

Return of the Integrator

> Edward Moore CEO ResoLex



### This session

- Changing market drivers leading to integration
- Why "return" of the integrator?
- Role of the integrator
- Skills of an integrator
- World Café workshop

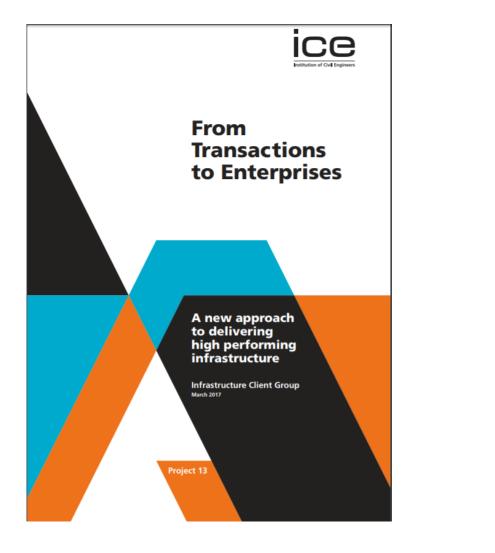


### Market Drivers — PCB Today

- 50% of all construction projects worldwide will include modular content by 2022, driven by the growing global skills shortage
- In 2019 more construction companies than ever before will start trying out integrated business software — for the very first time. New entrants: China, Korea... and Amazon?
- Digital asset life cycle management, integrating both BIM and ERP, will emerge as a future need-to-have



### Market Drivers



	Simple Collaboration	Integrated functions and relationships	High performing enterprise
Governance	Definition of value agreed by the owner. Long-term relationships with suppliers accepted. Performance targets and reporting agreed.	Value shapes investment programme. Regular reports on supplier performance. Performance reporting integrated with production.	Value at the centre of asset management. Suppliers influencing investment decisions. Performance reporting integrated with asset management.
Organisation	Supply chain strategy in place. Traditional contracts with financial incentives. Core team co-located with common systems.	Key suppliers procured through frameworks. Cost reimbursable contracts with incentives. Single integrated project organisation.	Suppliers working together in dusters. Suppliers' rewards depend on performance. Best candidates for key roles in the integrated organisation
Integration	Integration defined and integrator in place. Integrated planning and management. Good practice in health, safety and wellbeing (HSW).	Integrated business processes and systems. Production system in place. HSW defines good practice for the construction industry.	Fully integrated programme team with key suppliers contributing. Real-time digitally enabled production systems. HSW defines good practice for UK industry.
Capable owner	Owner's champion appointed. Owner's functions aligned with delivery team. Plan in place to develop Owner capabilities	Owner functions integrated with delivery team. Key capabilities in place. Development and succession plans in place.	Owner and suppliers working together to develop investment strategy and next generation improvement plans.
Digital transformation	Digital Strategy in place Level 2 BIM in use across the programme. Plan for digital delivery in place. Plan for smart infrastructure in place. Value of information recognised	Suppliers of digital services/ technologies appointed. Consultants' and contractors' business models adapted to the digital environment. Plan for adoption of Level 3 BIM. Information being managed as a resource across the whole 'data estate'	Suppliers of digital services/ technologies at the core of the programme team. Digital production platform in place. Asset management integrated with delivery. Integrated through-life approach to information in place



### **Delivery Integration Partners**

Highways England chief executive, Jim O'Sullivan said: "Routes to Market represents a fundamental change in the way we deliver road projects."

"It will be performance rather than price-based, focusing on building the right projects with the best outcomes for road users and the communities we serve."

"It demands a major step up in our supply chain to embrace innovation and team work and in their ability to deliver value."



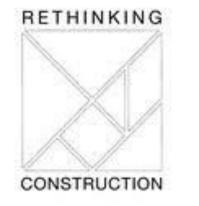
### Why "Return" of the integrator?

#### CONSTRUCTING THE TEAM

BY SIR MICHAEL LATRAM

FIVAL REPORT OF THE GOVERNMENT/INDUSTRY REVIEW OF PROCEREMENT AND CONTRACTUAL ARRANGEMENTS IN THE EX CONTRECTION INDUSTRY

HMSO



THE REPORT OF THE CONSTRUCTION TASK FORCE



# **Key Shifts**

Outcomes rather than output

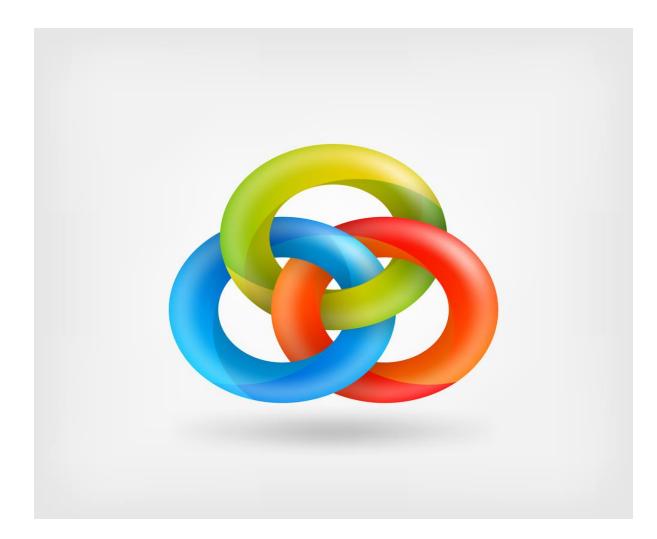
Team solution ownership

Inward investment over short term profit

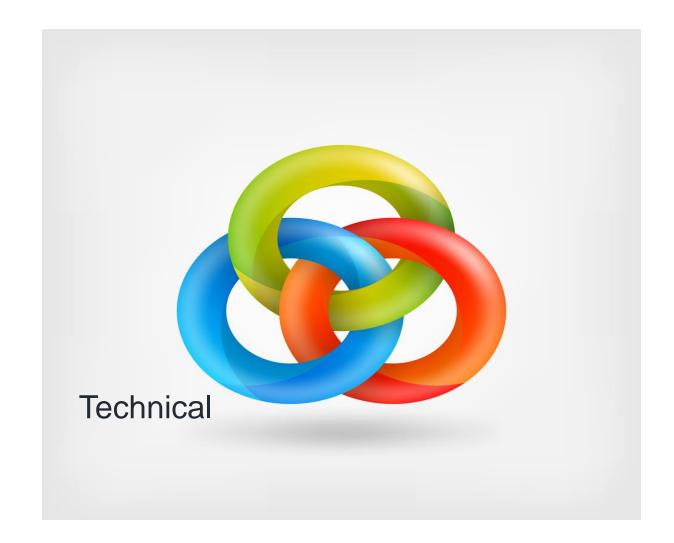
Integration of owner in to delivery team

Peer to peer relationship with client





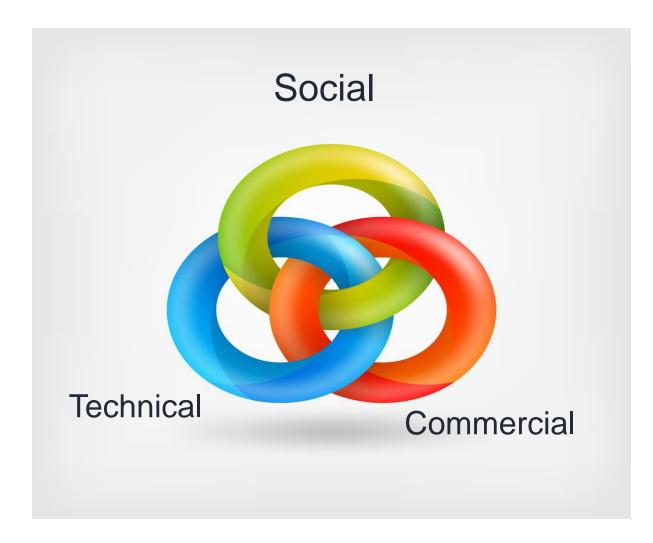












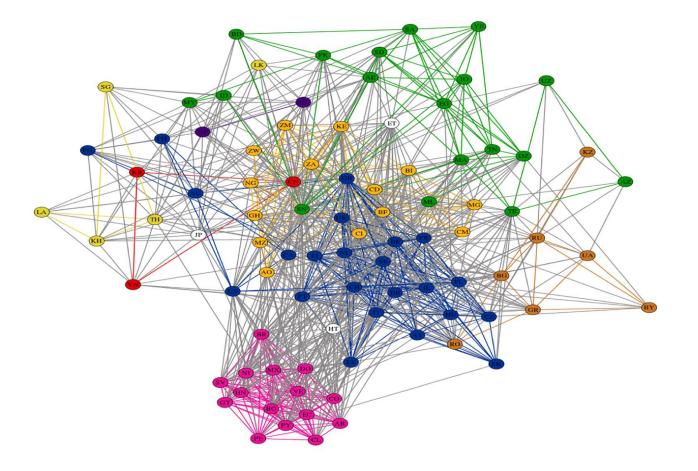


# **Project Relationships**

# R = [Nx(N-1)/2]



### **Project Relationships**





# **Project Relationships**

No. of people	No. of relationships
2	1
10	45
50	1,225
100	4,950
500	124,750



Being a communicating bridge between strategy planning and tactical execution

Bring together processes, practices, methods, knowledge, and people from all over the extended team

Work through community, knowledge, and continuous improvement activities to enable a systemic and holistic view

Ensuring that the various elements of the portfolio are properly coordinated and consistently delivered



- Leadership
- Alignment
- Engagement
- Resilience
- Innovation



# Alignment



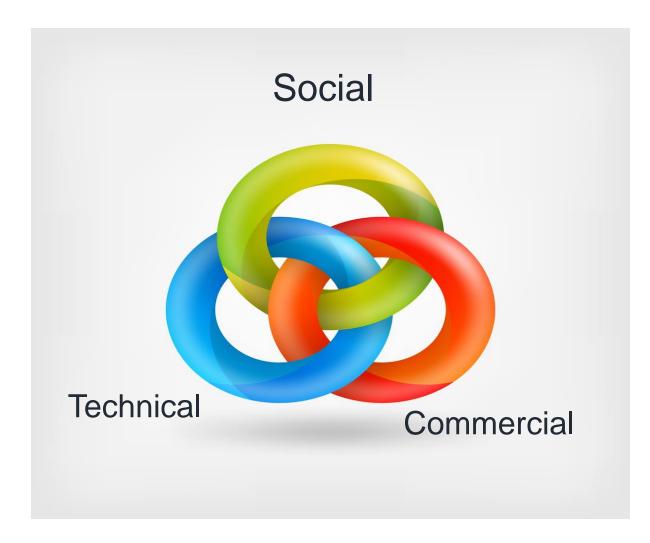




- Leadership
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- Engagement
- Resilience
- Innovation



### Skills of an Integrator





# Fundamental change



# World Café Workshop

#### Tables

- Leadership
- Alignment
- Engagement
- Resilience
- Innovation
- Technology enablers
- 30 second feedback on the most important learning