Using Data And Metrics To Track AWP Project Lifecycle Performance

Featuring: Martin Swaine (Shell), Stuart Block (Fluor), Josh Girvin (O3 Solutions)
Moderated by: Lloyd Rankin (Group ASI)
Today’s Panelists

Martin Swaine
Digital Construction Manager
Shell

Stuart Block
AWP Manager
Fluor, Farnborough

Josh Girvin
CEO
O3 Solutions
Today’s Topic

How can you use data & metrics to optimize and automate Advanced Work Packaging?
Martin Swaine, Shell

- 35 years’ experience in Oil & Gas Projects
- London detailed design on emerging CAD systems with KBR, taking 3D to Aberdeen to use it for Brownfield modifications
- 8 years of offshore major and minor mods working closely with the end customer of construction.
- Shell International projects including 1 year in the jungles of West Africa in Construction Pre Comm, Comm & Startup
- 2013 onwards developed the 4D5D Program
- Privileged to have spent my career working with and for some fantastic people and proud to be part of the foundational next generation digital revolution.
Shell’s Data Journey
Indications and Learnings on Multiple Shell Projects

- **Manpower efficiency increase of 12%**
- **Time on Tools observed at 67%**
- **25% improvement in field productivity comparing GT1 to GT2**
- **11% cost underrun against total project expenditure**
  - $20M USD under budget
- **Project delivered 3 months ahead of schedule**
- **Rework at < 1%, target 3%**
- **Quality inspections increased from 50% to 80%**
- **Zero recorded lost-time**
- **Better safety statistics compared to previous projects**
- **Interface challenges ID’d in Engineering before hitting Construction**
- **Streamlined Turnovers for Mechanical Completion**
- **Effective constraints management, timely decision making**
- **Significant Reduction in Requests for Information (RFIs)***

Where Shell is Going Next

- AWP Expansion Plans for Data
  - Digital Threads
  - Contract Requirements (with Data Requirements)
  - Early Path of Construction Visualisation
  - Digital Completions Tool
- Hands on Tool Time Global Rollout
  - Standardise Data Collection and Visualisation
- Virtual Mission Control Room / Collaborative Working Environments
  - Paperless War Room
- Collecting ROI
Stuart Block, Fluor

- Over 30 years in the industry
- Started career as a welder in a Module Yard
- Gained over 20 years+ in project controls
- Project Eng / Mgr on On/offshore project
- TCO FGP Project - WFP Manager
- Over 15 years working with Fluor
Fluor’s Focus on Data

- Reimagining standard project management reports based on AWP best practices (Replaced Excel)
- Sharing Dashboards with Contractors
- Sharing Dashboards with Owner
- Constraint Management Visibility
- Pulling data from multiple tools and consolidating for visualization
- Training Tracking & Visualization
Results

- Reduced Time and Effort in Creating and Managing Reports
- Role-Specific Dashboards (Management, Site Supervisors, etc.)
- Automated Constraint Management
- Data Driven Constraint Management Review Meetings
Where Fluor’s Going Next

- Using AWP framework to provide leading indicators on project performance
- Better CWP Release Management
- Data-Centric Rollout
- Data Integration with All Systems
- Better Understanding on Construction Details
Josh Girvin, O3 Solutions

- CII AWP Benchmarking & Performance Co-Chair
- CII Technology Committee Member
- Former SVP Product & Market Strategy for Materials Management / RFID Software
- 12 Technology Patents
- BSE, Mechanical Engineering
AWP is a Project Execution Methodology
Concept Through Commissioning
Leading vs. Lagging Indicators

AWP Process and Data Standards Enable Forecasting & Predictive Analytics
AWP Dashboards, Scorecards & Best Practices

400+ Best Practice Metrics - Clear Definition of AWP by Project Phase

Dashboards & Scorecards - Health & Adoption of AWP KPIs by Role
Are you currently using AWP data to drive your project performance?

Join at

slido.com

#awplondon
What data & metrics do you currently collect to support AWP?

Join at

slido.com

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How far along are you in the process to automate AWP?

Join at

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Panel Discussion

How have data & metrics supported your AWP program?
Panel Discussion

What was your biggest challenge when creating a data & metrics plan for your AWP program?
Panel Discussion

What advice would you give to those just getting started? (Lessons Learned)
Questions?

Martin Swaine
Digital Construction Manager
Shell

Stuart Block
AWP Manager
Fluor, Farnborough

Josh Girvin
CEO
O3 Solutions
Thank you!