



DIGITAL OILFIELD – HOW SMART ARE WE?

OIL&GAS COMMUNICATIONS EUROPE 2009

SIMON DENNIS
ACCOUNT MANAGER (NORTH SEA)
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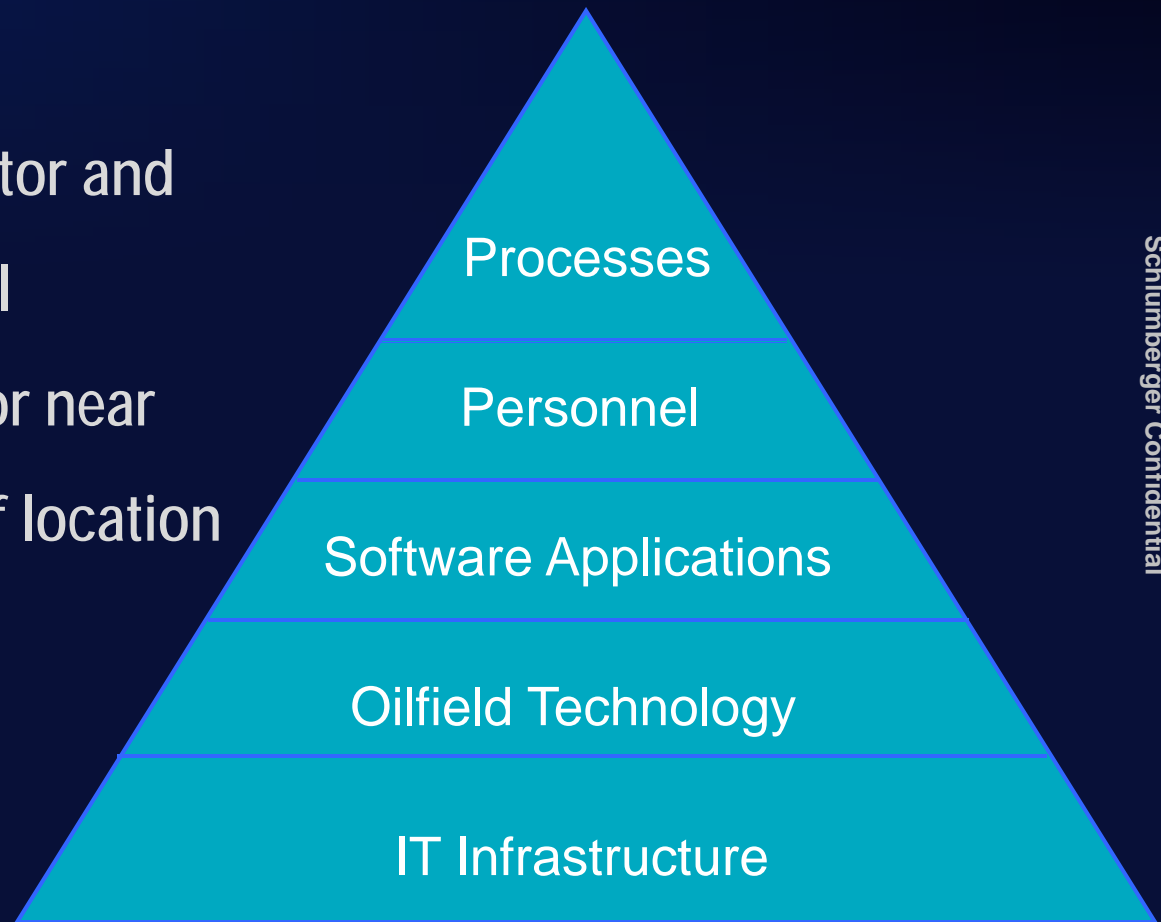
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DIGITAL OILFIELD - DEFINITION

- » The capability to monitor and manage all operational activities in real-time or near real-time regardless of location



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DIGITAL OILFIELD – NORTH SEA UNIQUE SETTING

- » CULTURE OF TECHNOLOGICAL INNOVATION
- » DIGITAL ENGINEER GENERATION
- » REMOTE AND SENSITIVE EXPLORATION
- » OPERATIONAL EFFICIENCY AS NECESSITY
- » DECLINING OIL PRODUCTION



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DIGITAL OILFIELD – REAL TIME

- » What is real time?
- » Automatically collecting, analysing and controlling operations with relevant frequency data

seconds 1 day 90 day 2 years 10 years



Control room decisions
 Event & fault response
 Minimize downtime
 System reconfiguration
 Export obligations
 Safety

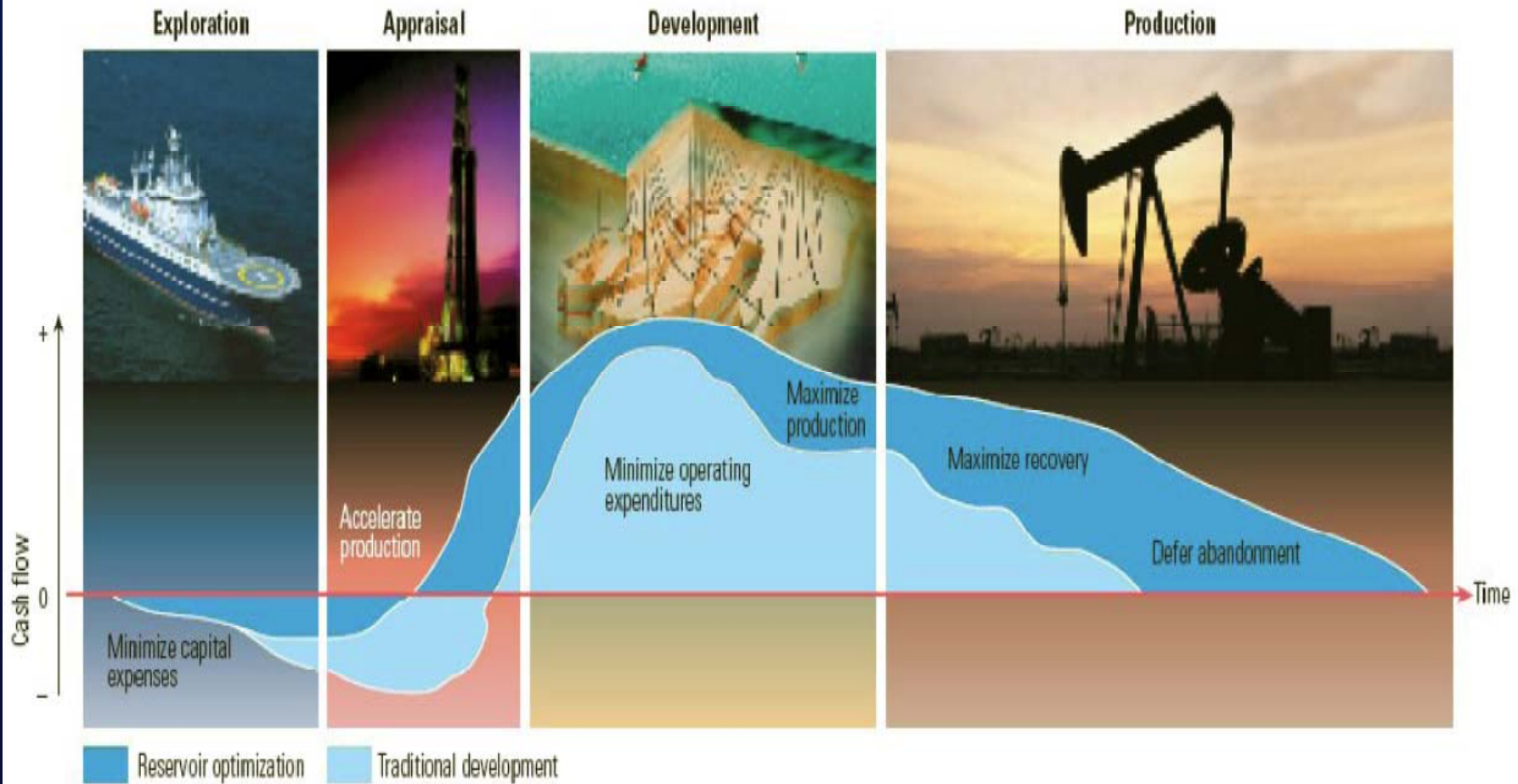
Choke & sleeve settings
 Lift system diagnostics and optimization
 Network optimization
 Planning of simultaneous operations on integrated offshore platforms

Optimize reservoir drainage, injection
 Infill wells
 Remedial well ops
 Re-completions
 Schedule interventions

Optimize investment planning
 Optimize secondary recovery
 Tie-in marginal fields

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DIGITAL OILFIELD – THE PRIZE



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