GEODE

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ATLAS TO EXPLORE HYDROCARBON OPPORTUNITIES IN THE DUTCH OFFSHORE

Explore in a mature basin

17 November 2022 – Dutch Exploration Day

Acknowledge







GEODE in a nutshell

Joint project of EBN B.V. and TNO to create an atlas to explore hydrocarbon opportunities in the <u>Dutch offshore</u>.

- Easily accessible web-based GIS environment where play-based exploration data such as risk maps and post drill well analysis data is presented for the main hydrocarbons plays of the Dutch offshore.
- Results of this project are made available to the public free of charge.
- Online since November 2021, launched at the Dutch Exploration Day.





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GEODE Project goals

GEODE aims to help to better understand and frame exploration opportunities against the backdrop of regional common risk segment maps with the objective to stimulate exploration activities within the Dutch Offshore.

Consolidate subsurface knowledge (e.g. NLOG, TKI and JIP projects) and make information easily accessible in order to support the identification of the most prospective areas,



used to create common risk segment (CRS)

A Play Based Exploration (PBE) approach is

Historical data is transformed into mappable information and provides an indication on the 'chance of success' of finding reservoir, seal, and source rock for a certain play.

Player software (from GIS-PAX) is used to perform play analyses.



maps.



(Trap)

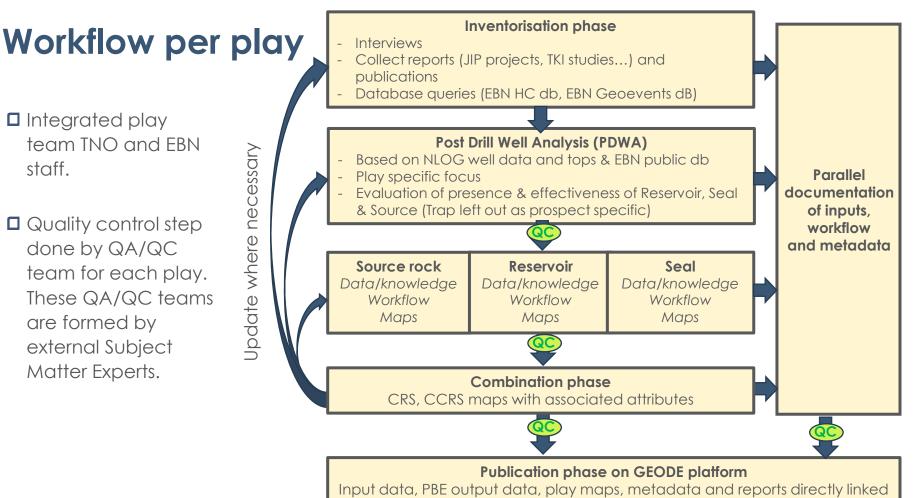
Composite Common Risk Segment map

Composite





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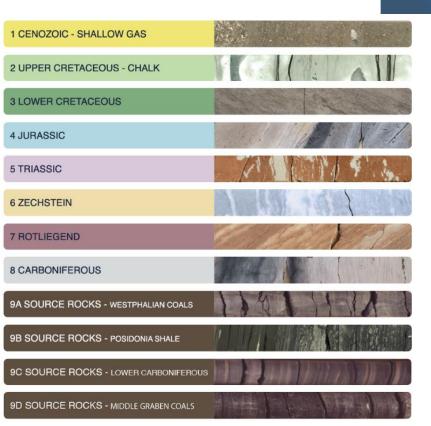
staff.

Selected plays for the Dutch offshore

8 plays and 4 source rock intervals are published.

Light version of the Carboniferous play dashboard, the GIS experience will be added in December 2022.

□ Work in progress!



TNC

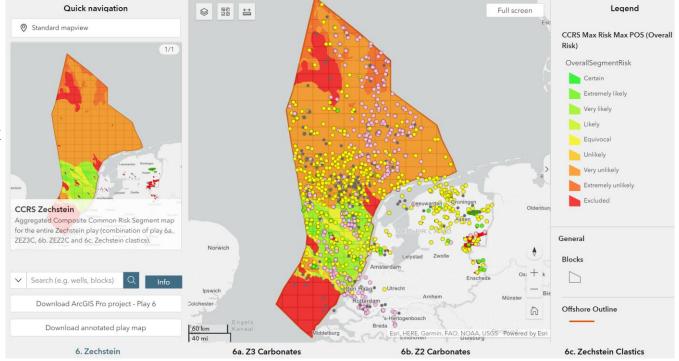
Dutch Exploration Day 2022

Project deliverables per play

- TNO
 - ebn

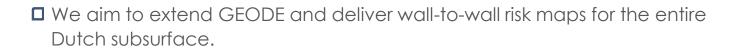
- Post-drill well analysis (PDWA)
- Common Risk Segment maps (CRS)
- Composite Common Risk
 Segment maps (CCRS)
- Annotated play map

□ ArcGIS PRO project



2023 and beyond...

Future directions:



- These risk maps will be dedicated to hydrocarbon, CO2 storage and heat extraction resource evaluations.
- This would be the first atlas of this kind.
- A pilot project to identify and mature GEODE deliverables will start in January 2023. Based on pilot phase outcomes we will progress maturing other dashboards for the various resources as well.



Thanks for your attention





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