

Results: Key Tensions in KTA Conceptual Frameworks

- Tensions are issues upon which conceptual frameworks may disagree.
- Understanding the tensions helps to cut through the diverse terminologies and understandings of KTA so we can plan and work together more effectively.
- Understanding tensions allows us to compare narratives in quest to create a meaningful metanarrative.

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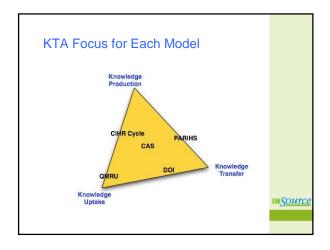
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Seven Tensions 1. Positivist, constructivist, or critical theory paradigm? Worldview 2. Newtonian machine or a complex adaptive system? 3. Production, and/or transfer, and/or uptake? Problem 4. Individual, and/or organization, and/or society? 5. Managed or self-managing? 6. Collective project shared by researchers and Strategies decision-makers, or temporary intersection of different stakeholders? 7. Explain and illuminate or guide to practical action? Purpose INSOurce

Tension 3: where do we locate the KTA problem?

Is it a problem of ...

... knowledge production?
... knowledge transfer
... knowledge utilization?



Tension 5: Best organizing approach?

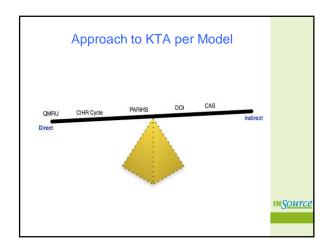
Make It Happen

- identify problems
- · assign responsibilities
- adopt tailored mechanisms

Let It Happen

- focus on building up relationships and structures
- undertake efforts to build organizational/ system capacities

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So What?

- · Context counts
- Complex systems will be the rule, not the exception
- Complex problems require complex solutions
- Problem-based, user-driven research should be the norm
- Collaboration and capacity are critical factors
- We needs to better understand key issues around effective networking, leadership, and strategic communications

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A Paradigm Shift

	Complexity Science	
Metaphor is a machine	Metaphor is a living system	
Change by Plan & control. Standardization of parts	Feedback loops and adaptation. Change by Learn & adapt	
Single causative factor	Multiple causal factors interacting	
No connection between micro and macro	Multilevel influence and emergence	
Controlled High internal validity	Context dependency High external validity	
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Improvement Leadership

- Openness, risk taking
- Leading change through people team building, collaborative working, empowering, support, advocacy
- Shared vision and planning seizing the future
- Evidence-informed planning, decision-making and resource allocation
- Reflective practice
- Strong evaluation and feedback

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Complicated vs. Complex Systems

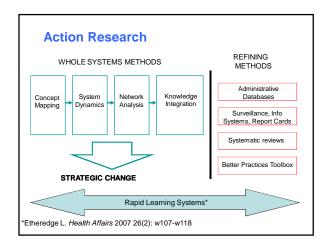
Complicated	Complex
Command and control	Facilitation and empowerment
Make it happen	Let it happen
Well-defined roles	Agent-based participatory action
Organized structures	Self-organizing patterns
Discrete evaluations	Continuous evaluation
Siloed action	Coalition alignment

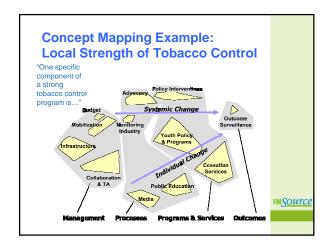
Best & Holmes, Evidence and Policy, May 2010; Snowden DJ & Boone ME, Harvard Business Review 2001;79:69-76; Trochim W et al, How do we organize: Purposeful adaptive systems. NIH Monograph, 2007. http://cancercontrol.cancer.gov/tcrb/monographs/18/index.html

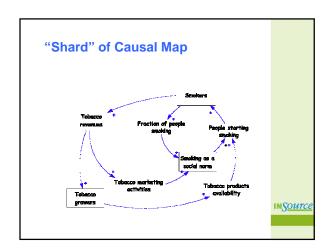
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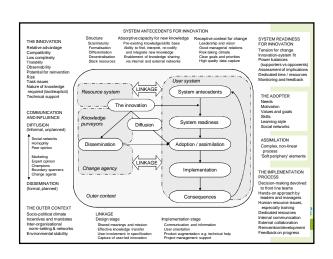
A Research Shift MODE I MODE II · Focus is knowledge · Focus is problem-solving · Learn by doing Basic to applied research Knowledge is co-created · Scientist as expert and context dependent Clear standards of general guidelines for knowledge quality **INSOurce** Denis JL et al. In Lemieux-Charles L & Champagne F. *Using Knowledge and Evidence in Health Care*, U of T Press, 2005

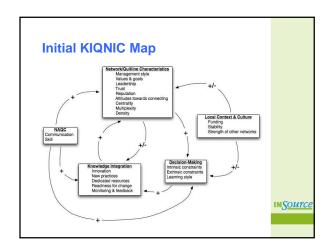
Core Areas of ISIS Research Systems organizing: dynamic, complex, adaptive collaborative systems in tobacco control Systems methods: model complex dynamic interactions in tobacco control system Network methods: model effective collaborative relationships among stakeholders Knowledge management: knowledge infrastructure for evidence-based practices ...and their integration in a systems environment







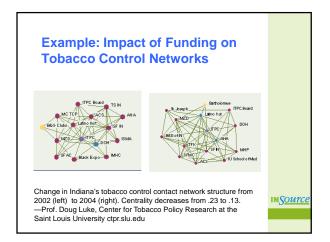


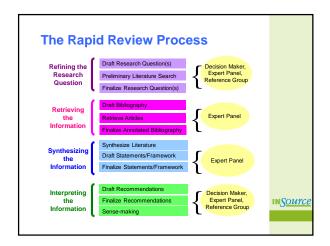


Network Methods: Who We Are

- Examine networks as a means to link tobacco control stakeholders for improved outcomes
- Understand structural issues and indicators of networks: centrality, multiplexity, broker relationships and holes, cliques, etc.
- Use network analysis as a means to understand—and more important, manage—the dynamics of collaboration

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OBSSR/CHSRF Rapid Review Interorganizational Partnerships

- Clear common aims
- Trust
- Collaborative leadership
- Sensitivity to power issues
- Membership structure
- Action learning

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Saskatchewan "Large System Transformation"

- CIHR pilot in expedited knowledge synthesis
- Provincial Ministry taking on transformative change
 - Surgical wait lists
 - Patient and family centred care
- · Key principles for culture change
 - Interorganizational collaboration
 - multilevel innovation strategy
 - Full value stream
 - Systems integrationevaluation
- Role of government prime interest
- Consensus and learning networks

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1. Revolution in academia

- Tenure and Promotion
- Granting agency and publication practices
- · Intellectual property
- Conflict of interest
- Financial incentives and management
- Intersectoral collaboration
 - Structures
 - Leadership
 - Networks



2. Revolution in strategy

- Research a line item competing with patient service
- Sustainable funding
- Integration with planning, decision-making and resource allocation
- Dedication of time, incentives, and resources
- Capacity development
- Transformative versus incremental strategy

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3. Revolution in science

- Generalizable versus contextual knowledge
- · Reductionist versus holistic models
- Multilevel/multifactorial, dynamic interventions
- Clinical versus public health evidence

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