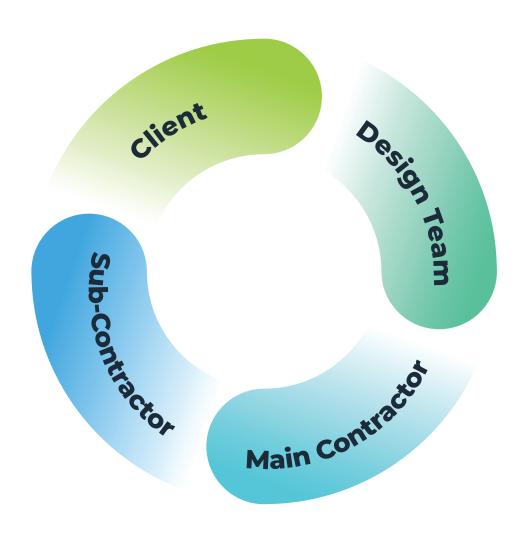


Construction Ecosystem





- Modern Construction Professional
 - Learn the way, then learn a way
- Academic Perspective
- Toolkit for Project Planning & Management



Client's Perspective

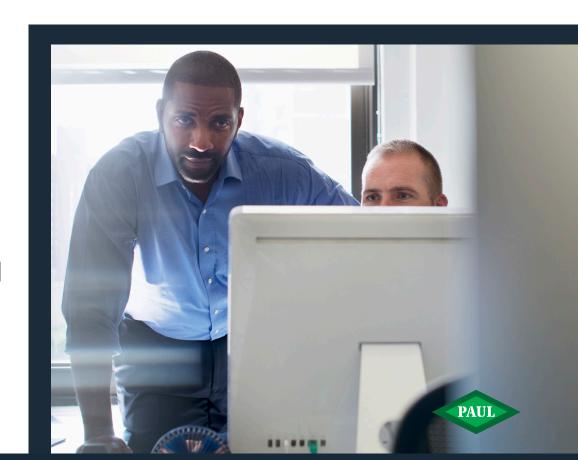


- Understanding of Project Objectives:
 What you want to get out of it?
 - Be a savvy organised client
- Awareness of BIM Benefits: "Not just 3D" data-driven decision-making.
- Data Ownership and Management:
 Standards, client led CDE, Validation,
 FM, Handover RWA Tokenisation/
 Securitisation
- Collaboration Expectations: transparent tech tools for issue resolution

Design Team's Perspective

- BIM 'Competency':
 - 'relevant' software tools like Revit, Tekla, SketchUp, or ArchiCAD – transfer of useful information to Delivery team
- Collaborative Mindset: real-time data sharing and coordination –
 - OpenBIM platform technology (.ifc, BCF)
 - data-based modelling (information model vs 3D model)
- Coordination and Clash Detection:
 Clash "avoidance" > interative design >
 smoother handover > less RFIs > reduced
 timeline
 - How to use tech to communicate these live changes?

- Data Standardisation: data formats / naming conventions smooth data exchange.
 - Data analysis and validation
 - Aligned with project sequencing and constraints



Subcontractor's Perspective - Skill

- BIM Awareness: Be aware of and aligned with the BIM process ISO19650 but this is just a standard, a lot of SCs are doing a version of BIM already!
 - Build Digital (EU BIM Task Group, Scottish Futures, Operam....)

Model Integration:

- Detailed 3D models!! Follow LOD responsibility matrix (MEP, Structural elements...)
- Understand format options, and coordinates guidance!!
- Collab, Collab internally/externally you are a builder!

Digital Skills:

- Collaboration/Communication tools (MS lists, Slack, Monday, Trello, Morta, BIM Launcher)
- CDE platforms
- Digitise analogue information
- Data Contribution: accurate and up-to-date information (scope).
 - Challenge main contractors for better processes testing/auditing show off



Subcontractor's Perspective - Credentials

- Assessment (CPIC)
 - Willingness to exchange Quality data (Gateway)
- 12 Areas of BIM
 - Design/Construction As-built, Intelligent models
 - LCA/LCC FM Quantities/Costs
 - Visuals Safety Clash Detection 4D
 - Production/Rehearsals Procurement
 - Supply Chain/Logistics Simulations
- Project Experience
- Capability
 - (Discussion to help enablement team with training, coaching and support)





Modern Construction Professional

- Hybrid Skill Set: blend (construction domain / technical)
 - comfortable with BIM tools and consumer level technology, as well as construction principles.
- Effective Communication:
 - Bridge the gap tech experts vs construction experts
 - Show the thing! Understand your audience
- Adaptability Adapt to evolving DigiCon tech stay updated
 - Data warehousing / Blockchain / Dataverse / DAO
 - Design Thinking / Agile
 - Walk the sites!!! Get a mentor, get involved
- Collaborative Nature: Cooperative
 - Foster Teamwork and Info Sharing
 - Multiple benefits



Academic Perspective

- Curriculum Enhancement: CM and Eng curricula to itegrate
 - BIM training (Information Management, CDE configuration, typical approval workflows
 - practical exposure to BIM tools data management, BuildingSmart ifc
- Interdisciplinary Approach:
 - Combining construction knowledge with technical skill training.
- Industry Engagement:
 - stronger ties
 - Bi-directional benefit
 - Graduates are well-prepared for the modern construction landscape.
 - Safety protocols
 - Design management principles and tools





Toolkit for Project Planning and Management



- BIM Software Selection: right tools for project planning and management
 - Autodesk technical platforms (Revit, Civil 3D)
 - Alternative (Tekla, ArchiCAD, BricsCAD, BricsCAD BIM)
 - Tracking/Measuring platforms > PowerBl integrations
 - Logistics/Planning (cmBuilder, Synchro)
- Project Collaboration Platforms:
 - ACC, Procore, or Trimble Connect
 - CDE/Field tools/Communications
 - Revizto, BIM Collab, Newforma
 - Coordination/Comms
- Data Security and Privacy: Robust data security measures when using online collaboration tools
 - DPIA / GDPR committee



