



**James Fisher Offshore**

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**Subsea Well Abandonment**

Drilling • Construction • IRM • Decommissioning • Renewables

# James Fisher Offshore

## LOF – Life of Field Services

Drilling Support Services

Subsea Construction Services

IRM Services

## Subsea excavation Services

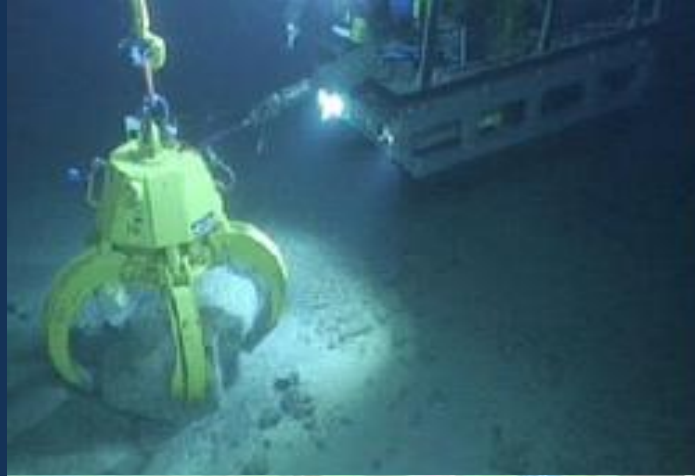
## Decommissioning Services





## Decommissioning Toolbox

- Full suite of decommissioning tooling
  - Cutting equipment
    - UHP Abrasive cutting
    - Hydraulic Demolition Shears
    - Diamond Wire saws
    - Chops saws
    - Band saws
    - Drilling and Boring tools
  - Subsea Well Severance & Recovery (Phase 3 P/A)
  - Orange peel/grapple/bucket grabs
  - Debris baskets
  - Small tooling – flange splitters, impact wrenches, hydraulic drills, nut splitters
  - ROV tooling and integrated or fly to place cutting equipment



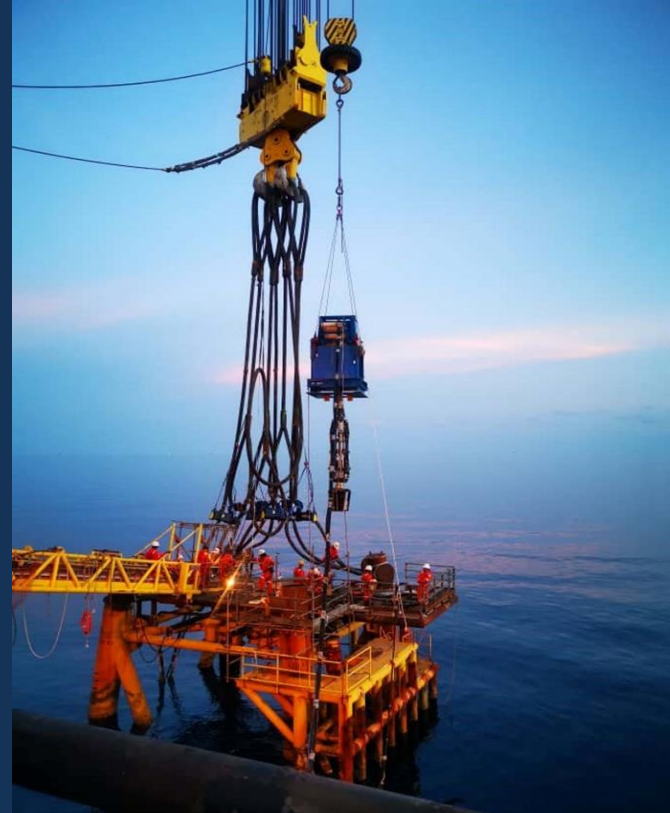


## Decommissioning service offering

JFO offer complete service capability in the cutting and removal of platform topsides, jackets, wells and subsea infrastructure.

We are a fully embedded partner in the methodology and execution of our customers' decommissioning campaigns, utilising in-house expertise and assets to provide industry leading solutions.

Through continuous investment and development of technologies, we provide a competent and reliable range of services for well severance and recovery, structural and subsea infrastructure removal and pipeline demolition.



## Decommissioning Services



From Category 2 Well Abandonment to Structure Removal we have invested in the solutions and people development

- JFO has recently acquired Subsea Engenuity bringing well plugging and abandonment capability into the business to further strengthen our decommissioning service offering.



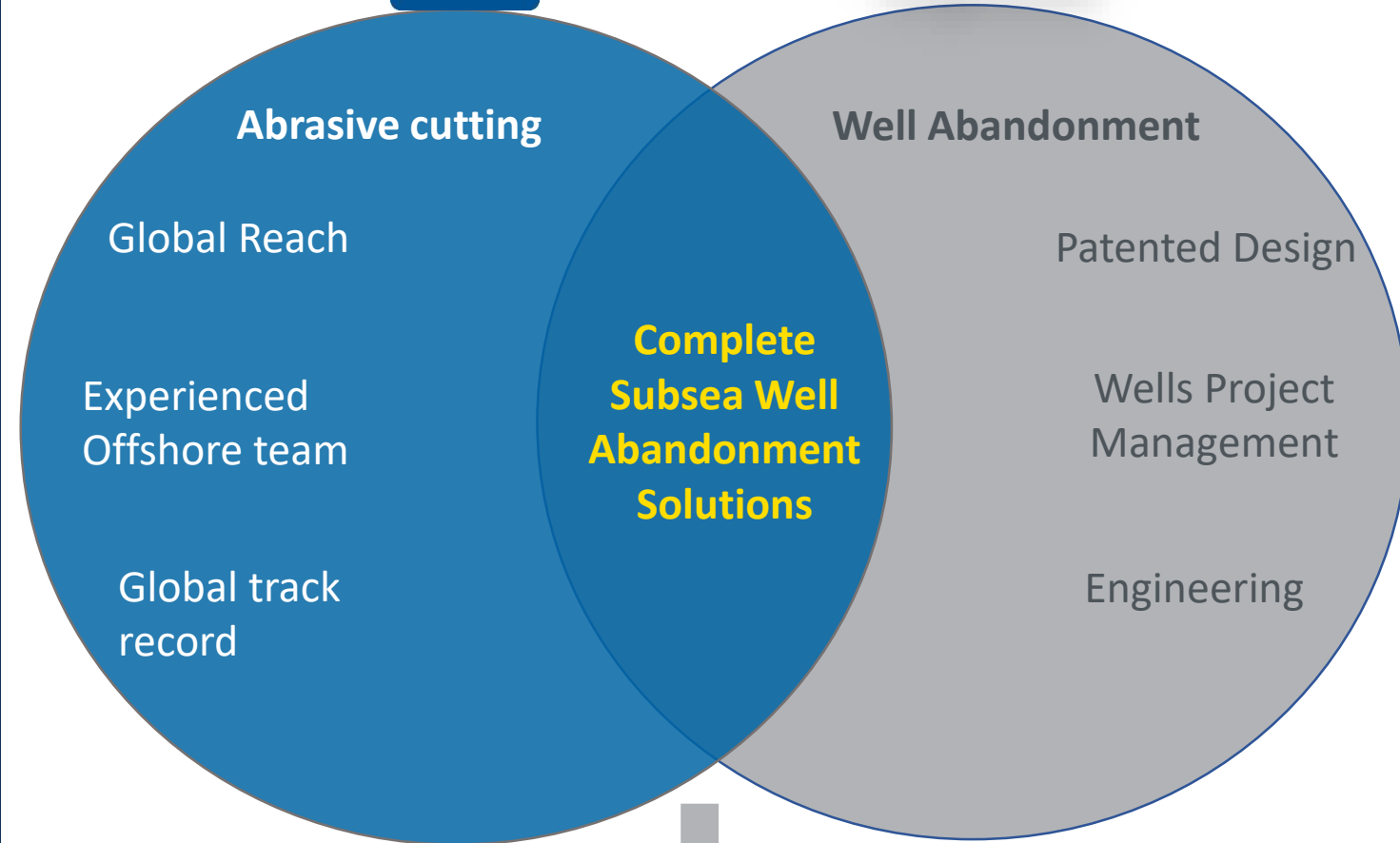
## Phase 2, Category 2 Well Abandonment

Subsea Engenuity acquisition brings an engineering solutions and consultancy company with capability to take ideas from concept through design, manufacture and service delivery.

Operating primarily in the subsea arena of the energy industry, they bring a highly experienced team with Subsea Well Abandonment Tooling – SEABASS.

Combined with James Fisher, we will provide an abandonment service that is:

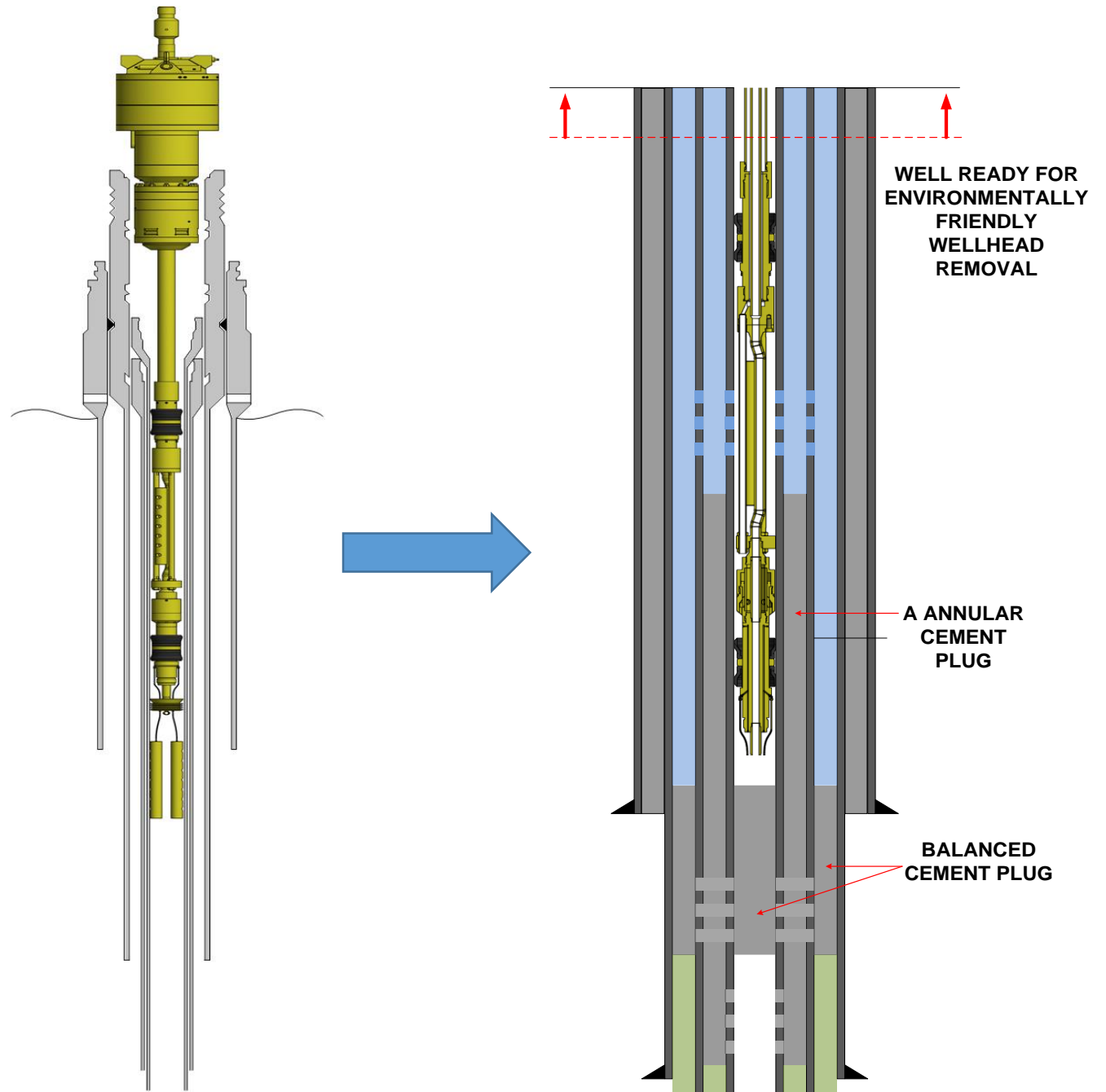
1. Cost saving – Time and reliability
2. Safer
3. Globally acceptable using proven technology
4. Best in class tooling & service quality
5. Multi-disciplined delivery team
6. Provide full abandonment solutions



Provide complete abandonment solutions by investing in technology and people



SEABASS perforates single or multiple casing strings, providing a circulating path to remove contaminants (such as OBM) before placing environmental cement plugs.



## Subsea Well Abandonment – SEABASS (Patent Pending)

### Key Differentiators:

- Mechanically lock into the well
- Fully functioning disconnect and reconnect system
- Allows for BOP stack and emergency disconnect via drill pipe
- Sliding Sleeve valve removes cement debris and prevents tool becoming stuck
- Single trip cement wiper plug
- Single lift system for faster and safer handling



### Cost effective:

- Batch manage wells from vessel
- Reduce rig time
- Estimated 20% reduced operational time compared to other vessel methods

### Reduce operational risk & project downtime:

- Emergency Quick Disconnect (EQD)
- 5000 psi rated with dual barriers
- Fully tested prior to running
- Utilises existing proven technology





# Animation



**Thank you for your time this afternoon**





**Meet the team at 13:30 during the breakout session**



**Euan Penny**

**Well Abandonment Technical Authority**

- Over 20 years relevant experience
- Live Well
- Abandonments including Subsea Abandonment

**Richard Henderson**

**Engineering Director**

- Over 15 years relevant Experience
- Design, Sales, Operations, Management
- Downhole Tooling
- MEng – Marine Engineering

**Paul Milne**

**Senior project engineer**

- Over 14 years relevant experience
- Design and technical drawing
- Wide range of subsea equipment