Project Controls Expo, Australia – 26th November 2019

Melbourne Cricket Ground, Melbourne

Field Notes:

Transforming Integrated Project Controls Platform by Engaging Disruptive Opportunities

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About the Speaker

Verghese Kochummen Solutions Architect at Insynchro Australia Pty Ltd

- Degrees in Electronics Engineering and Computer Science
- Working in Software Development for over 25 years
- With over 15 years with a Project Controls focus
- PMP, Principal Architect of Executive-Eye



Presentation Outline

Topic outline

- Traditional Project Controls Platform
- Field Experience for Property Development
- Opportunities for Disruptions
- Roadmap



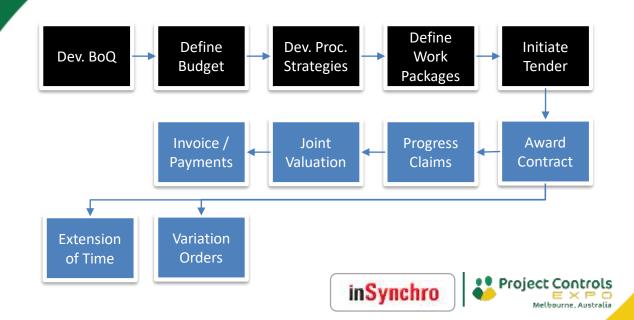
Traditional Project Controls Platform

A Systems Overview

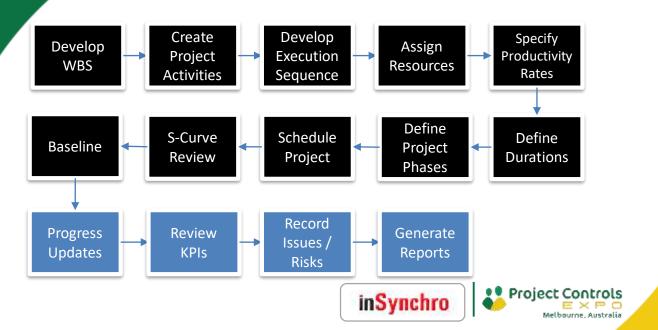




Project Controls Platform (Contracts)



Project Controls Platform (Schedule)



Project Controls Platform (Revenue)





Function to Application Mapping ERP Contracts (AP) Scheduling Project Schedule Project Risk Engine Delivery ERP Billings CRM (AR)

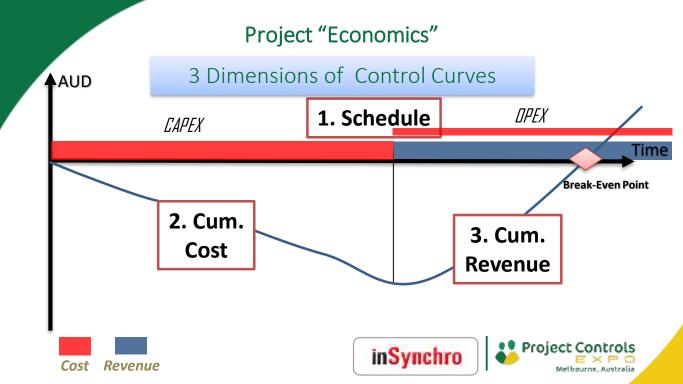


What is the End Game?

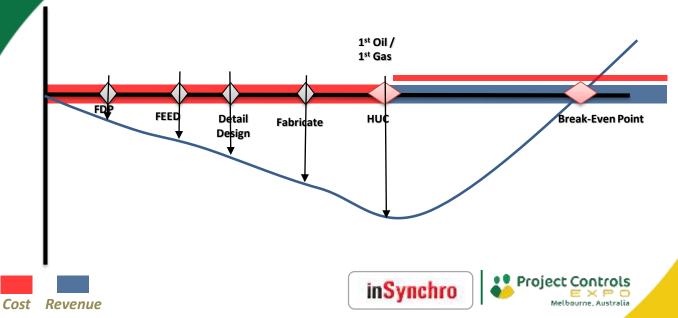
Companies need to:

- 1. Develop and Work a Business Plan
- 2. Make Money
- 3. Pay for Overheads
- 4. Make Profit
- 5. Grow

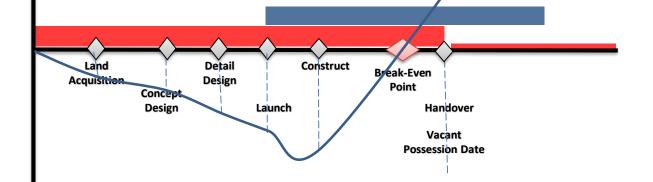




Break-even Curve for Oil & Gas Upstream



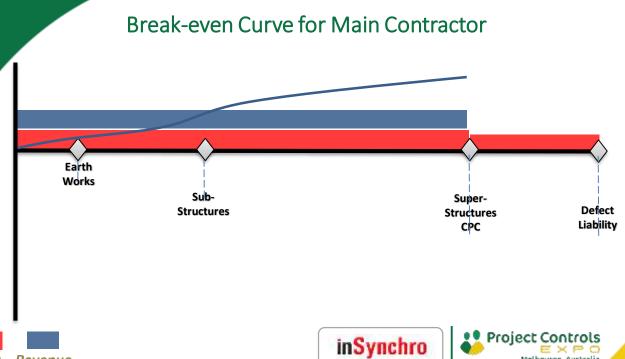
Break-even Curve for Property Development



Cost

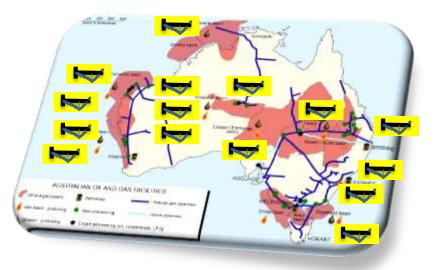
Revenue





Cost Revenue Melbourne, Australia

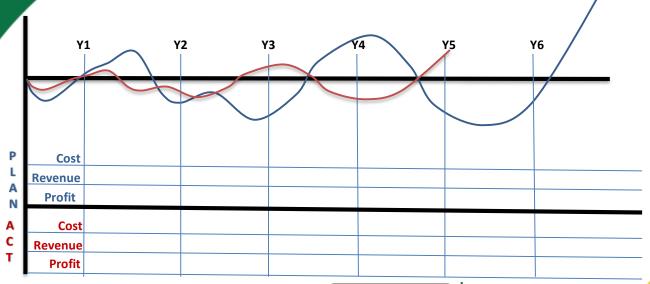
What is the End Game?







What is the End Game?







A Property Development Use Case

- Larger Corporations
 - Heavy Overheads
 - Need Constant Pipeline of Projects
 - Sequenced for Sustainable Growth
 - Replenishment of Pipeline
- "Fuel" Bank
 - Property Development → Land Bank
 - Oil & Gas → Oil and Gas Fields



Land Bank Planning



- Each parcel treated as a project
 - Schedule: Start / Finish
 - Product: Double Storey / Bungalow / Single Storey
 - Cost: CBS, Estimates, Commits, Cost Distribution*, Payments
 - Revenue: Revenue Estimates, Revenue Distribution*, Billings





What are the Challenges?

- Non-Integrated Solution Footprint
 - Information "Lock-In"
 - Extraction from Control Application
 - Transformation to Common Data Format
 - Loading to BI Tool

Common Challenge for "Best-Of-Breed" IT Procurement Strategy

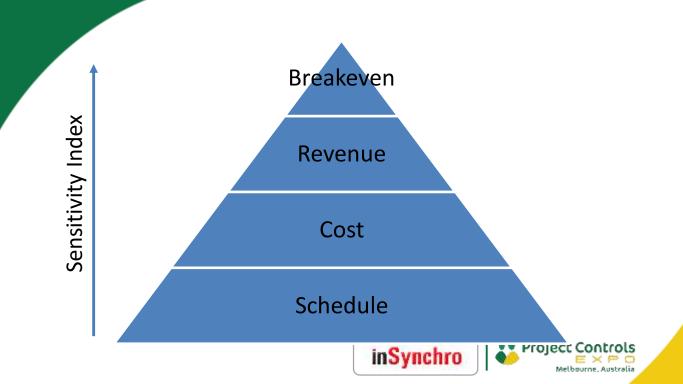


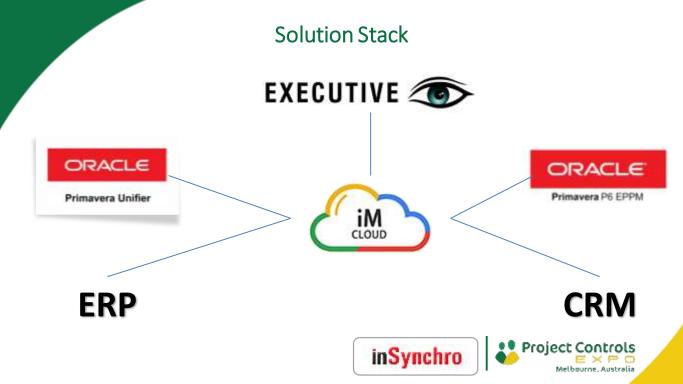
What are the Challenges?

- Sensitivity / Confidentiality
 - Schedule Delay
 - 1st Oil / 1st Gas / Vacant Possession Date
 - Impacts: LAD, Breakeven Point, ROI, ...etc
 - Cost Overrun / Budget Shortfall
 - Poor Estimation, Plan with Revenue "Rolled-In"
 - Impacts: Source for "Bridging" Fund, LAD, Breakeven Point, ROI, ...etc
 - Revenue Shortfall
 - Poor Estimation, Bad Market
 - Impact: Loan Repayment, Breakeven Point, ROI, ...etc









Solution Stack – P6, Unifier, BI Publisher



Oracle Primavera Unifier

- Workfilmen
- Cost Breakdown Structure
- Cost Sheet
- Cash Flows

Oracle Primavera BI Publisher

- Report Authoring
- Reporting via P6 and Unifier
- Custom Reporting.
- > Highly Formattable Reports

Enabling Technology

Oracle Primavera P6 EPPM

- WBS, Activities, Relationships,
- > Resource Assignments, Cost Loaded
- Scheduling Engine
- Baseline & Progress Updates
- Performance Analysis

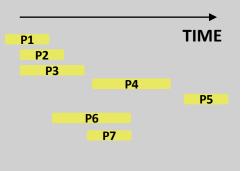
Solution Highlights: Schedule Dimension





Region 1

Project 1 Project 2 Project 3 Project 4 Project 5 Project 6 Project 7 Region 2







Solution Highlights: Cost Dimension







Solution Highlights: Revenue Dimension



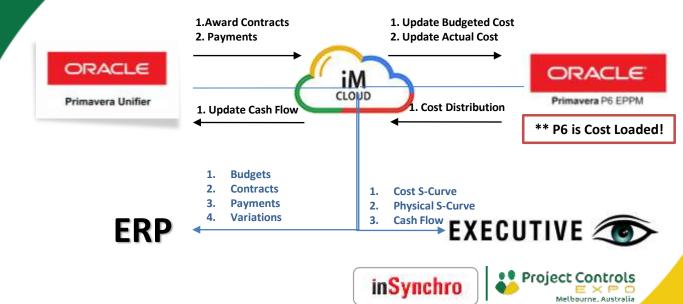


Project 1	Plan	Billings
Revenue		
Billings		





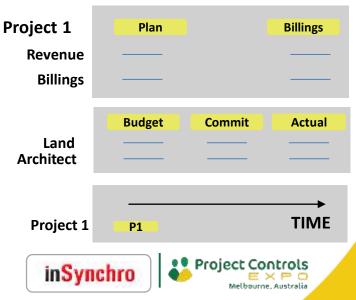
Solution Highlights: Integration Manager (Cloud)



Solution Highlights: Revenue Dimension







Demonstration



Towards 5D



Call Us If You Are Looking To ...

- 1. Establish an Integrated Project Controls Platform
- 2. Review / Transform present Project Delivery Practices
- 3. Explore Ideas on extending present technology investments
- 4. Proof of Concept to manage business / project challenges

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