




# Making Information Management Change Stick

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- Consulting and information management solutions to the oil and gas industry
- Formed in 1998, by technical professionals with broad industry experience

| Consulting  | Solutions and Applications   | Services  |
|---|--|---|
| <ul style="list-style-type: none"><li>➤ Information Management Strategy, Architecture &amp; Implementation</li><li>➤ Project &amp; Programme Management</li><li>➤ Change Management</li></ul> | <ul style="list-style-type: none"><li>➤ Web-based Information Management Applications</li></ul>  | <ul style="list-style-type: none"><li>➤ Reference Data Management</li><li>➤ Process and Standards Development</li><li>➤ Application Development</li></ul> |



## Queen's Award for Enterprise Innovation, 2009

This is the highest award that can be given to a UK based company.

This award was for Flare's innovative information management solutions for the oil and gas industry.



## British Computer Society (BCS) European Awards, 2006

Knowledge Management Project Award – Winner (with Shell)

Intranet Project Award – Highly commended (with Shell)

Content Management Project Award – Highly commended (with Shell)



- Introduction
- Change Management
  - The Change Challenge
  - Information Management Change
  - How it affects the individual, team and organisation
- Case Studies
  - Knowledge Management & Procedures
    - Drilling Management System
  - Information Management
    - Global Wellfile
  - Data Management
    - Production Reporting
- Lessons
- Questions



### *The Premise*

- Effective E&P Information Management practice must be Institutionalised
  - Effective IM practice =  
*Consistent and timely access to high quality information*
  - Institutionalised =  
*Part of the fabric of the organisation in terms of infrastructure, process and behaviour / culture / values*

### *If we fail to change*

- Lost investment
  - Infrastructure
  - Systems
  - Data
- Lost benefits
  - Information search time
  - Decision-making quality
  - Increased risk





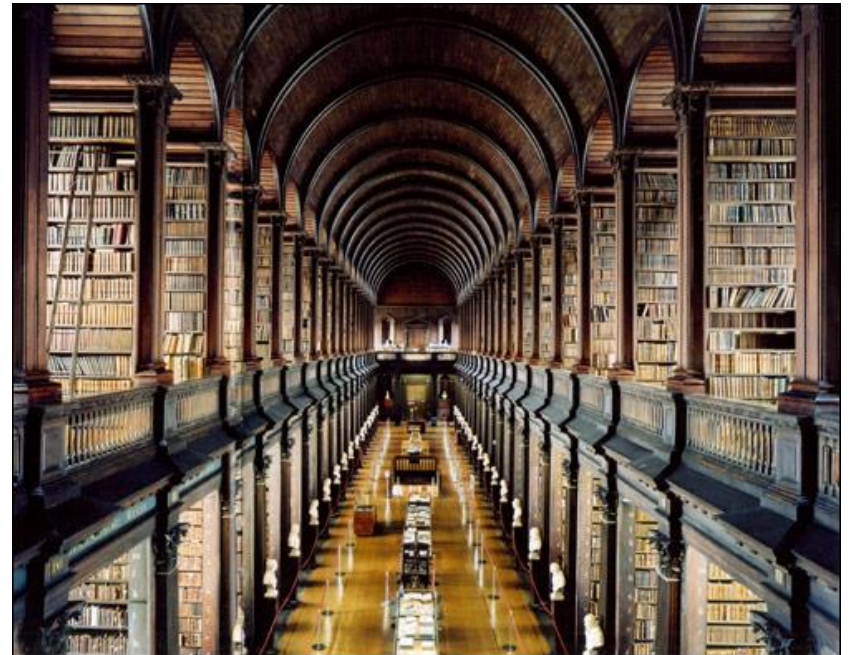
- Publish



**Mismatch  
Of  
Expectations**

When users publish they expect to be able to do it with minimal or no effort

- Search



When users search they expect a well structured, organised store, that is easy to navigate





## Why is it so hard to implement effective Information Management solutions in E&P organisations?

Can we define “Effective Data and Information Management”



Can we specify and implement the right infrastructure?



Can we create appropriate processes and governance models?

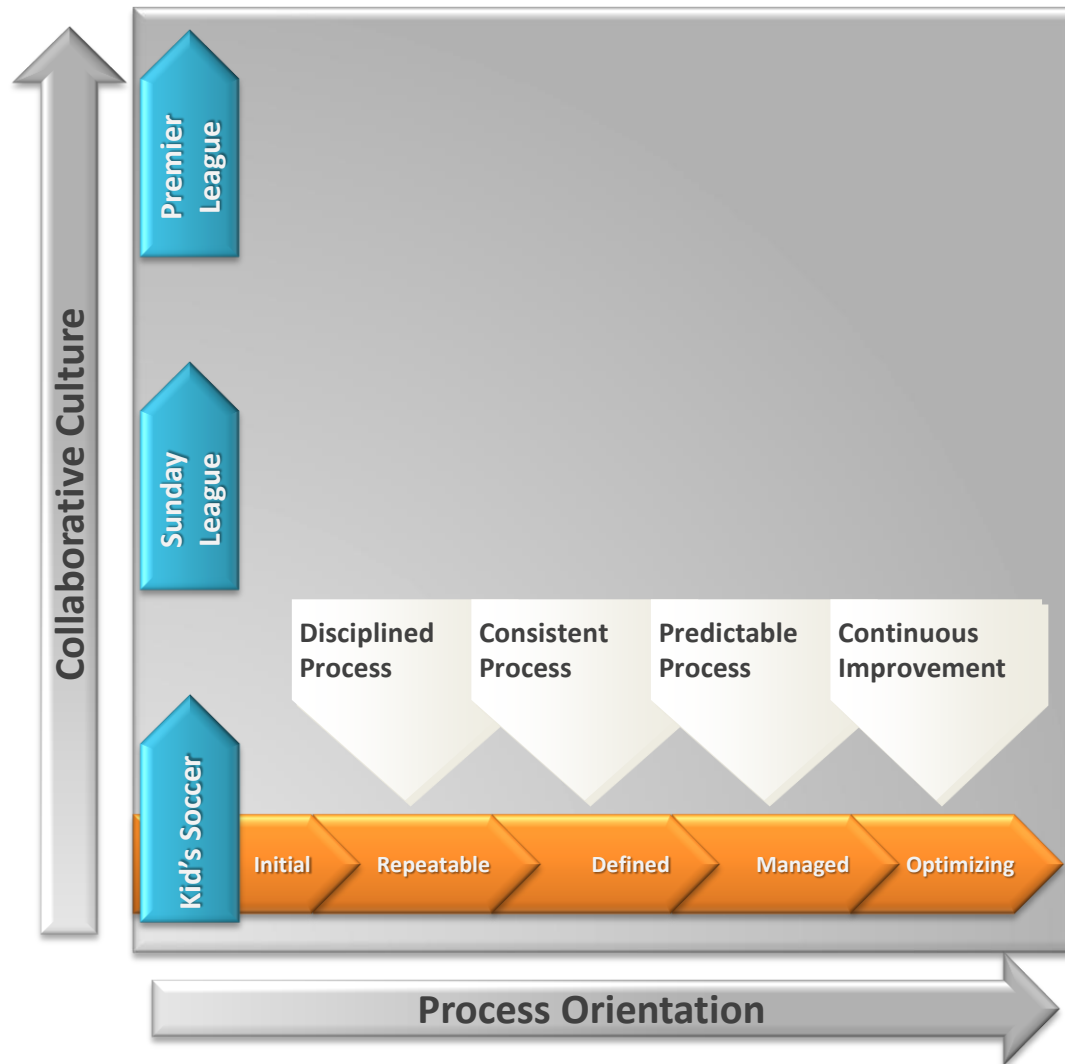


Can we ensure appropriate behaviours, cultures and values?



**Let's understand how process and behaviours impact the delivery of IM solutions**

# Dimensions of the Information Management Change problem

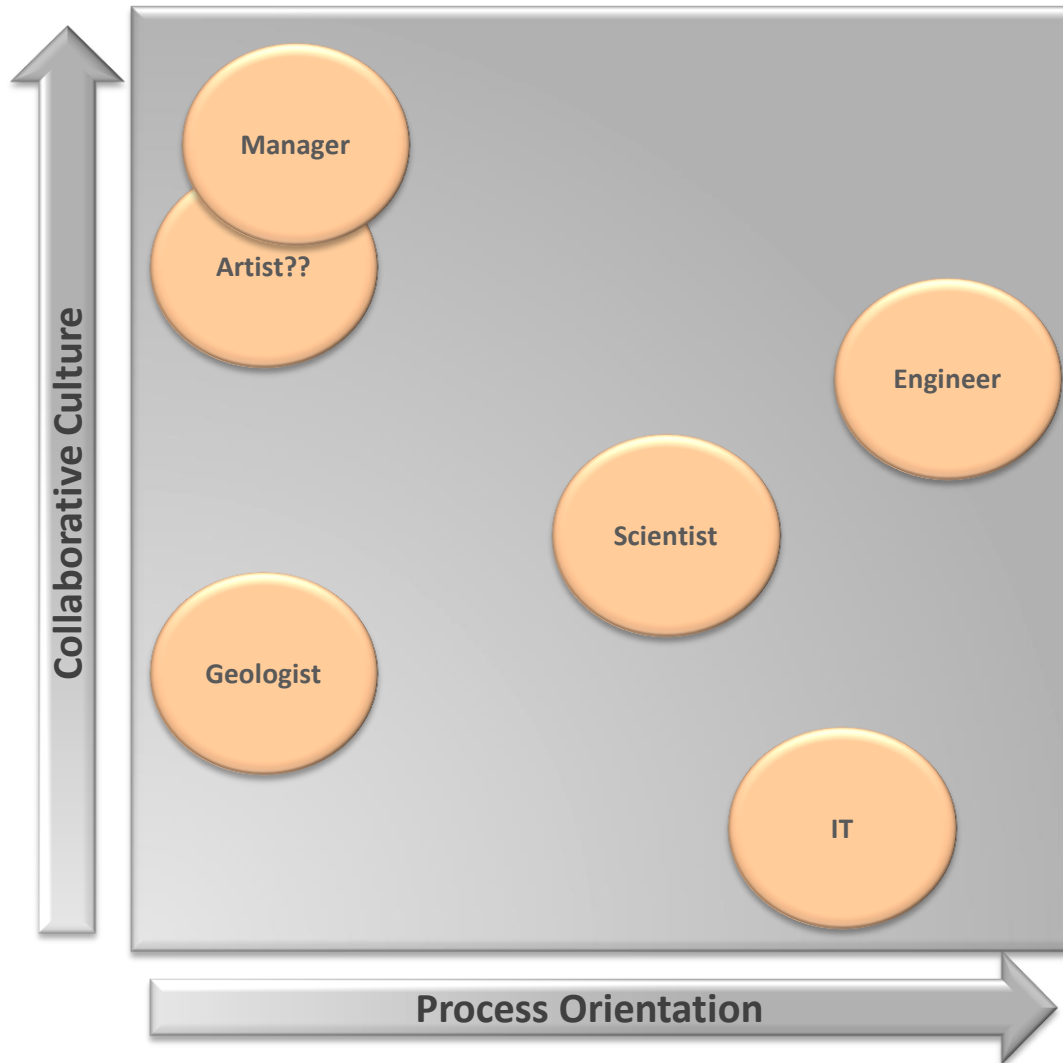


**Effective Information Management  
requires a mix of both process and  
collaborative dimensions**

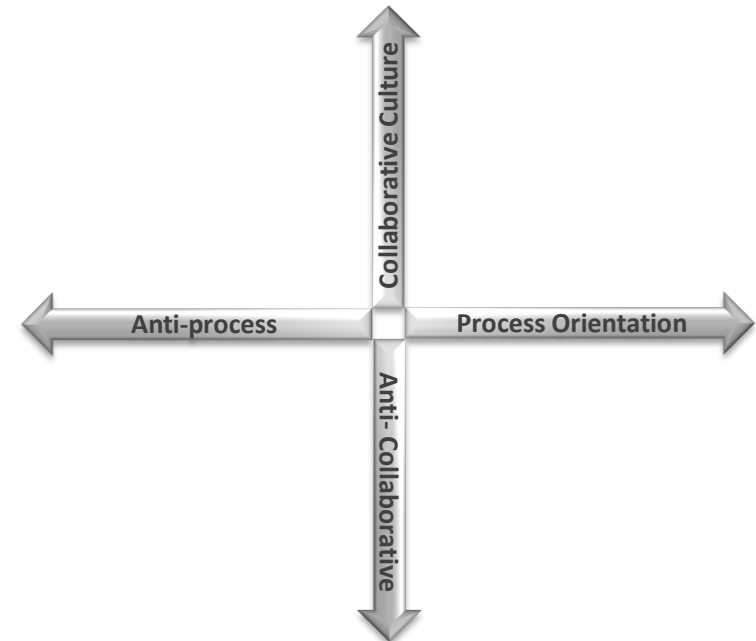


# Dimensions

## *The Individual Aspect*

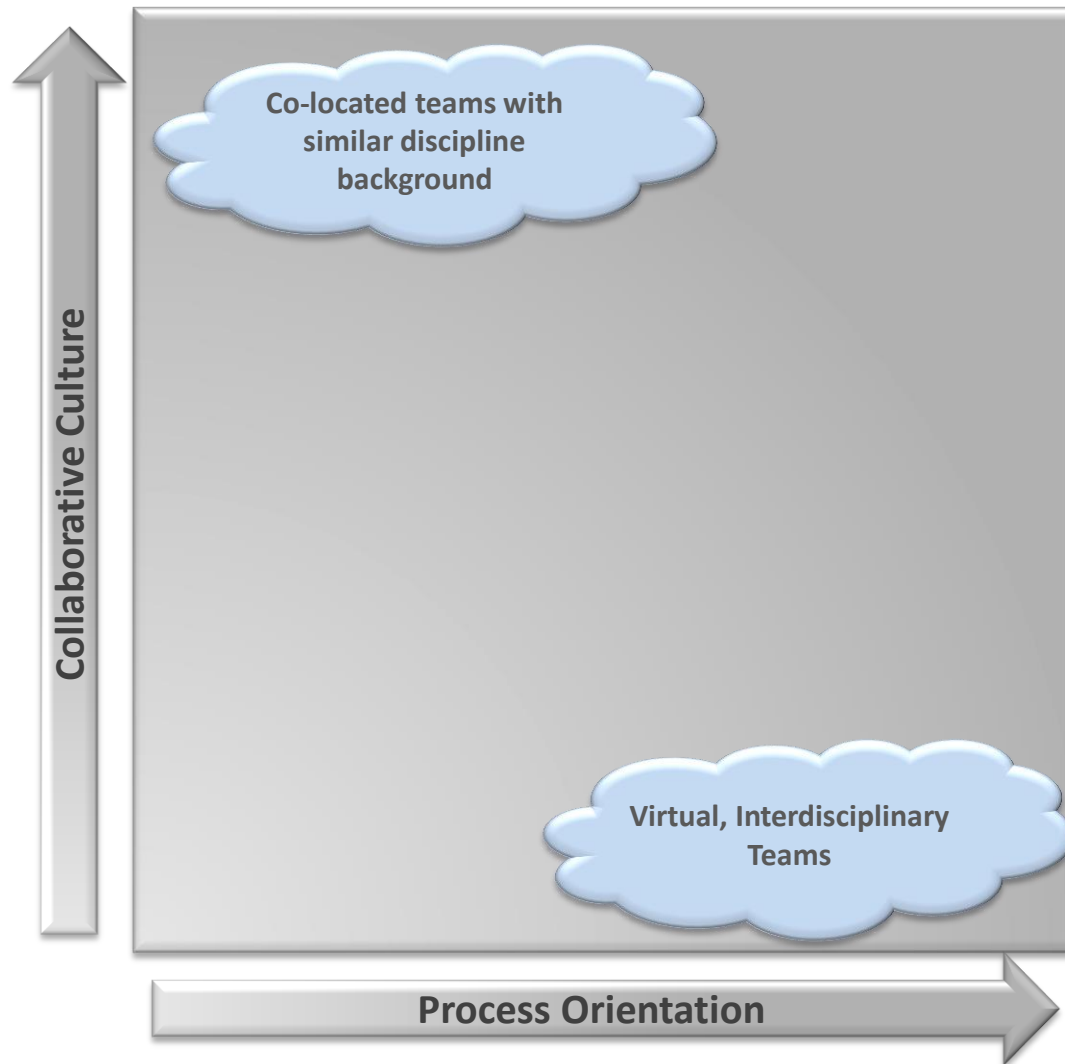


**We need to be responsive to the demographics of the community and its appetite for adopting newer collaborative solutions**



# Dimensions

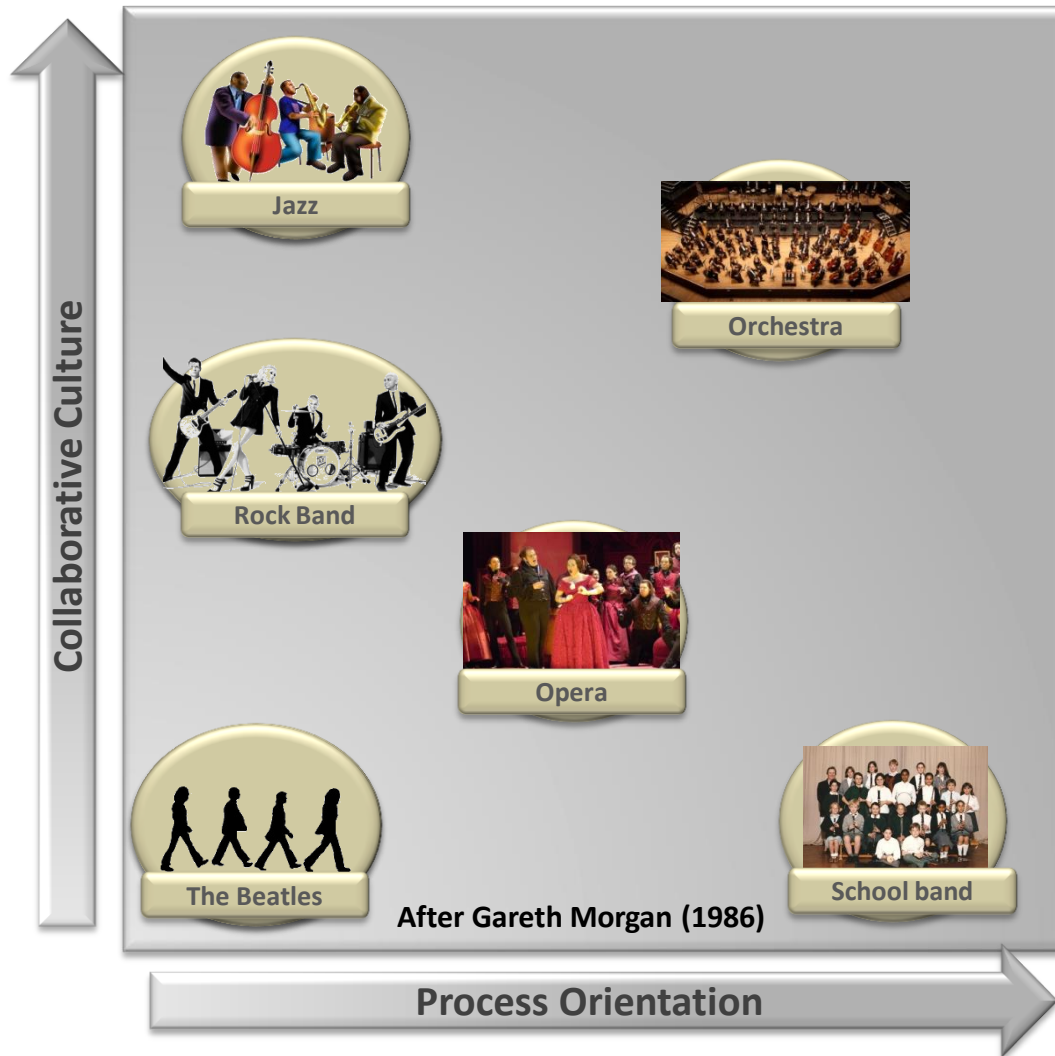
## *The Team Aspect*



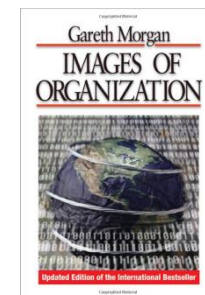
Natural team dynamics play a part –  
and the type of team impacts the  
extent to which effective Information  
Management behaviour can emerge

# Dimensions

## *The Organisational Aspect*

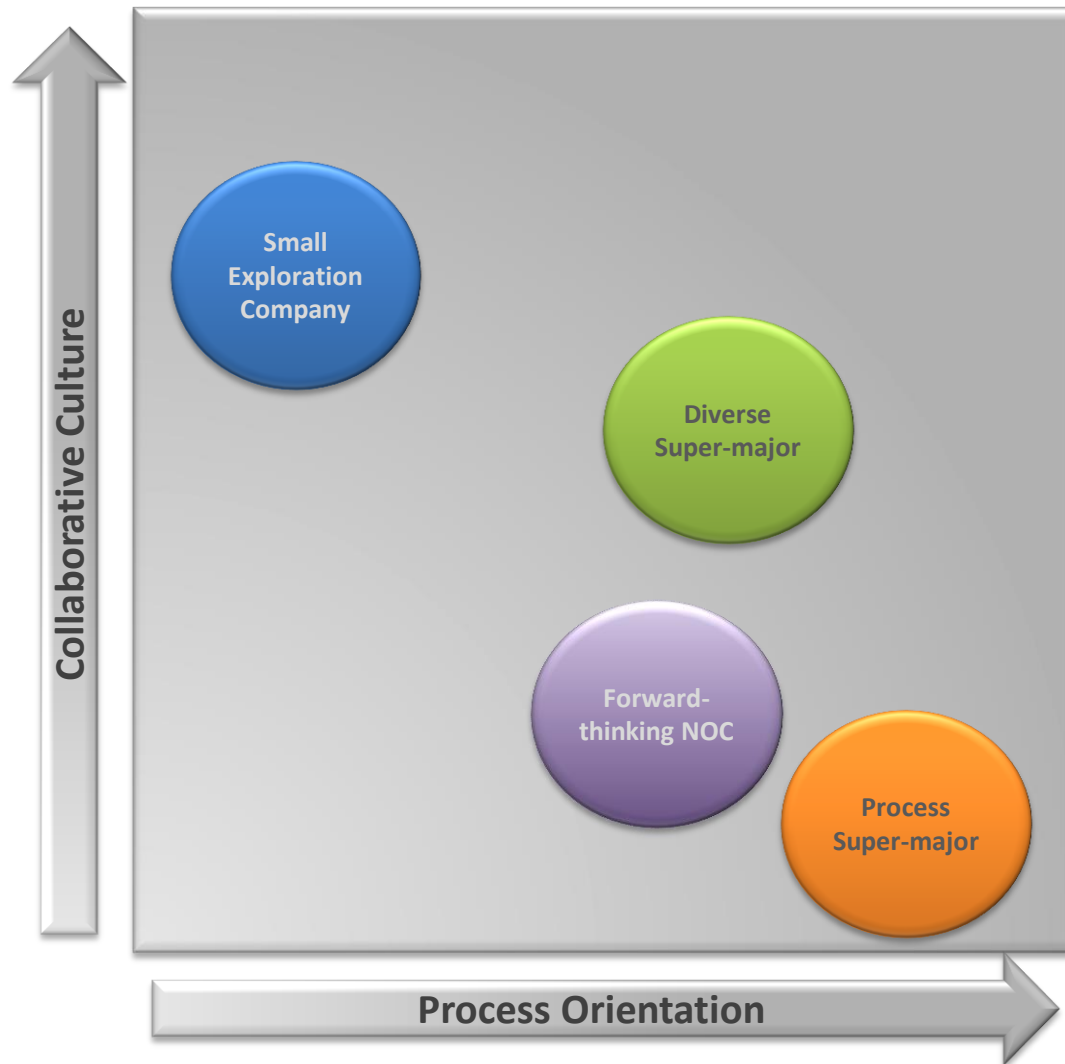


- An organisation will have a **dominant metaphor** for the way it does business
- We use musicians to remind us of the metaphors
- But where does your company fit?
- Where should you be heading?



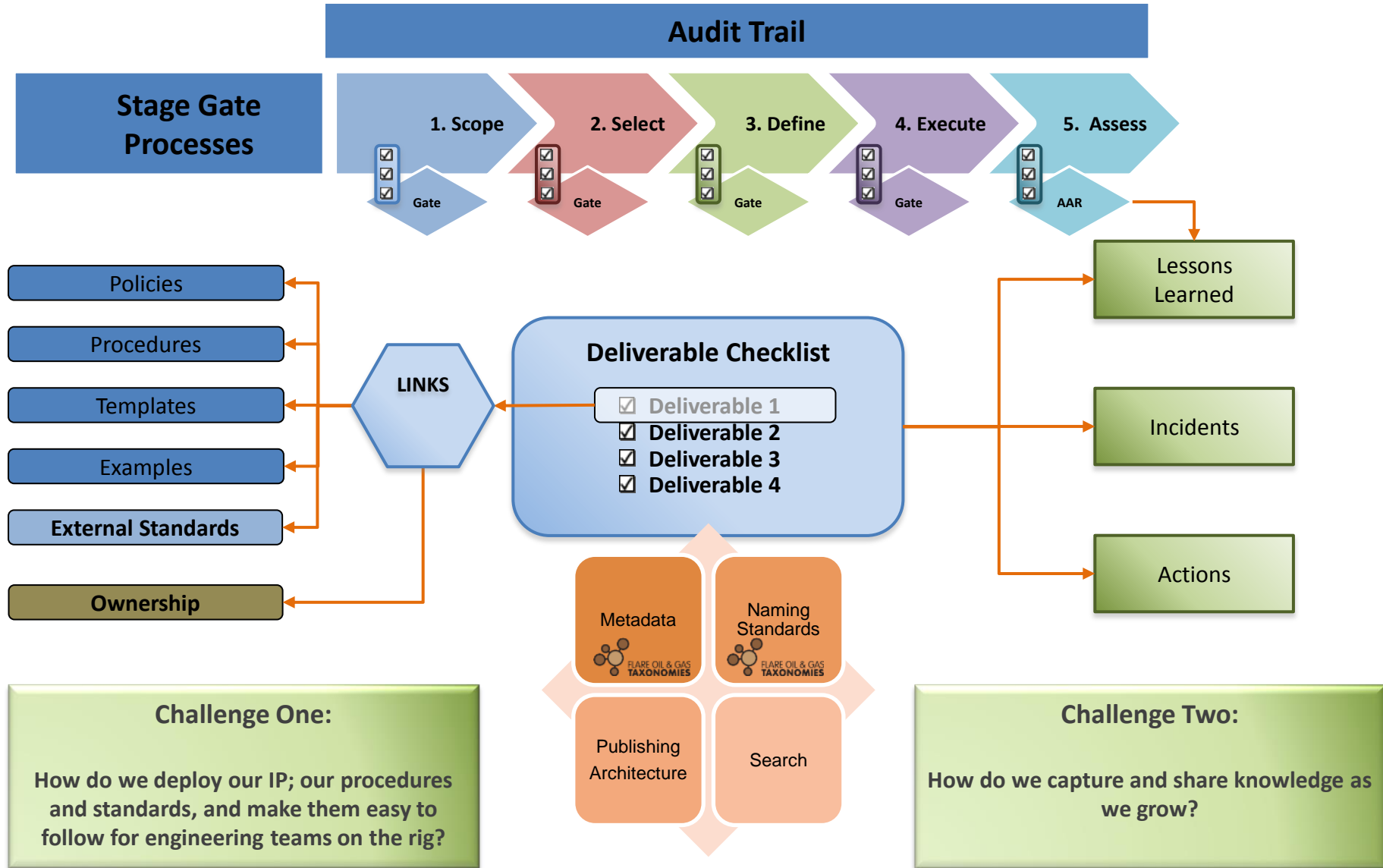
ISBN-13: 978-1412939799

# Where do typical E&P organisation sit in these Dimensions?

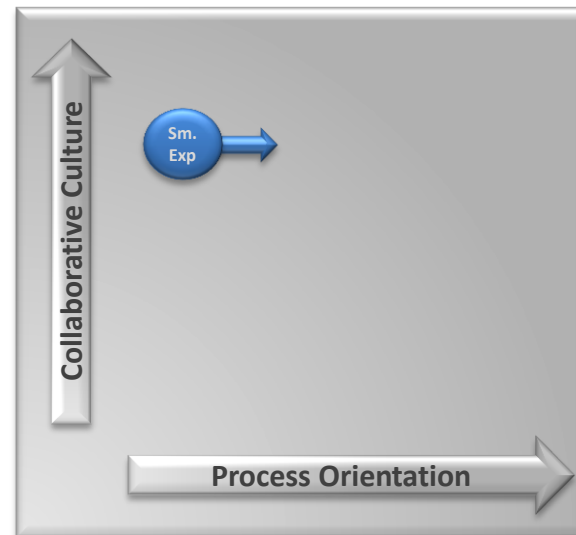
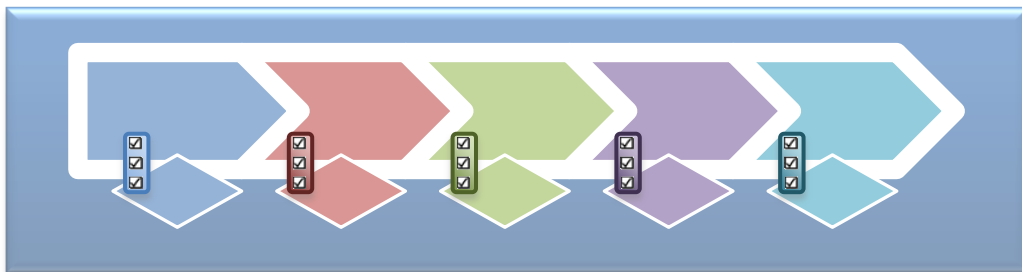


The dominant position of the organisation may constrain the kind of Information Management solution that can be achieved

# Case Study 1: Knowledge Management & Procedures - Overview



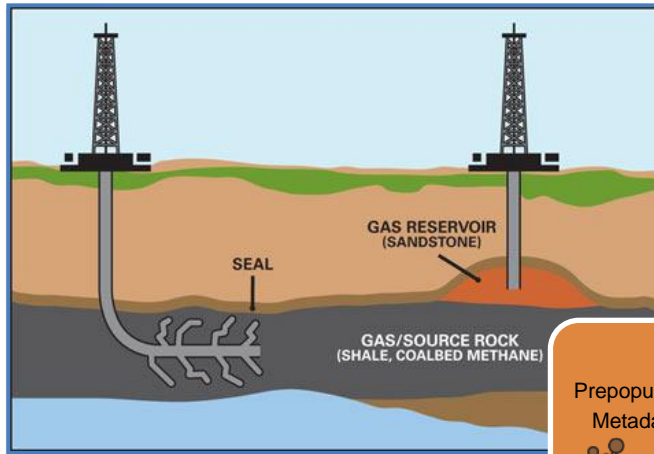
# Case Study 1: Knowledge Management & Procedures – *Change Assessment*



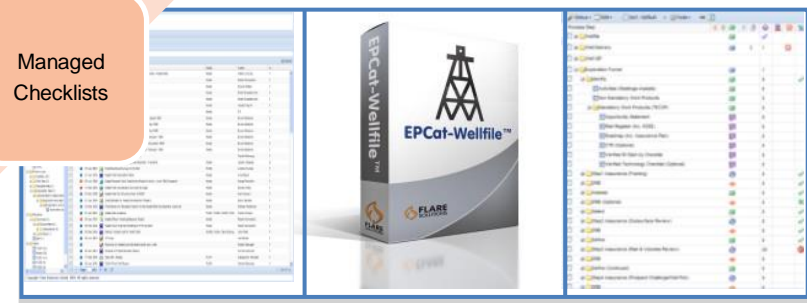
| Change Factor         | Initial Status               | Change Strategy   | Outcome  |
|-----------------------|------------------------------|---|--|
| Geography             | Corporate centre & rig sites |   |  |
| Corporate Culture     | Reactive/Innovative/Flexible | Be aware of lack of clear mandate                         | Management aware of challenge.<br>Longer time for take-up to mature. |
| Process Maturity      | Medium                       |   |  |
| Scope                 | Broad                        |   |  |
| Benefits Gap          | Medium                       | Highlight benefits throughout T/E                         | Appreciation by users of key benefits – to encourage usage           |
| Disruptiveness        | Medium                       | Highlight benefits throughout T/E                         | As above – pain accepted for the gain                                |
| Risk to Business      | Medium                       | Use as lever in training/ education                       |  |
| Willingness to Change | Poor                         | Education   |  |
| Change Risk           | High                         | Embed accountability and make that accountability visible | Everybody knows who should be doing what, and they can see results!  |

# Case Study 2: Information Management Global Wellfile - Overview

Process  
Super-  
major




A screenshot of a software interface showing a grid of data. The grid has columns labeled 'Phase 1', 'Phase 2', 'Phase 3', 'Phase 4', 'Phase 5', and 'Phase 6'. The rows are labeled 'Total' and 'Phase 1'. The cells in the grid are colored in various shades of green, yellow, and red, indicating different data points or statuses.



## Challenge One:

How do we capture wellfile information in a standard way around the world?

Partner Reporting

Legislative Reporting

HSE

Ownership

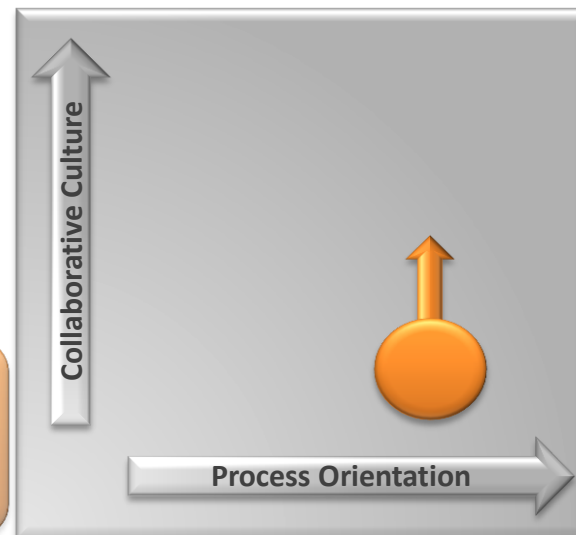
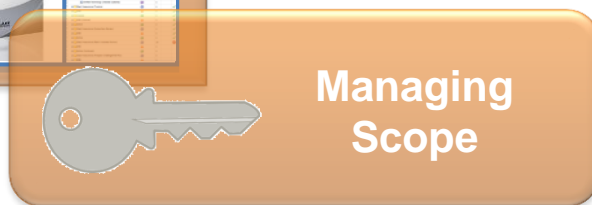
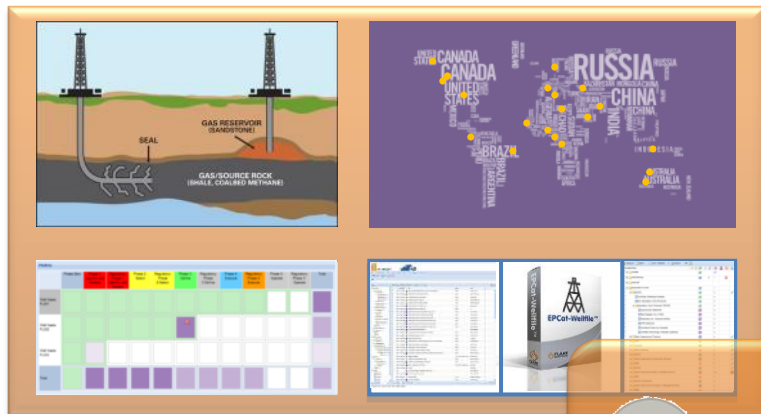
## Challenge Two:

How do we ensure user take-up?



# Case Study 2: Information Management Global Wellfile – *Change Challenge*

Process  
Super-  
major



| Change Factor         | Initial Status         | Change Strategy                         | Outcome   |
|-----------------------|------------------------|---|---|
| Geography             | Global                 | Develop online education programme      | All users can access educational material when they need it           |
| Corporate Culture     | Process oriented       |   |   |
| Process Maturity      | High                   |   |   |
| Scope                 | All types of well file | Reduce scope to two key well file types | Manageable scope, clear message, chance to build momentum             |
| Benefits Gap          | Medium                 |   |   |
| Disruptiveness        | Minimal                | Highlight in T/E                        | Easier user uptake – not that much difference to way things were done |
| Risk to Business      | Low                    | Put a momentum programme in place       | Ensure users don't 'forget'   |
| Willingness to Change | Medium                 |   |   |
| Change Risk           | Low                    |   |   |

# Case Study 3: Data Ops Reporting - Overview



## Challenge One:

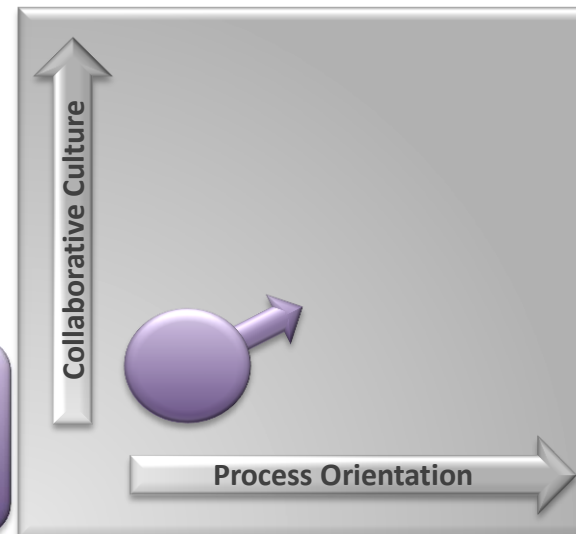
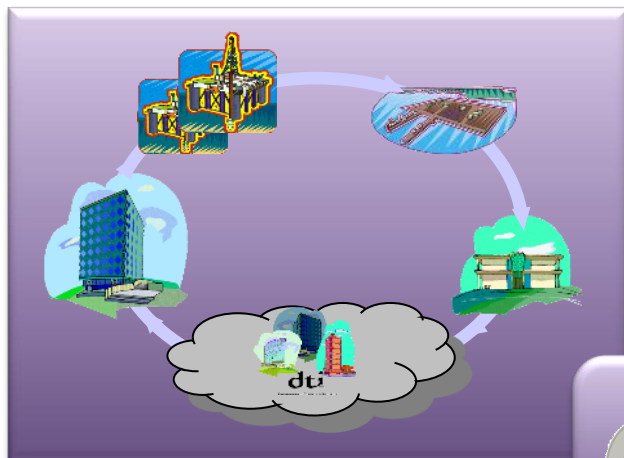
How do we manage production and injection nominations across a complex multi-site operation?

## Challenge Two:

How do we roll-out to a disparate team, working 24x7?

# Case Study 3: Data Ops Reporting – *Change Assessment*

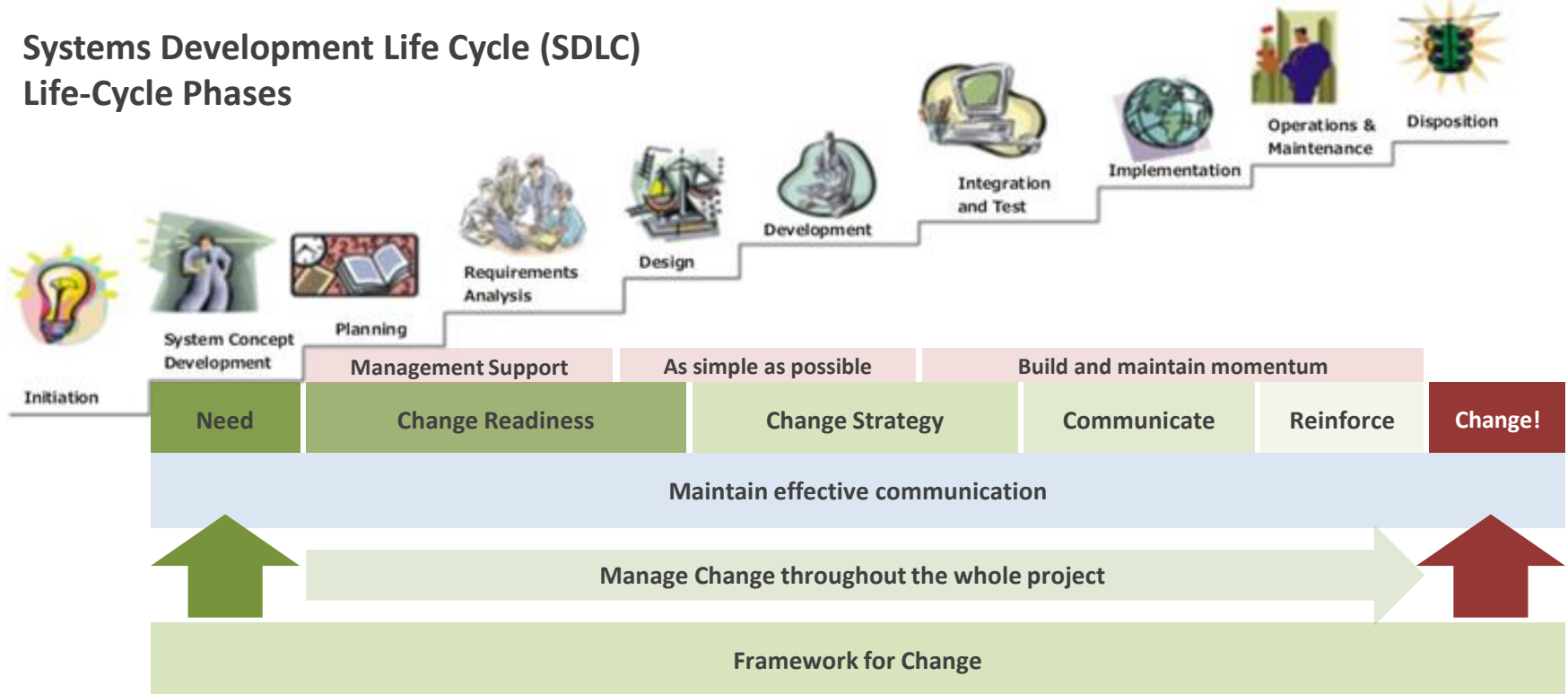
NOC



| Change Factor         | Initial Status                 | Change Strategy   | Outcome   |
|-----------------------|--------------------------------|---|---|
| Geography             | Primarily: Field base and rigs | Examine local (site) requirements early in the design phase | Solution designed to be easy to use                                 |
| Corporate Culture     | NOC                            | Engage with users as early as possible                      | Early engagement helped with definition and meeting requirements    |
| Process Maturity      | Low                            | Review processes as part of design                          | Required processes embedded in solution. Part of the way they work. |
| Scope                 | Tight - Production reporting   |   |   |
| Benefits Gap          | High                           | Use in T/E programme  | Users understood the need for change                                |
| Disruptiveness        | Highly disruptive              | Prepare roll-out plan well in advance                       | Disruption minimised.   |
| Risk to Business      | High                           | Use in T/E programme  | Users understood the need for change                                |
| Willingness to Change | Varied                         | Target known individuals for additional education           | Reduced negativity at launch  |
| Change Risk           | High?                          | Use in T/E programme  | Lot of upfront effort to mitigate start-up and ongoing maintenance  |



## Systems Development Life Cycle (SDLC) Life-Cycle Phases



- Ensure that Change Management is an intrinsic part of your project
- Make sure that your D/IM initiatives connect with the business
- Design - design for simplicity, rather than functionality
- Develop awareness of the project
- Reinforce using metrics, feedback and awareness sessions
- Maintain effective communication with all stakeholders
- Prepare for change!



Ineffective change management is a major cause of failure in IM projects.

You can mitigate this risk by following a structured approach

- ✓ Awareness of the need for change
- ✓ Desire to support and participate in the change
- ✓ Knowledge of how to change
- ✓ Ability to implement required skills and behaviours
- ✓ Reinforcement to sustain the change

## Deliver Change in Three Phases:

- 1. Develop the Change Strategy**  
*A plan accounting for organisational style and the working style of stakeholders, teams and individuals affected*
- 2. Assess Change Readiness**  
*An iterative approach to ensure barriers are removed*
- 3. Deliver targeted interventions to build the Momentum for Change**  
*Combining: Communications, Sponsorship, Coaching, Resistance Management & Training to ensure sustainable change*



FAQs

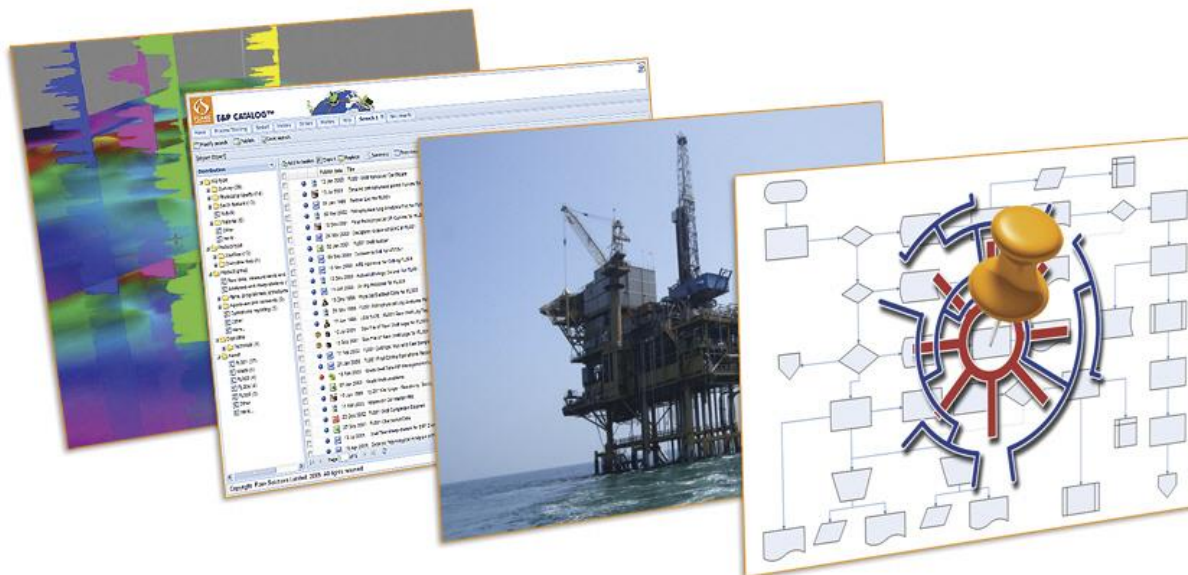
# QUESTIONS



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