

DEEP WINTER SERIES

Playing with Meta-Cognition

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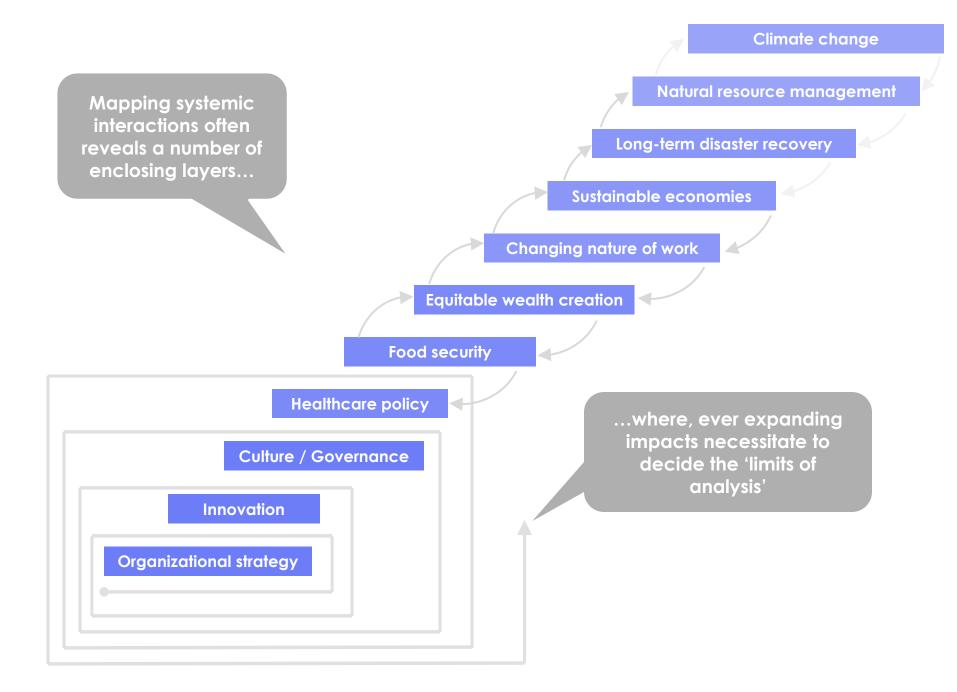
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Atlantic Centre for Creativity (ACC)

Master's Research Project, OCAD University Strategic Foresight and Innovation (SFI) Goran Matic | goran.matic@gmail.com Why meta-cognition and creativity?

Modern Challenges:

Indefinite Boundaries & Systemic Enclosedness



'Effects' are grounded in dynamic, mutual &		Climate change
self-referential interactions –	acts	Natural resource management
	UpstreamImpacts	Long-term disaster recovery
		Sustainable economies Changing nature of work
		Changing nature of work
	Equitab	ole wealth creation
	Food securit	ty OON
	Healthcare policy	
Cu	lture / Governance	
Innovati Organizational stra		which makes it difficult to select a 'definitive' boundary of analysis

Diverse perspectives needed to 'frame' the situation –

Which requires collaboration.

* Relates to the concept of 'Requisite Variety' (Ashby, 1956)

No definitive heuristic exists to negotiate the 'correct' boundary of understanding –

Which leads to conflict over necessary perspectives.

How might we better understand 'complexity' –

To help enable collaboration?

Key Theories in Understanding Complexity

'superwicked problems' (Levin et al., 2012)

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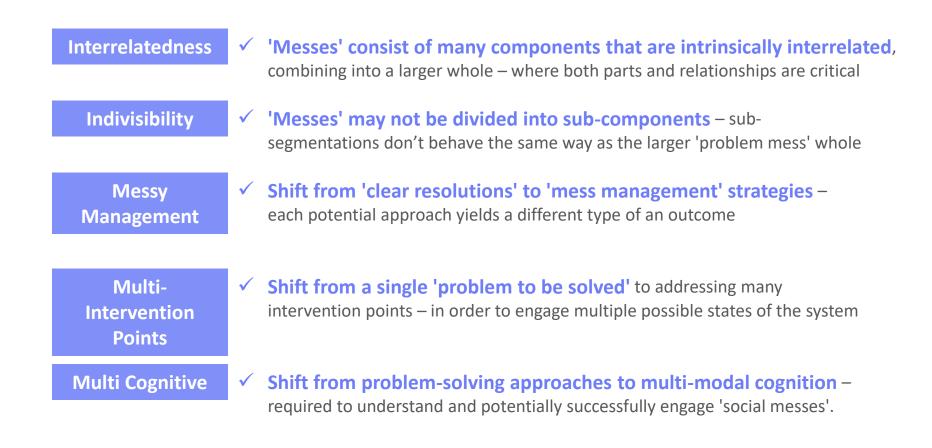
'social messes' (Ackoff, 1974)

'wicked problems' (Rittel & Webber, 1973)

'problematiques' (Ozbekhan, Christakis & Peccei, 1970)

'Social Messes'

(Ackoff, 1979)



Conceptual Synthesis:

towards the "Affordances" of Complexity Opportunity for Methodological Synthesis

Future Value-Base Orientation

Insufficiencies of Determinism

- Need for Deeper Understanding
- Need for Comprehensive Analysis
- Methodological Challenges

✓ Futurity Differentials

- Clarify Systemic Characteristics
- Future Value-Base Orientation

Engagements with Feedback Loops

> Uncovering Meaning with Cognitive Synthesis

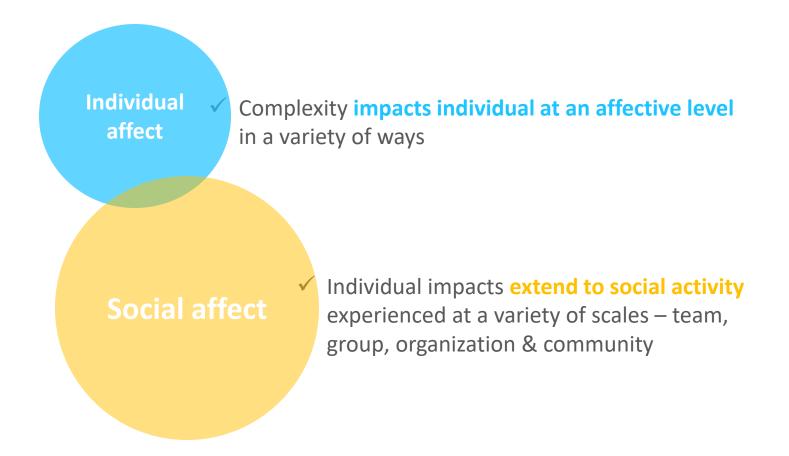
Dynamic Circularities

- Shared Value-Base
- Feedback-Based Goals, Means & Objectives Refactoring

✓ Distributed Meaning

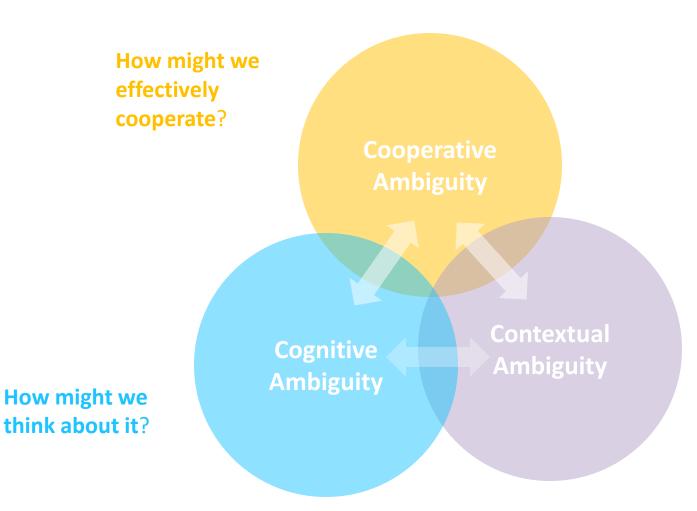
- Descriptive Conceptual Model
- Levels of Cognition

Complexity as Impacting Pre-Cognitive, Affective Experiences

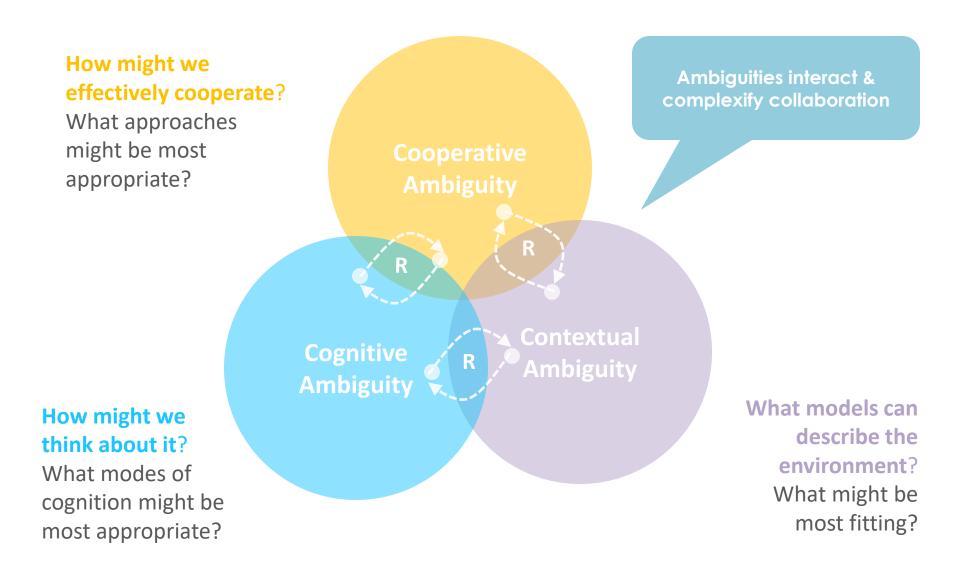


Conceptual Synthesis:

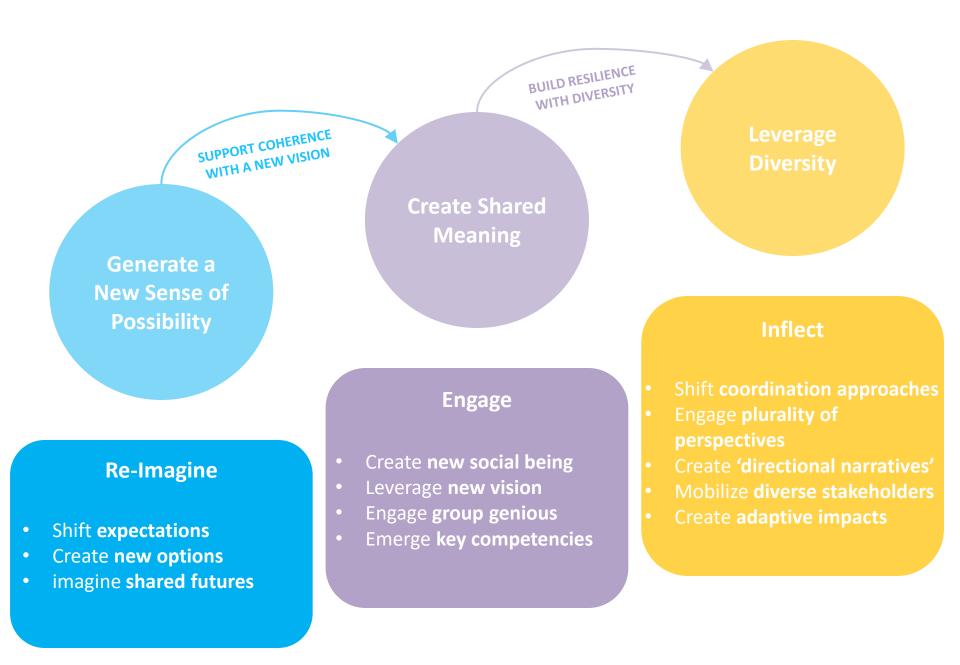
"Complex Social Challenges"



What models can describe the environment?

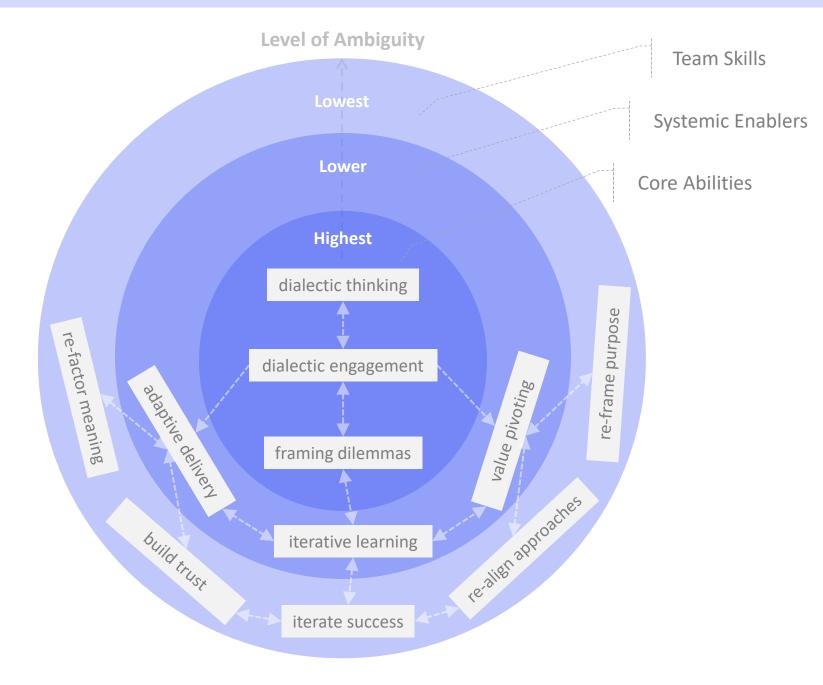


Collaborative Model for Complex Social Challenges

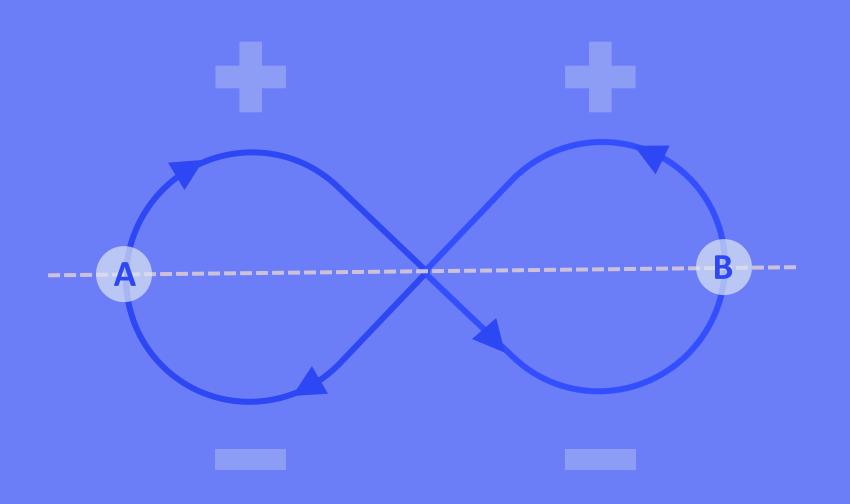


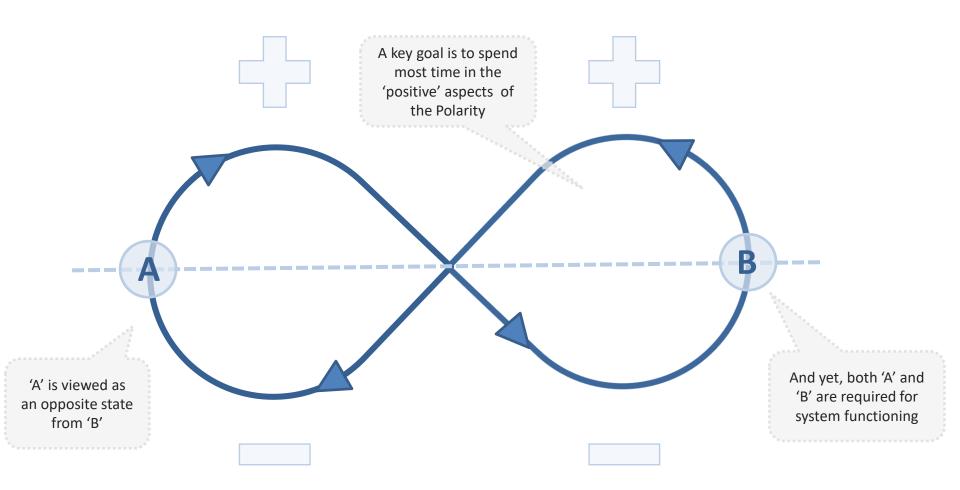
Enabling Change with Meta-Cognition

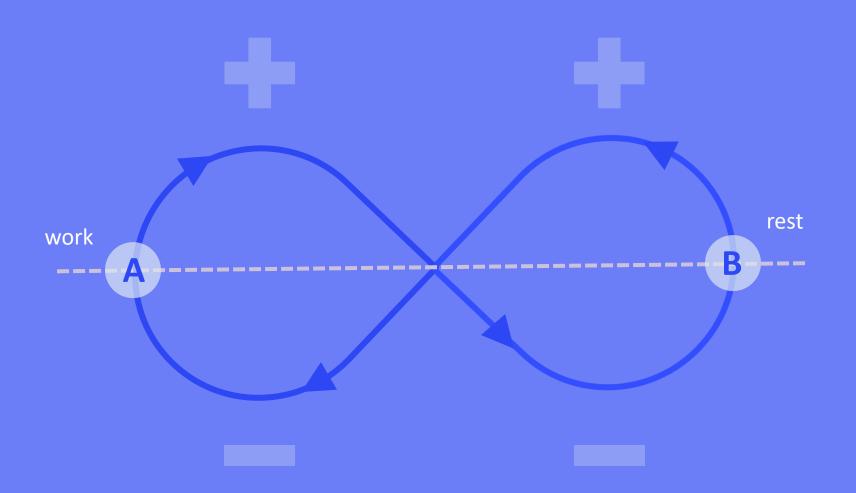
Meta-Cognition Model

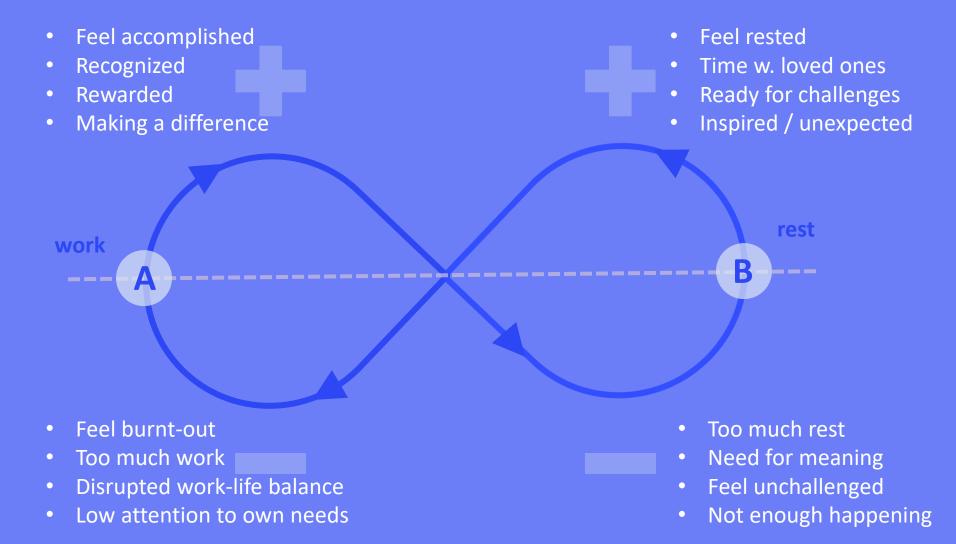


Practicing Meta-Cognition: Thinking Dialectically with Polarities



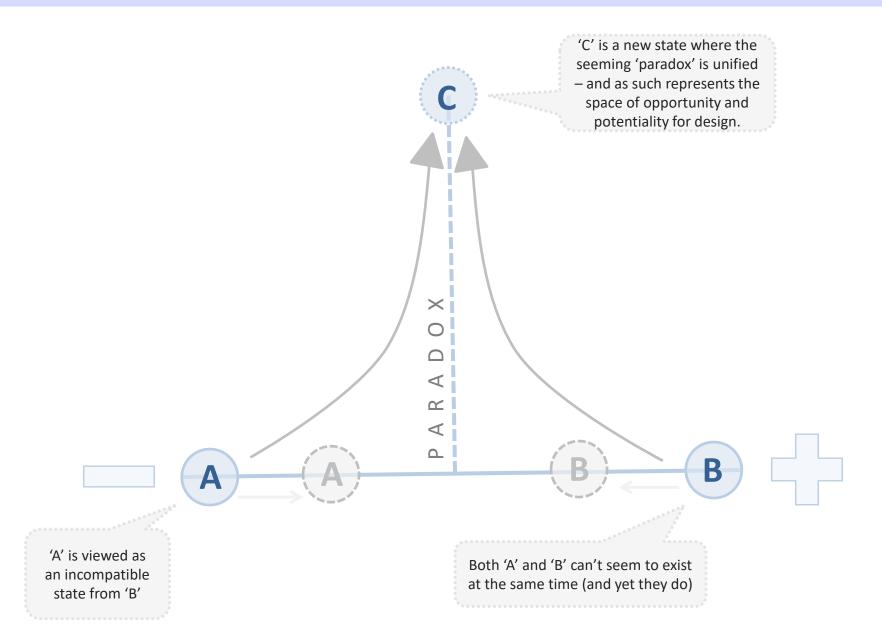




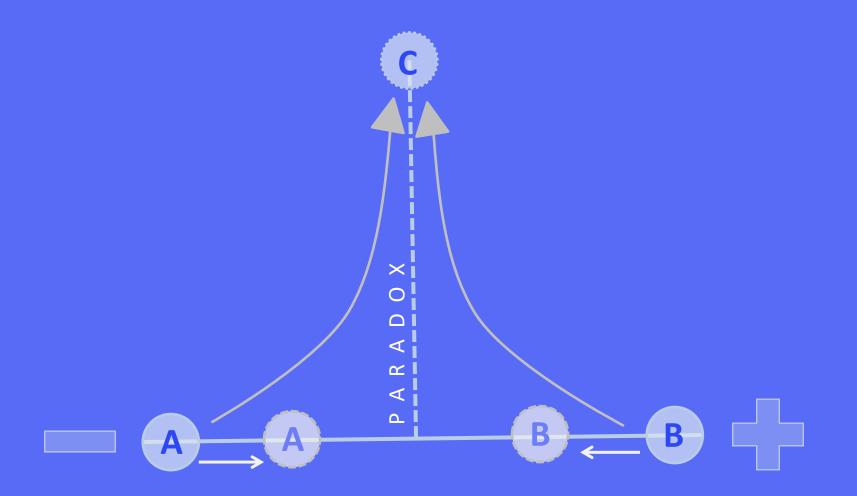


Linoit Exercise: Meta-Cognition w. Polarities

'Dialectic' – Tension Between Seemingly Incompatible States



'Dialectic' – Tension Between Seemingly Incompatible States





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Thank you!

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Master's Thesis

Team Collaboration Competencies for Complex Social Challenges (*Matic, 2017*)

http://openresearch.ocadu.ca/id/eprint/1990/