

Project Controls Expo – 14th November 2018 Emirates Arsenal Stadium, London

"Supporting organisational change through successful development and integration of Controls and PMO functions"





About the Speakers

Christine Mclean

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Head of Profession for Project Controls – Nuclear Christine has spent over 17 years in the project controls arena covering cost, planning, estimating and risk execution (the last twelve years being employed by Wood). She has worked in utilities, oil & gas and nuclear. She is a Fellow of the ACostE and elected member of their council.





Richard Dealhoy

Head of Planning and Controls – Programme and Project Solutions
Richard is a Director level Programme Manager with 15
years multi-disciplinary experience. Specialising in PMO,
controls and governance of major projects, programmes
and portfolios. Richard leads the Project Controls and PMO
function of wood's Environment and Infrastructure Services
external PM consultancy business.



About the Topic

The presentation will provide a perspective on the deployment of Controls and PMO functions:

- Assessment of their success factors and Business Case
- Development and execution
- Integration with the wider business
- Transition into BAU
- Further development
- Continuous improvement
- Ongoing effort to sustain the function, achieve its business case and demonstrate continuing benefit.



Benefits Case for proposed function

There is a lot of material articulating the benefits of implementing a PMO within a project delivery organisation.

Research shows that increasing project management maturity can result in:

- an overall cost reduction of 6-26% per project.
- ☐ 16% increased delivery to time requirements
- 26% more customer satisfaction

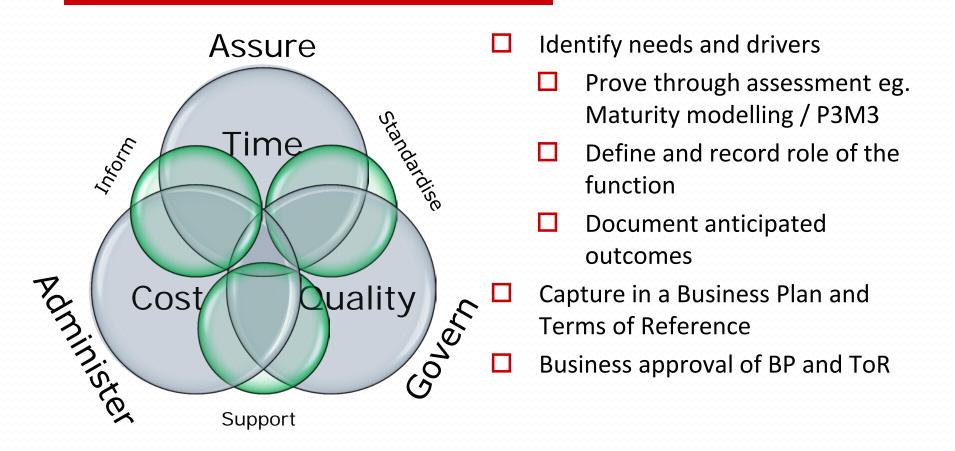
These benefits are achieved through:

Quality Assurance: The PMO can undertake independent assurance of projects on a risk based approach – providing review and assurance over the most complex projects

Training and Development: The PMO can support development of skills within the organization, raising the maturity and competence of staff thereby reducing costs through risks and write-offs.



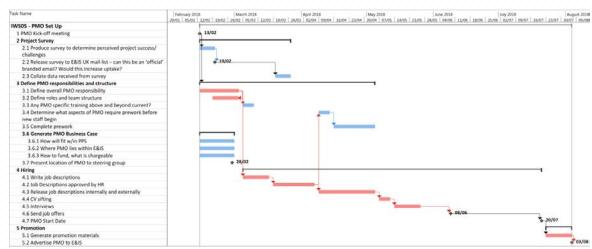
Design and structure



Plan and manage as a project

Initiate	Develop		Implement	Transition	Close	
Mobilise Plan	Option Selection	Preliminary Design	Design Construction	Handover Defects	Close	

- ☐ SMART planning
- Time for rework, delay in adoption and optimisation
- Recognise as the Business Change it represents
- Acknowledge the communication and soft side of delivery

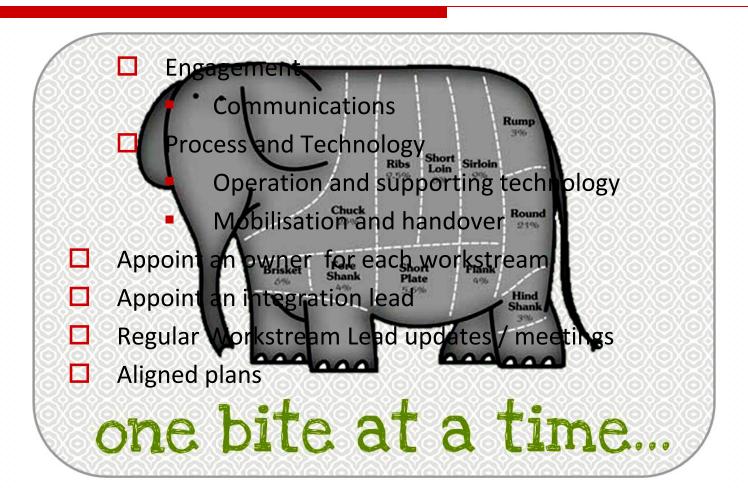




Where to Start: Unsurmountable Tasks



The Rest of the Elephant



Develop identity and community - ENGAGEMENT

Stakeholder engagement is one of the key workstreams in the development of a new function

Community engagement will encourage:

- Stakeholder buy-in + confidence
- ☐ Staff and community support
 - Smoother deployment and integration
- Increased efficiencies
- Alignment to practical need
- Innovation



Deployment – mobilisation of function

An effective mobilisation strategy can make the difference between a successful deployment and failed change initiative.



- 1. Stakeholder engagement
 - Consistent messaging
- Pre-training and tool-kit sessions
- 3. Staged deployment
- 4. Overlapping / dual operation of old an new process
- 5. Visibility of senior resource
- 6. Resource deployment
- 7. Flexibility
- 8. Feedback sessions



Pit-falls and Bear Traps

Document everything from Original Need onwards Be specific with the needs of your organisation – target 2 of the 3 PMO focuses and scale functionality to match. Follow your standard corporate governance process Create a formal business case Include a Benefits Plan Refer back to the Business Case regularly Plan and execute as a change project Allow plenty of time Engage with your stakeholders Stage/stager mobilisation Adopt existing process where appropriate and fit for purpose.



Post Mobilisation Bedding in and Flourishing in BAU



Summary of Governance Requirements

	Category A/B Project	Stand Alone Category C Project	Framework	Project or Task under a Framework
Project Management Plan			Condensed PMP	Task Specific Work Sheet
Project Assurance Plan	Required (can be included in PMP)	Required (can be included in PMP)	Required (can be included in PMP)	N/A
Quality Control Plan	Required (can be included in PMP)	Required (can be included in PMP)	N/A	Required if there is a deliverable i.e. not embedded resource
Commercial Plan	Required	Required	Required	N/A

Reporting Indicators

Lagging Indicators

(based on a reflective view of the current status of the project)

- HSSE
- Commercial
- Schedule
- Costs to Date
- Margin to Date
- Cash
- Customer Feedback

Leading Indicators

(based on a forward view of the status of the project and anticipated issues)

- Engineering & Technical
- Procurement/Supply Chain
- Construction & Commissioning
- Resources
- Risk Management

PROJECT OVERVIEW					 				
Lagging Indicator	Current Status	Change in Month	Co	omments	Leading	Indicator	Current Status	Change in Month	Comments
HSSE	Acceptable	↔ ↔			Engineering &	Technical	Acceptable	↔ ↔	
Commercial	Minor Actions	\leftrightarrow			Procurement.	Supply Chain	Minor Actions Required	\leftrightarrow	
Schedule	On Schedule	\leftrightarrow			Construction a Commissioning		Acceptable	\leftrightarrow	
Costs to Date	On Budget	• • ↔			Resources		Acceptable	1	
Margin to Date	More than Forecast	\leftrightarrow			Risk Manager	nent	Review Required	1	
Cash	Acceptable	\leftrightarrow							
Customer Feedback	Acceptable	• ↔							



Planning Lunch 'n' Learns

Topics

- Layouts and Codes
- Report Writing in P6
- NEC3 Programme Requirements
- EVM
- Resource Loading
- Resource and Cost Loading Process
- Estimating and Planning
- The New P6 Database
- Change Control

Delivered to:

- All ODUs
- Various discipline Team Forums
- Various locations outer-lying offices

We, along with PC, have made great strides in understanding and achieving improvements for our projects this year and I think this will continue to gather a pace in 2018. The planning workshops that Planning held were very good and I think have helped people to understand the place of planning and its benefits



Project Controls Away Days

What disthindividual eto okta ve ayn take

Evaluation eveloping their internal network

- wisthoin preojelet with thoesir specific area
- □ Pastreestbratekesstinething 'new'
- ☐ bistagf comments/issues/concerns for
- □ हिर्म्शानुरविश्वक्रिक्षान्य क्रिक्शानुर्वे के क्रिक्शानुर्वे क
- ideas, items to cover at PC Forum etc. Understanding the Project Control
- Reinforce commitment to delivering the Improvement Plans

The away day was an excellent opportunity to put a name to a face, learn more about different areas of the business, it was our opportunity to have a voice to say how we feel processes date eletime propaged and that weething showere safleons the aealna cosi effect one have bearie istement to stream of the reversity of the stream o now bigihtight phealst forode helop Prejectis Cotetaons & Colsonina direiatrions is Ikedean bb bas beendthe stionships with weal eaglest & Comptrove a ken avoleid geforfyt bedan ich besing devertabled.

Project Control Improvement Plans

Our clients expect that we deliver projects on time and within the approved budget - effective project control contributes significantly to meeting these expectations.

Developed to improve the visibility and capability of Project Controls in the Nuclear(STS) business to support successful delivery of Projects.

The Improvements will contribute to maximising profitability by improving forecasts (cost and schedule), fostering integration of data, streamlining processes and building on our risk capability. To achieve this we will develop the capabilities of Project Control personnel to ensure we provide SQEP individuals to undertake Project Control duties on projects and frameworks.

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	Organis	ation
	Capability at December 17	Capability at end December 18
01	Profile of the Project Controls function, whilst being raised in 2017 needs further promotion	Project Controls function respected throughout Nuclei as a Technical Function and ODUs understand the benefits this brings to projects. ODUs use us not only for resources but for general advice and guidance.
02	Defined links into the wider Wood Project Controls function	Links established throughout STS and wider Wood.
03	Projects do not budget for sufficient PC support	Tendering areas know to include X% for PC (depending on Category)
04	Working with Finance and Commercial to create a list of responsibilities and which department owns what role	List on PC Sharepoint showing the division of tasks between Commercial and Finance and Project Control
05	Varied understanding of PC in the PM community and how they can assist the PMs.	RACI Matrix issued for PM/PC

	Processes and	Procedures
	Capability at December 17	Capability at end December 18
PP1	Project Control Processes and Procedures need to be revised to current best practice and ensure they are applied consistently.	Complete set of procedures updated and consistently applied.
PP2	No standard trackers for higher risk projects	PC Dashboard to be in place for Cat A, B and C1 projects
PP3	Some standardised reports	Standardised templates shown on Imap.
PP4	General lack of understanding of Change Control	Every individual in the PC Function understands the importance of Change Control and can be seen in budgets and plans.
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	People				
	Capability at December 17	Capability at end December 18			
P1	Minimum CAS attributes per discipline established	CAS attributes matched to all levels per discipline.			
P2	Individuals do not know who they can go to for certain areas of expertise apart from PC Management.	Established list of individuals and their key skill on PC Sharepoint.			
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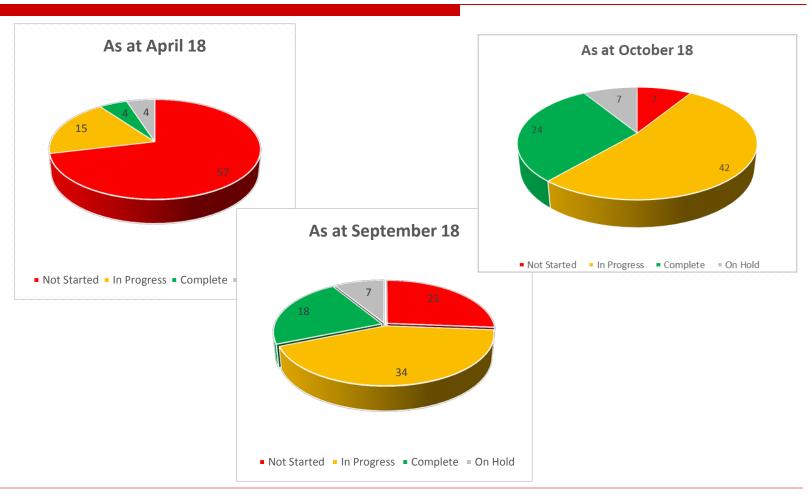
	Tools						
	Capability at December 17	Capability at end December 18					
T1	No integrated PC tools	Some integrated PC tools					
Т2	Non-PC personnel have access to some of our systems	Removal of IT access for non-PC personnel					
Т3	no off the shelf Technical Assessments for Project Control function.	Standard off the shelf Technical Assessments for all sub- disciplines in Project Control					
E							
L							

		Action Plan		
Ref	Area	Action	Who	When
1	01	Complete awareness sessions for VP, OD and OMs.	CM	Jun-18
2	02	internal marketing of areas/projects where the actions of Project Controls has improved the outcome of the Project.	CM	Aug-1
3	P1	Ensure a career progression chart, matched with CAS attributes and levels, and general training is published.	CM/MB/IM	Apr-1
4	P2	List to be produced and stored on PC Sharepoint.	СМ	Feb-1
5	T1	Be part of the STS Working Group looking at PC Systems	CM	Feb-1
6	PP1	Revised suite of PC Procedures - highlighted on each Individual Action Plan.	см	Jun-1
7	PP2	Trackers to be created and used by PC Management to track and audit higher risk projects	IM/MB/CM	Mar-1
8	PP3	Create suite of standardised templates for all projects.		Sep-1
9	03	Work with Bidding Team to ensure sufficient PC support is included in Project Manhour estimates.		Jun-1
10	T2	Removal of non-PC personnel	СМ	Jun-1
11	04	Llaise with Commercial and Finance to create a MASTER list of roles and which owns what in each area	CM	Jun-1
12	05	RACI Matrix for PM/PC	CM	Jun-1
13	PP4	Change Control training for all PC personnel covering understanding change, impacts to budgets and impacts to schedules.	CM/IM/MB	Sep-1
14	01	Write dummies guide to Project Controls	СМ	Jun-1
15	Т3	Standard off the shelf Technical Assessments for all sub disciplines in Project Controls	СМ	Sep-1

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Progress Monitoring of Improvement Plans



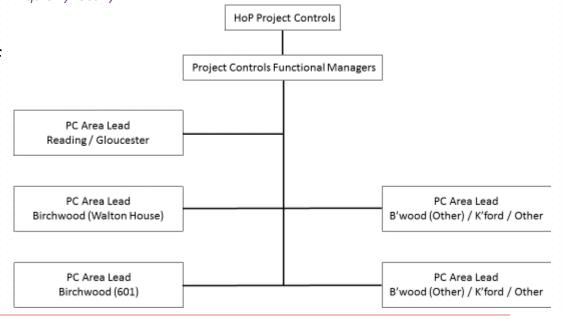
New Area Leads Appointed

When we grew from a team of 41 individuals to over 70 individuals we identified that the teams were too big for two Functional Managers to manage effectively, as well as developing the competency of individuals.

We hired a third functional manager and appointed 5* Area Leads so they started to gain line management experience at a lower level (succession planning).

I believe the area lead roles have been very helpful, freeing up time for more senior members within our team and also expanding my network of people who I can go to for support.

I think it's been a positive step as we have local points of call and someone to go to in the first instance for minor issues, rather than going to the PC Management Team. If it needs escalating then it can be or resolved fairly quickly locally.





Competency Assurance

- ☐ Vanhgastlæntdionlefærqæisæunneentlævelloopleaænsteetrod planning
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 - Essential for demonstrating competencies to customers and regulators alike









Profile

Allows you to maintain your complete skill set, manage your CV's and provides a public profile for others to see. Expertise

Allows the business to monitor our capability and helps you source suitable people with the correct skills for your needs. Assurance

Delivers assurance to the business and to our clients that competency management within the business is robust.

Valuable for summarising capability for bids, CV management etc



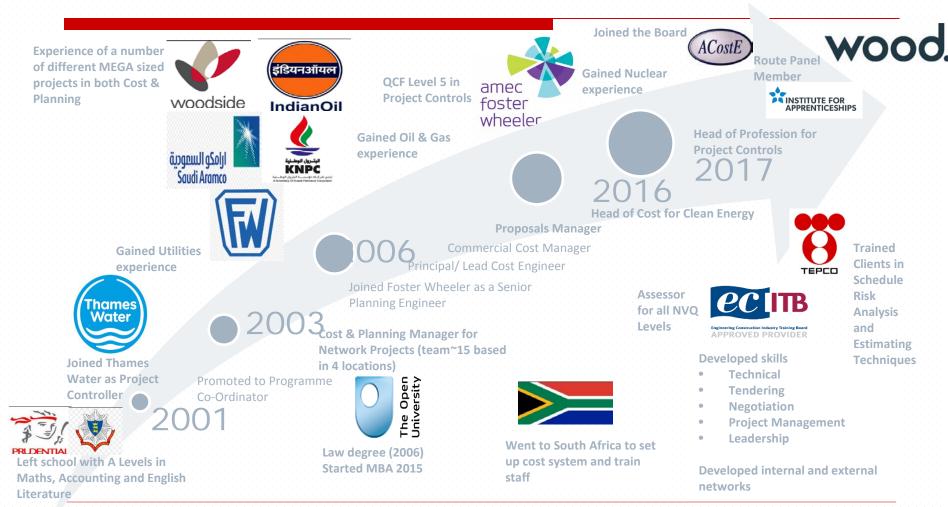
Project Controls Career Path Issued

- Provided a career path map for individuals to see the progression within Project Controls
- Included current Academy self learning courses and external training required, but it is more about the skills required for promotion and advancement
- This excludes all systems training (MDAX, EXCEL, ORACLE, P6)

Development Needs and Activities	Current Programmes	Career Development Pathway
Strategic Management and Leadership (marketing, law, finance, commercial, organisational development, IT, HR)	Diploma in Professional Management/ MBA	НОР
Project Management Introduction to Strategic Management	APM Level C Certificate in Professional Management Delivering results in challenging environments Managing diversity and culture	Team Manager
Mentoring Project Management Negotiation skills Auditing skills Risk Awareness	Mentoring APM Level D QCF Level 5	Principal
Pathway to People Management Performance Management Interviewing skills Managing conflict Facilitation skills Presentation skills	Engagement, Performance and accountability, developing your people, individual and team management, resourcing Diversity of thought Managing conflict Facilitation skills Presentation skills	Lead
Coaching Skills	Coaching and training others Leading effective meetings	Senior Engineer
Understanding yourself Writing for the workplace	Personal impact and influence Report Writing QCF Level 3	Engineer
Starting in Project Controls Understanding roles on projects	Time Management Learning to Learn Introduction to Project Controls	Technician Apprentice



My Career Journey





Qualifications and Training

- ☐ QCF Level 3 9 individuals started on their journey in September 2017
- ☐ Advanced P6 + Pertmaster (10 individuals trained) July 2018
- ☐ Academy Area Lead Training (5 individuals trained) started March 2018
- Mentoring
- Coaching
- Personal Development Plans
- Membership of ACostE/ APM

Career Development

- ☐ Monthly Project Control Forum
- People Forum and HiPo's identification,
- Alignment of Competency claims to job profiles
- Working with Learning & Development to provide "soft skill training" to "develop the full potential of individuals".
- Further Chess Moves facilitating breadth of projects, contracts, different Clients





This is our COMMITMENT to you all with the aim of EMPOWERING individuals to have the COURAGE to challenge/innovate



What Next?

Continuous Improvement and Value Proposition Testing

RJD notes

Team Development and Growth

- Continued development of staff through chess moves
- Develop strategic training plans for future years
- PC Away Day(s)
- Maintenance of Career Paths and Competency Assurance
- Support and benefit from industry body and forum engagement:
 - Attendance and presentation at Project Control Expo (November)
 - Continuing to Support ECITB Trailblazer for Project Controls at Level 6/7
 - Continued involvement in board of ACostE
 - Continued involvement with IFA
 - Membership and accreditation of ACostE/APM for individuals

