

Maak Re-use & Decommissioning gemeengoed



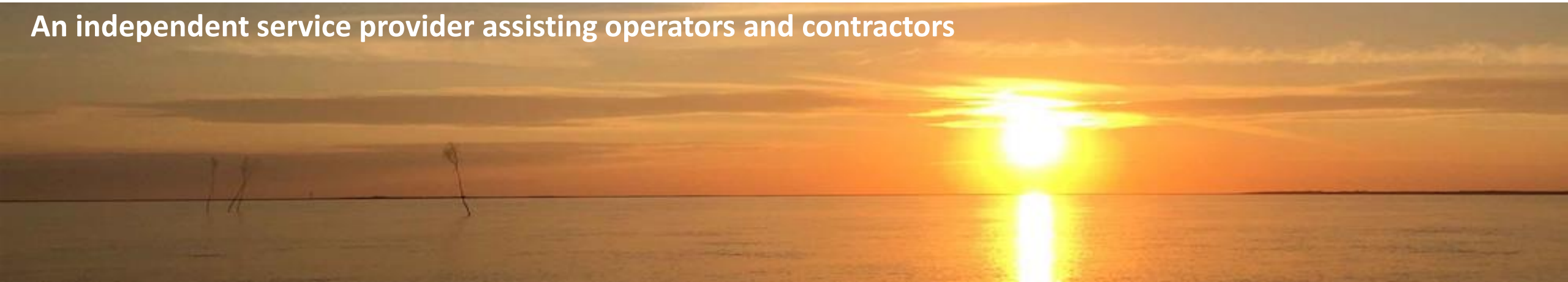
Marc Nijmeijer

WellDecommissioned
Managing Director

WellDecommissioned



An independent service provider assisting operators and contractors



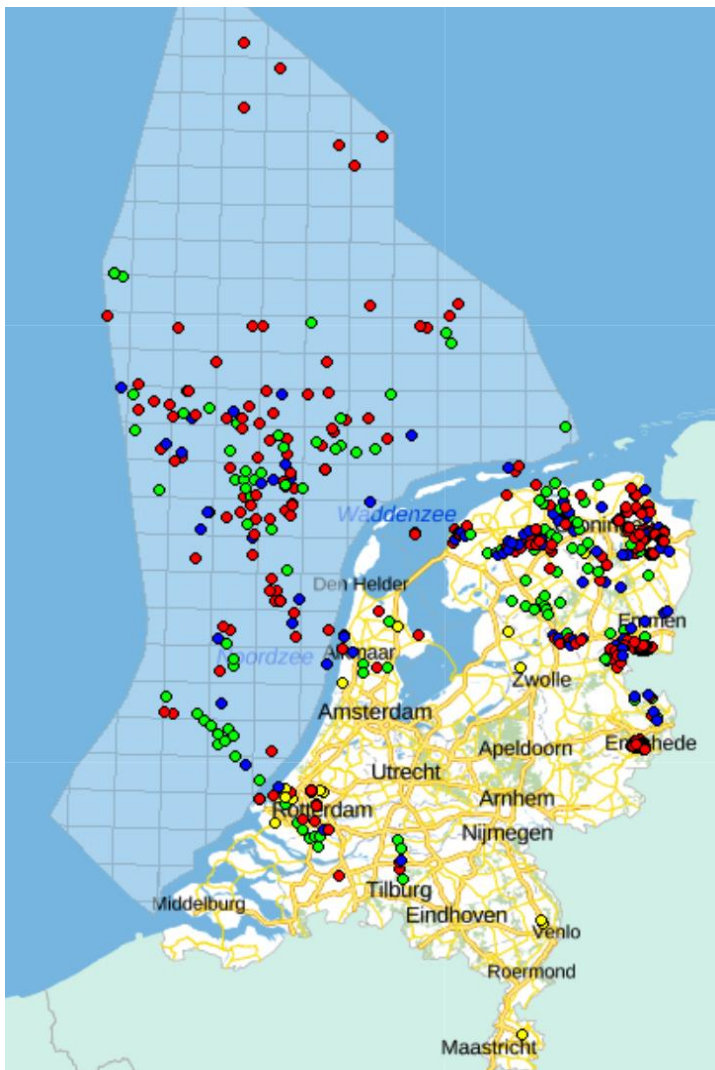
www.welldecommissioned.com

Safety & Quality

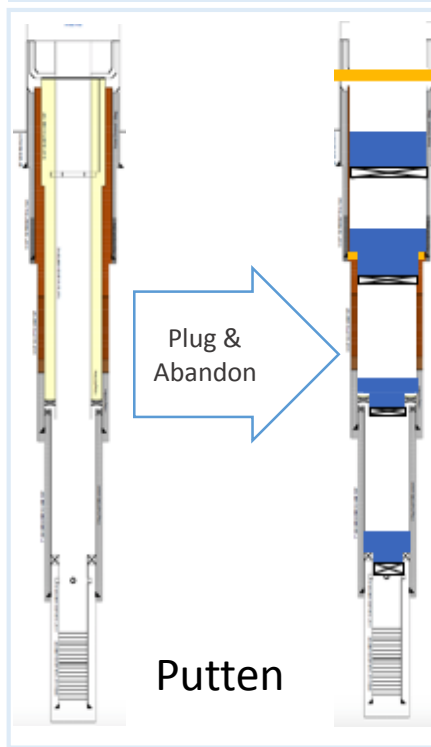
Hoeveel olie- en gasputten
zijn er wereldwijd?



Re-use & Decommissioning – facts & figures



Platforms, leidingen



Aantal olie en gas putten

Regio/land	# Putten
Nederland	1.800
Verenigde Staten	1.000.000

Decommissioning kosten

Regio/land	EUR mrd
Nederland	7
UK	66



Aantal Amerikaanse Putten en Productiviteit

wells

1,200,000

1,000,000

800,000

600,000

400,000

200,000

2000

2002

2004

2006

2008

2010

2012

2014

2016

Production rate brackets
(BOE/well/day)

- > 12,800
- 6,400 - 12,800
- 3,200 - 6,400
- 1,600 - 3,200
- 800 - 1,600
- 400 - 800
- 200 - 400
- 100 - 200
- 50 - 100
- 40 - 50
- 30 - 40
- 25 - 30
- 20 - 25
- 15 - 20
- 12 - 15
- 10 - 12
- 8 - 10
- 6 - 8
- 4 - 6
- 2 - 4
- 1 - 2
- 0 - 1

80%

35%

Source: U.S Energy Information Administration



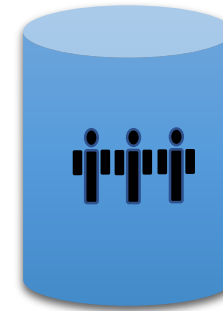
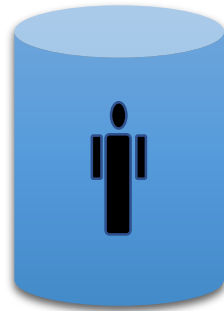
Uitstel van Decommissioning

- Hoge kosten, geen opbrengsten
- Complex
- Wachten - Technologie
- Wachten - Hergebruik





Tijdig uitvoeren waardevol



Alles opruimen wereldwijd.
Wat werkt het beste?



Betaalbare Re-use & Decommissioning

- Technologie
- Wet & regelgeving
- Leren van elkaar
- Schaalvergroting

En vooral ook...

- Cultuurverandering
- Doen



Maatwerk

599,-



Standaard,
Fit-for-purpose



NIEUWE
VERLAAGDE
PRIJS

01

BILLY
boekenkast 49.95

39.⁹⁵



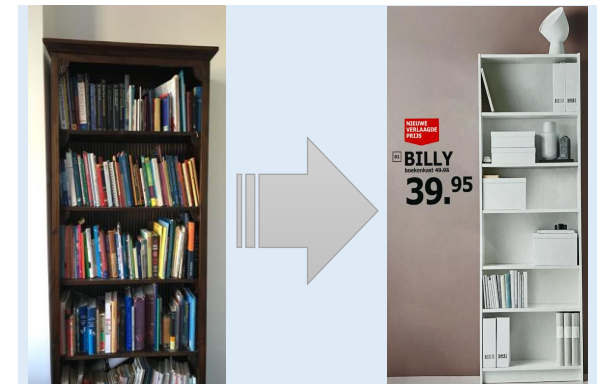


Wat IKEA ons leert

- Verlaag risico-profiel
- Bereid grondig voor
- Bepaal interface consistent
- Simplificeer
- Standardiseer

Gemeengoed:

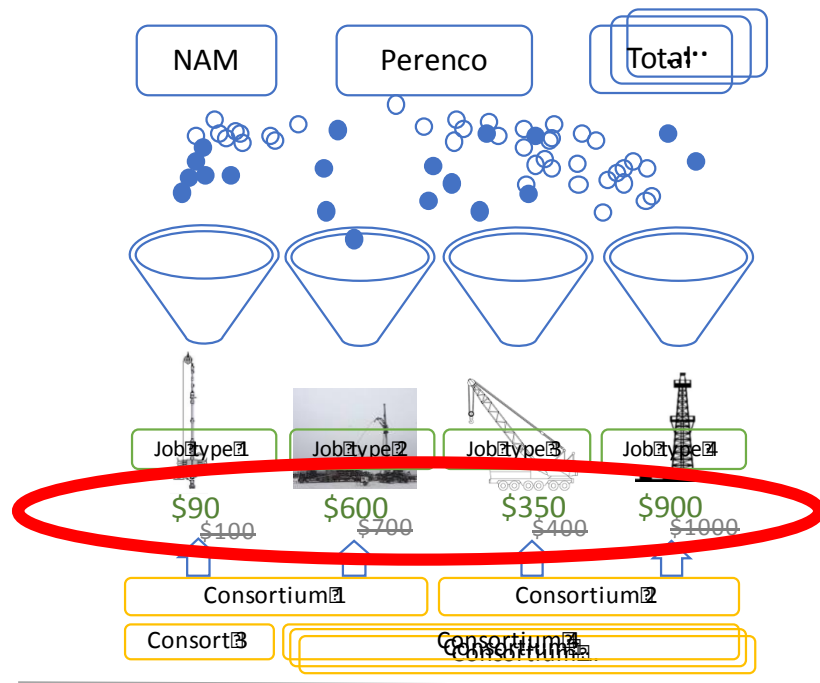
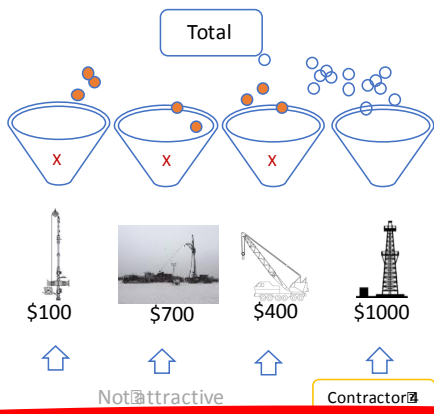
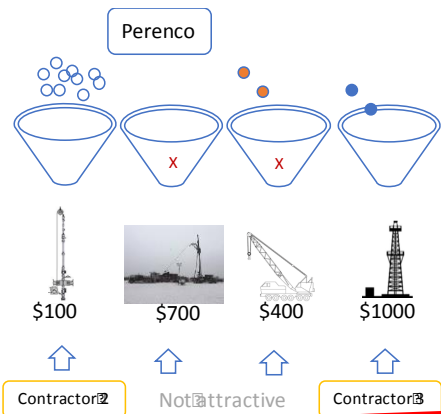
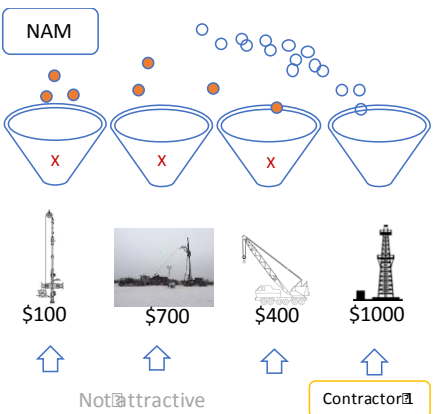
- Betrouwbaar
- Veilig
- Efficiënt
- In ruime mate beschikbaar





Van maatwerk & standalone naar gemeengoed

1. Standardiseer
2. Aggregeer



Job Sequence	2017	2018	2019	2020	2021	2022
NAM						
Rig 1						
Rig 2						

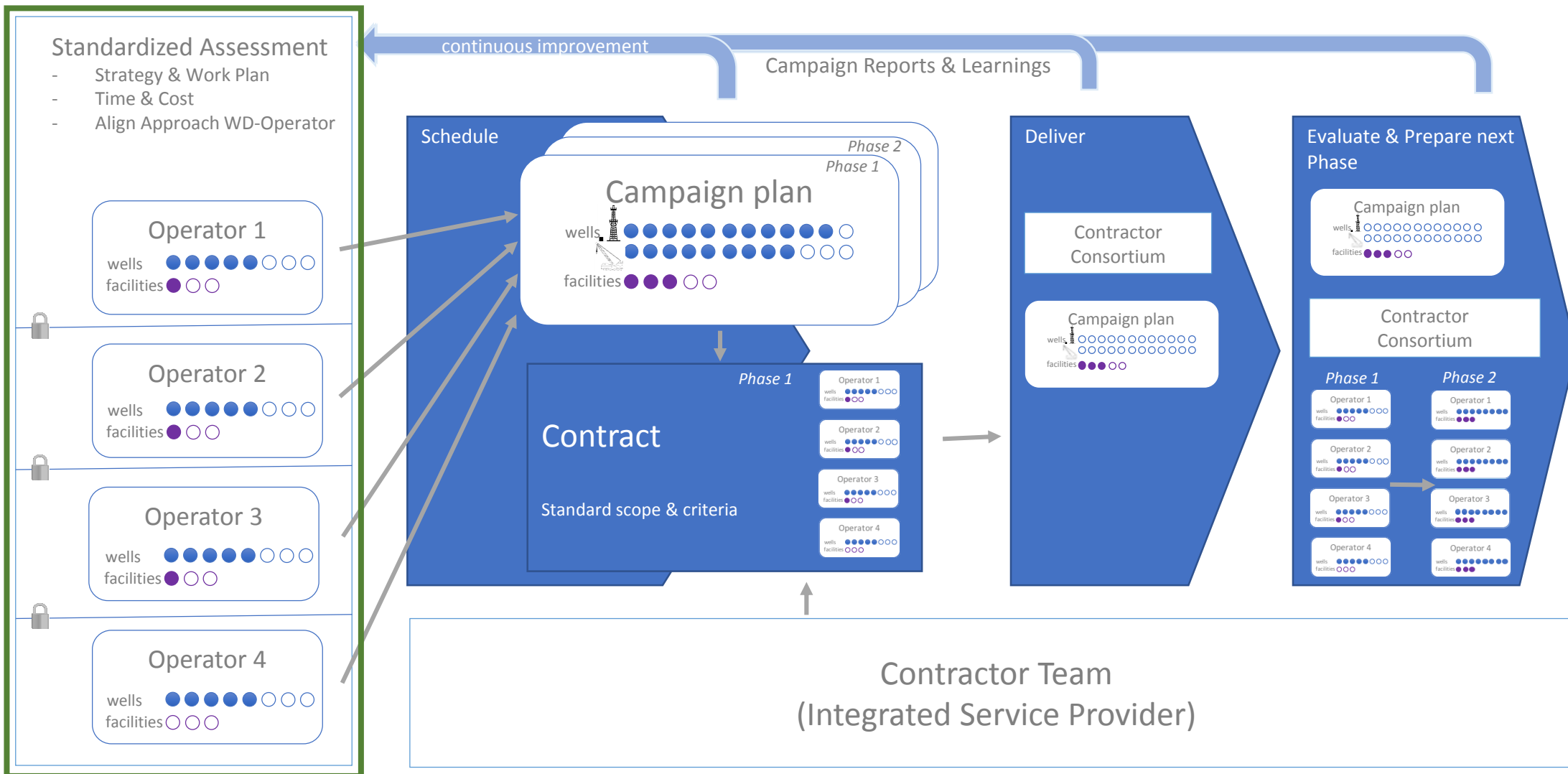
Job Sequence	2017	2018	2019	2020	2021	2022
Perenco						
Rig						
Wireline						

Job Sequence	2017	2018	2019	2020	2021	2022
TOTAL						
Rig 1						

Job Sequence	2017	2018	2019	2020	2021	2022
Combined Scope						
Wireline						
CTU						
Hoist & Crane						
Rig						



Hoe een gestandaardiseerd project er uit kan zien



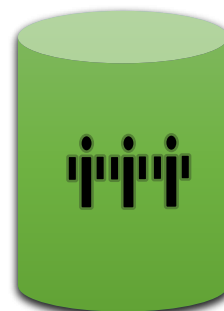
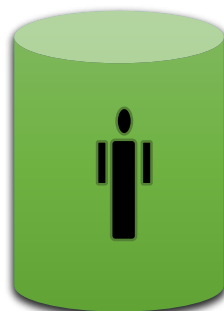
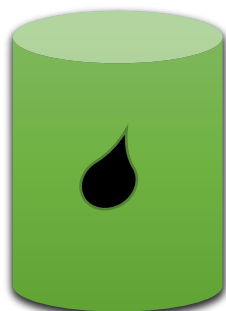
Wat is de belangrijkste kans van
'gemeengoed' voor contractors?



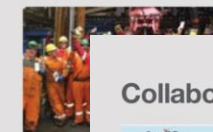
Markontwikkelingen

1. Vergroten eigen batch-omvang
2. Gezamenlijk contracteren
3. Gezamenlijk uitvoeren
4. Turn key
5. Lump sum

■ Standaardisatie
■ Aggregatie



Brent field wells P&A



Average Rig Days to P&A

Collaborating on wells P&A



Shell su
campai
of sche
the Bre
of origi
based
transpa
technol
in-dept
plannin
with oth
collabo
integrat
contrac

ConocoPhillips and Spirit Energy collaborated on a joint wells P&A campaign in the SNS, minimising costs through sharing of knowledge and expertise. Using one jack-up rig to P&A wells on the subsea template meant significant savings were realised on the rig move, interface and Dive Support Vessel (DSV) costs. Efficiencies were also realised through batch operations across the wells, enabling full P&A to be completed 40% ahead of AFE duration estimates.

(Bron: UK Oil & Gas Authority)



Collaborate with us to make removal of Oil & Gas assets a commodity.