



Relatie Decommissioning en Geothermie  
Geothermie in Nederland  
Hoe digitalisatie de businesscase verbetert

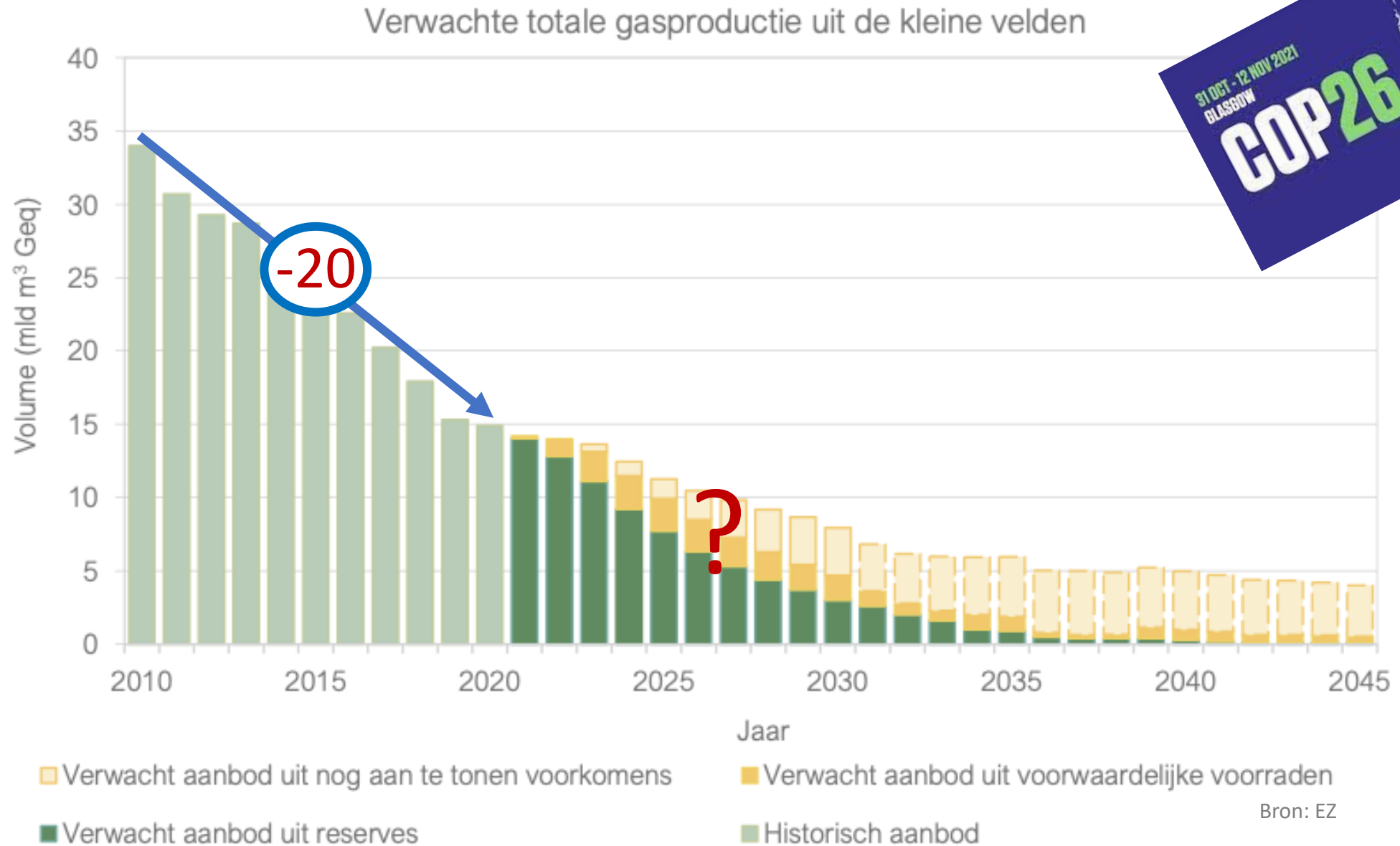
# WellDecommissioned

- Decommissioning Software
- Expert & Analyst Advice

- Offshore platform
- Offshore subsea
- Onshore
- ★ Industry Collaboration (since 2021)

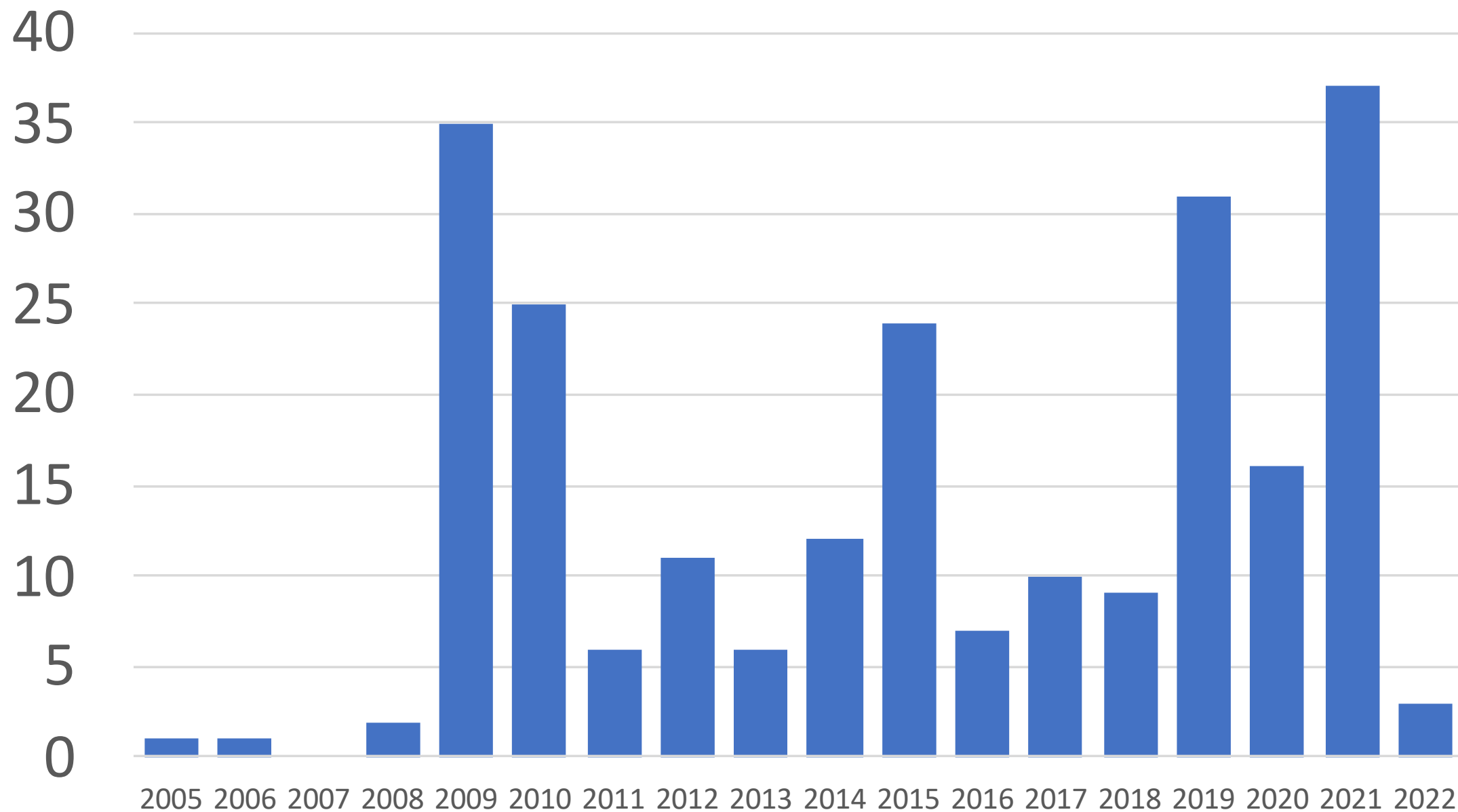
- Impact onderneming
- Opgericht 2017
- Vestigingen: NL, VK

# Geothermie, Now or Never...?



Bron: EZ

# Toegekende vergunningsaanvragen





# Geothermie in Nederland

## RISICO-MANAGEMENT

### Vereisten Groei

NL 2022

|                                 |   |
|---------------------------------|---|
| Geschiktheid Ondergrond         | - |
| Abundant supply chain           | - |
| Innovatieve Kostencultuur       | - |
| Kennisniveau                    | 0 |
| Maatschappelijk Draagvlak       | 0 |
| Organisatie & Markt             | ? |
| Financieringscapaciteit         | + |
| Strategische potentie 5-10 jaar | + |



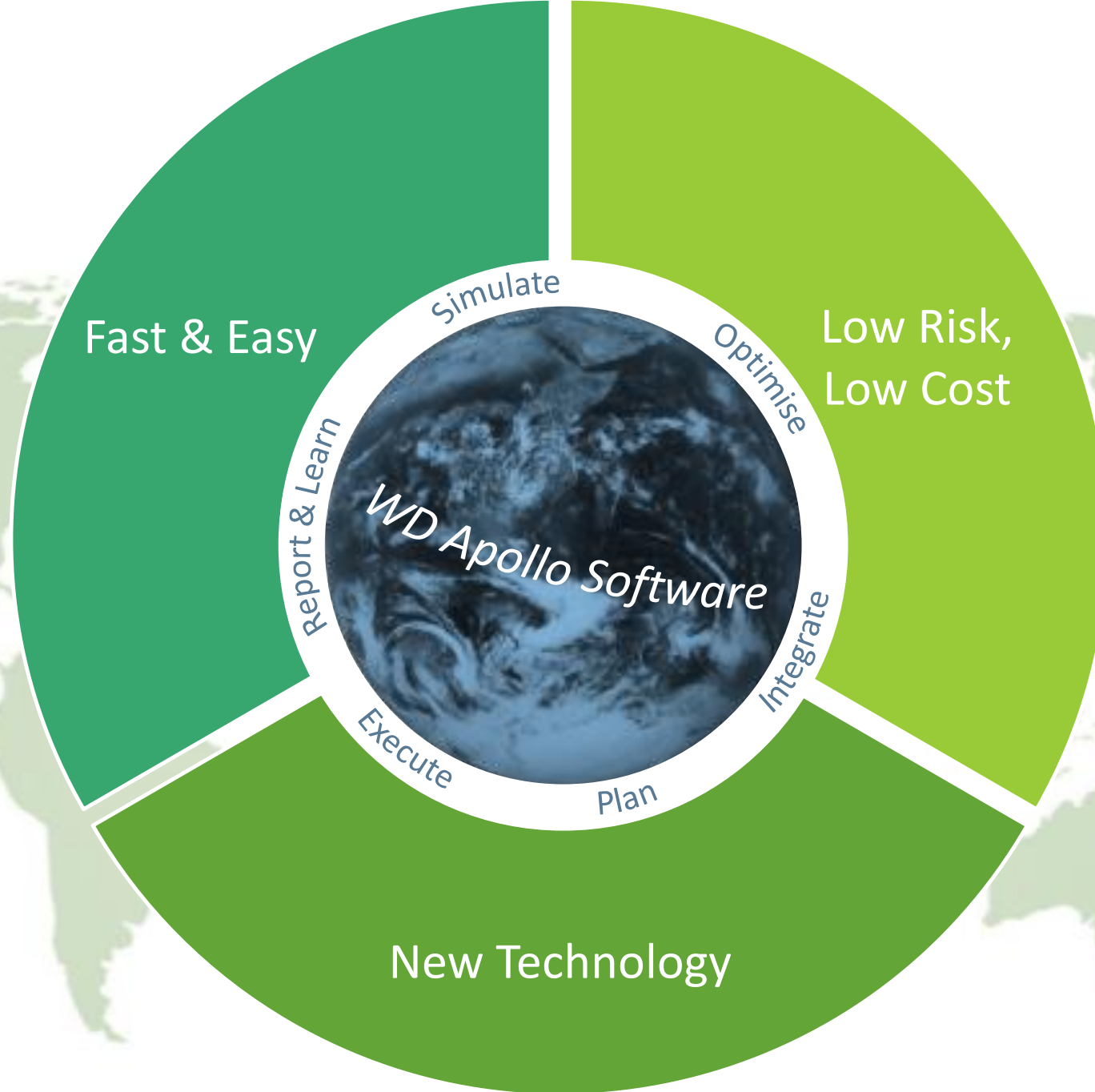
Kosten-focus

Decom...





# Voordelen Digitalisatie



## Apollo – Dynamic Planning using Historic Performance and benchmarks

Chris ten Berge  
Apollo v.7.2

Dashboard

Workbench

Analytics - Plan

Analytics - Actual

Campaign Planning

Database

Import - Actual

Settings

Sign Out





WellDecommissioned

Chris ten Berge  
Apollo v.6

Dashboard

Workbench

Analytics

Database

Settings

Sign Out

Workbench

C001 > S001 - Borr > Logistics & Rigs

Logistics & Rigs

SETTINGS ID

S001 - Borr

P&A GUIDELINES

UK O&G

PORT 1 NAME

Great Yarmouth

PORT 2 NAME

DISTANCE OF PLATFORM FROM PORT 1 (KM)

180

DISTANCE OF P

Save

Back to Checklist

Continue to Action Settings

Logistics Required

| Actions                           | Logistics                                                | Transporter            |
|-----------------------------------|----------------------------------------------------------|------------------------|
| <div><div></div><div></div></div> | Well Supplies (cement, fluids, chemicals, diesel, tools) | Light PSV              |
| <div><div></div><div></div></div> | Well Supplies (cement, fluids, chemicals, diesel, tools) | Standby Vessel         |
| <div><div></div><div></div></div> | Well Supplies (cement, fluids, chemicals, diesel, tools) | Remote Operated Vessel |
| <div><div></div><div></div></div> | Crewchange                                               | Helicopter- 20Pax- S92 |
| <div><div></div><div></div></div> | Other Vessels (i.e. Tugs, Barge), Trucks                 | Tug heavy              |
| <div><div></div><div></div></div> | Other Vessels (i.e. Tugs, Barge), Trucks                 | Tug Light              |

Land hoist on wheels (90t)

Borr Jackup C20051

Land crane + Workplatform + Casing Jack (type confidential)

Compact Rig + TA barge simple (200t crane)

HWU Without snubbing facility High weight (up to150 t)

HWU Without snubbing facility Low weight (up to 75 t)

Compact Rig (excl. Assist Barge)

WIV - AKOFS Seafarer

HWU Unit with Rotation

Land crane + Workplatform (type confidential; normal crew)

DrillMec light hoist (type confidential)

HWU + TA barge medium (300t crane)

Land crane + Workplatform (type confidential; extended crew)

HWU with rotation (onshore only)

Compact Rig + TA barge medium (300t crane)

Crane + workplatform + Casing Jack (Confidential)

HWU + TA barge heavy (DP; 300t crane)

Compact Rig + TA Barge heavy (DP;400t crane)

Land hoist Rack and Pinion (type confidential)

Conventional Land Derrick

Vintage Jackup General

HWU + TA DP Vessel simple (35t crane)

✓ Borr Vintage Jackup (type confidential)

Land Hoist 185t

Vintage Jackup (Minimum Spec)

Hoist Offshore generic

Hoist Offshore Swift10

Compact Rig + TA DP Vessel heavy (200t crane)

WI Vessel with tower and coil

Land Hoist generic

HWU + TA DP Vessel heavy (200t crane)

Compact Rig + TA Barge heavy (DP;300t crane)

HWU + TA Barge simple (200t crane)

DW semi WI Vessel with tower and coil

Compact Rig + TA DP Vessel simple (35t crane)

Input

Settings

Worksequence

Output

N-PRODUCTIVE TIME (NPT)

1

WAITING ON WEATHER (WOW)

0.2

PORT 3 NAME

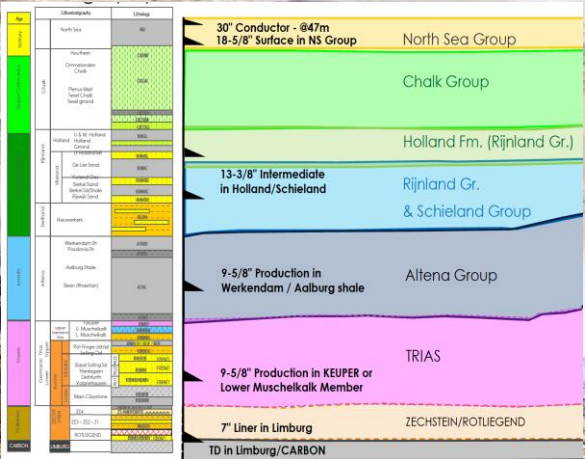
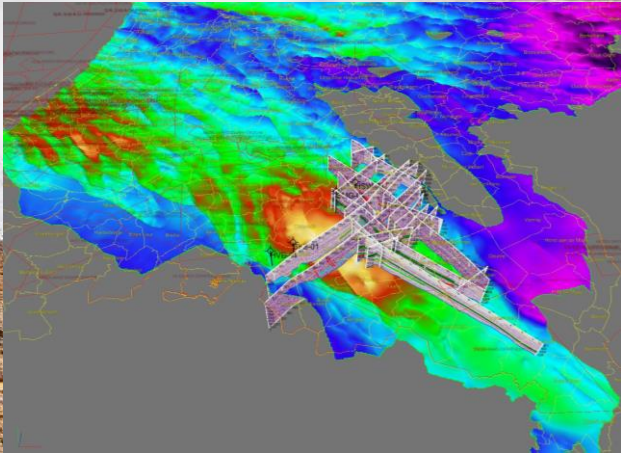
DISTANCE OF PLATFORM FROM PORT 3 (KM)

|  | ity | # of trips | Remarks | Loading & unloading time (hr) | Port of (un)loading |
|--|-----|------------|---------|-------------------------------|---------------------|
|  |     | 3          |         | 6                             | Great Yarmouth      |
|  |     | 1          |         | 139                           | Great Yarmouth      |
|  |     | 1          |         | 139                           | Great Yarmouth      |
|  |     | 10         |         | 1                             |                     |
|  |     | 2          |         | 0                             | Great Yarmouth      |
|  |     | 2          |         | 0                             | Great Yarmouth      |

# Geothermie: Upstream Project Stadia



## Integrated Project Management

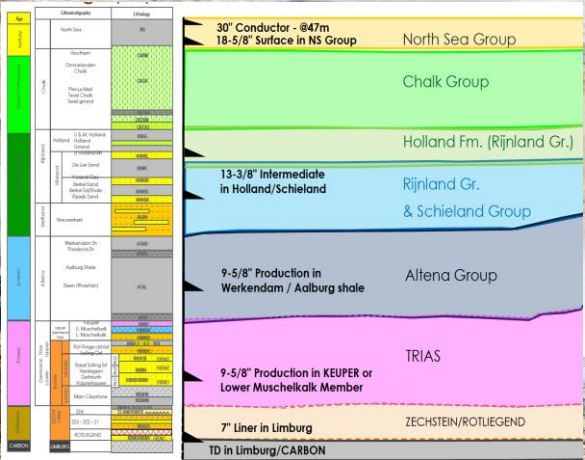
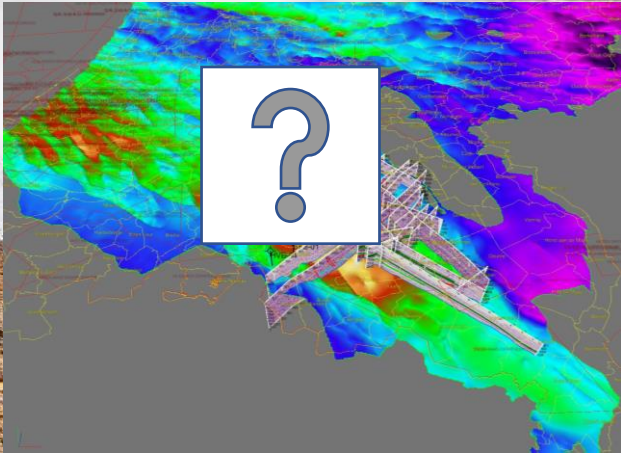




# Geothermie: Upstream Project Stadia



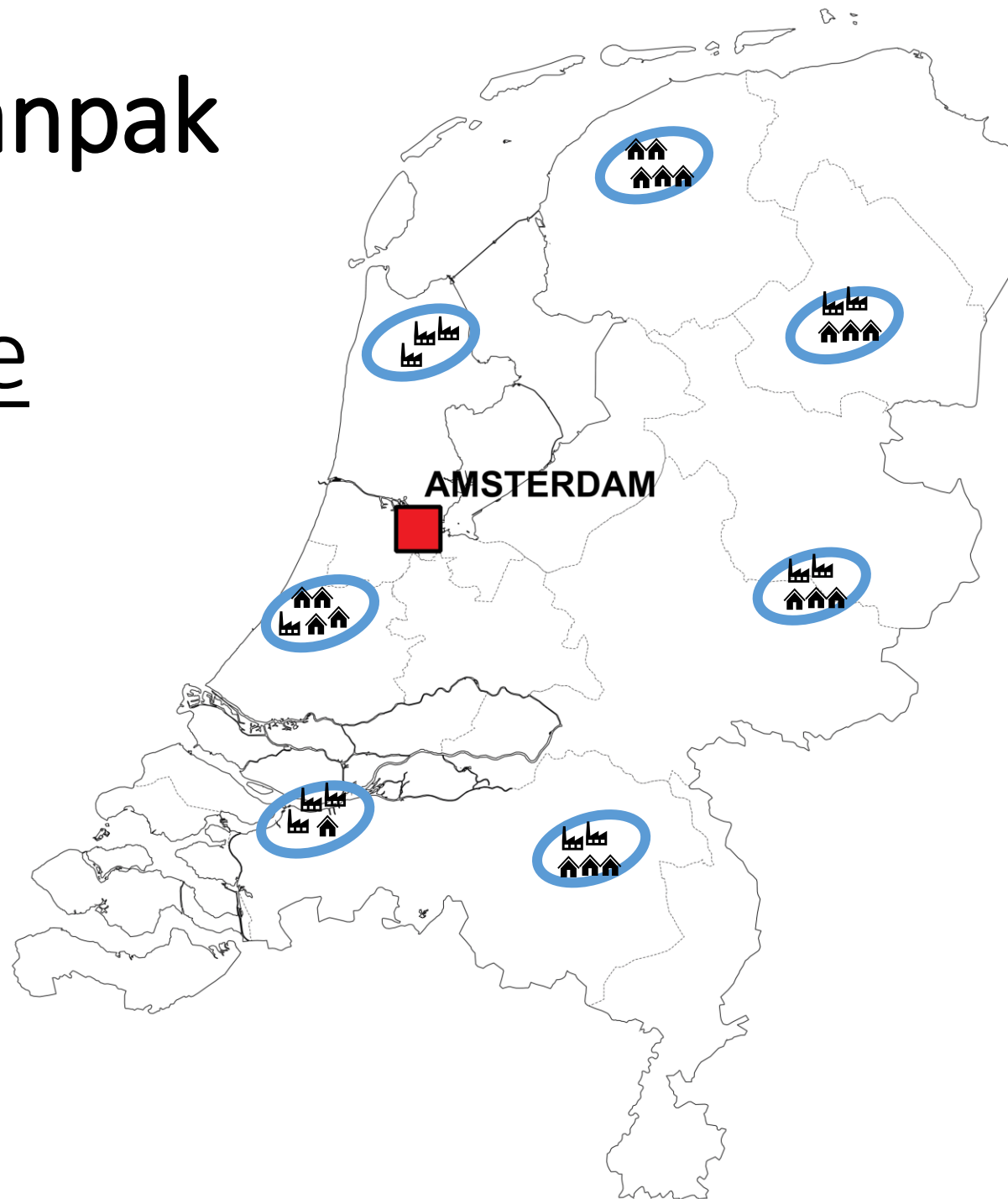
## Integrated Project Management





# Clusteraanpak

## Integratie



# Aanpak voor Geothermie in Nederland

I = Integratie &  
Portfolio

D = Digitalisatie

RISICO-MANAGEMENT

## Vereisten Groei

NL 2022

Geschiktheid Ondergrond

I

Abundant supply chain

I

Innovatieve Kostencultuur

D

Kennisniveau

D

Maatschappelijk Draagvlak

I

Organisatie & Markt

I

Financieringscapaciteit

I

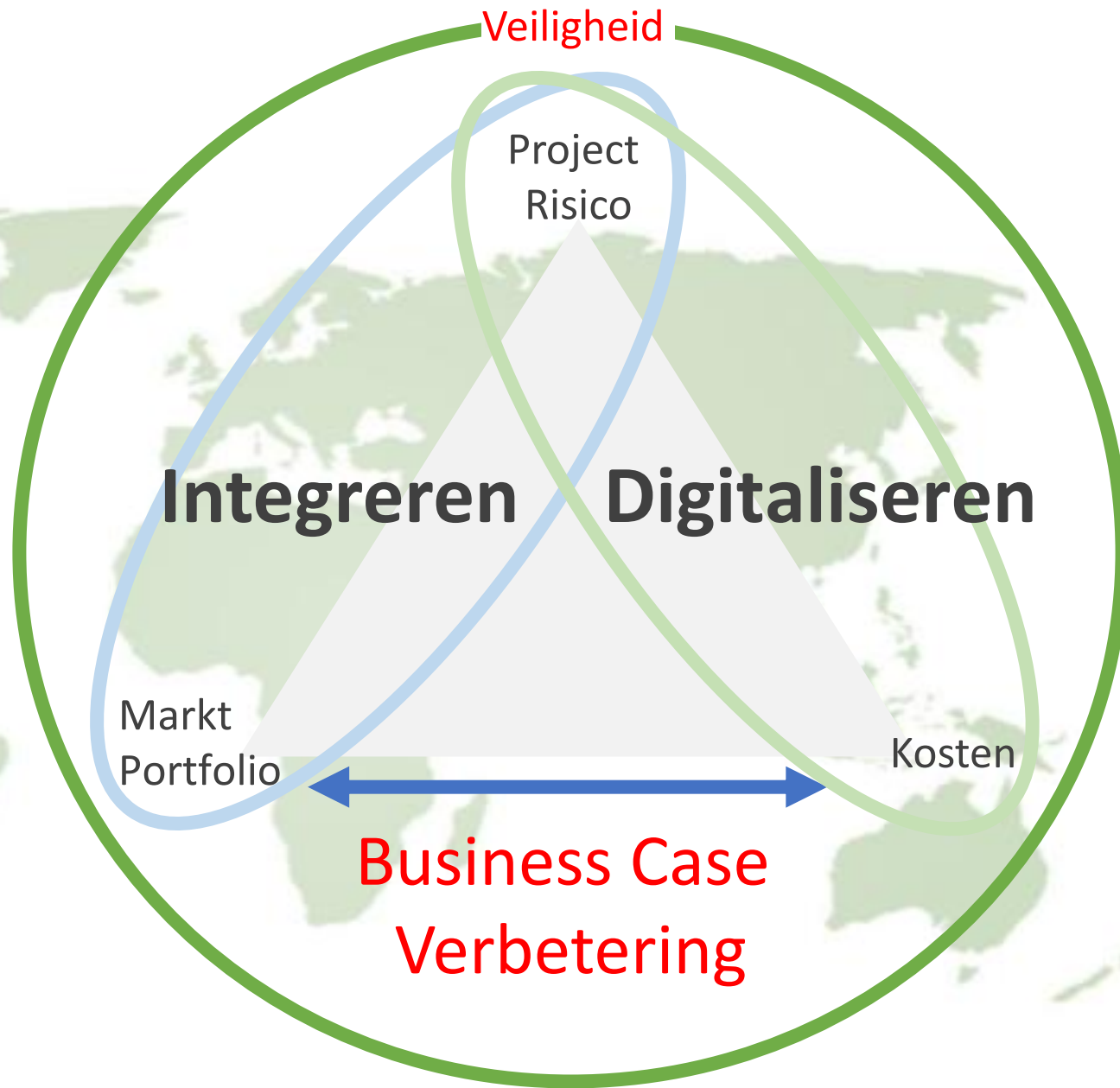
Strategische potentie 5-10 jaar

D



# Upstream Succesfactoren

Geothermie



**WellDecommissioned**  
*Making Re-use and Decommissioning a commodity*



 **CLEAN ROCK ENERGY**  
*Expediting Geothermal Developments*



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**KIVI**  
Engineering Society  
**Prince Friso Award**  
2020 Top-9

  
**Net Zero  
Technology  
Centre**  
Technology Driving Transition  
2021 Grant Award



**The Hague  
Innovators**  
2020 Finalist