



Subsurface Data in the Energy Transition: NLOG as a platform for success

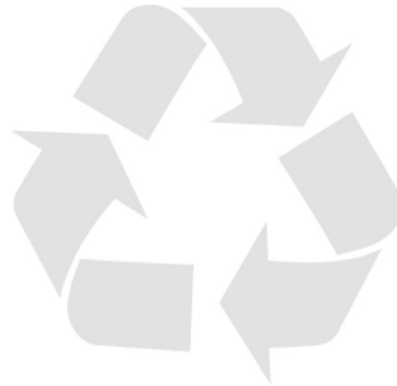
Audrey ROUSTIAU / EBN Exploration Day/ 20th of November 2019

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Usage of the subsurface data at EBN



Our Dutch Gas



Return to Nature



New Energy

- Maximise value and improve efficiency of all these activities while reducing costs.

Key messages of this presentation

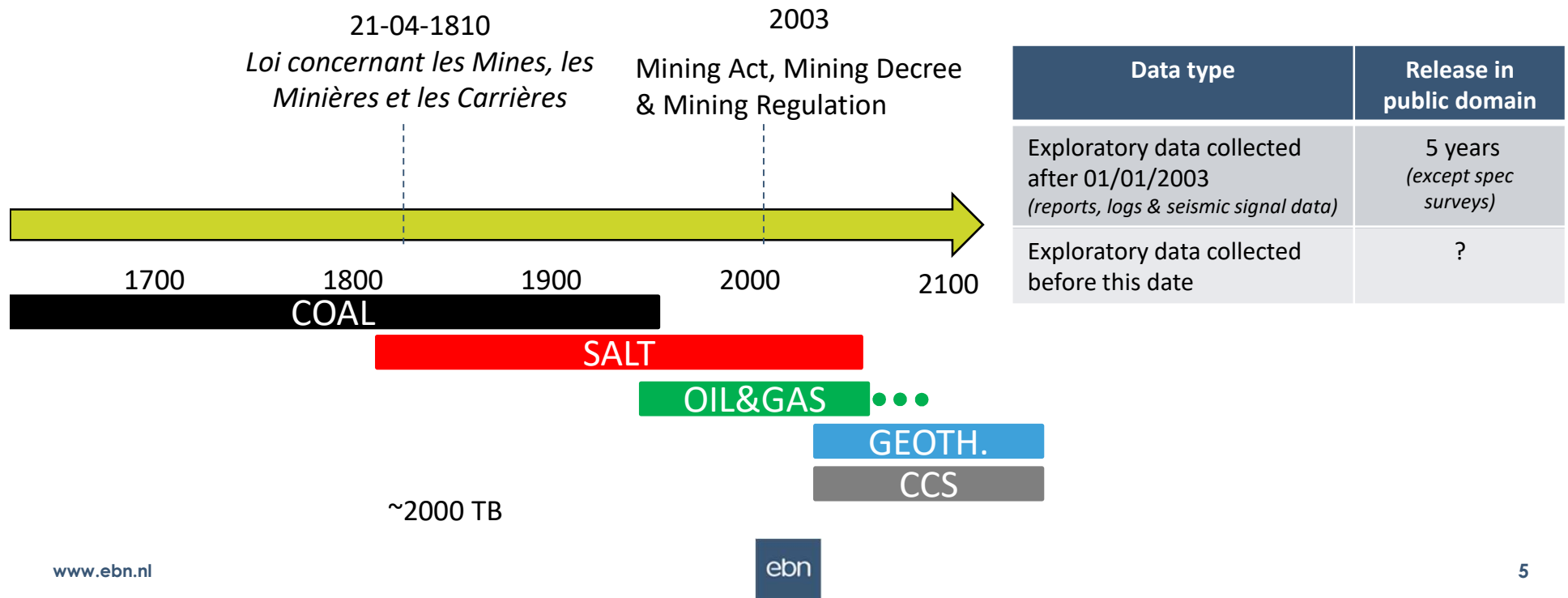
Efficient access to quality subsurface data = enabler for the Energy Transition:

- Vehicle: NLOG (=Dutch National Data Repository (NDR)),
- The public subsurface dataset must become larger and richer,
- The solution must be implemented in a cost-effective way,
- Collaboration across all subsurface-resource companies is key for success.



- Introduction: Subsurface usage in the Netherlands, a long history
- Subsurface data access in the Netherlands
- The energy transition and the requirements for efficient data access
- Conclusion

Subsurface usage in the Netherlands, a long history



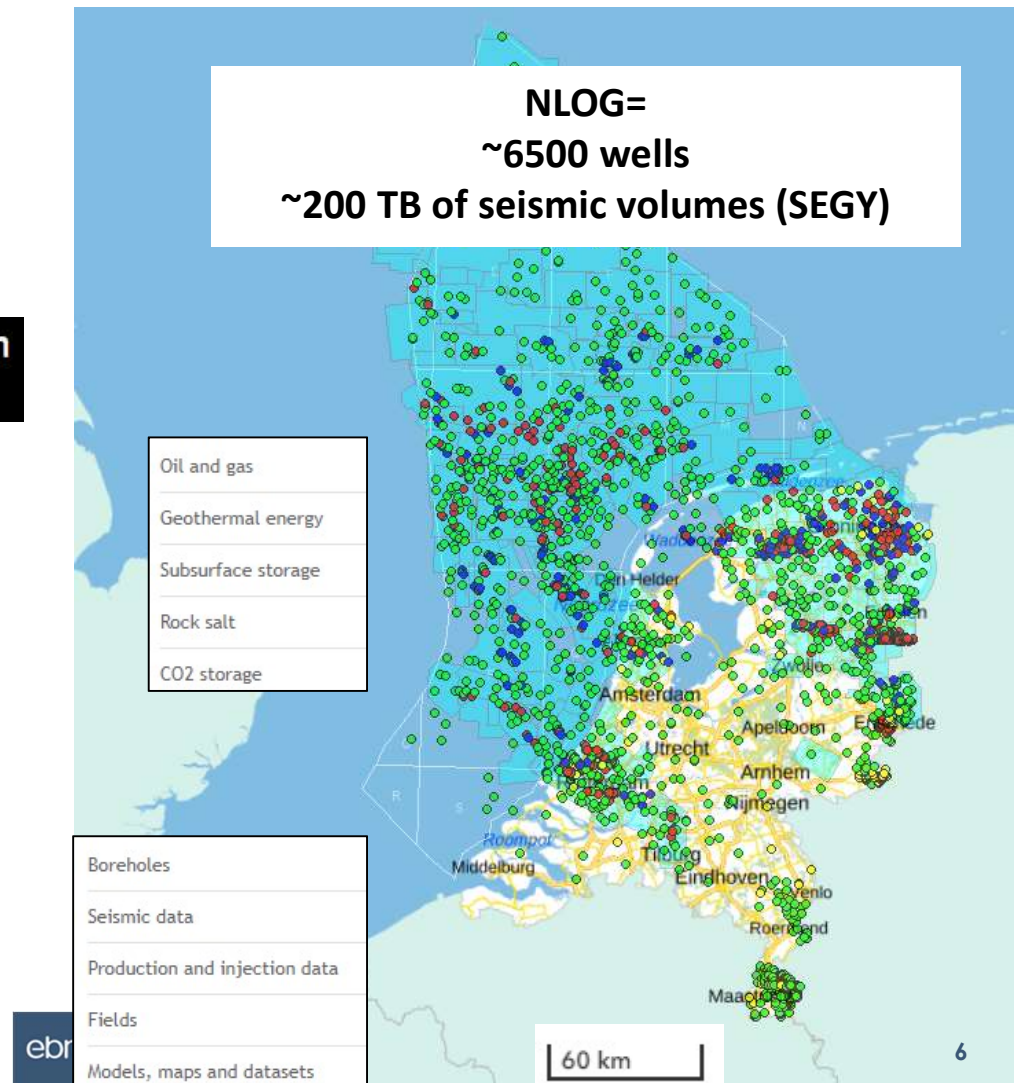
The Dutch NDR: NLOG



TNO innovation
for life

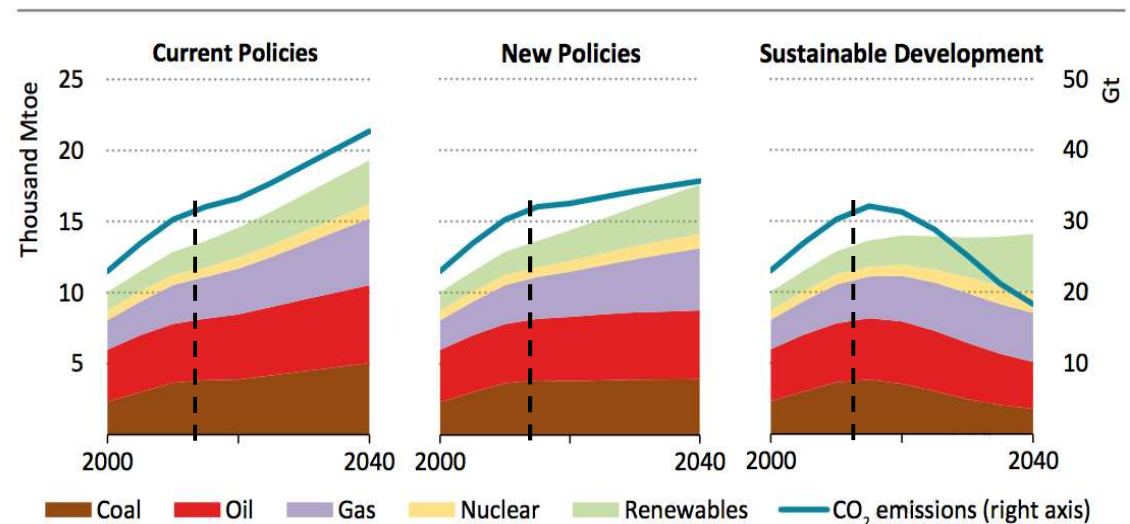
- Large and rich (meta)database of subsurface data now available at low costs,
- Efficient, reliable and free portal, accessible to public and private parties.

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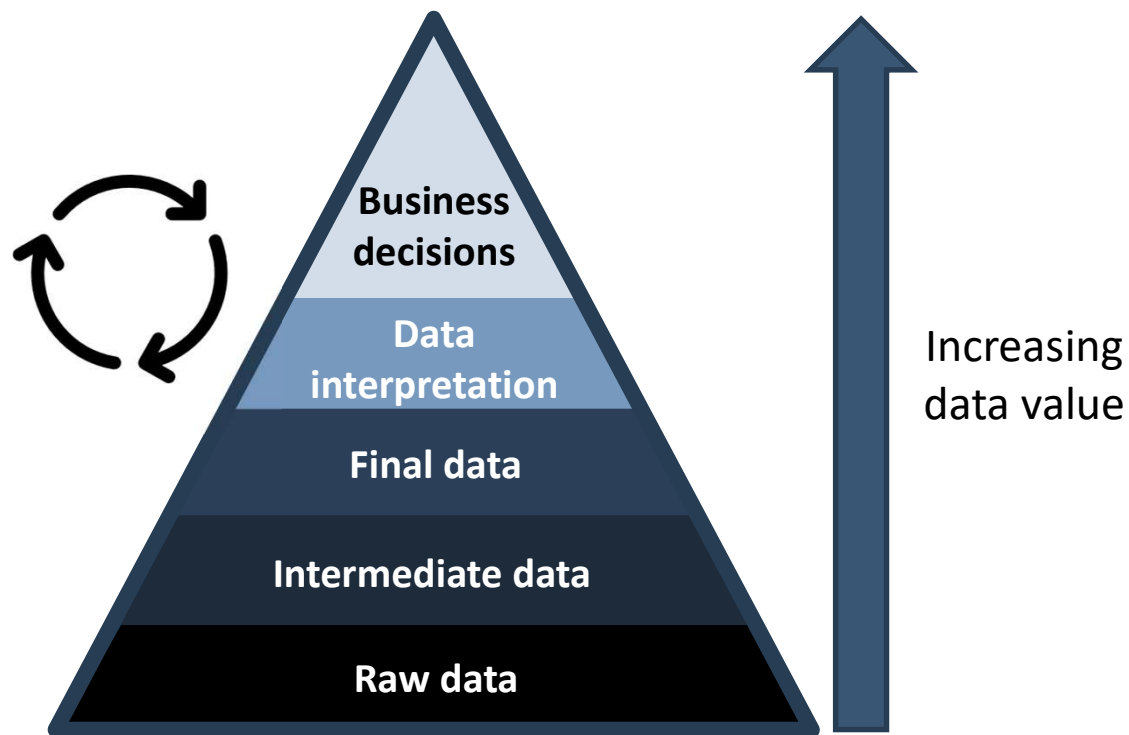
Impact of the energy transition on the subsurface data needs and quality

- NDRs globally will still play an important role in the future,
- Their role and content must evolve to cover needs from current and future users.



World primary energy demand by fuel and energy-related CO₂ emissions by scenario.
Source: International Energy Agency World Energy Outlook 2017

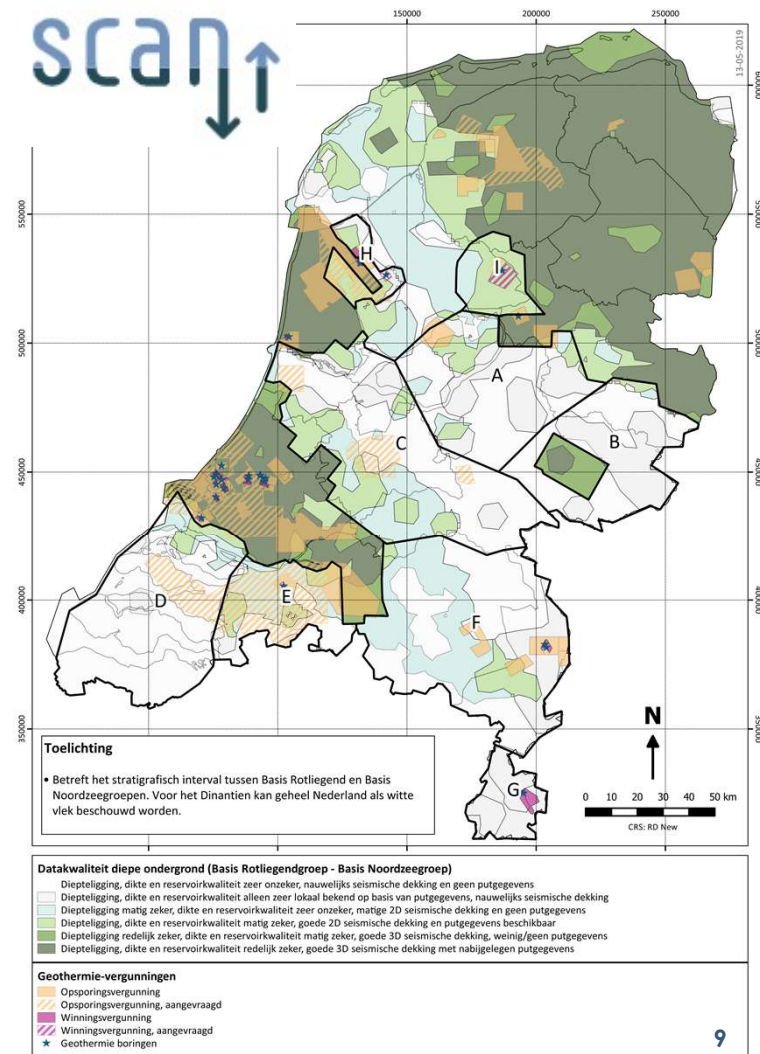
Data to Decisions



- NLOG should evolve to:
 - Support the observed shift in data access demand,
 - Provide access to a richer subsurface dataset including metadata,
 - Provide a solid data starting position to all users.

Supporting the energy transition

- Provide to current and future customers:
 - Improved data loading (I/O) capabilities,
 - A better data gap and data quality analysis.
- NLOG as corporate database for new and lean parties?



Securing subsurface data access for future users

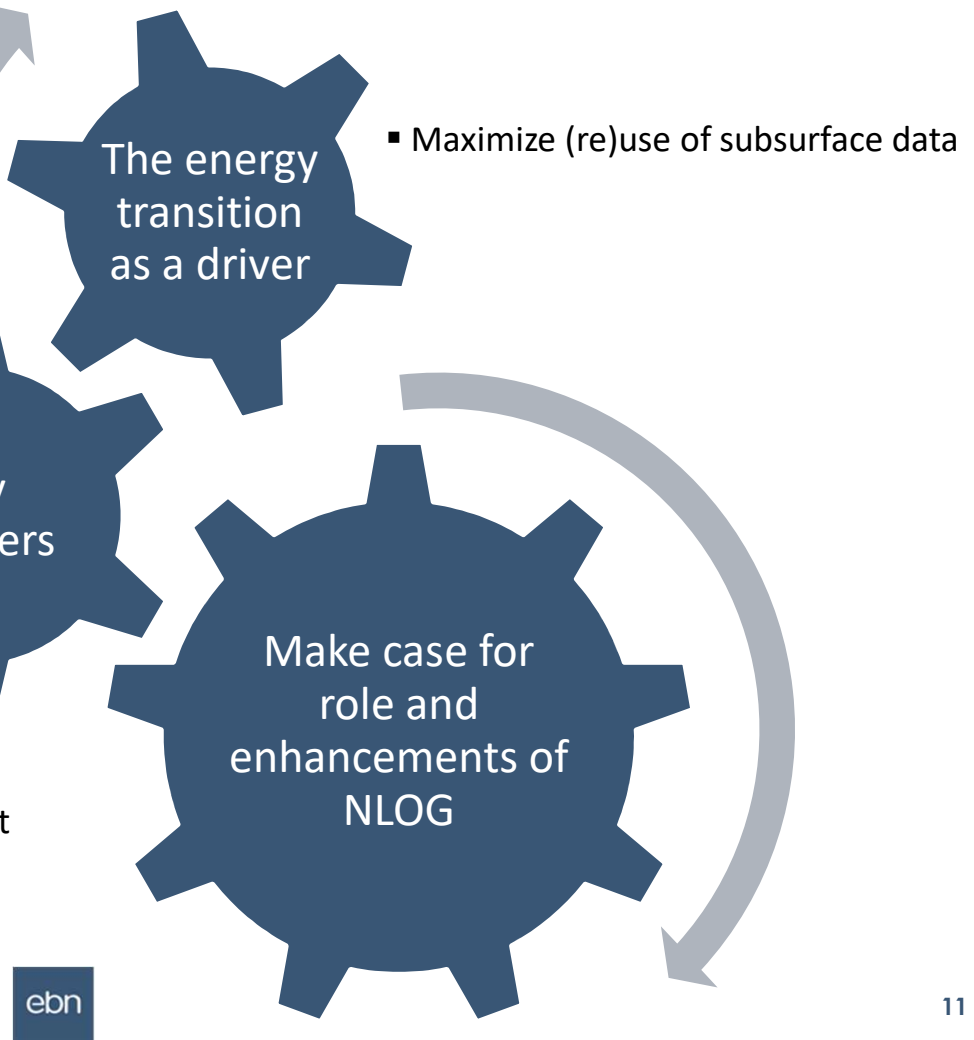


- NLOG as mandatory legal repository of the subsurface data?

Conclusion: Making NLOG a platform for success!

- Redefine and clarify the role of the Dutch NDR (NLOG)
- Industry commitment
- Collaborate across industries
- Jointly identify success factors
- Share best practices

- Cost efficient
- Richer subsurface dataset
- Improved data transfers
- Appropriate data models
- Clear data ownership





energising
the transition

Acknowledgement to my colleagues at EBN and TNO for their inputs.