



Policy and Technical Advisory Committee (PTAC)

December 19, 2019

Noon to 4pm

UVM Alumni House



EPS 1101317

Purpose of the PTAC

- To provide **technical advice** regarding model development, calibration and validation, including possible access to datasets that may be used in the process.
- To provide input regarding the **communication of research findings** and uncertainty associated with them.
- To provide **advice about possible scenarios** to be generated and tested from the BREE Integrated Assessment Model (IAM), as well as the land use, hydrology, climate, governance and economic models that are to be wrapped into it.
- To provide advice about the **development of actionable, decision-support tools to inform water quality** in the face of changing frequencies and intensities of extreme events in the study areas.

Looking to the future



- Sustaining the work/products of RACC and BREE
- The theme of the next R1 EPSCoR Grant Proposal

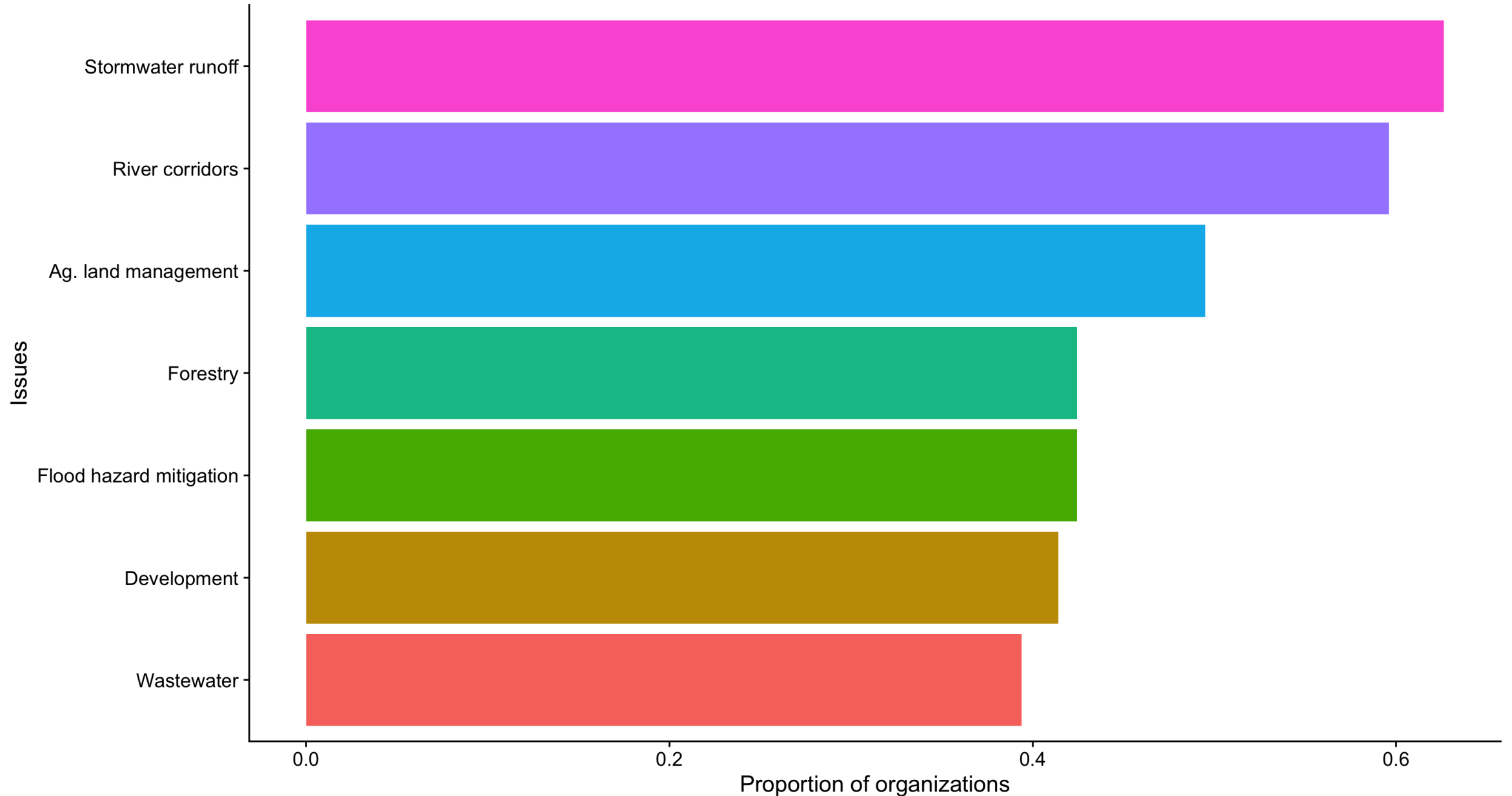
INSTITUTIONAL NETWORK SURVEY -- UPDATE

Thank you for your help and participation!

Special thanks to Tactical Basin Planners for helping us validate our lists

- 99 responses
- Survey is structured by agency → sub-agency (division)
 - Responses from 88 unique sub-agencies
 - Responses from 71 agencies
- **There's still time to get your responses in!!!!
(CLOSES MONDAY, December 23rd)**

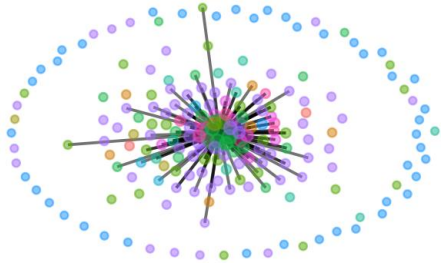
Management functions of participating actors



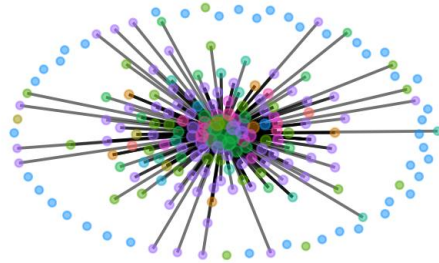
Actors have differential reach by interaction mode

ANR

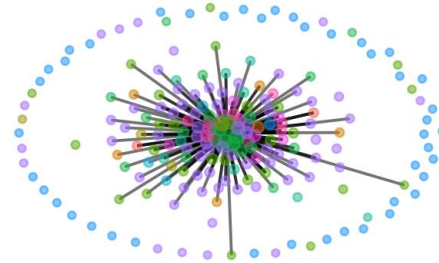
Financial exchange



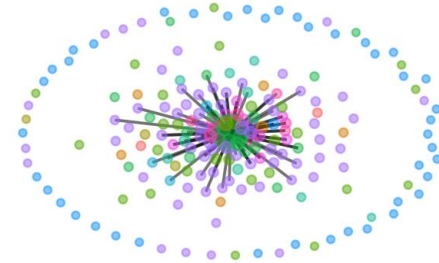
Information sharing



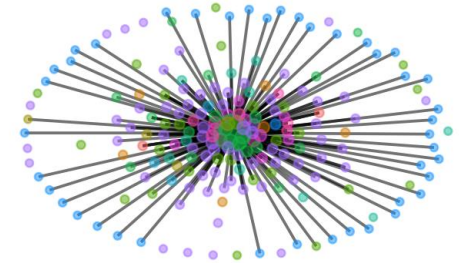
Project coordination



Reporting

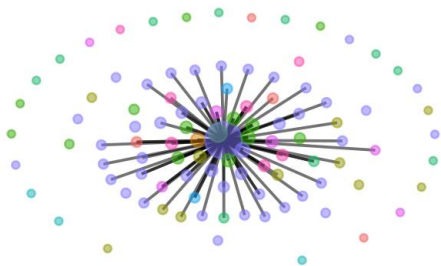


Technical assistance

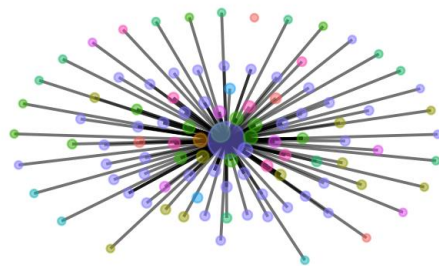


LCBP

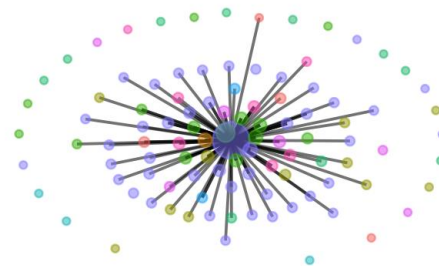
Financial exchange



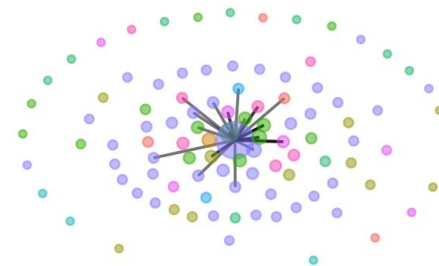
Information sharing



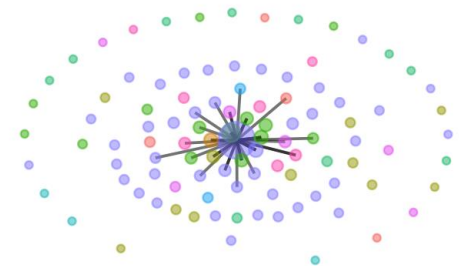
Project coordination



Reporting



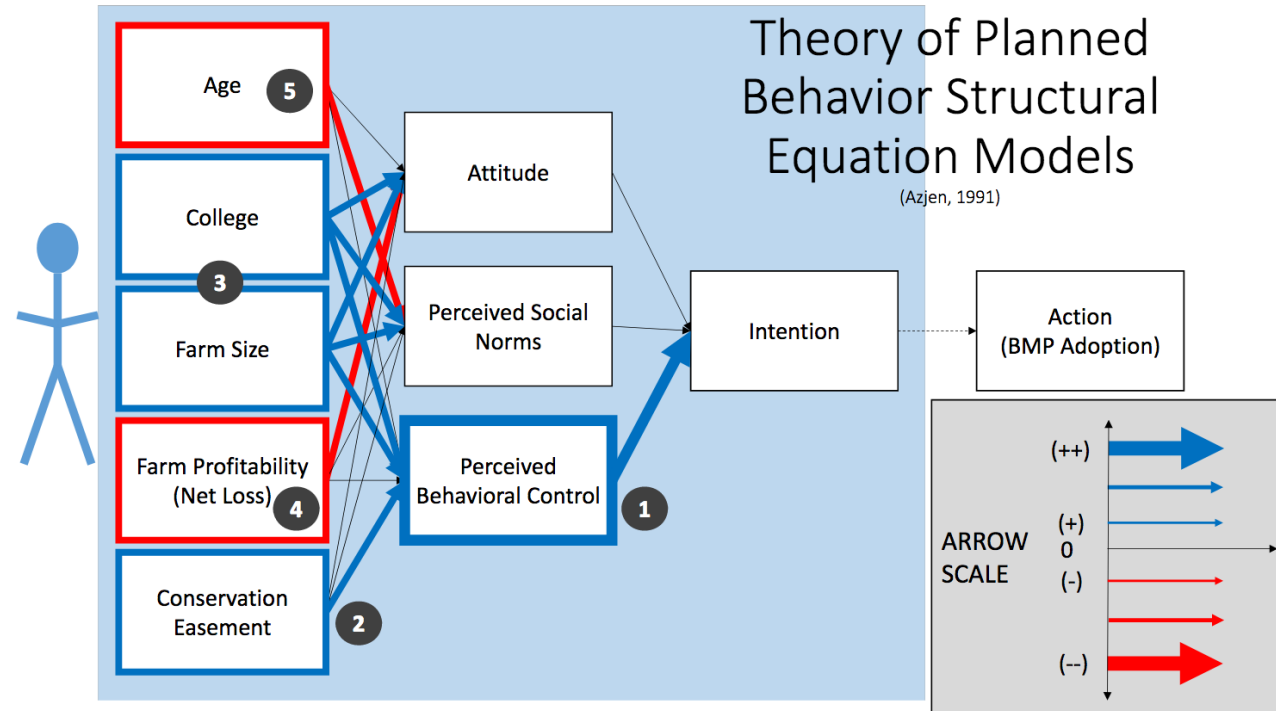
Technical assistance



Much more work to be done

- **Statistical modeling:** *can we predict the structure of the project coordination network using other dimensions and nodal characteristics?*
- **Network evolution:** *how does the 2019 network compare to the 2014 and 2015 networks? Pre/post Act 64?*
- *What communities of actors exist?*
- *Does participation in policy venues predict actor <-> actor interactions? How are policy venues connected and by whom?*
- *How does the social network align with ecological network? (i.e., does the water governance network align with the hydrological network?)*

FARMER PANEL SURVEY BEING LAUNCHED -- UPDATE



- Survey will go out in early 2020 and cover much of the LCB.
- Focus will include BMP adoption and likelihood of BMP adoption.

MUNICIPAL STORMWATER SURVEY POLICY BRIEF - UPDATE

Figure 1. Percent of respondents aware of ANR's Tactical Planning Process, by government role

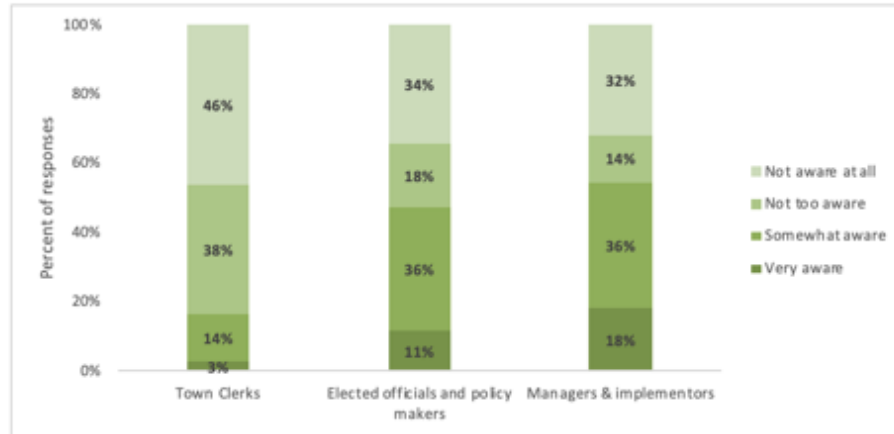


Figure 3. Percent of municipalities seeking funding from various sources (n=100)

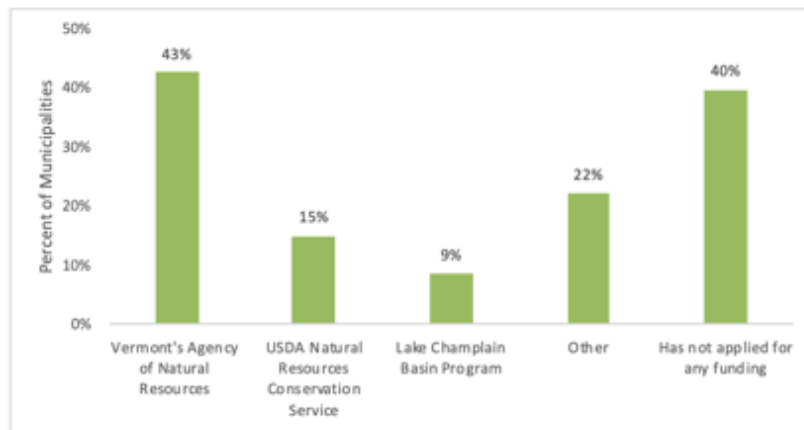
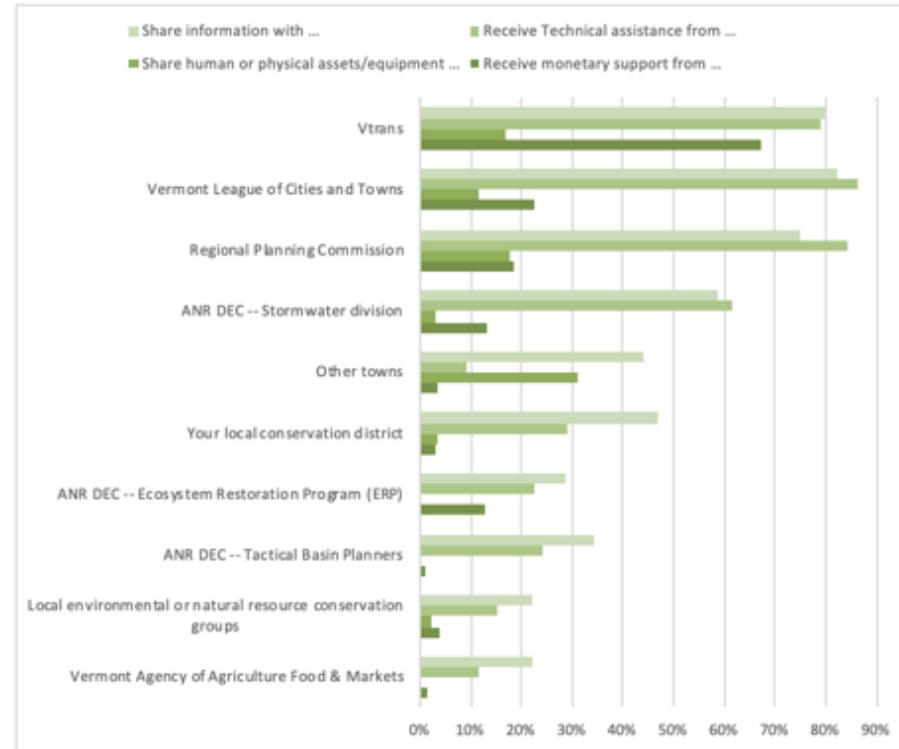


Figure 2. Forms of collaboration with municipalities, by organization



- Due out in early 2020

The rest of today's agenda

- 12:40 pm Update on the monitoring data from the **summer bloom season and** using sensors to understand **nutrient loading during storms** across different land uses of the Lake Champlain Basin including Q&A
- 1:15 pm An overview of the **new 3-dimensional lake model** and its capacity to simulate lake and bloom dynamics including Q&A
- 1:45 pm Report on the development of a **new flood inundation model** for all of the Vermont watersheds in the LCB including Q&A
- 2:45 pm Break
- 2:55 pm Highlights from the **latest integrated assessment model** results including Q&A
- 3:20 pm **Quantification and simulation of extreme events** in BREE IAM including Q&A
- 3:45 pm Update on upcoming **Legislative Session and Acts 64 and 76. Implementation**
- 4:00 pm Adjourn