

# UK Technology Leadership Board – Update

ITF Technology Showcase – Mar 2016  
Paul W. White



# UK Technology Leadership Board – Background...

## UK Technology Leadership Board... How did we get here?

UKCS MAXIMISING  
RECOVERY REVIEW:  
FINAL REPORT

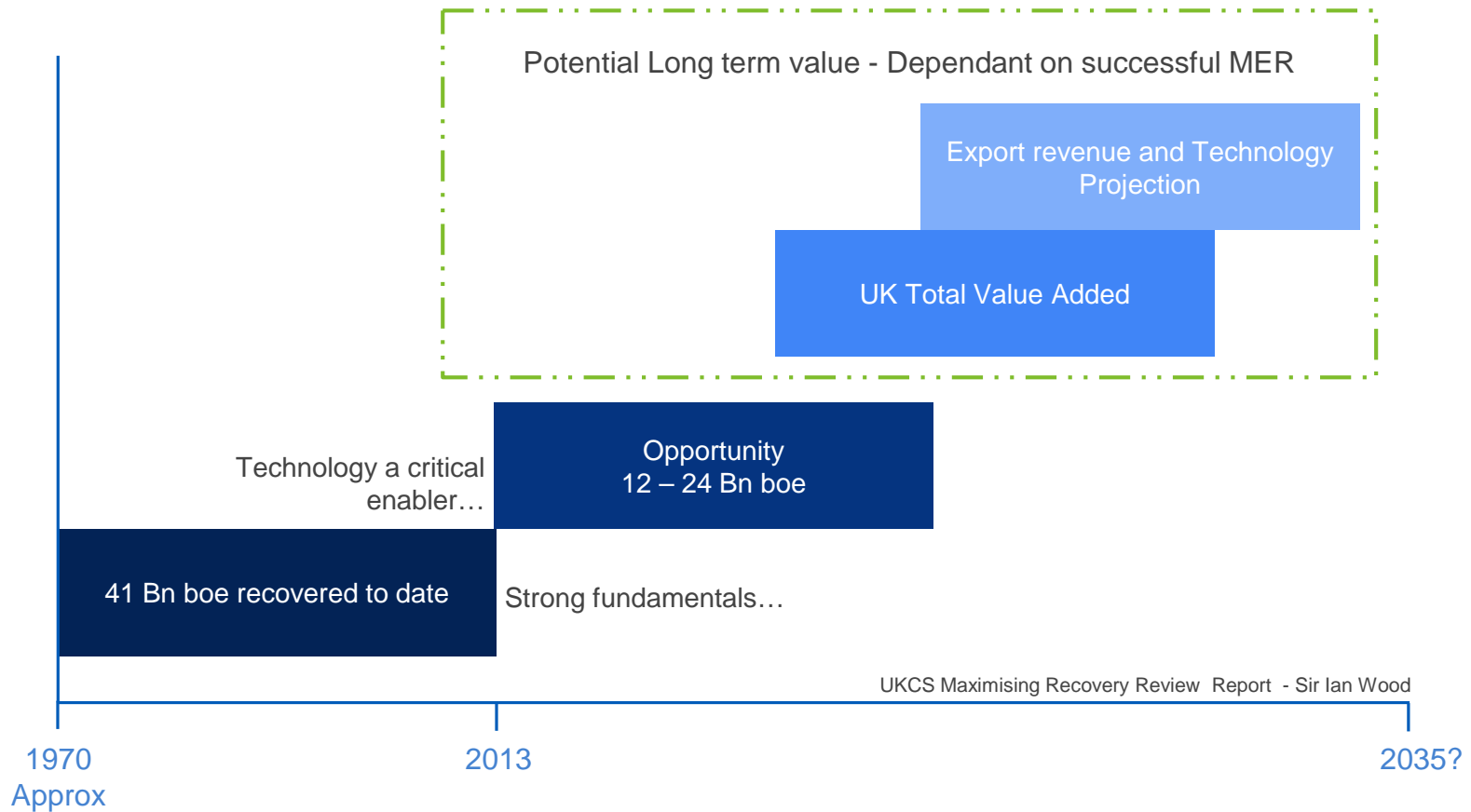
24 February 2014  
Sir Ian Wood

- **PILOT Technology Work Group** formed in 2012
  - Enhance UKCS technology development & deployment
  - Develop a North Sea Technology Strategy
- **HMG Industrial Strategy** 1Q 2013 highlighted the need for increased technology focus...
- **Wood Review** Q1 2014 : Includes a need for a consistent technology strategy that requires...
  - Leadership (Technology Leadership Board)
  - Focused Delivery (Technology Themes)
  - Funding (Multiple Sources)

## Key TLB Technology Focus...

Enhance and extend the life of the UKCS  
Build an enduring legacy with a strengthened supply chain

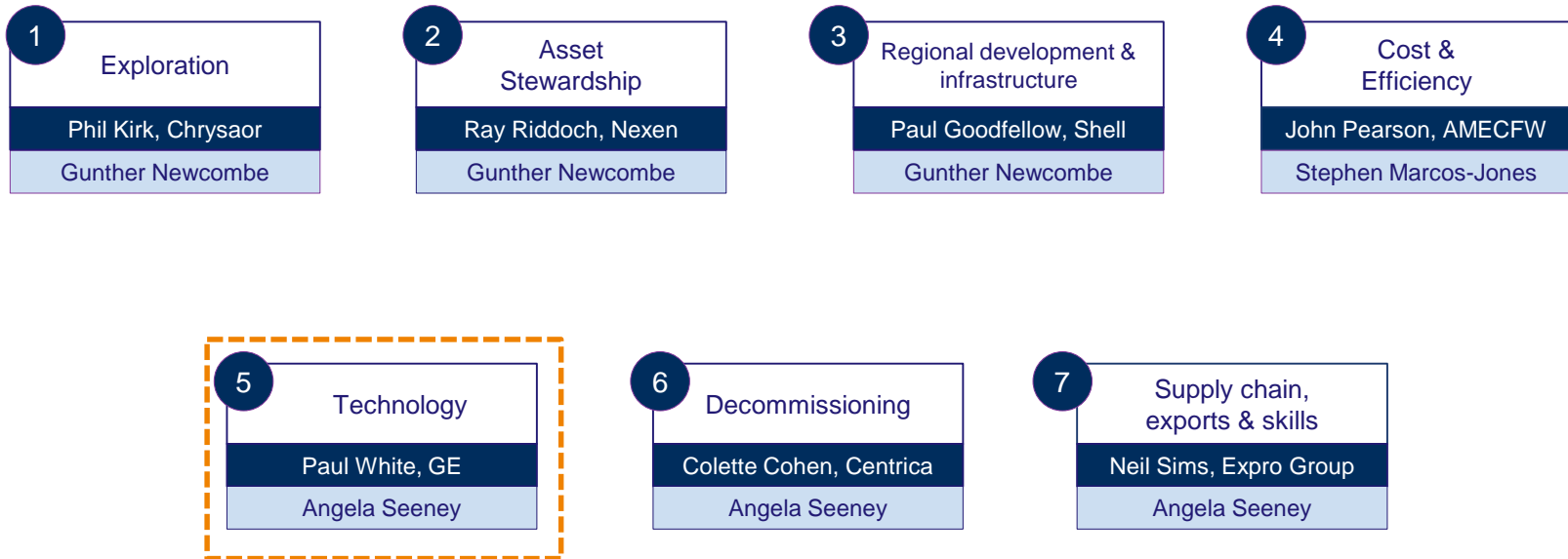
# Maximising Economic Recovery and long term value...



Technology is required for MER... but also to add long term value

# UK MER Forum and TLB...

Is not just about Technology...



Nevertheless... Technology Opportunities exist in multiple areas...

# Initial work...

UK Technology Leadership Board Formed Q2 2014...

Initial Technology Themes Defined by Industry are...



Some great progress... strong links to OGTC developing funding opportunities

# Small Pool Developments

## The challenge...

To develop technology to enable the development of 1Bn boe from pools smaller than 50 MM boe in place...

## The Technology Opportunity...

- Reduced well costs
- Small efficient structures or vessels
- Low cost controls and communications
- Autonomous systems
- Flow Assurance
- Re-useable structures
- Standardisation
- Chemical distribution



# Asset Integrity...

## The challenge...

To generate more than £1.0 Bn of additional revenue through the radical reduction of time and investment applied to vessel inspection and corrosion under insulation...

## The Technology Opportunity...

- Sensors
- Predictive maintenance
- Data and analytics
- Inspection innovation
- Insulation design
- Access systems
- Chemical treatments
- Materials

# Low Cost Well Construction

## The challenge...

Reduce well construction costs by 50% (time-to-depth and flat-time) to allow an extra c. 50 wells to be drilled per year...

## The Technology Opportunity...

- Data and Smart Drilling
- Low cost fluid systems
- Innovative drilling tools
- Predictive maintenance
- Standardisation
- Active monitoring



# Decommissioning...

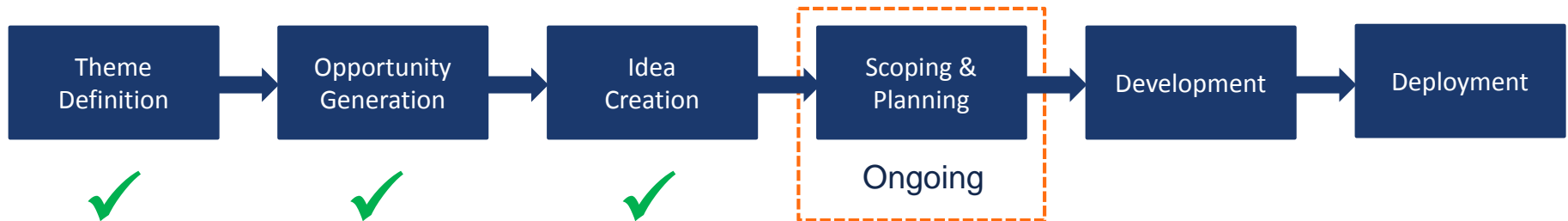
## The challenge...

Reduce Decommissioning costs by 50% and develop transferable knowledge in late field life management...

## The Technology Opportunity...

- Planning for decommissioning
- Casing cutting
- Condition determination
- Cutting systems
- Cementing technologies
- P&A vessels and intervention systems
- Lifting and moving
- Diverless intervention systems

# How are we progressing...



Significant progress made to date... Hundreds of individual multi-disciplinary contributions from industry...

## Small Pools

Small Pools Hackathons Nov 2015  
(London & Aberdeen)

Small Pools Hackathon Outcomes  
Feb 2016



## Well Construction

Drilling & Wells workshop May 2015

Drilling & Wells workshop Dec 2015

O&G UK Wells workshop Jan 2016



## Asset Integrity

OGIC Asset Integrity Workshops Feb  
2016



Some good progress, fantastic commitment and engagement... More to do...

# Looking Ahead...

## Maintain...

Strategic guidance... Defining Technology Demands & Engaging all Stakeholders, linking Industry, Regulators and Governments...

## Continue to develop...

Sources of funding, support for the Oil & Gas Technology Centre and clear routes from technology development through to deployment...

## Encourage and drive...

Launch of new technology themes, technology deployment and focus on securing long term value for the UK from MER and Technology Projection...