



WELL-SAFE
SOLUTIONS



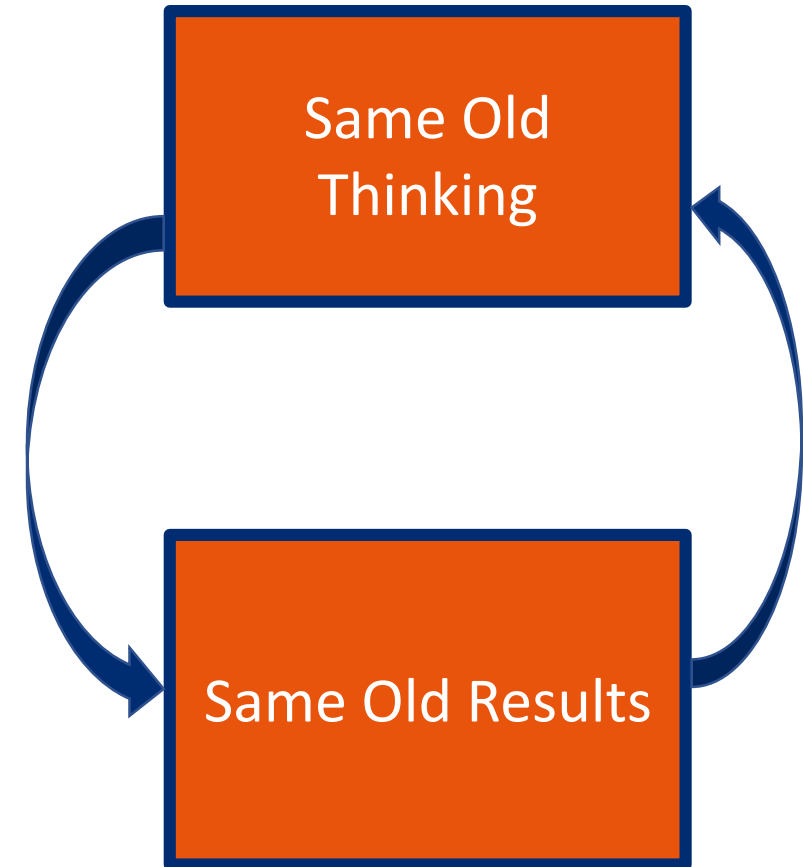
Knowledge Development within Industry P&A practices

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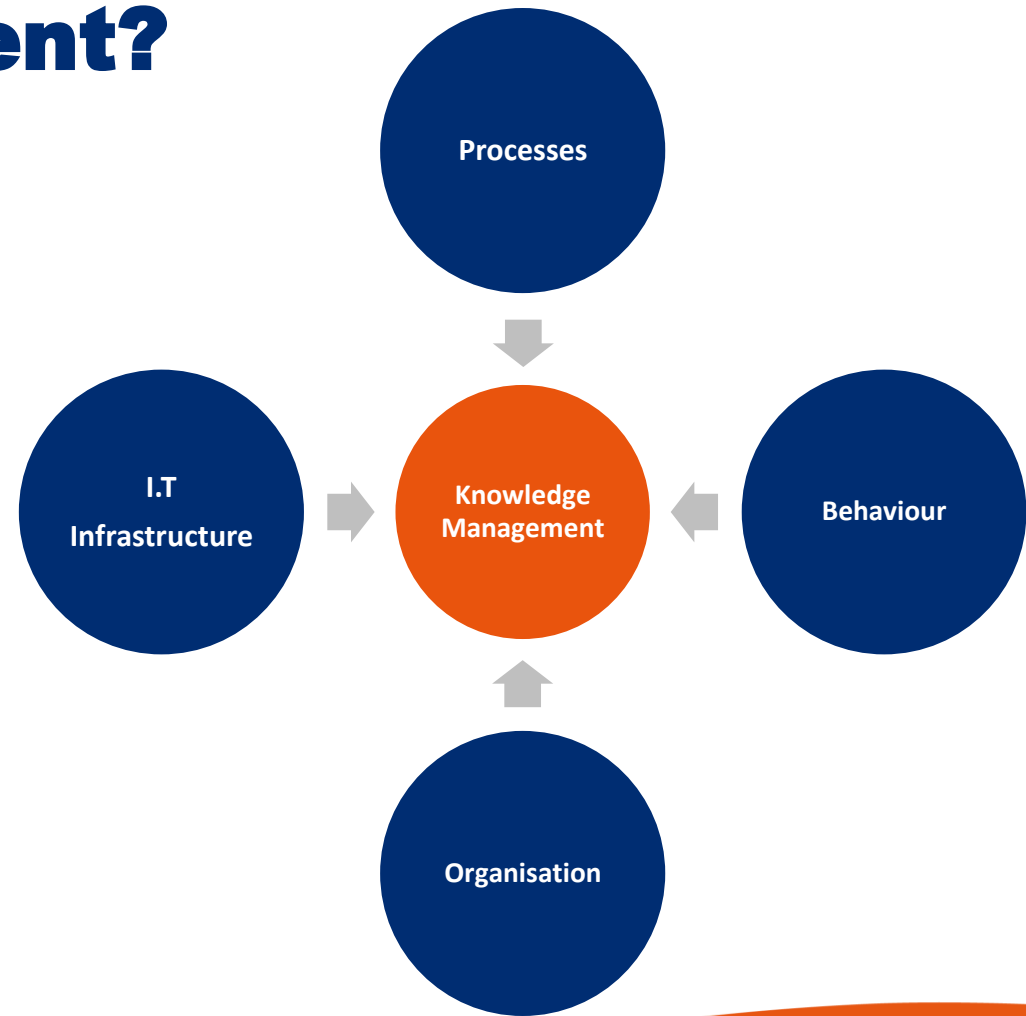
Contents

- Why is Knowledge Management key to Well-Safe Solutions?
- What are current issues with Knowledge Management.
- How do we build on current systems
- What does our model lesson learnt system look like?
- How do we further progress from here?



What Do We Actually Mean by Knowledge Management?

- *“Knowledge Management is the process of capturing, distributing, and effectively using knowledge”*
Tom Davenport
- Encompasses having the correct organisational structure and processes in place to ensure project execution efficiency and decision making, lower costs and improved communication across an organisation.



Why is Knowledge Management Key to Well-Safe Solutions?



- We are performance driven
- Continued success is dependent on a kaizen mentality
- A large aspect of this is lessons learnt
- Drive to consider Well Decommissioning as a production line...then identify how we can completely eliminate all waste
- This is an industry wide challenge

Current Challenges with Knowledge Management?

Behaviour

- Individual and team discipline.
- What size of lesson gets recorded?
- Is it only a lesson if it effects critical path?
- Are lessons written so that anyone can understand them, regardless of experience?
- Are they systematically applied at feed – planning stage.

Organisation

- Internal to company
- Communication between departments
- How well do we learn lessons from supply chain
- P&A activities are typically piece-meal with cross-discipline teams pulled together for short period?

I.T Systems

- Use of excel
- Often just a database of information
- Require large amounts of manual input
- Has there been a system built with well abandonment in mind?

Processes

- Do current processes allow lessons learnt to be captured
- Are the instructions in place to ensure past lessons are considered and incorporated
- Who has responsibility and accountability

What is the Functionality of Lessons Learnt I.T Systems Available

Most Basic

- Excel spreadsheet
- Access database
- HTML based
- Find key features by searching key words. Either in the description or if system has potential for keyword to be assigned

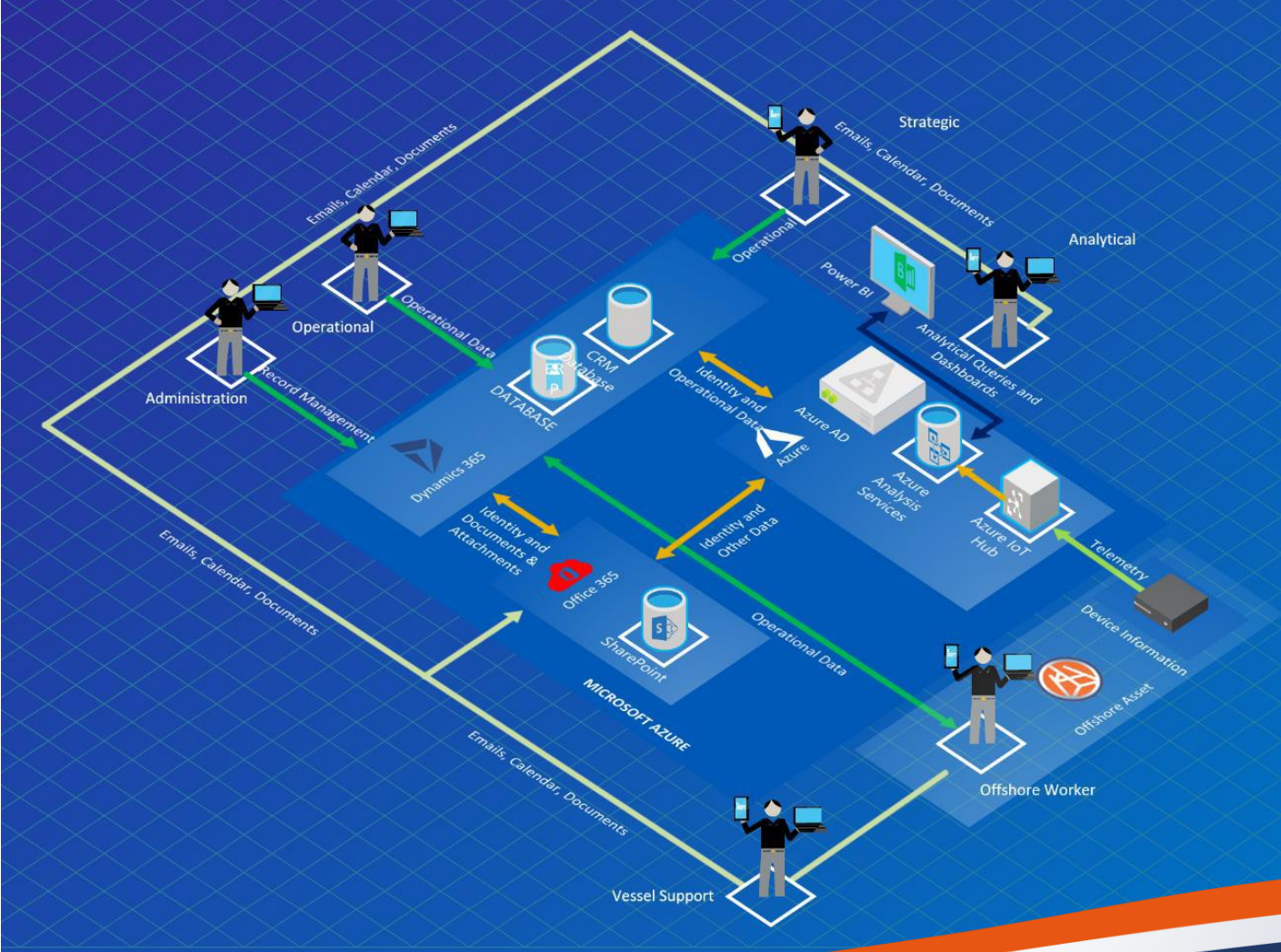
Specific Designed Systems

- Incorporated as part of a reporting software
- Cloud based database with more functionality, can link to an event.

Latest Developments

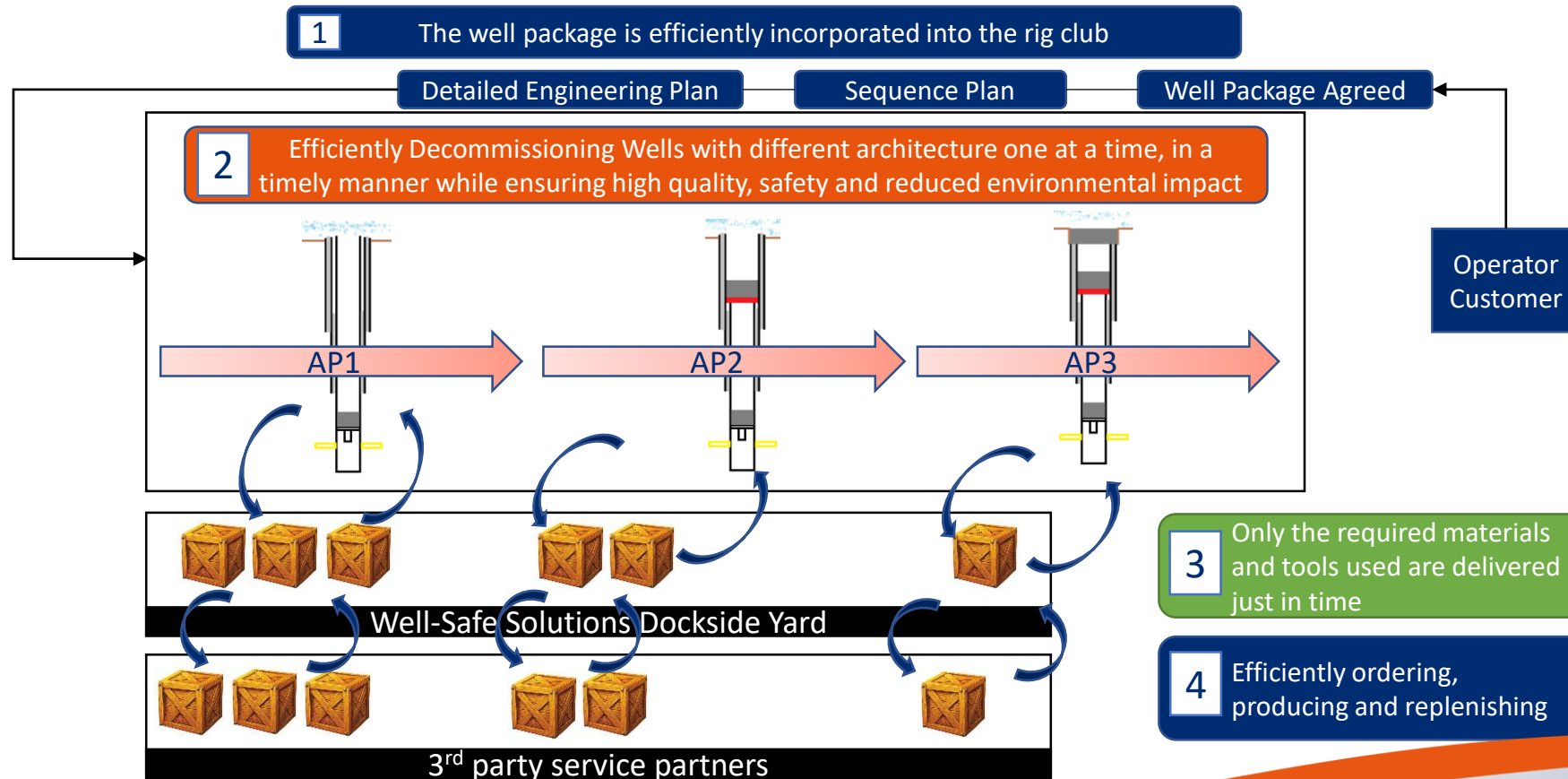
- Reporting software's that are Microsoft azure based, and can suggest lessons learnt automatically into Microsoft office documents.

Well-Safe Solutions I.T Landscape



Well-Safe Production line

- 1 Well package information is communicated to operations teams
- 2 Timely Well Decommissioning
- 3 Delivery of required parts
- 4 Producing materials and tools required



What Do We See As A “Model” Knowledge Management



Integration of I.T Based System

- Integration of an I.T based system that feeds into Well-Safe Solutions well-decommissioning Delivery Process.



Lessons Learnt Applied

- At each stage gate, lesson learnt are applied, and mitigations deposited in management system for inclusion in the next revision of processes, procedures and work instructions.



Real Time Analysis

- Capability to automatically pull inefficiencies from real time feeds from assets and compare to targets. Then being able to make suggested lesson learnt input with links to relevant operational step.



Feed to All Departments

- A system that feeds into all departments and provides an auditable trail.

Future Steps



Lessons Learnt Applied

- On commencement of a project, we will run through the process, learn and apply iterations to improve the process, learn mistakes and implement changes in a validated and considered way.



Find the Missing Piece

- Missing piece of jigsaw is an I.T support system that can fully integrate with this, both in assisting the identification of lower performance and identify a reason.



Apply to Whole Business

- This needs to apply to all aspects of our business, so input from all departments can be seen.



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