

Climate Change & Land Use Change Patterns and Their Impacts on Missisquoi Bay's Blue Green Algae Problem: A Workshop for Vermont's Water Quality Managers and Regional Planners

Livak Ballroom, 4th floor,
Davis Center, UVM Campus

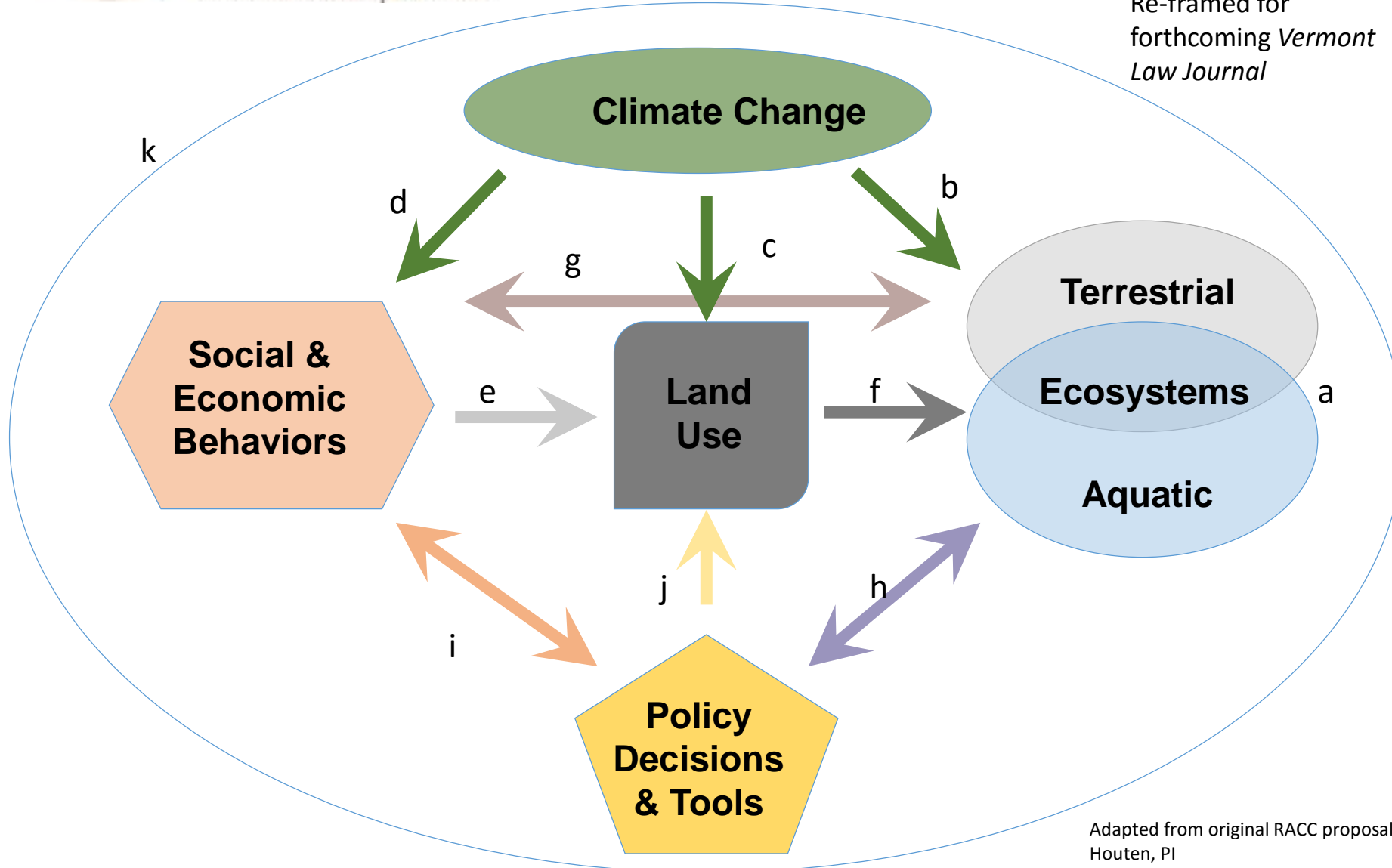
May 11, 2016

8:30 am to 1 pm



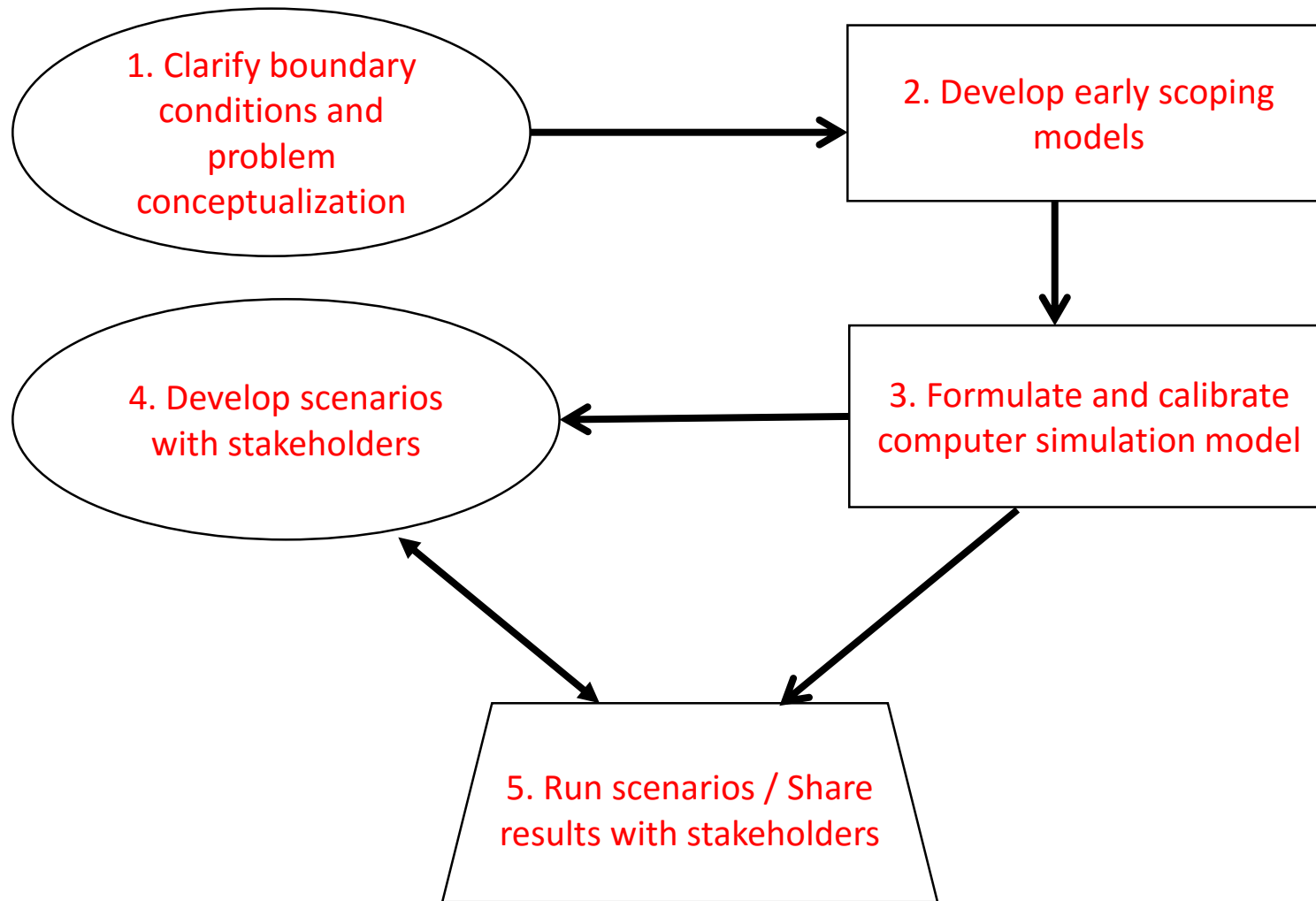
RACC Model: LCB as Complex Adaptive System

Re-framed for
forthcoming *Vermont
Law Journal*



Engagement

Modeling



“Mediated Modeling” Workshops :

older scenario generation

CLIMATE CHANGE IMPACTS:

November 2012

WATER QUALITY INTERVENTION DEVELOPMENT:

March -May 2014




WATER QUALITY SCENARIO

DEVELOPMENT:


October 2015




WATER QUALITY INTEGRATED ASSESSMENT MODEL REVEAL: May 2016



RACC
Research on Adaptation
to Climate Change





[Introduction & Directions](#)
[Personal Information](#)
[Background Materials](#)
[My Interventions](#)
[All Interventions](#)
[General Discussions](#)

My Interventions: Envisioning climate change adaptation interventions

Considering the problems of climate change and water quality, please suggest one or more adaptive interventions to address these issues using the form below. Material is available under tabs "BACKGROUND MATERIALS" to provide context and inspiration. Please click on the help icons for instructions on completing each field, or refer to the Introduction for more information.

Chris Koliba's Interventions

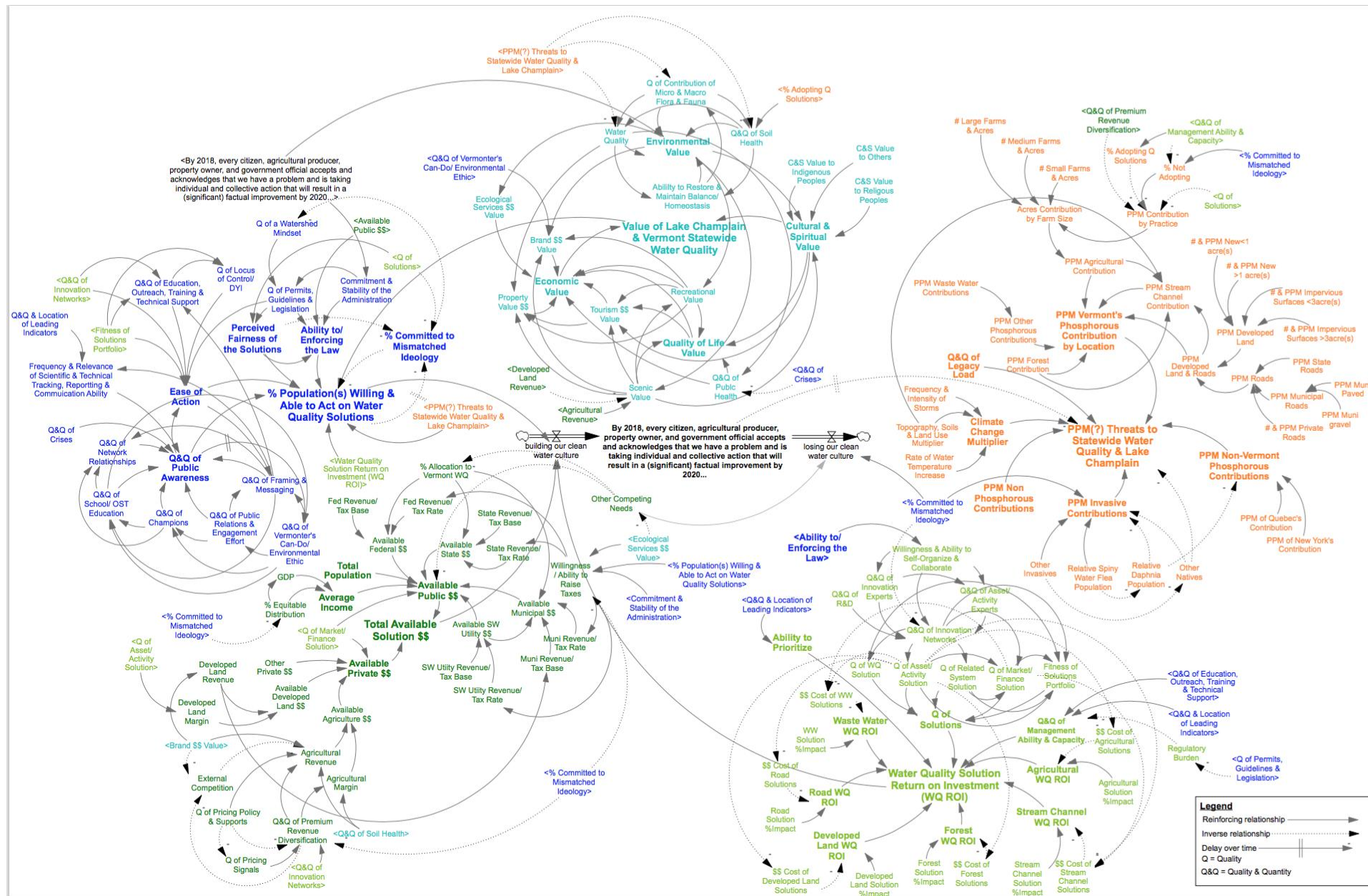
Primary Domain	Scope	Title	Rationale	Comments
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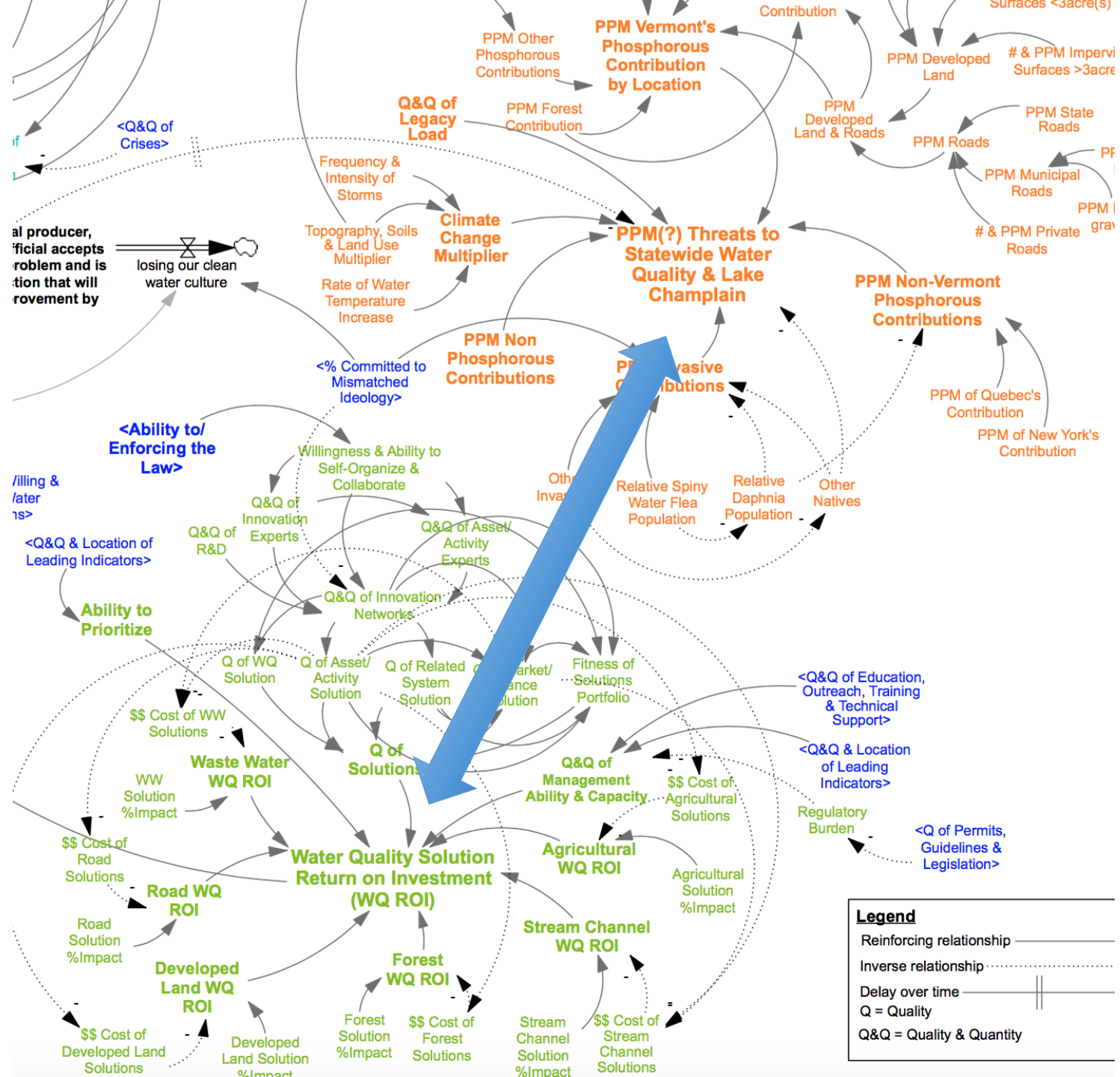


Scenario A:

In the midst of resource scarcity, with little political will or financial capacity to regulate for clean water protection, states and local governments operating in parallel rely heavily on market-based incentives and what federally-sourced incentives are available for clean water protection in the Lake Champlain Basin.

"CULTURE OF CLEAN WATER" SYSTEMS ANALYSIS





Small group tasks:

- **How:**
 - How best should IAM and other related results be visualized?
- **What:**
 - What decision criteria should be used to evaluate scenarios?
- **Who:**
 - Who should be involved in evaluating and processing scenarios?

Today's agenda

- 8:30-8:45 a.m. **Welcome & Opening Remarks**
- 8:45-9:45 a.m. **Overview of Cascading IAM structure, scenarios, findings and development plan**
- Drs. Asim Zia, Science Leader, Integrated Assessment Model and Andrew Schroth, Science Leader, Lake Processes
- 9:45-10:00 a.m. **Q&A**
- 10:00-10:15 a.m. **Coffee/Tea Break/Networking**
- 10:15-11:30 a.m. **Scenario visualization & risk and uncertainty communication focus**
- 8-10 breakout groups
 - What are the three most effective ways to visualize climate and land management projection scenarios and communicate their uncertain impacts on watershed hydrology and lake water quality?
 - What is the single best method to make available 3TB of data generated by each scenario to water quality managers and regional planners?
- Brief reports (3-5 minutes for each group)
- 11:30 a.m.-12:45 p.m. **Scenario evaluation & Decision Support System focus**
- 8-10 breakout groups ***[working lunch served at Noon]***
 - Which (mutually exclusive) decision criteria must be used for evaluating adaptive land management intervention scenarios?
 - Which indicators should be used to measure the decision criteria?
 - How can cascading IAM be used as a Decision Support System in the long run?
- Brief reports (3-5 minutes for each group)
- 12:45-1:00 p.m. **Concluding Thoughts**

