Face the Change

Are we good enough?
Do we need to change?

Project Controls E X P O

Solid Basics – the Controls Cycle

Whose Knowledge Bank?

Techniques – Mature EVMS

➢ Earned Value Management System

Project Controls EXPO
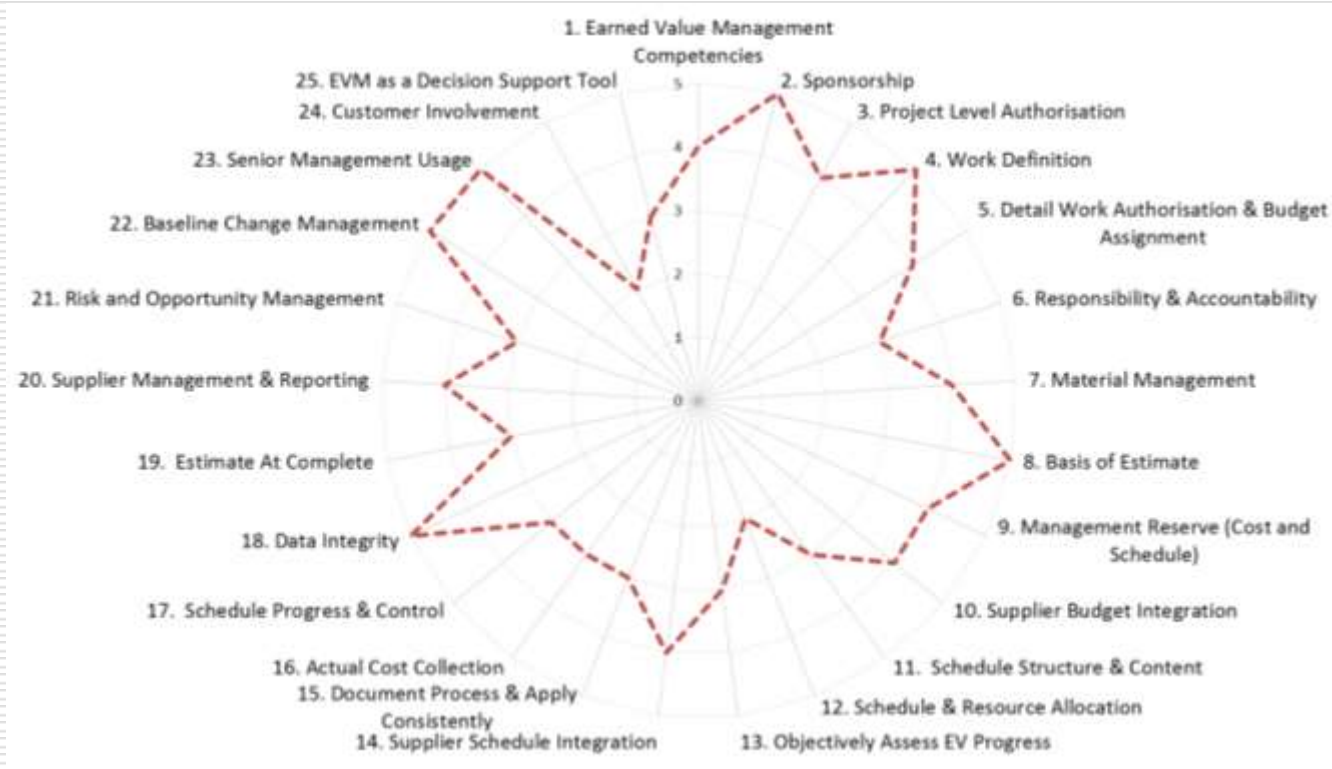
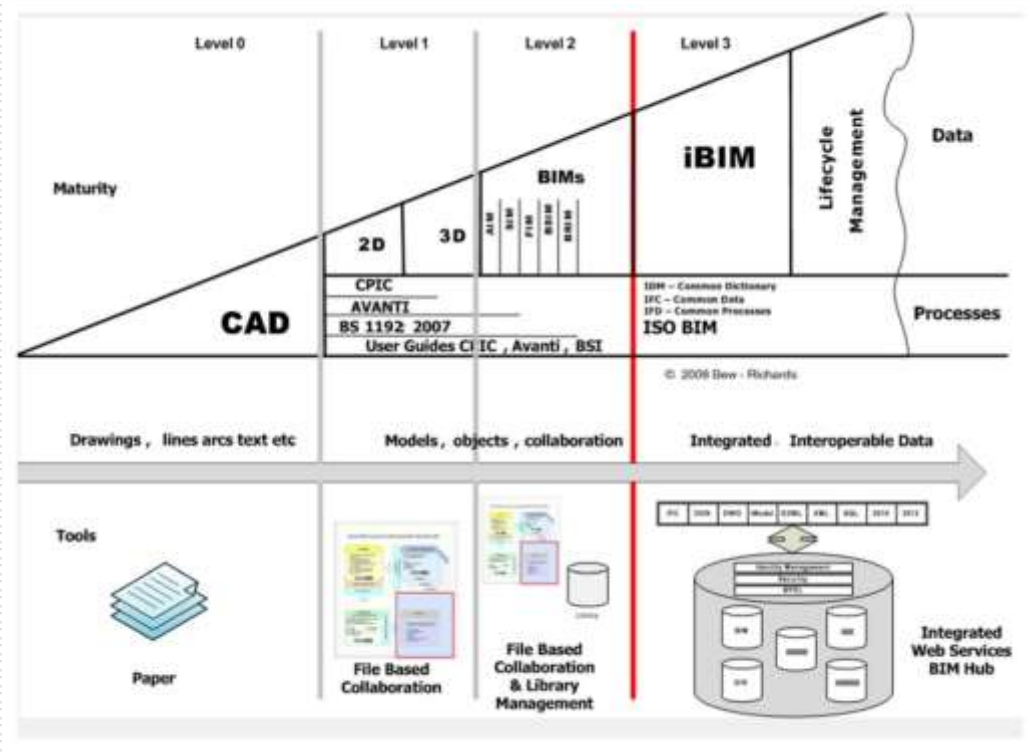# Techniques – Integrated Process Suite

- ➢ Integrated business processes
  - ➢ Practical procedures aligned to processes
  - ➢ Optimised through Lean
  - ➢ Cradle to grave

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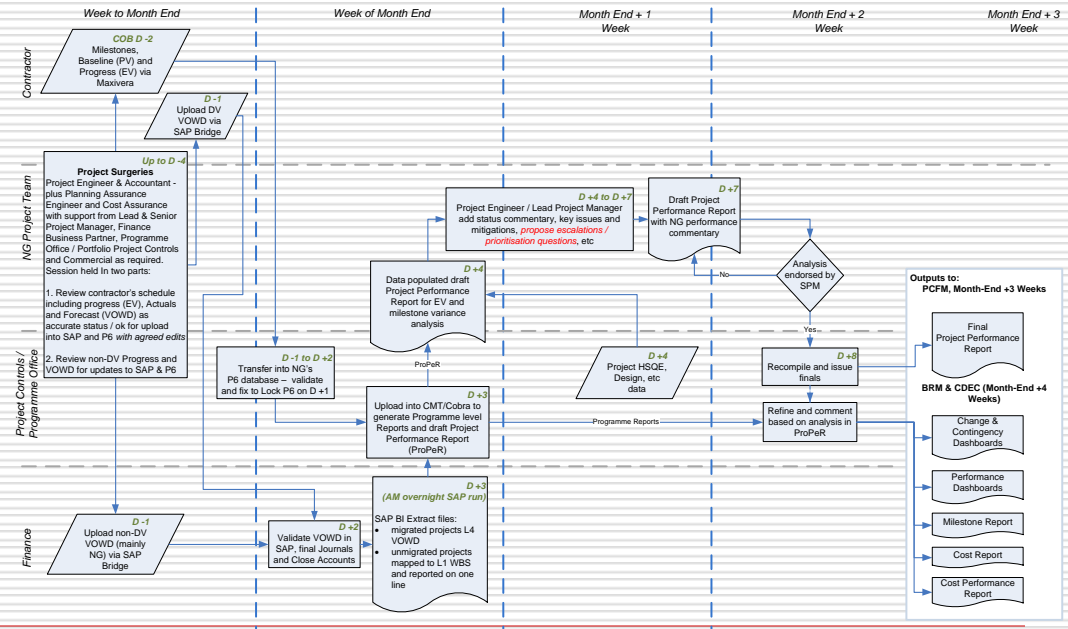
Techniques – Risk & Trend Forecasting and BIM

➢ Trending

➢ BIM – Integrating 3D models with 4th (time) and 5th (cost) dimensions

Technique – Surfacing Information through Technology

Access performance data through a Business Intelligence tool to explore high-level metrics and allow users to design custom views, drill-down or sample from specific control account sets or compare selected periods.

Data cube feeding Building Information Management (BIM) System for 4D & 5D

Tools, Systems and Data

➢ Well defined data structure (WBS)

Project Controls EXPO
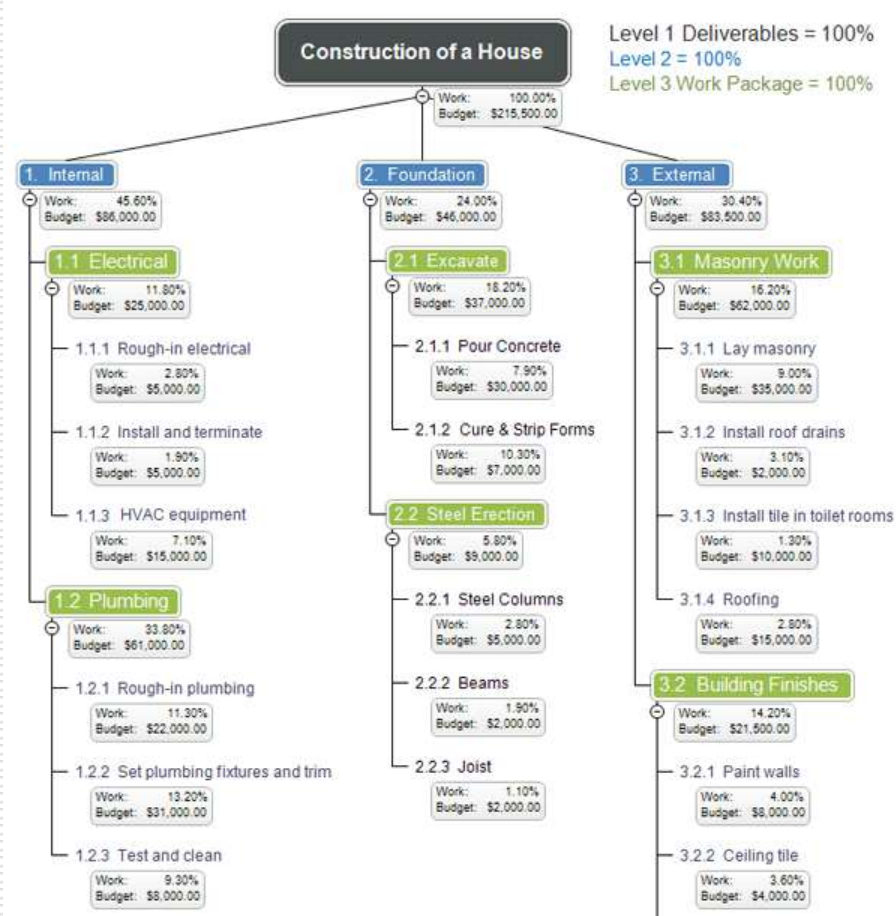
Tools, Systems and Data

➤ Core systems and Data

  ➤ Single source of the truth

  ➤ Systems integration model

  ➤ Technology improvements

➤ Reporting tools

  ➤ Data Warehouse and Management Information systems

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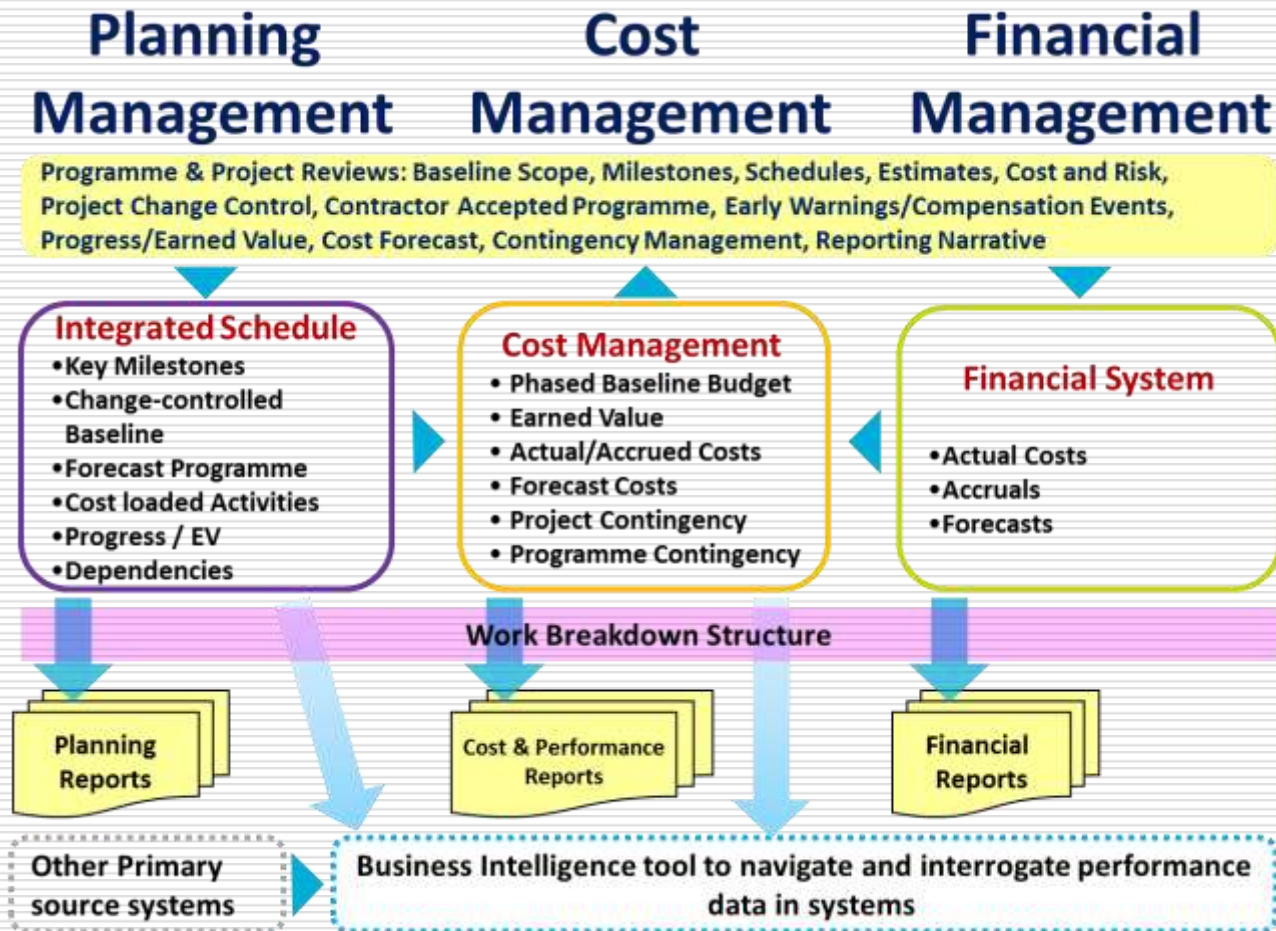# Single sources for Key Project Data

Planning Management   **Cost Management**   **Financial Management**

Programme & Project Reviews: Baseline Scope, Milestones, Schedules, Estimates, Cost and Risk, Project Change Control, Contractor Accepted Programme, Early Warnings/Compensation Events, Progress/Earned Value, Cost Forecast, Contingency Management, Reporting Narrative

Integrated Schedule
- Key Milestones
- Change-controlled Baseline
- Forecast Programme
- Cost loaded Activities
- Progress / EV
- Dependencies

Cost Management
- Phased Baseline Budget
- Earned Value
- Actual/Accrued Costs
- Forecast Costs
- Project Contingency
- Programme Contingency

Financial System
- Actual Costs
- Accruals
- Forecasts

Work Breakdown Structure

Planning Reports

Cost & Performance Reports

Financial Reports

Other Primary source systems

Business Intelligence tool to navigate and interrogate performance data in systems

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People

- Knowledge, skills and experience

- Strong development structure

  - Support

  - Mentoring

  - Training

- Sharing best practice

- Where we belong

  - Career path definition, standardised qualifications and professional recognition

Project Controls
EXPO
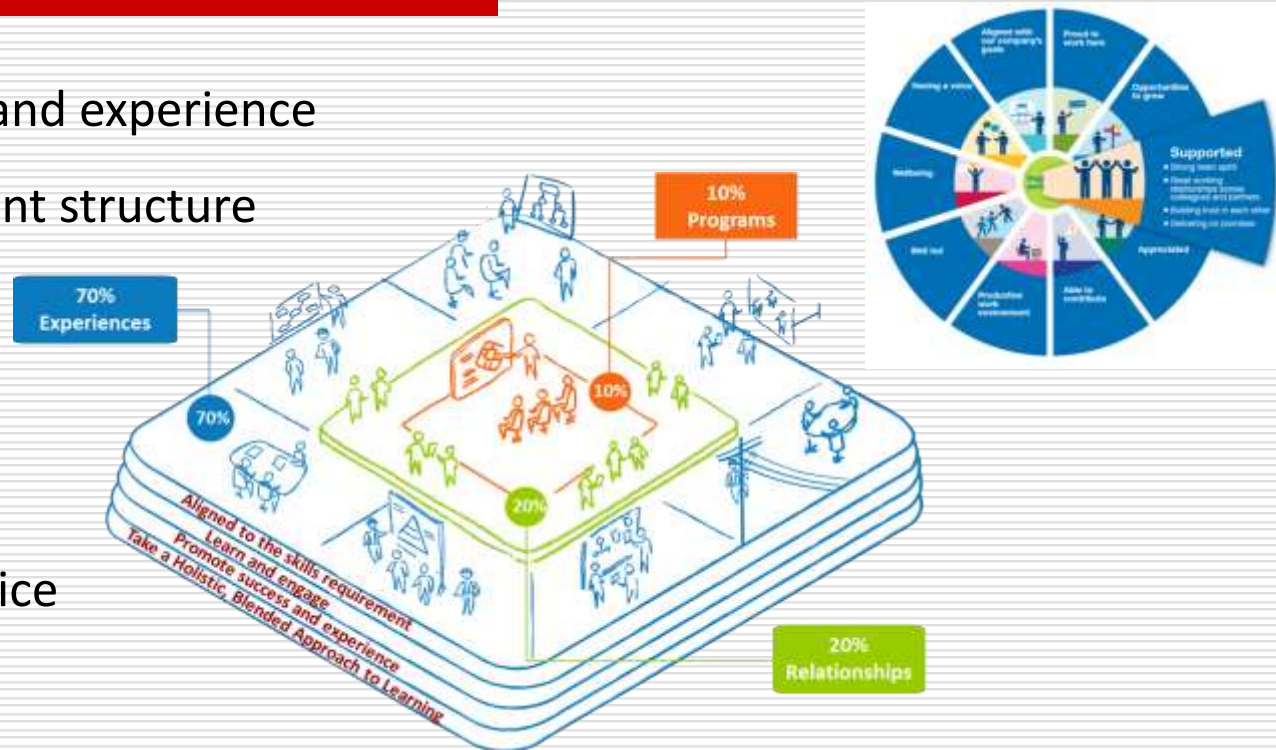
The heart of good project controls

➤ Adoption of Earned Value Management

➤ Driven through a well defined WBS

➤ Integration with best project and business management practice

Project Controls should answer three <u>key questions</u>:

1. Where are we now?

2. When is it going to finish?

3. How much is it going to cost?

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Changing Face of Project Controls

➢ Techniques ✓

➢ Tools and Systems

    ➢ Cost, Schedule and Financial Management ✓

    ➢ Business Intelligence (BI) ✓

    ➢ Data Warehouse / Cube ✓

    ➢ Building Information Modelling (BIM) *Maturing quickly*

➢ Integrated processes *Needs to be much better*

➢ Sharing best practice throughout the industry *Could improve*

➢ Crystallising approach to developing Project Controls professional community *Disjointed*

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Changing Face of Project Controls

Are we good enough? NO

Do we need to change? YES

Adapt, Adopt and Apply

Project Controls
E X P O

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Changing Face of Project Controls

Thank you

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