

Environmental management futures workshop 21 June 2013

Strategic challenges for regional practices
Steve Markham Tasman District Council

Environmental management contexts

Resolving framework approaches

Increasing complexity, uncertainty and
contests in management issues

Working across disciplines

Some visions

Environmental management contexts

- 16 regions as theatres of development opportunity and environmental & community risks & as operational platforms for management responses
- Multiple change drivers and risk profiles with time-spatial change
- History of intelligence from arenas of practice and information systems about values, opportunities and risk profiles – but partitioned and isolated
- Diverse legal mandates and evolving jurisdictions
- Multiple decision-making entities – governance and government
- Multiple cultures & systems of entities – councils, sectors, communities - local solutions but incoherent patterning

REGIONAL ENVIRONMENT OF MANAGEMENT DECISION-MAKING UNDER RMA/LGA/BSA/LTMA

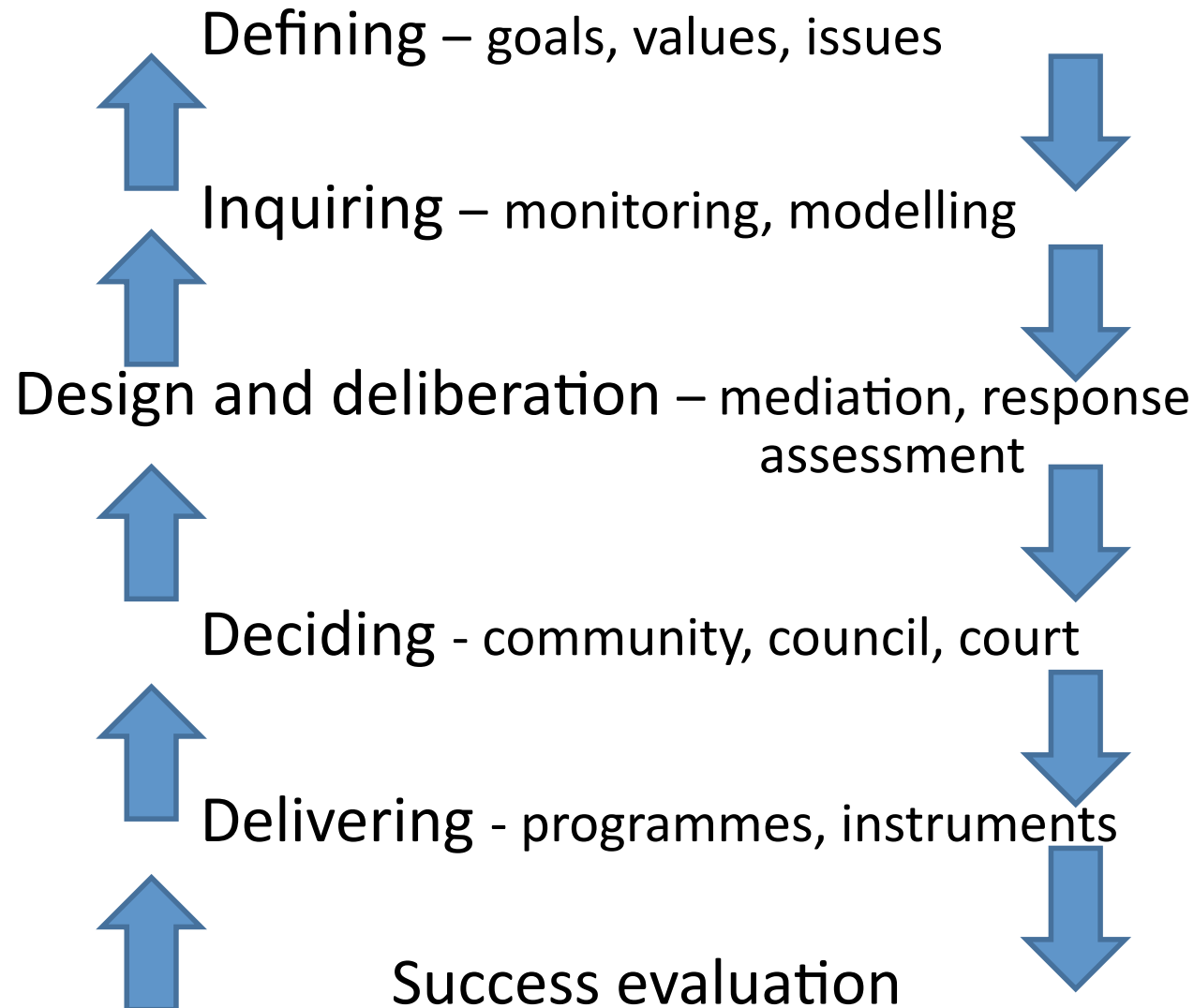
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		SCOPE OF SYSTEM		
SCOPE OF DECISION		REGIONAL SYSTEM	REGIONAL SUBSYSTEM	CONCEPT
SYSTEM DEFINITION	THEMES	Simulation of dimensions of system wellbeing (eco-econ-socio-cultural)	Resource or spatial themes in system (eg. land & water, air, coastal, urban & infrastructure)	Policy or development concept or set for resource, activity, funding
	PROCESSES & OUTPUTS	RPS, SDP, LTP	RP, RCP, DP, AMP, RPMS, RLTS	RP, RCP, DP, LTP policy, AMP, CP, RC
SYSTEM STATE PREDICTIVE EVALUATION	THEMES	Simulation of dimensions of system wellbeing (eco-econ-socio-cultural)	Resource or spatial themes in system (eg. land & water, air, coastal, urban & infrastructure)	Policy or development concept or set for resource, activity, funding
	PROCESSES & OUTPUTS	RPS, SDP, LTP	RP, RCP, DP, AMP, RPMS, RLTS	RP, RCP, DP, LTP policy, AMP, CP, RC
COMPARATIVE PREDICTIVE EVALUATION OF PROPOSALS AFFECTING SYSTEM	THEMES	Simulation of dimensions of system wellbeing (eco-econ-socio-cultural) under proposals effects and risks	Resource or spatial themes in system (eg. land & water, air, coastal, urban & infrastructure)	Policy or development concepts or sets for resource, activity, funding
	PROCESSES & OUTPUTS	RPS, SDP, LTP	RP, RCP, DP, AMP, RPMS, RLTS	RP, RCP, DP, LTP policy, AMP, CP ,RC
DECISION ON PROPOSAL; DELIVERY ACTIONS	PROCESSES & OUTPUTS	RPS, SDP, LTP	RP, RCP, DP, AMP, RPMS, RLTS	RP, RCP, DP, LTP policy, AMP, CP ,RC
SYSTEM OUTCOME EFFECTIVENESS/ EFFICIENCY EVALUATION	THEMES	Plan effectiveness/efficiency evaluation & reporting	Plan effectiveness/efficiency evaluation & reporting	Concept effectiveness / efficiency evaluation & reporting, compliance reporting
	PROCESSES & OUTPUTS	RPS, SDP, LTP	RP, RCP, DP, AMP, RPMS, RLTS	RP, RCP, DP, LTP policy, AMP, CP, RC

RPS regional policy statement
 SDP strategic development (spatial) plan
 LTP long term plan
 RP regional plan
 RCP regional coastal plan

DP district plan
 AMP activity management plan
 RPMS regional pest management strategy
 RLTS regional land transport strategy
 CP capital programme
 RC resource consent

Loops of environmental management operations



Resolving framework approaches

- Frameworks include conceptual (eg. systems), science theories, management (eg. planning, risk), legal, social (eg. process & behaviour)
- Frameworks are storylines in communities understanding, deciding and acting
- Integration of framework approaches & methods within and across management operations

Increasing complexity, uncertainty and contests in management issues

- Drivers and linkages across all issues
- Situation understanding and adaptiveness limited by pace & directions of change in operating environment
- Communication, mediation & transfer of knowledge across players
- Methods and tools for understanding and decision-making with focus, scope & scale, that work across frameworks
- Role of research in building end to end operational knowledge – not science captured

Working across disciplines

- Disciplinary-led inquiry not up to management challenges
- Disciplines occupy niches & compete within and across management operations
- Content moves towards context for each discipline or operation as complexity & uncertainty grows
- Systems of knowledge-building and sharing to optimise management effort

Some visions

- End to end systemic understanding, relationship development and decision acuity across all management challenges across all regions
- Virtual intelligence across the web of management influences, operable across time and spatial scales
- Networked engagement across the regions to evolve excellence and optimised efforts on all management operational practices