Sustainable P **Transition Management** Sustainable



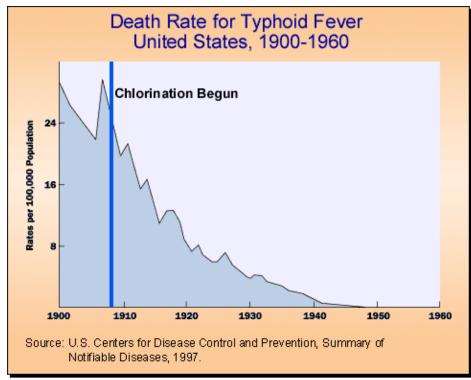
Heidi Peterson – Minnesota Department of Ag Rimjhim Aggarwal – Arizona State University Larry Baker – University of Minnesota Treavor Boyer – Arizona State University Neng Iong Chan – Arizona State University

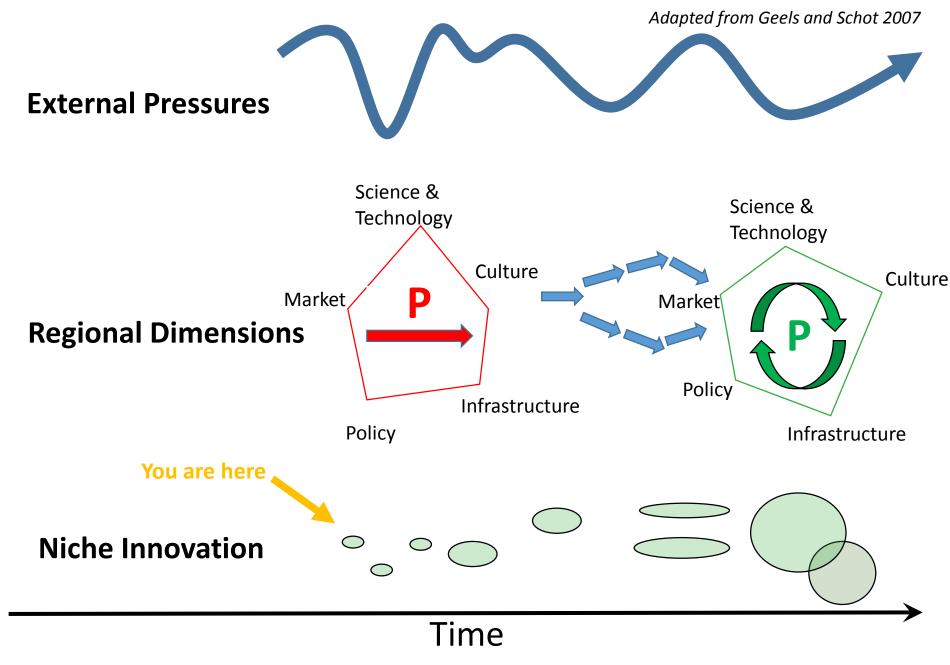


Framing

Can we learn from past events to manage for a sustainable P future?







Transition Management Framework

Netherland Waste Transition

Cess Pool

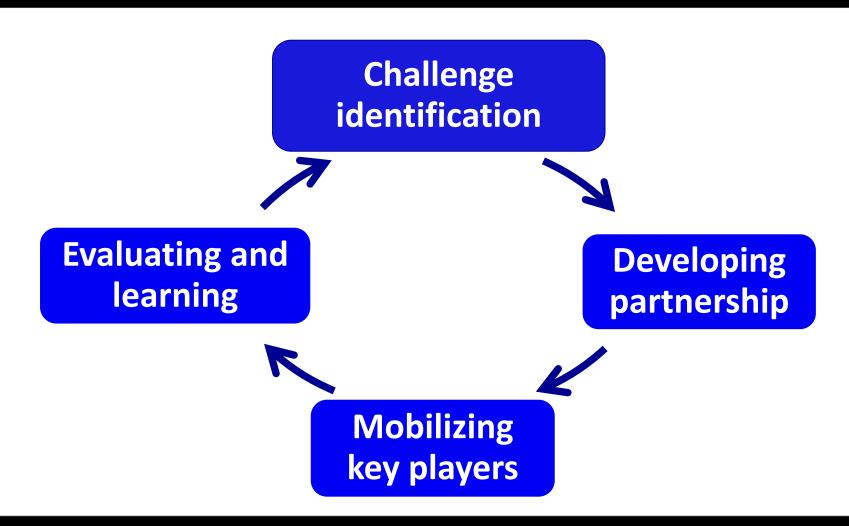


underground holding tank (sealed at the bottom) or a soak pit (not sealed at the bottom).

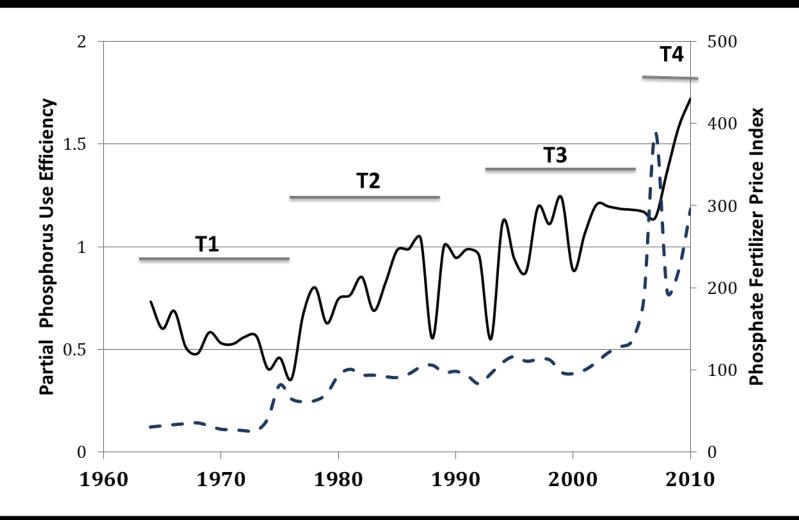
Underground sewer system



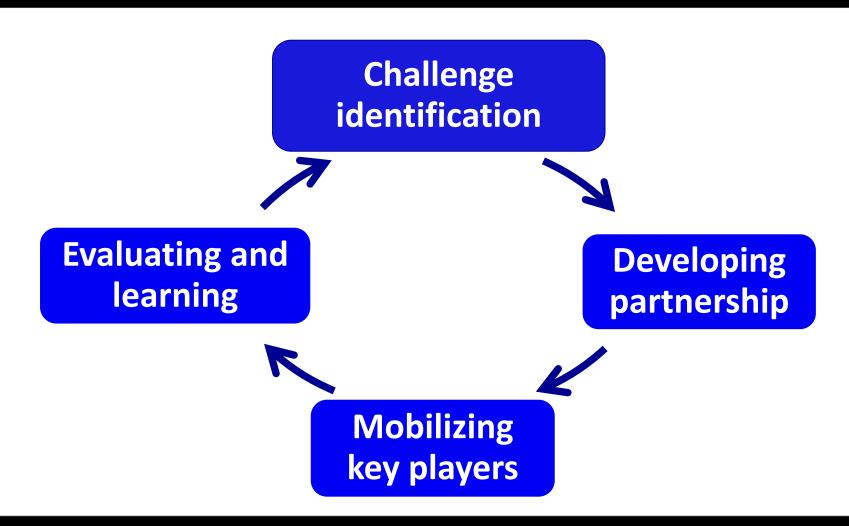
Transition Management



Case Study: Transitions in Ag P Use Efficiency (Minnesota Data)

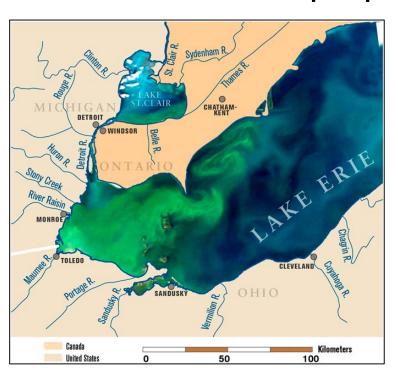


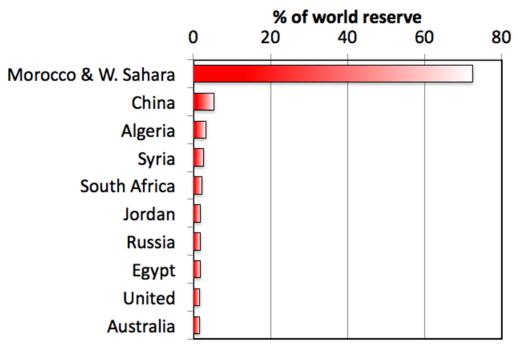
Transition Management



Challenge Identification

- > Eutrophication of water bodies
- >Finite and disproportionate P reserves





Developing Partnership and Mobilizing Key Players

- >Identify key players and common interests
- > Funding to discover innovative solutions

Evaluating and Learning

- Monitoring P fluxes, e.g. water quality, food waste, biosolid applications
- > Evaluating policy effectiveness
- Quantifying innovation adoptions

In Summary

 Potential disruptions on the horizon may require urgent action.....

we should be prepared.

 Transition management may be a way to plan for it in an integrated, collaborative way.



