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Data, data, data: is there ever thing as too much?

Geoffrey Rea

Project Director Infrastructure, Turner & Townsend





About the Speaker

Geoffrey Rea - Project Director Infrastructure, Turner & Townsend

 Experienced Director with over 30 years' experience, providing Strategic Direction & Leadership in Program Delivery, PMO & Integrated Project Controls Services in the private and public sectors in Aviation, Government, Nuclear, Utilities, Construction & IT.







About the Topic

Topic outline

• Data equals power but only if we know what to do with it. The benefits of data are enormous but there's a danger we're not using it to make intelligent, informed decisions within project controls.

Geoff Rea's talk gives real world problems and issues from large, complex projects and programs such as Western Sydney Airport, Sydney Metro, Hinkley Point C, Nuclear Decommissioning and other government programs to show how powerful data can be if harnessed correctly.

































Authority















Management Information Sequeroments?



Increase in Operating overflead to capture and numage data over Project Marycle



Confixing and meaningless Data, EPTs and Management Reports



Primarile and American and American and American

Wasted Date, and inefficient use of management time in reviewing data



Inefficient Management Decision Making









Reports Reports Reports































I don't recognise that data?





Service Model



Setting up for success encompasses four key areas:

- Organisation
- 2. Processes and tools
- Information management
- 4. Change management





Traditional PMO

Administrates
Supports the programme manager
Fixed reporting
Standard mythologies
Monitors project activities
Low value added to projects
Inflexible change
Monitors resourcing

Good at **recording** and **reporting** data. Less effective at identifying issues may impact performance

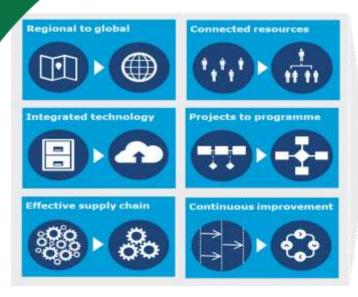
Intelligent PMO

Enables and coordinates
Leads team collaboration
Relevant reporting
Agile – adjusts approaches
Assures outcomes
Creates value
Leads transformation
Builds capability

Pro-active in identifying and mitigating risks before they occur. Seeks out, validates and drives improvement opportunities.







Driving Performance

- Capital efficiency
- Performance improvement
- Risk reduction

Intelligent data is used to benchmark and drive performance, set improvement targets and support effective, confident decision making



Controversial opinions...

More data does not result in better decision making...

"Project Controls is really simple"

Oh and useful if done right!







The Project Controls Cube – Simple!









Processes

Processes, Functions & Architecture



Processes





Integration



Integrated Project Controls Systems

Update Cycle & Baseline Reporting

Project Performance Reporting





Processes

What influences decisions making?



















Intelligent information











Intelligent information

Project Controls are the data gathering, management and analytical processes used to predict, understand and constructively influence the time and cost outcome of a project or program, through the communication of information in formats that assist effective management and decision making.







Do tools & systems add complexity?

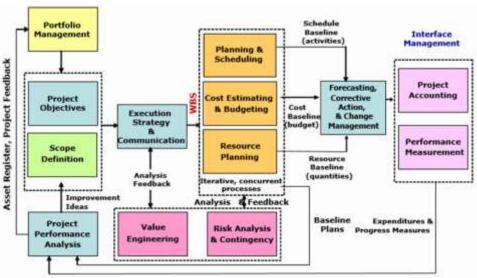
My first Major Project there was one computer on site which only the planner used!







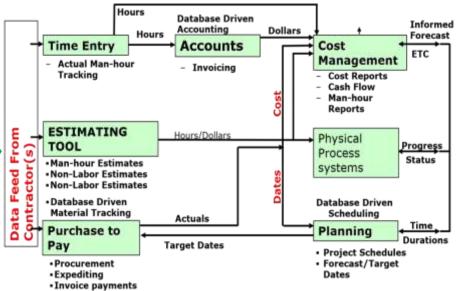
Do tools & systems add complexity?







The contractor?

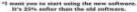






How can software help?

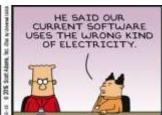
















Conclusion...

Do tools and systems add complexity? **Yes**

Is the PCM or PM still important?

Oh Yes

Quality, robust data - what does that mean?

One version of the truth?

What data is critical?

Time, cost, risk

What is needed to make good decision?

Intelligent info?

Do we need all this data?

?





Does more data lead to better decision making?

- No not in itself but how we use it and intelligently communicate it does.
- Yes robust systems and processes to create consistent approach without stifling
- creatively and free thinking (after all we want intelligent challenging people)
- Less Project Controls data does not lead to better outcomes.
- The right data correctly communicated is the secret to getting decisions made.







Does more data lead to better decision making?

- The lack of good quality data and systems integration does adversely affect the outcome
- Having good quality data that is fully integrated with robust systems and processes, does not in itself lead to better outcomes, but does increase the probability
- Robust estimates and baseline schedules supporting project initiation are essential

No surprises...



Make it simple

- Set up for success
- Drive performance
- Instill confidence

- Intelligent Project Controls
- Deliver & improve
- Deliver sustainable benefits





...and keep it simple



Front end effort Detailed processes (scalable to project size) Robust systems



Increased complexity

Lots of measures / time consuming data

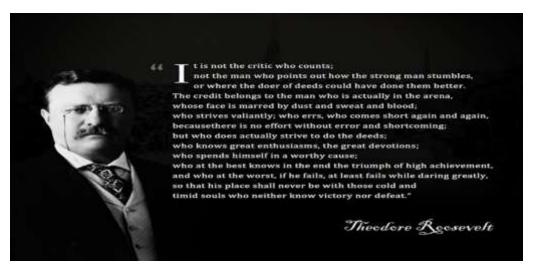


Better decisions





The men – and the women – in the arena







Sub section heading

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