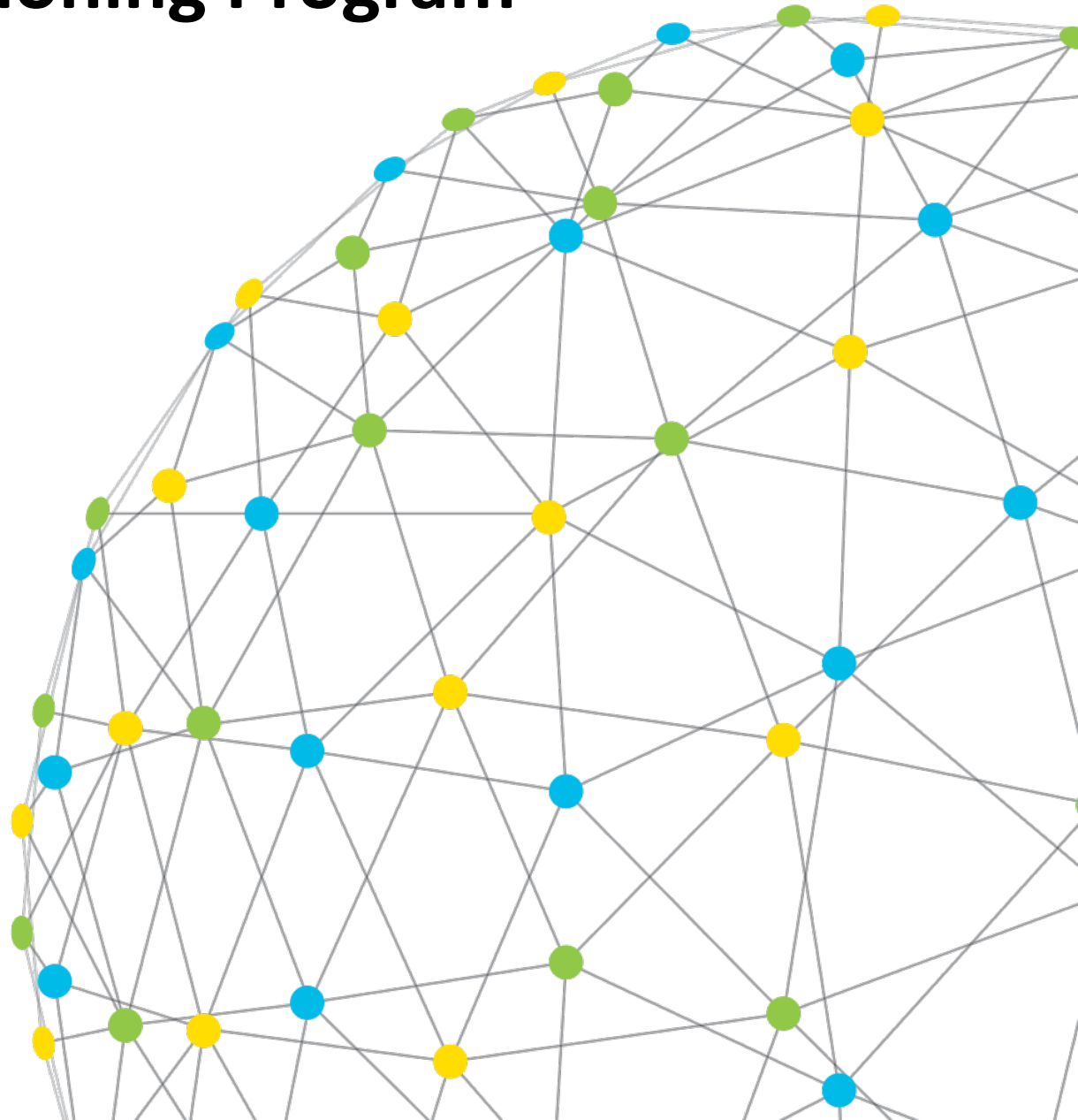


# ITF Decommissioning Program

23<sup>rd</sup> August 2016





# ITF Overview





# ITF Overview

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- A not-for-profit organisation owned by our members
- Formed in 1999 - more than 200 Joint Industry Projects (JIPs) launched
- 12 current Joint Industry Projects (JIPs) - direct member investment of circa £7m
- Our Purpose:
  - *Create value for our members by facilitating collaborative technology development and deployment within the global oil and gas industry*

# Current ITF Members



# Well P&A Theme Drivers

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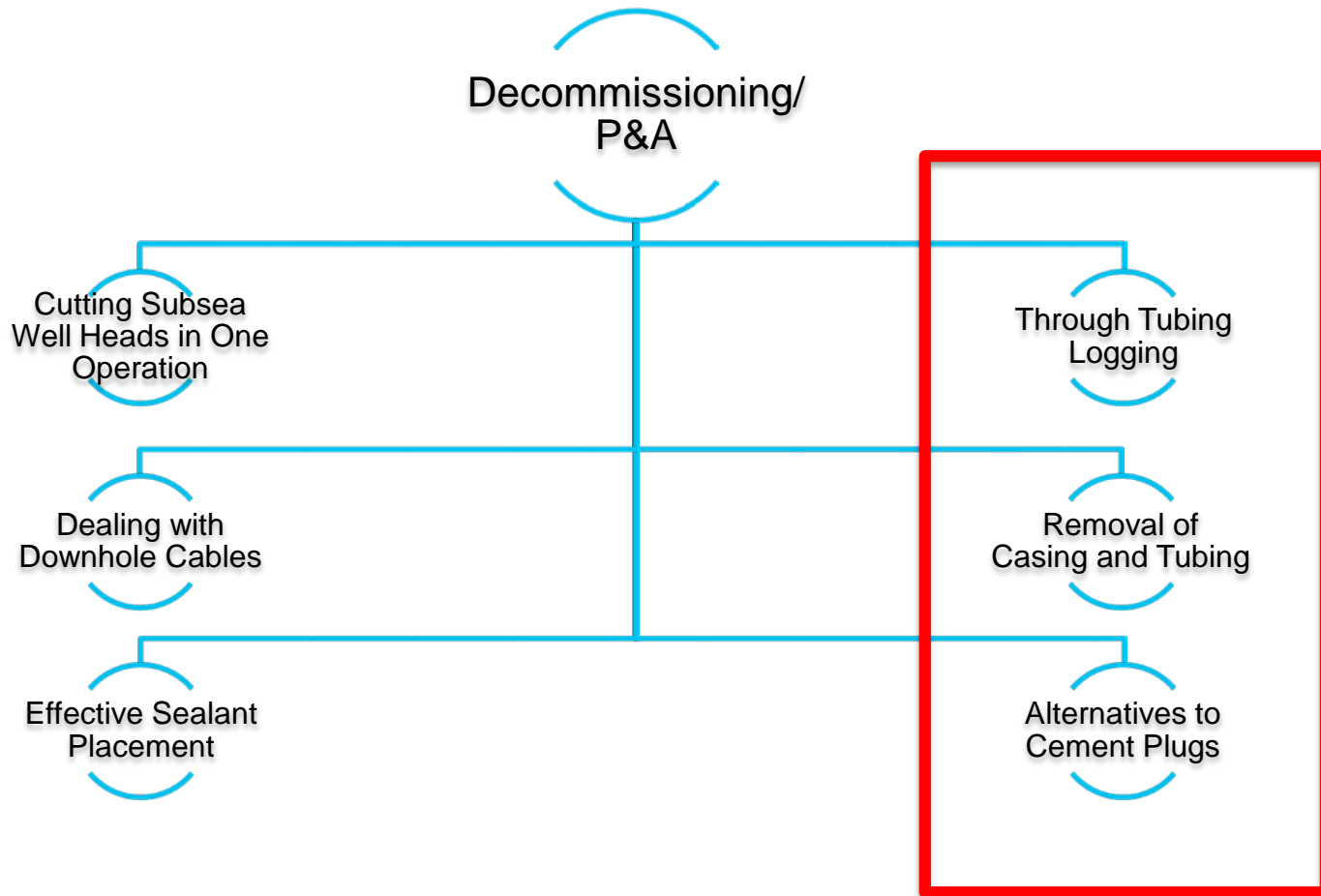


- £50 billion+ cumulative decommissioning costs
- ITF member & industry workgroup driven
  - BP, CNR, Conoco Phillips, ExxonMobil, Fairfield, Shell, Repsol Sinopec
- Technology Leadership Board (TLB) Themes backed by UK Oil & Gas Authority (OGA)
  - Well construction
  - Small pools
  - Asset Integrity
  - Decommissioning



# Well P&A Theme

## Challenge Areas



# Well P&A Theme

## Cement Plug Alternatives

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- Call looking for technologies that can potentially improve on current available technologies, or offer alternative approaches
- Risks
  - Mixing and hydration process
  - Contamination and placement process
- Barriers to new technology uptake
  - “Cement mentality”
  - Regulator agreement
  - Verification

# Well P&A Theme

## Cement Plug Alternatives



- Proposed Solutions

Name	Cost	Duration
Ceramic Plug	£1.9m	24 months
Bio-fibre plug	£64k	9 months
Polymer Resin System	£670k	24 months
Material selection Software (Nuclear Crossover)	£267k	12 months
Resin-grout plug (Nuclear Crossover)	£525k	12 months
Bag Deployment Tool	£420k	15 months
Metal Alloy plug and deployment tool	£2.8m	24 months



# Topside and Pipeline Decommissioning Landscaping

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- Initial work currently undertaken to understand key Topside Decom challenge areas
- Prioritise challenge area
- Initial areas identified include
  - Heavy Lift Topsides
  - Non-intrusive assessment
  - Pipeline Cleaning
  - Pipeline recovery
  - Seabed cleaning
  - Burial Monitoring Devices





Questions?