Mission
To conduct ecosystem-based research that improves our understanding of human impacts on the environment and provides science-based solutions for clean water and healthy ecosystems

Conduct and facilitate collaborative research at the whole ecosystem level

Operate a robust Long-Term Ecological Research program

Support strong linkages between scientific research and policy formation

Provide a platform for science education and innovation

Communicate with the public, governments and the scientific community
Ingredients to Influence Policy

**Salience**
The information is relevant for decision makers

**Credibility**
The source is trustworthy and expert based

**Legitimacy**
Studies considered multiple stakeholder views
Quantitative Analysis

• 15 studies evaluated that used similar tools and approaches but with different outcomes
• Sent questionnaires to decision makers, NGOs and experts that aim to bridge science and policy
• Asked to define attributes that led to effective Sci/Tech-Policy linkages

Variables

- Legitimacy
- Salience
- Credibility
- Co-production
- Personal Interactions
- Trust
- Local knowledge
- Dissent
- Year
- Representation
- Length
- Institutional Capacity

Posner et al. 2016 PNAS
Case Studies – Evaluation Framework

Ruckelshaus et al. 2015 Ecol. Econom.
Analysis

Legitimacy is the strongest predictor of impact for all pathways

*Posner et al. 2016 PNAS*
Conclusion

“The finding that legitimacy appears to matter more than credibility puts great responsibility on researchers to engage with stakeholders directly or in consultation with decision makers”

- Posner et al. 2016
FOReSt

- forested backshore
- grasslands foreshore
- enclosures anchored to the bottom sediment (10m long x 5m wide divided longitudinally to create 2 cells 10m x 2.5m)
- large floating weight creates waves in enclosures
- floating dock moved by lake waves, anchored to bottom

waterline
soil
sediment
Opening Our Doors To The World!

Okay, so who would have known back in 1968 that our long-term dataset on water quality would still be going 50 years later? September's recreation of a classic #ELA50 photo is one of our favourite yet... bit.ly/2n6WS7S
Outreach:
• Tours and open houses
• Media
• Social media
Outreach – Treaty 3
Education:
• Field courses
• Field trips
• School visits
Next 50 years

IISD

Volume
Lots of data—the USGS Landsat Image Archive includes over 7 million images of the Earth’s surface from 1972.

Variety
To understand our environment we need data from many sources to work together!

Big Data

Veracity
Data needs to be checked and monitored to ensure it’s giving us reliable data patterns.

Velocity
Some sensors, like those on this mooring, transmit water flow data many times a second.
Next 50 years
Thank you!

- Government of Ontario
- Fisheries and Oceans Canada
- Anonymous
- Gail Asper and Mike Paterson
- Manitoba Hydro
- Johnston Group Inc.
- Richardson Foundation
- RBC Foundation
- Polaris Canada
- Tides Canada Foundation
- Jim Richardson
- The Thomas Sill Foundation
- ECO Canada
- The Salamander Foundation
- EQ3
- Cooke Household
- The McLean Foundation
- The Winnipeg Foundation
- Stephen Paterson
- Kris Benidickson
- Kozminski Household
- TELUS
- Jonathan Paterson
- Forest Helicopters Inc.
- Mercedes-Benz Winnipeg
- J.W. McConnell Family Foundation
- Dresser and Wiens Household
- Lake Winnipeg Foundation
- Thorsteinson and Glass Household
- Thomson Household
- Gagnier Household
- Tetra Tech Canada Inc.
- Gilbert and Wall Household
- Rodney Paterson
- Western Canada Water & Wastewater Association
- Sheila Fraser
- Joan Richardson
- Blanchfield and Orihel Household
- Page Household
- Grierson and Gibb Household
- Guenther Household
- Linney Household
- Gibb Household
- Stepanik and Kirby Household
- Antibodies -online Inc.
- Atwood Household
- Dearnley Household
- McCoubrey Household
- Filmon Household
- Eisenreich Household
- Mayhood Household
- Aviva Community Fund
- Nicholls Household

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