

# Bringing the Practical Touch to Business Improvement

Cargo Oil Storage Tanks Maintenance & Repair  
Value Analysis

# Cargo Oil Storage Tanks Maintenance & Repair - Value Analysis

## Success Story

### 1. Why are we doing it?

Our clients Floating Production Storage & Offloading (FPSO) cargo oil storage tanks require regular repair and maintenance, previous repairs and maintenance have taken longer than expected and the cost appeared to be above estimated market rate.

Input from experienced operators, partners and suppliers indicated there was an opportunity to improve current performance to an acceptable level



## 2. What was happening before?

Current inspection estimated at 30 days and maintenance and repair estimated at 20 men for 24 months (560 days)

Estimated budget £11m per COT (2 off)

Excessive deferment of production

## 3. How is it now?

Lean procedures created & rolled out based on industry best practice and industry learnings

Flow of activities improved, reducing duplicate visits, lighting & blasting

Risk based decision making, only doing the work required.

Using independent 3<sup>rd</sup> party specialist

Reduced offloading delays, safety checks put in place allowing later stop work & earlier start

## 4. What have we achieved?

Created lean, safe procedures, designed by the users

Implemented use of new technology

Collaborative relationship with partners and suppliers

Maintaining production levels

## 5. What benefits have we realised?


Total time to complete the maintenance from 569 days to 138

Cost of COT maintenance & repair reduced from £11m to £1.5m, reduction of £9m per COT

Reduction of £3m per slop tank

Reduced production deferment

As the execution team defined the process & changes they implemented them effectively & continued to look for further opportunities for improvement throughout other aspects of other activities they undertook



12,000 man  
day reduction

£9m per COT  
reduction in  
cost

Replication  
Opportunity

## 6. What was the value of the deliverables?

Reduction of 12,000 man days of work (COTs & Slops Tanks)

Overall saving of £24M (2 off COT & 2 off slop tanks)

The opportunity to replicate across the FPSO & Business with a solid proven safe process.

