



RELATIONALLY INTEGRATED VALUE NETWORKS for TOTAL ASSET MANAGEMENT

Findings from Singapore

Parallel study by

Assoc Prof Florence Ling and Benjamin Toh

National University of Singapore

Profile of respondents

- N= 32 questionnaires (n= 873; 4% response)
- Experience: 34% more than 10 years.
- Designation: 53% mid and senior management
- Firm type: Client 38%; Consultant 34%; contractor 28%
- Work nature: 75% D&C; 25% O&M
- Layers of supply chain: 56% (1,2); 25% (3); 19% (>3)

Rank	Goals in achieving 'better value' through above synergies	X
1	Cost, quality, time, safety	4.78
2	Effective and efficient information sharing	4.53
3	Efficient resource utilization & management	4.41
4	Dispute minimization, management & resolution	4.16
5	Lifecycle oriented project outcomes, including life cycle benefit-cost profiles	4.0
6	Relationship building and management	3.94
7	Long-term network building	3.91
8	Lifecycle oriented project drivers, including overall sustainability concerns	3.88
9	Expanded business opportunities	3.66
10	Organizational capacity building	3.66
11	Shared corporate social responsibility	3.59

Key Stakeholders of D&C and **O&M Value Networks**

Stakeholders	D&C	A&M
	Rank	Rank
Clients	1	1
Main contractors	2	2
Designers and	3	3
main consultants		
Sub-Contractors	4	6
Other consultants	5	4
Suppliers	9	7
Users	8	5







Better value and synergies by linking the supply chains in D&C and in O&M.

Better value is achieved through:

- Functional integration (merging functions)
 - Sharing relevant information between D&C and O&M
 - Human resource capacity improvement
 - Joint use of ICT tools (eg BIM)

Better value is achieved through:

Relational integration

(co-operative relationships built on shared goals)

- Sharing relevant information to address sustainability issues
- Similar procurement protocols between D&C and O&M
- Life cycle optimization: D&C and O&M understand each other
- Overlapping supply chains that deliver D&C and O&M
- Arranging common resource pools between D&C and O&M

Better value is achieved through:

- Transactional integration
 (formal linking of organizations)
 - Long term business opportunities
 - Business continuity management.
- Relational integration most preferred method for integration.
 - Loose form of cooperation; cheap and low maintenance
 - Relationship building is important
 - Embedded within the same network; instances of malfeasance quickly known and spread.

Strategies to develop & sustain an integrated value network for TAM

- Adopt relational patterns and behavior
 - Partner selection: quality, not just lowest cost
 - Role approach: clarify roles and responsibilities;
 improve coordination and communication
 - Goal setting approach: agree on output levels, clarify goals
 - Problem solving approach: common problem solving, team building, team effectiveness
 - Interpersonal approach: trust, cooperation, cohesiveness.
- Set up a web-based database (sharing information; identify opportunities; common problem solving)

THE END Thank you for your attention 萬事如意

