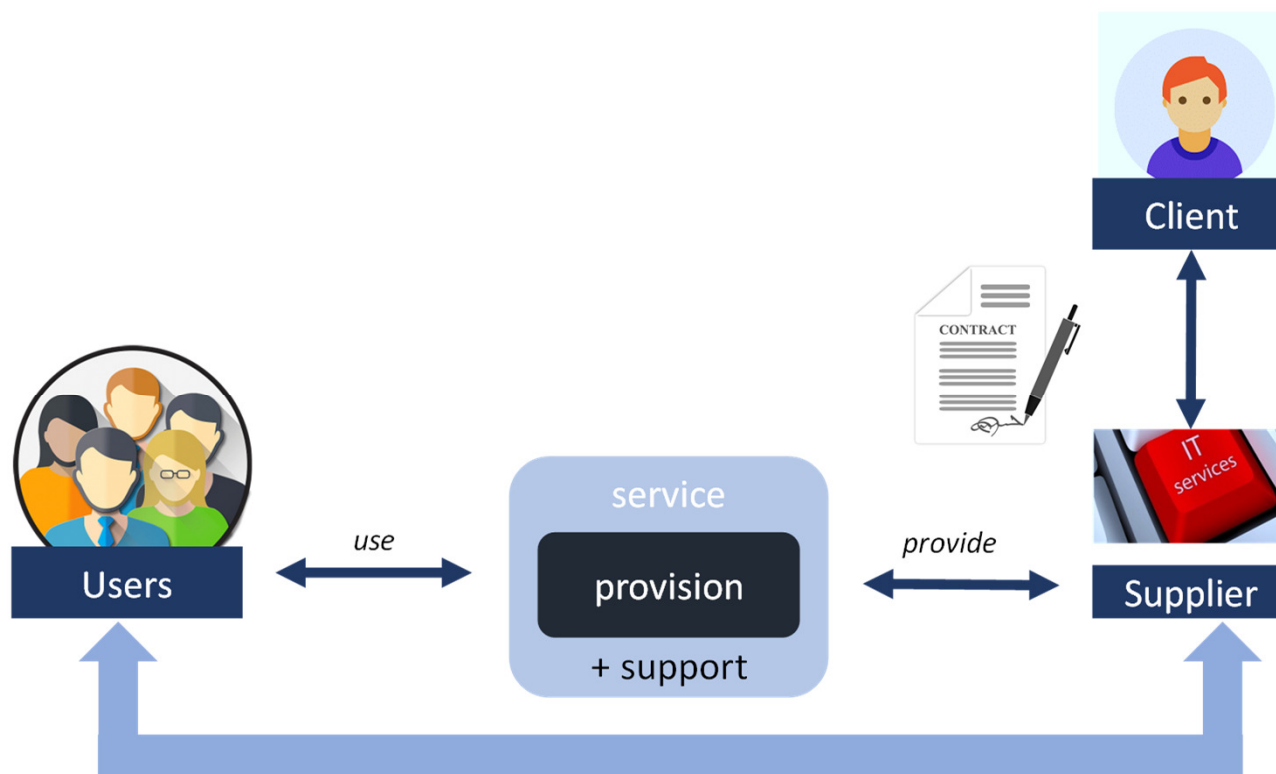
Challenges



- Implementation of service organisation
 - Change management, reporting, KPI's etc.
 - Who is responsible for what: Pros and cons for devops
 - Moving from 'software' to 'service' portfolio
- Moving around inside our current office
 - 2 major movements
 - Agile/scrum and 'open office': How will that work?
- Major change:
 - Merger with Energy Centre of the Netherlands (ECN): TNO Energy Transition

Challenges: Service organisation

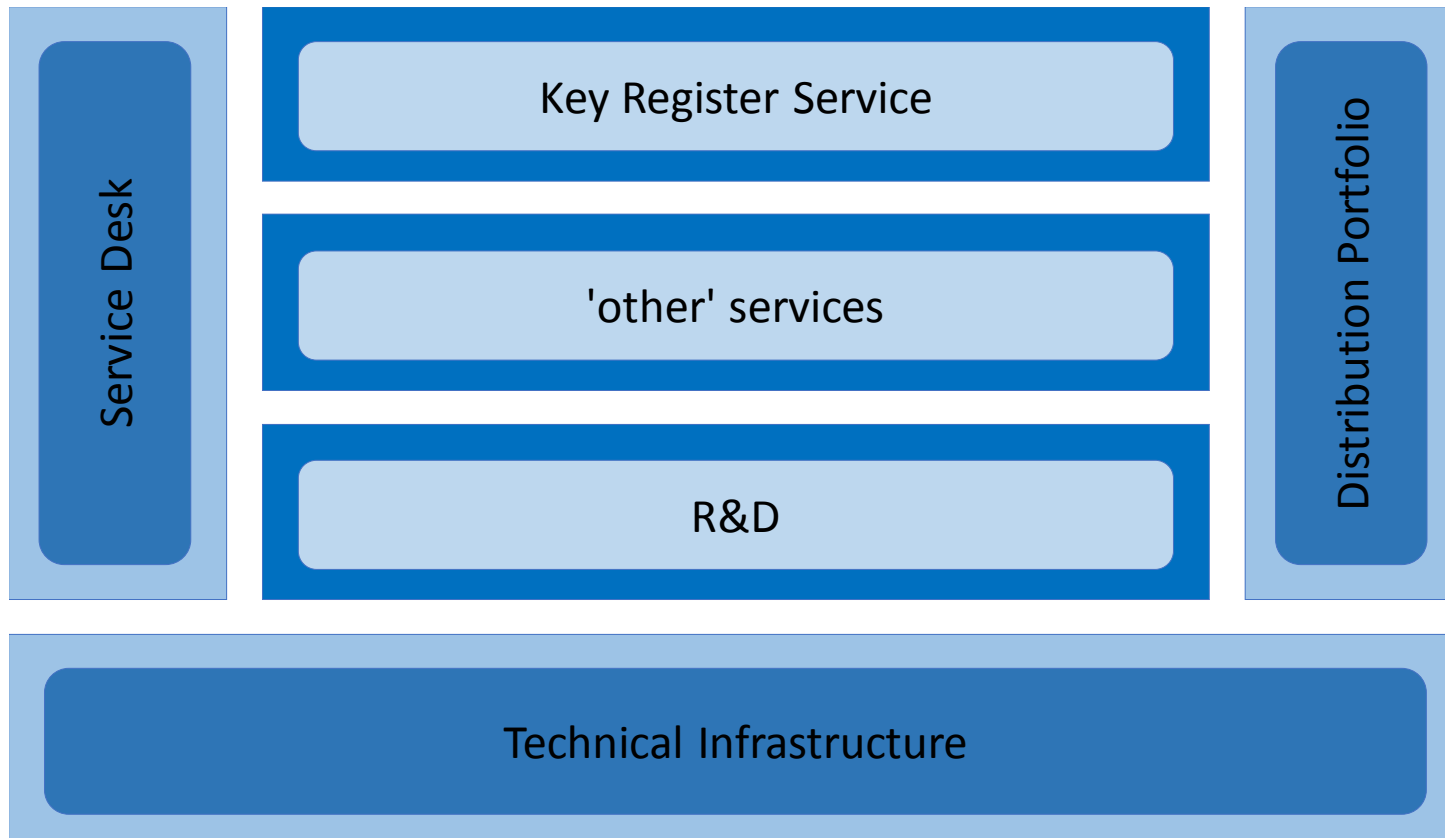
- Manage a service:
 - Technical Management
 - Functional Management
 - Application management



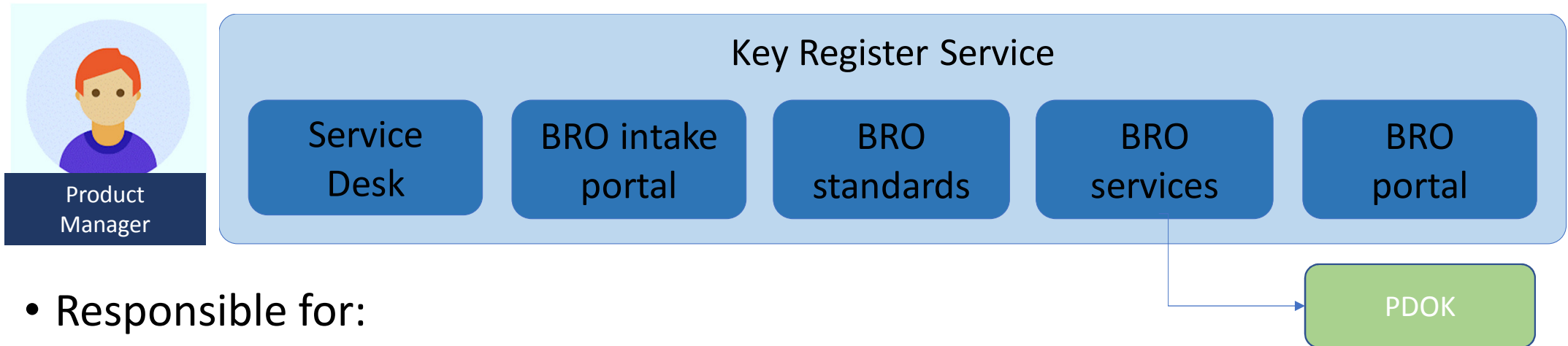
Enterprise Architecture at TNO GSN

- BSL ASL Foundation

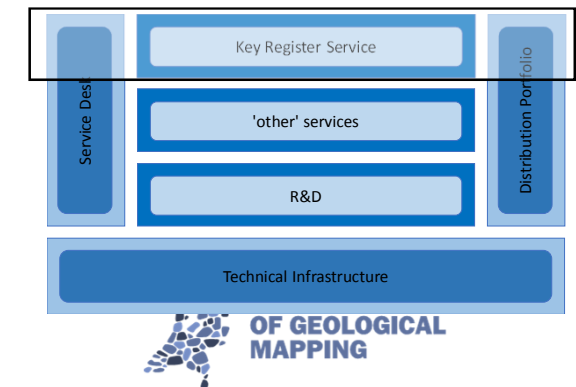
Challenges: New organisation



Challenges: information chain

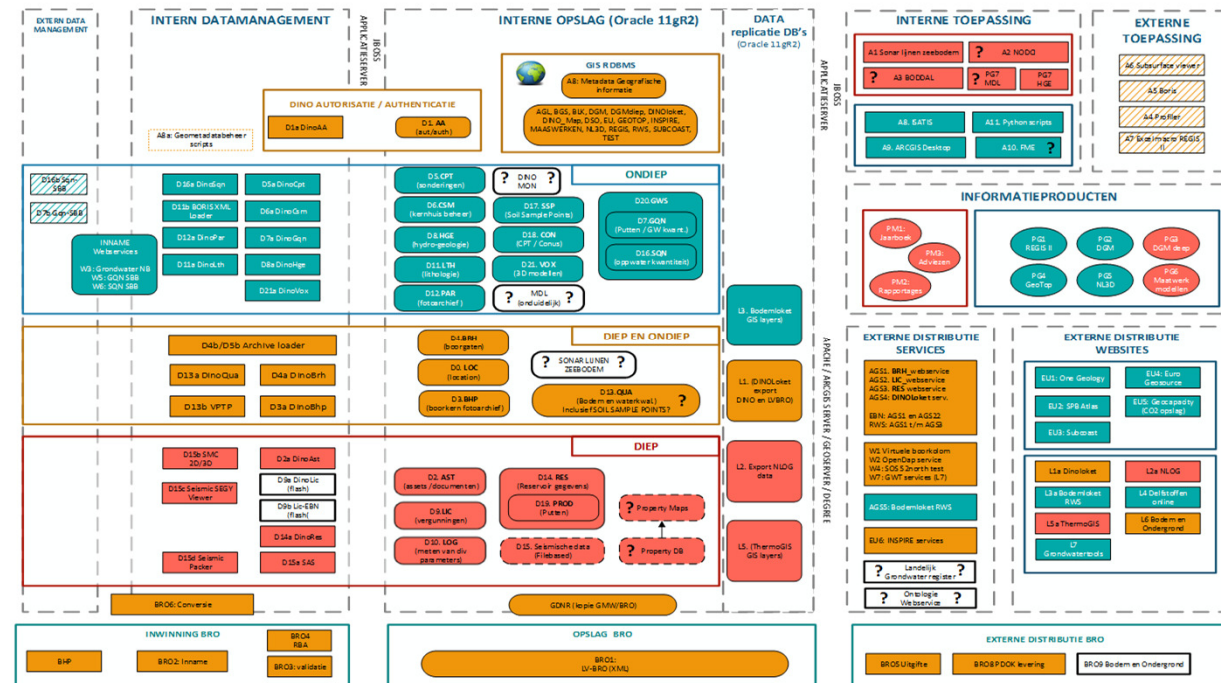


- Responsible for:
 - Management of the entire information chain
 - Gets information from
 - Service desk, Service level manager
 - Leads:
 - Product owners and their development teams

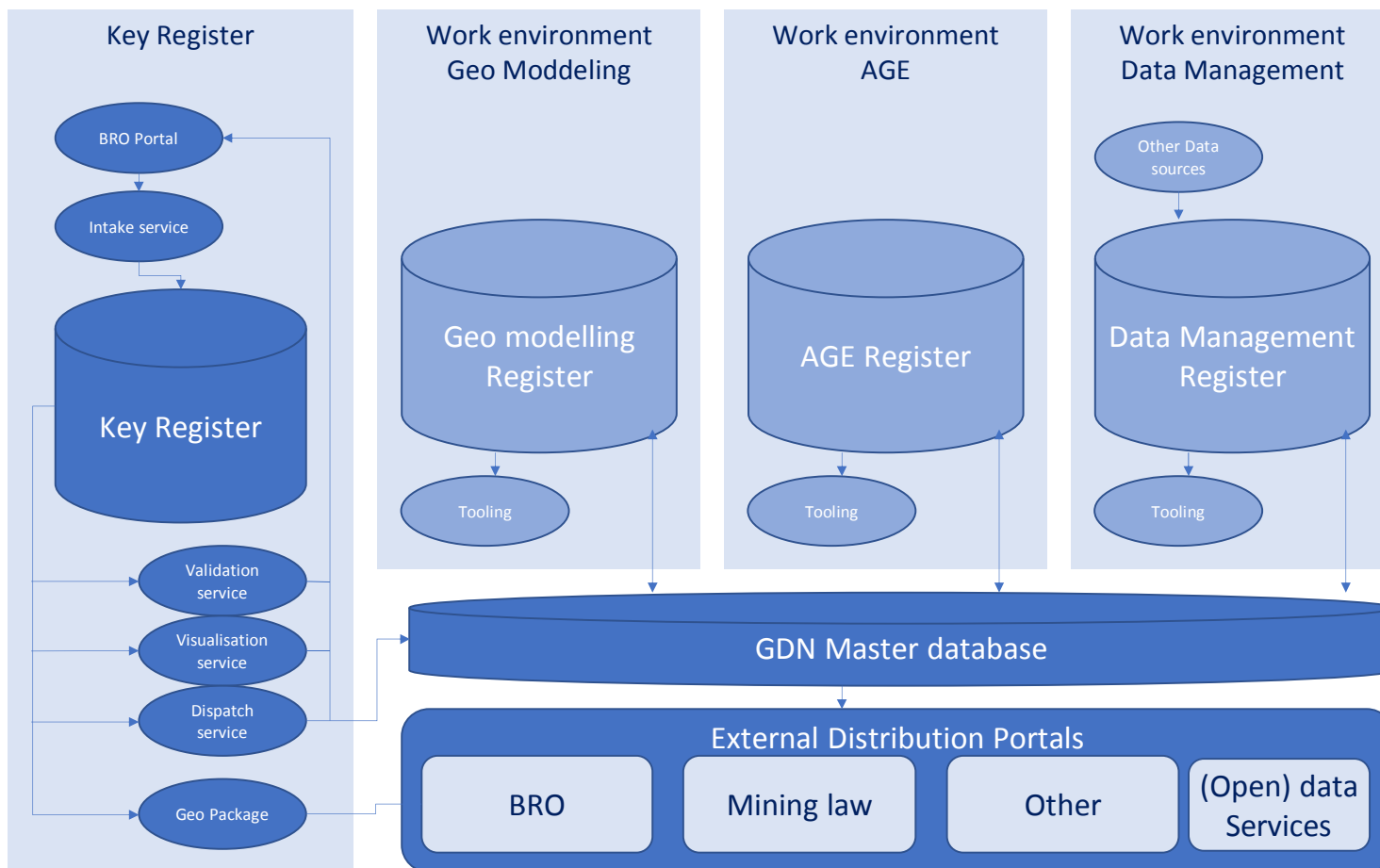


Challenges: Current situation

- Software landscape
 - Complex, business logic
 - Dependant on knowledge senior staff
 - Upgrade to new platform / technology needed
- Software development Key Register:
 - Solid, predictable, modern
- Data Publication portfolio
 - Fragmented
 - Contracts on service level unclear
- Management of application portfolio is sub optimal (Functional / Technical)



Challenges: EA layout



Future Plans

- Stable organization by end 2019
- Energy transition
 - impact on new information needs:
 - Aquifer Thermal Energy Storage / Geothermal Energy
 - Subsidence
 - Groundwater shortage (climate change???)
 - Collaboration with ECN
- Key Register
 - Implementation of Key Register ends 01-01-2022: transition to a full service organisation needs to be ready end of this year
 - Balance between Key Register and 'other tasks'
 - What to do with the 'flexible part' of our staff?