INGEOKRING

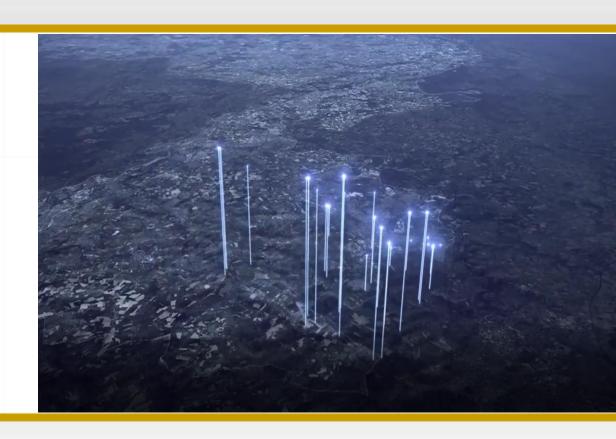
INFORMATIECENTRUM NAZORG STEENKOOLWINNING





CONTENTS

- Informatiecentrum
- Datamanagement
- Monitoring and actionprotocol:Groundwater Quality
- Monitoring Risk Warning System Groundmovement

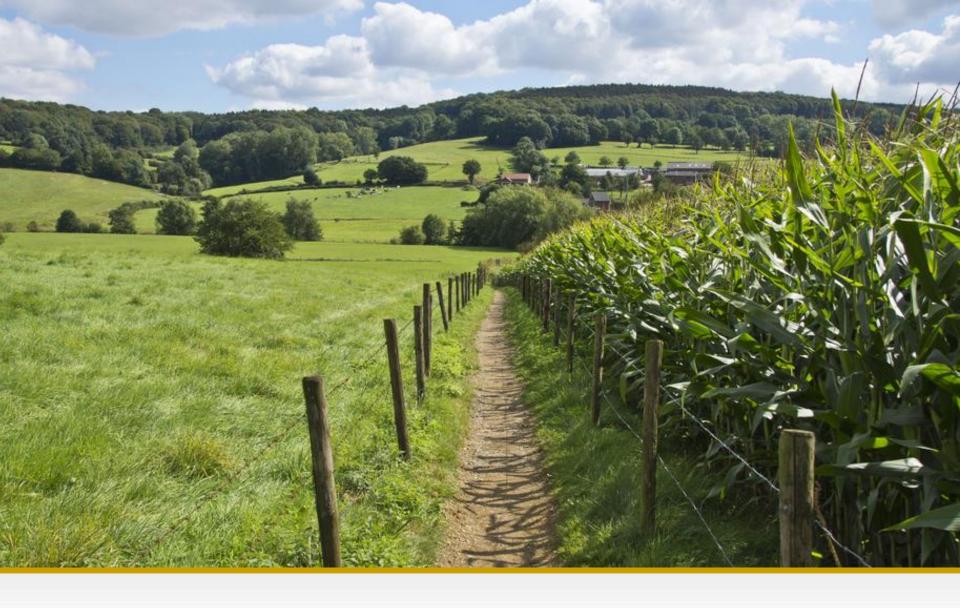














Subsidence 1900-1975





0 - 2,5



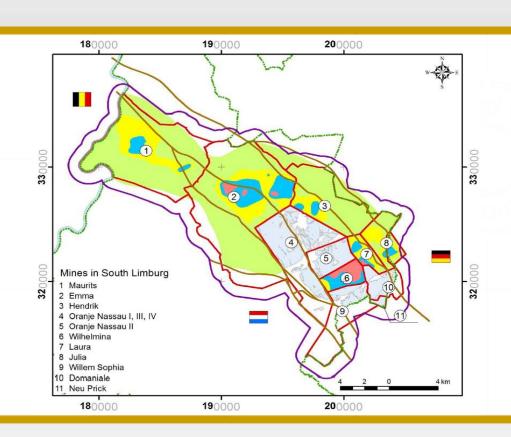
2,5 – 5,0



5,0 - 7,5 7,5 – 10



Unknown





Subsidence 1900-1975









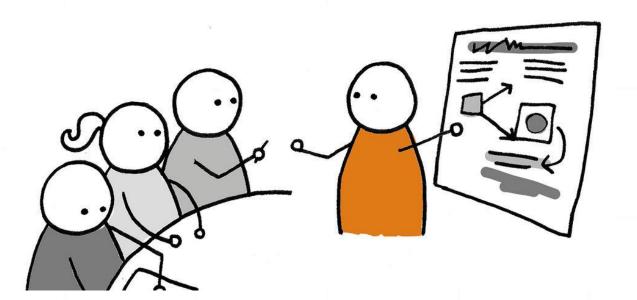
- Redevelopment of mine-sites
- No legal concessor of mine compagnies





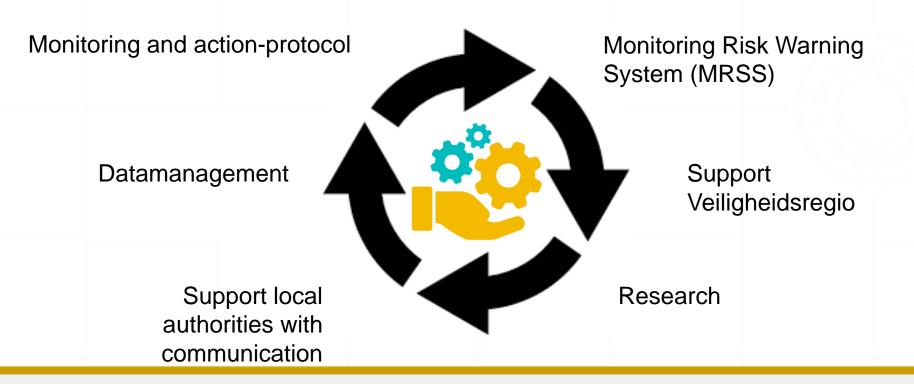
- Legal limitation time for all damage claims is expired
- ▶ When severe damage:
 - Calamiteitenfonds
 - TCCB
- Recommendations IHS and Coal Authority: Centre of expertise.



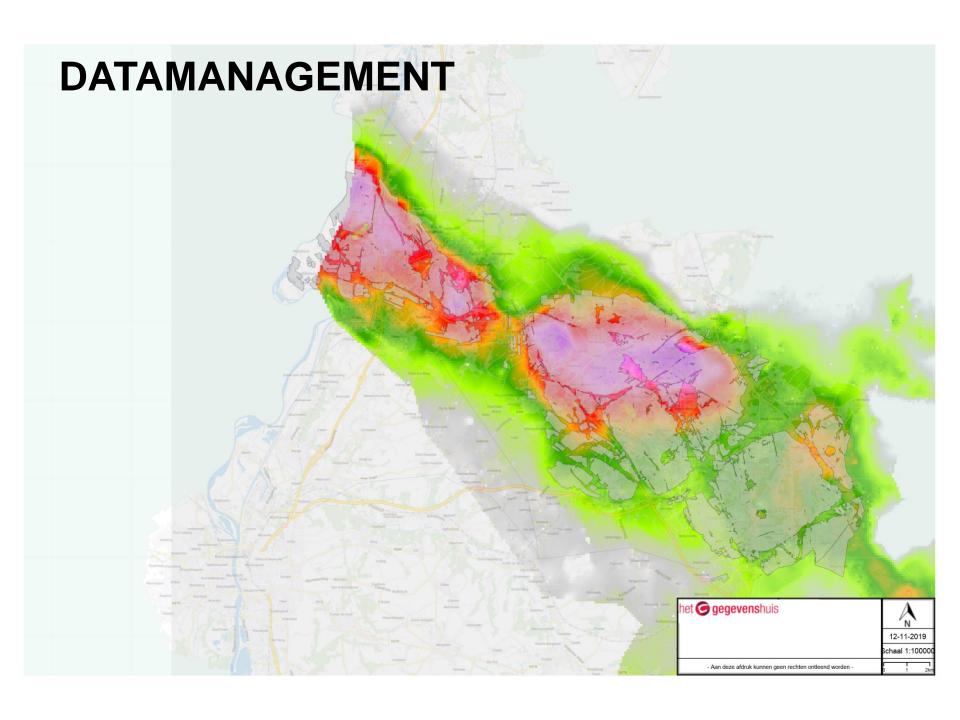


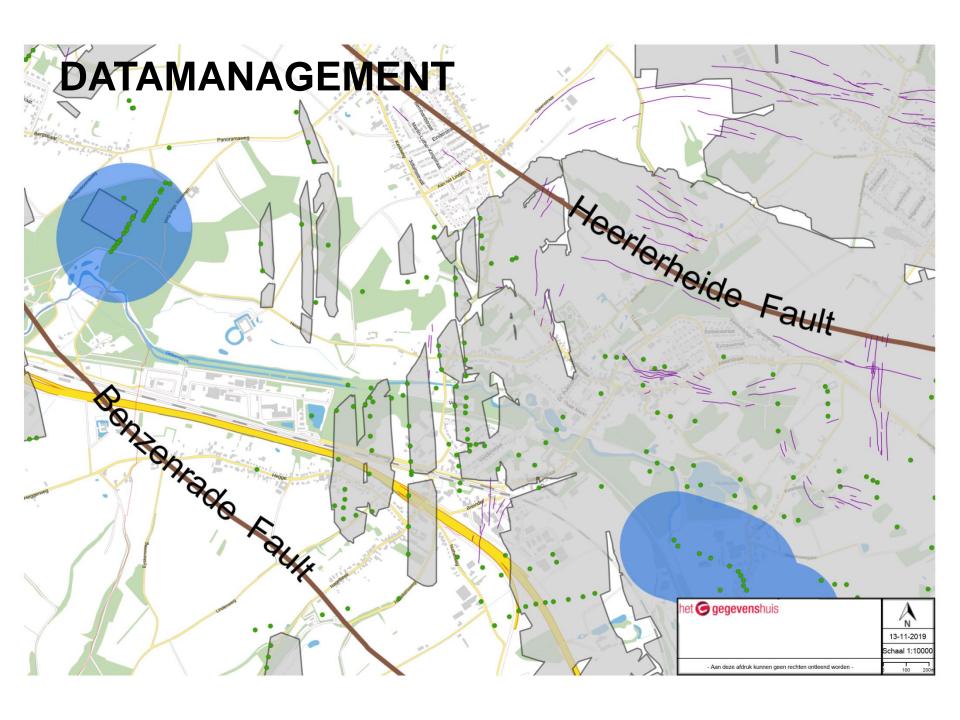
- Support responsible authorities (province, municipalities) with riskmanagement
- Expertteam and 'Gegevenshuis'





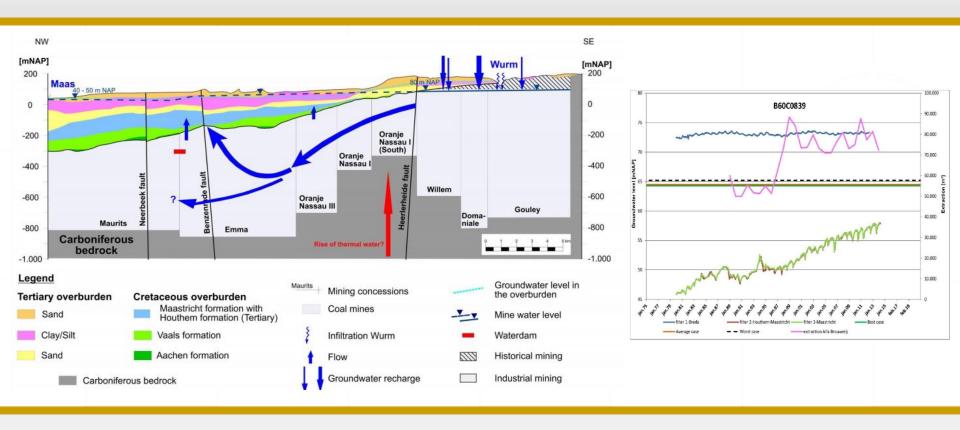




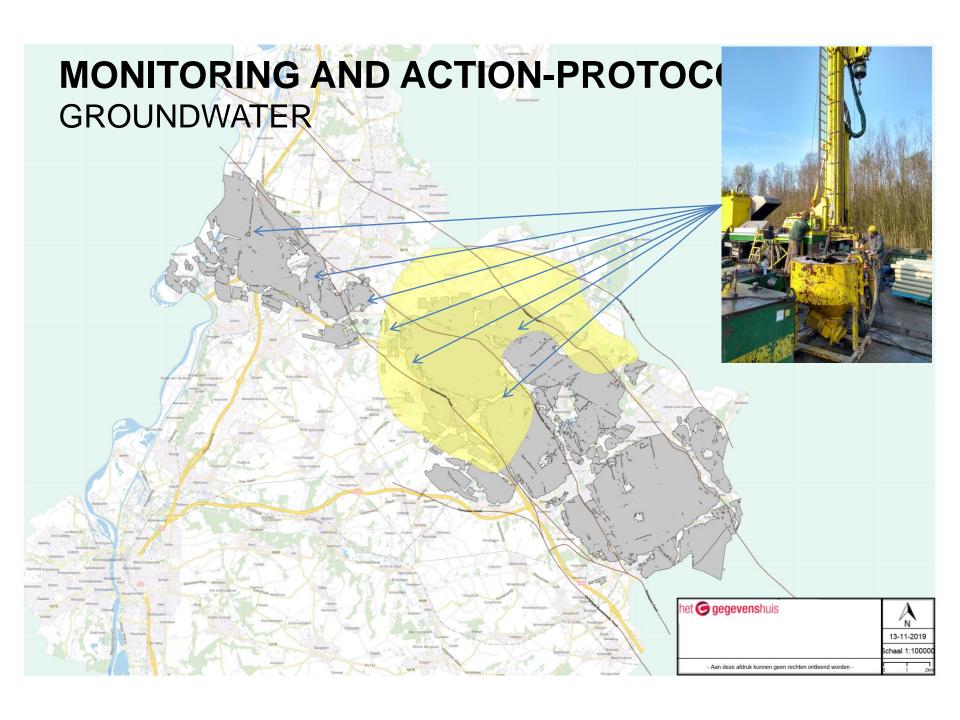


MONITORING AND ACTION-PROTOCOL

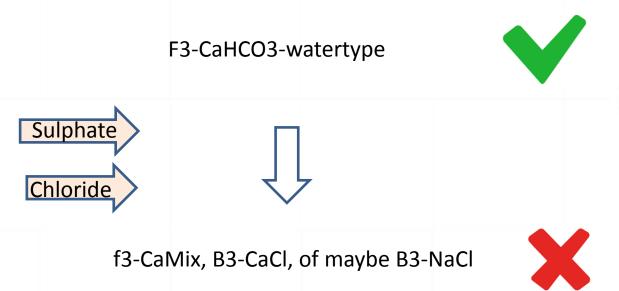
GROUNDWATER





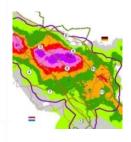


MONITORING AND ACTION-PROTOCOL GROUNDWATER

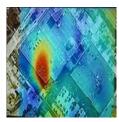




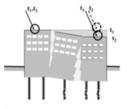
PILOT MRSS GROUNDMOVEMENT



Regional



Local



Strain on infrastructure and buildings

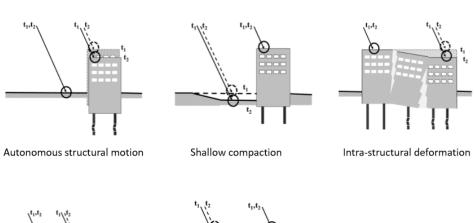


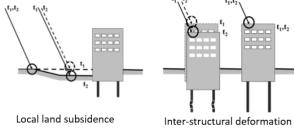






PILOT MRSS GRONDMOVEMENT





(Hanssen & Dheenatayalan, 2019)









SUMMARY

- In 2019 the informationcentre was esthablished
- Main task is to help authorities with riskmanagement
- Develop protocols and warning systems
- In 2020 first evaluation of monitoring program



