GENERIC LESSONS FOR IMPROVING THE TREATMENT OF RISK, UNCERTAINTY AND COMPLEXITY IN THE PLANNING OF MEGA URBAN TRANSPORT PROJECTS

Harry T. Dimitriou, Richard S. Oades, E. John Ward and Phil Wright University College London

Contents

Page

1.	Intro	1		
2.	Key	Key concepts, ideas, issues and methods		
	2.1 2.2	Definitions of risk, uncertainty and complexity (RUC) Relationships between RUC and representational	1-2	
	2.2	paradigms	2-5	
3.	Adva	ancing the future of MUTP planning practices	5-10	
	3.1	Introduction	5	
	3.2	Typical characteristics of MUTPs	5-7	
	3.3	The MUTP life cycle	7-8	
	3.4	The importance of MUTP context	9	
	3.5	The need for a strategy	9-10	
4.	Tran	sferable lessons for MUTPs	10-112	
	4.1	Introduction	10	
	4.2	Working Paper #2	10-54	
		4.2.1 Military planning		
		4.2.2 Earthquake engineering		
		4.2.3 Banking project finance		
		4.2.4 General insurance		
		4.2.5 Agriculture		
		4.2.6 Public health and medicine		
		4.2.7 Corporate world – trust		
		4.2.8 Corporate world – innovation		
		4.2.9 Corporate world - knowledge management		
	4.3	Working Paper #3	54-103	
		4.3.1 City systems - complexity and emergence		
		4.3.2 Strategic and regional planning		
		4.3.3 Transport policy – hypermobility		
		4.3.4 Great planning disasters		
		4.3.5 Property development – major projects		
		4.3.6 Construction and project management	100 110	
	4.4	Comparative analysis of findings	103-112	
		4.4.1 Path dependency		

4.4.2 Innovation

4.4.3	Strategy			
4.4.4	Governance,	regulation	and	enforcement

- 4.4.5 Stakeholders, relationships, trust and transparency
- 4.4.6 Information, tools, techniques and experts

5. Conclusions 112-125 Risk management responses Lessons for MUTPs 5.1 112-114 5.2 115-125

References

126-129

Appendices

Appendix	1: Table of contents of preceding Working Papers	130-131
Appendix	2: Comparative analysis and relevance of	
	contributions in Working Papers #2 and #3	132-139