

The UK Oil and Gas Industry
– Open for Business
Focus Session 1-
Asset Stewardship

Maintenance Optimisation
-Differentiated Strategies



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THE OIL AND GAS INDUSTRY
CONFERENCE

Overview: Differentiated Maintenance

Objectives

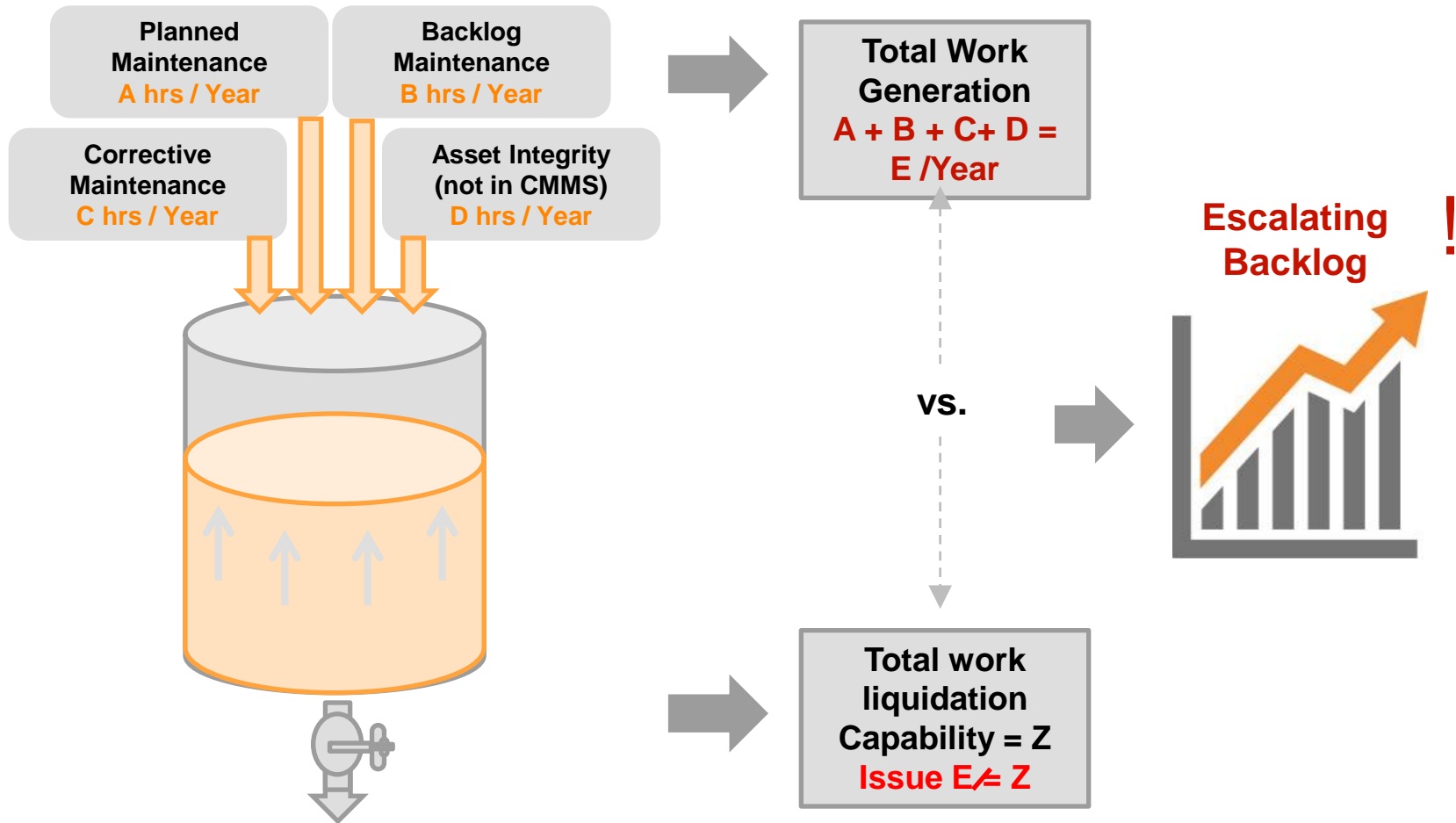
- Develop safe, sustainable differentiated maintenance and inspection strategies, processes and work execution fit for late life assets that enables a sustainable annualised saving for UKO
- Reduce maintenance / AI backlog by reviewing demand to be in line with capacity

Case For Change

- Lack of reliable asset integrity and equipment maintenance history – legacy issue
- Escalating maintenance backlog
- Oversubscribed work management programme
- Significant asset integrity activities not visible in CMMS
- Perception of over maintaining of safety critical elements
- Inconsistent prioritisation of preventive and corrective work

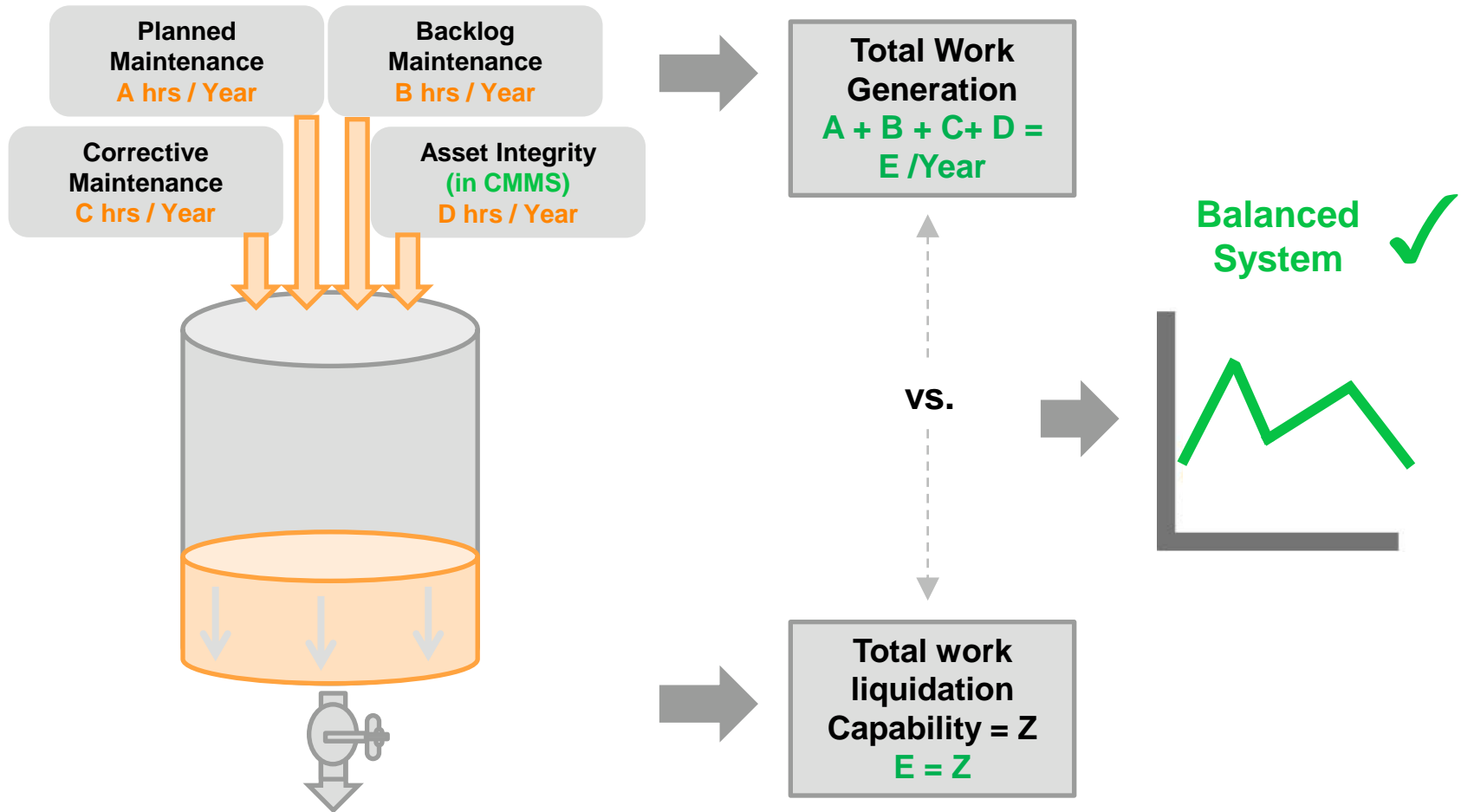
Context: Maintenance was not sustainable

Not possible to liquidate total manhours generated



Objective: Bring demand in-line with capacity

Further aims to increase efficiency, improve work process, and reduce cost



Methodology: Differentiated Strategy



Outcomes: Differentiated Maintenance

Sustainable Maintenance Strategy

Total work demand reduced

Validated by TA's and Maint engineers

No impact on Safety nor Reliability

Improved efficiency and rationalisation of work

Focused reliability on high priority equipment

Structured AI Strategy

Significant backlog eliminated

Improved prioritisation of work

Better visibility of risk

Improved balance of PM Vs CM

Increased reliability

Elimination of duplication

Dynamic Scheduling

Deferral Process

OPEX Savings

Novel Methods

- Digirad
- Cyberhawk
- Multiple ROV
- Zone Approach

Fewer vendors (more by 'core crew')

-optimise POB

Reduced management Fees

Proper Scoping & Improved Activity Execution

OIL&GAS^{UK}

Apache

bp



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Maintenance Optimisation Reviews Sharing Experience and Learning

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