

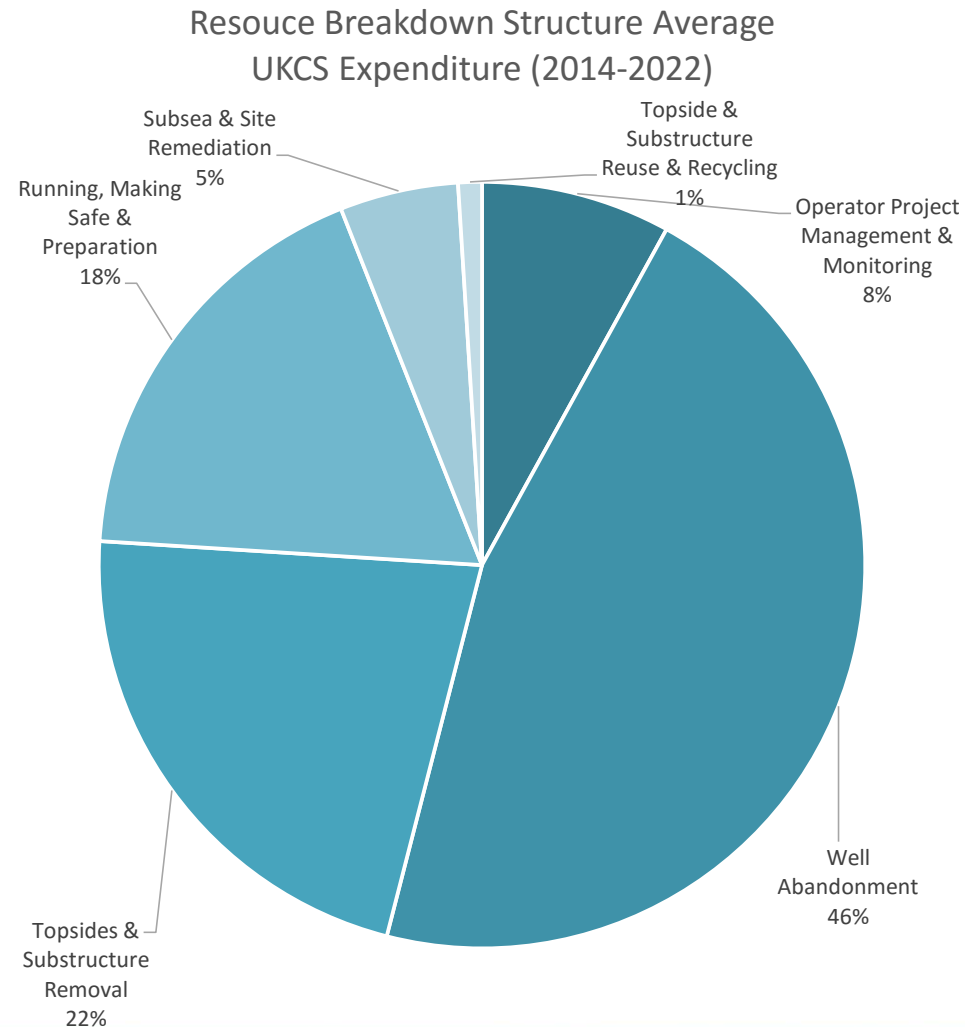


# **Decommissioning Campaigns Past, Present and Future**

A Changing Market

# Past, Present and Future

- UK Continental Shelf Decommissioning experience is relatively limited
- Total scope of work is vast: GBP 30-35bn until 2040
- Platforms are the largest part after P&A



# **Looking Back: MCP-01 and the Frigg Project**

# Frigg History

- 1971 Discovery of the Frigg Field announced
- 1973 Failed installation of DP1 platform
- 1974-77 TP1, QP, CDP1, TCP2, DP2, DP1, MCP-01 installed
- 1977 Pipeline completed, MCP-01 operational
- 2003 Frigg decommissioning plan approved
- 2004 Frigg ceases production, MCP-01 isolated
- 2005-2007 DP1 steel jacket wreck, DP2, TCP1 and TP1 topsides removed
- 2006-8 MCP-01 topsides removed (piece-small)
- 2008 DP2 steel jacket removed by refloating
- 2008 QP topsides and part of CDP1 topsides removed
- 2009 CDP1 topsides, QP steel jacket, TP1 MSF removed
- 2010 All remaining debris removed and project completed.









# Frigg Costs

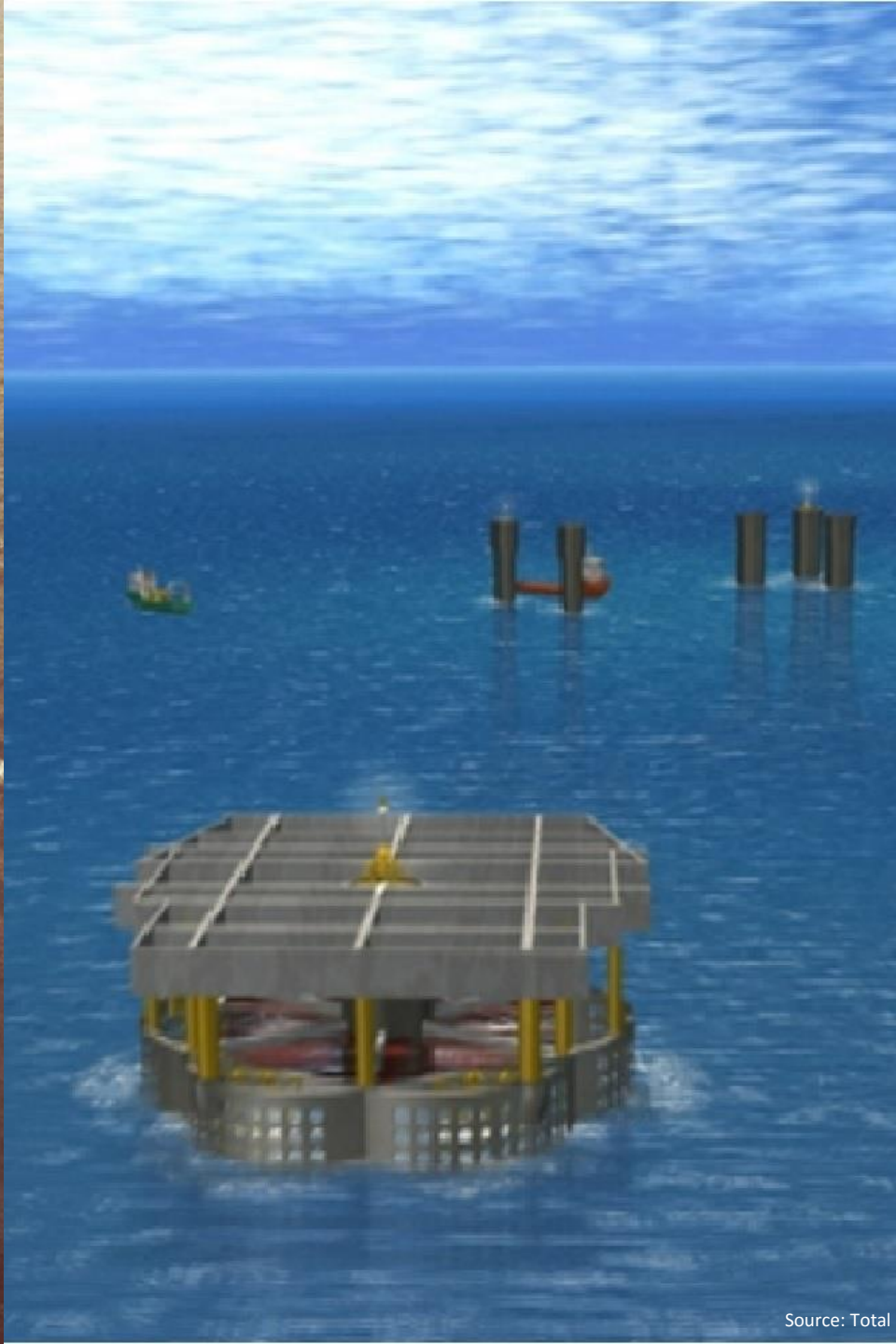
	Cessation Plan '02	Cessation Plan '02	Cessation Budget '04	Final Cost
	MGBP in 2002 value	MGBP in 2010 value	MGBP in 2010 value	MGBP in 2010 value
Cost for Removal and Disposal of the Norwegian Facilities				
Platform TCP2	55.4	64.9	98.1	109.2
Platform DP2	53.3	62.5	68.6	84.4
DP1 Wreck	25.2	29.6	53.4	43.9
Pipelines & cables	4.9	5.7	11.5	9.1
Seabed clean up	2.8	3.2	3.7	4.7
Sum	141.6	165.9	235.5	251.3
Cost for Removal and Disposal of the UK Facilities				
Platform QP	42.1	49.4	58.3	77
Platform TP1	27.4	32	45	64.7
Platform CDP1	45.3	53.2	48.1	48.1
Pipelines & cables	7.4	8.7	17.2	13.6
Seabed clean up	2.5	2.8	3.1	3.8
Sum	124.7	146.1	171.7	207.2
TOTAL (MGBP)	266.3	312.0	407.2	458.5







Source: University of Aberdeen



Source: Total

# Looking Forwards: Brent

# Brent Field

 This image cannot currently be displayed.



# Brent History

- 1972 Discovery of the Brent Field announced
- 1975 Brent B installed
- 1976 Brent D, Brent A jacket and Brent Spar installed
- 1978 Brent A topsides and Brent C installed
- 1993-6 Brent Redevelopment Project
- 1995 Brent Spar Decommissioned
- 2005 Brent Decommissioning Project starts
- 2010 Brent D Topsides prep contract awarded to PSN
- 2011 Brent D production ceases
- 2013 Brent D topsides heavy lift contract awarded to Allseas
- 2014 Brent D topsides onshore disposal awarded to Able UK
- 2014 Brent A and B cease production
- 2015 Brent Delta topsides removal plan approved by OGA

# Game-Changing Superships

# Pioneering Spirit



Image: Allseas



# Twin Marine Heavylift



# New Heerema Vessel - Sleipnir



# **The Rise of Small Accommodation Providers**



# Rise of Small Accommodation Providers

- Limited number of large floatels
- Cumbersome to relocate
- Older builds/lower standards
- Limited suppliers
- Flooded market of offshore light construction / subsea IMR vessels
- Recent builds
- Flexible capabilities
- Many suppliers



Image: Ampelmann





Image: Marine Aluminium





Image: Uptime

# Onshore Sites



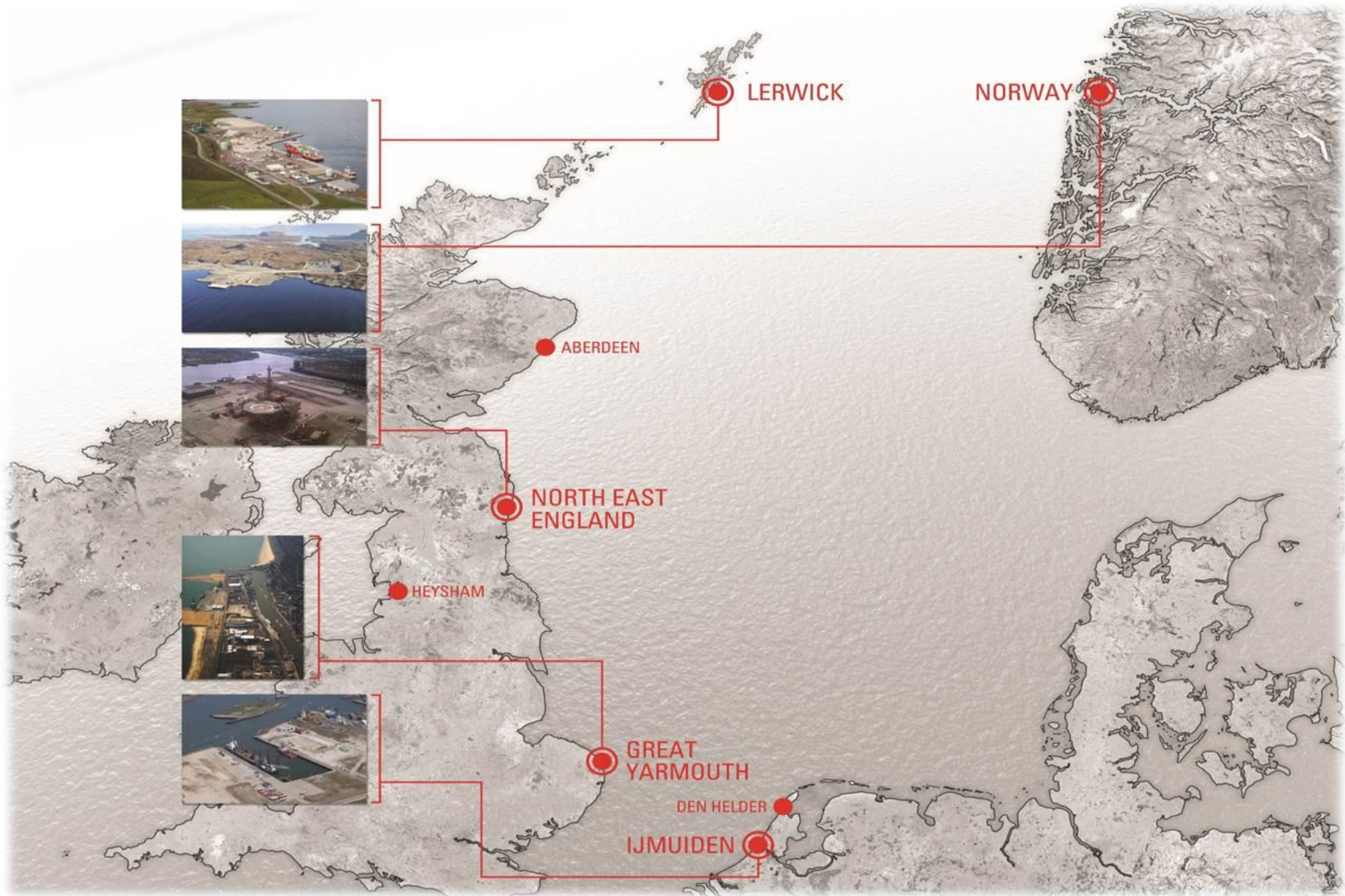


Image: Shetland Decommissioning





Image: Lerwick Port Authority

# Decommissioning Campaigns Past, Present and Future

- UKCS decommissioning scope is vast, but manageable in smaller pieces.
- Decommissioning progress is still slow, but in a much better position to increase.
- Much more information is now available for planning & estimating.
- Investments in new vessels made in 2013/14 are now arriving in the market.
- Increasing options on removal methodology.
- Increasing options on onshore disposal sites.
- Better prepared than ever before!



The background is a teal-colored image featuring a bright, circular light source in the upper center, creating a lens flare effect. Numerous water bubbles of various sizes are scattered throughout the scene, particularly concentrated on the left and bottom right, giving it a dynamic, aquatic feel.

# Thank you

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