Lake Winnipeg Basin Integrated Capacity Inventory

For use in an Adaptive Management Framework

LWRC, IISD, LWF

March 20th, 2019 ECCC Lake Winnipeg Symposium

Lake Winnipeg Basin Program

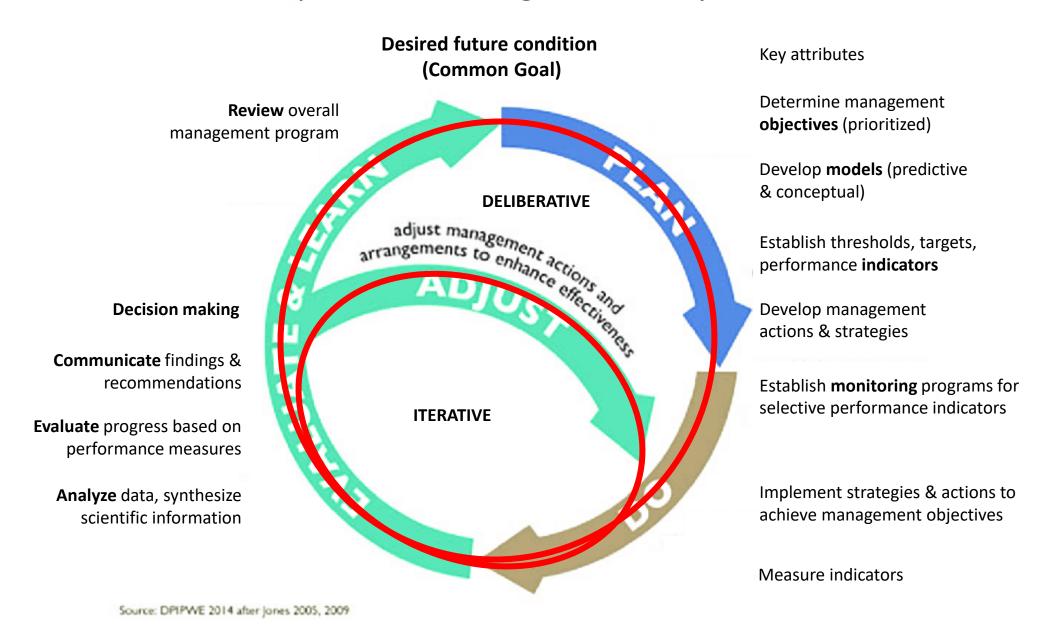
- Taking action to
 - Reduce nutrient loading to Lake Winnipeg
 - Enhance collaboration throughout the basin
 - Support engagement of Indigenous peoples on freshwater issues
- Represents
 - Important leadership
 - An investment in solutions
- Includes the development of an ADAPTIVE MANAGEMENT PLAN

Adaptive Management

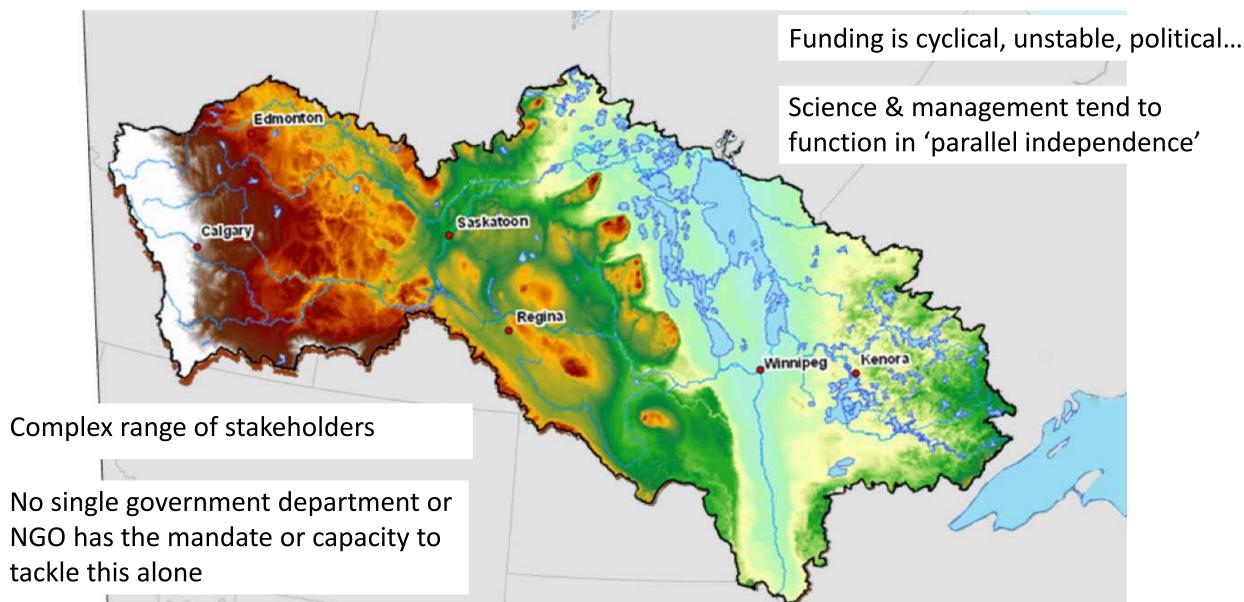
- Structured decision-making process
- Learning by doing, and adapting based on what's learned (Walters & Holling 1990)
- Actions are pursuant to desired outcomes
- More transparent

A structured decision **process** that promotes flexible decision making that can be adjusted in the face of uncertainties as outcomes from management actions and other events become better understood (U.S. NRC 2004/DOI)

Adaptive Management Cycle



Adaptive Management – Lake Winnipeg Basin



Partnerships are imperative

Partnerships of managers, scientists, and other stakeholders who learn and adapt together toward a desired future condition (common goal)

- Strategically leverage key stakeholder expertise & experience
- More strategic allocation of resources
- Targeted action towards measurable outcomes is sustained beyond the five-year term of the current LWBP

Integrated Capacity Inventory

Overview

Goal

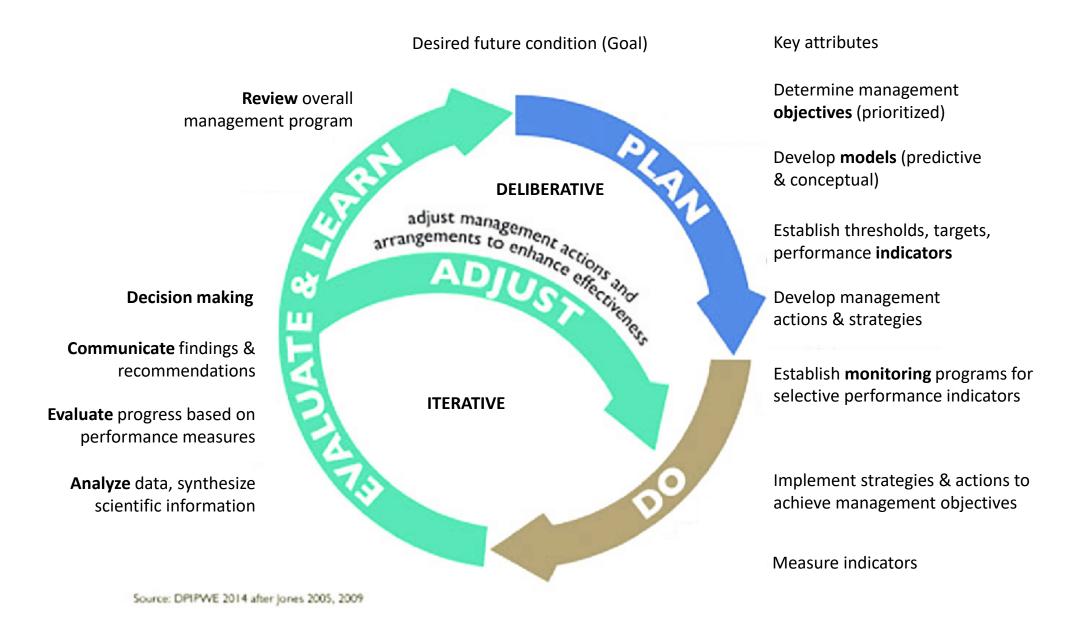
Enable more effective long-term coordination of existing efforts to improve water quality (in particular nutrient reduction) that are currently underway

- Who is doing what) where, when, why and how?
- How / can it be used within an adaptive management framework?

Objectives

- Compile an inventory of organizational roles and outputs (institutional capacity)
 - Government
 - Research and monitoring
 - Indigenous
 - Grassroots
- Identify elements that could be relevant within a general adaptive management framework
 - Patterns
 - Outputs
 - Gaps
 - Redundancies
 - Best practices

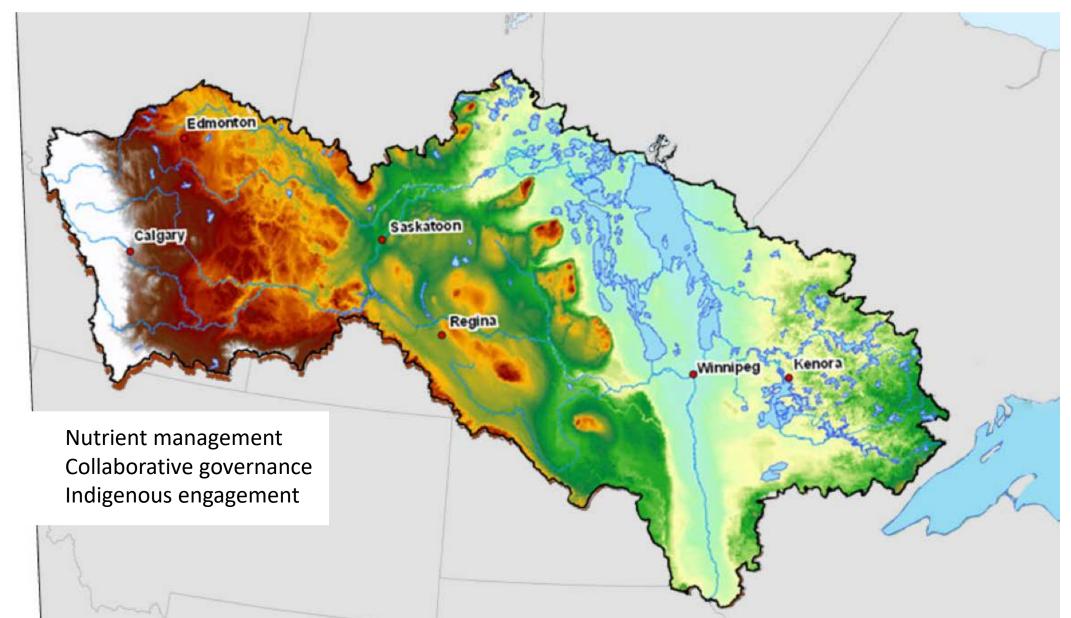
Adaptive Management Cycle

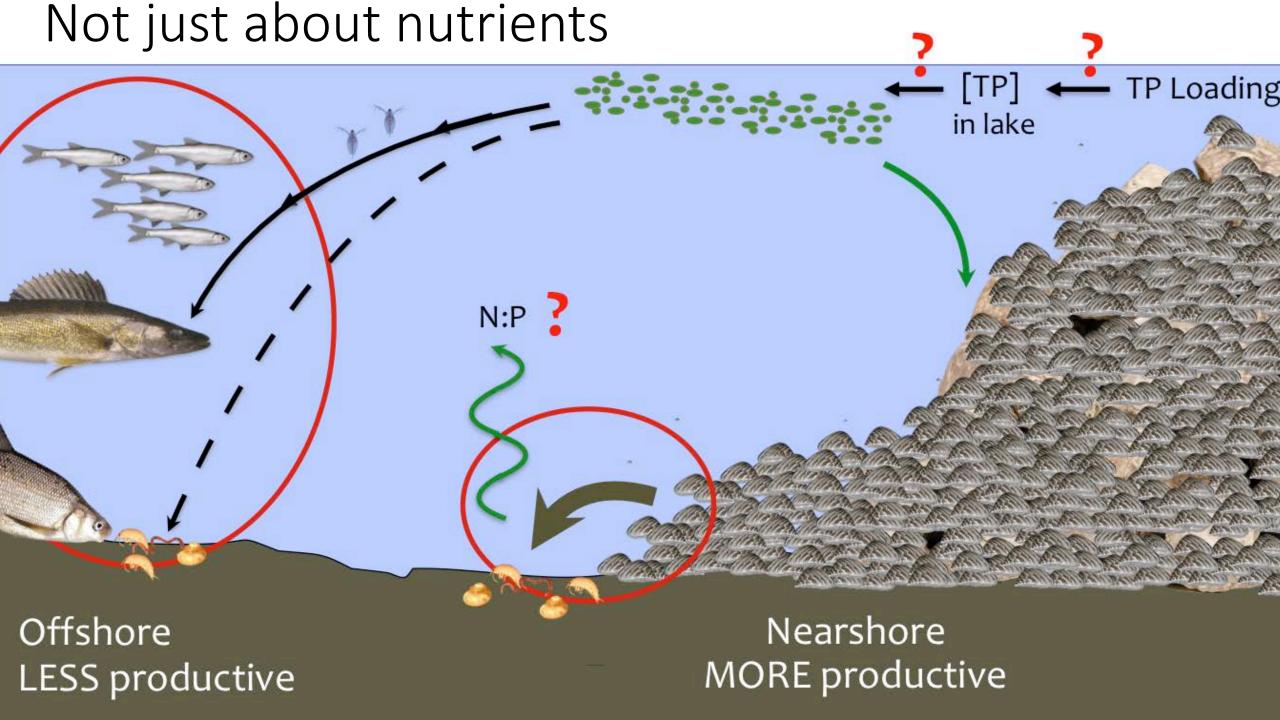


Early successes Early challenges

Limitations

ICI stayed within context of LWBP priorities





Where do we go from here?

Next Steps

Inventory

- Key players
- Contributions
- Gaps, redundancies, best practices
- Within generic AM framework



ECCC Adaptive Management Framework

(Strategic partnerships)

Gratitude to the Lake Winnipeg Basin Program for funding support

Thank you

