













Societal concerns



## Different perspectives of scientists and government decision makers can stall action or drive unnecessary action

<u>Science</u>	<u>Government</u>
Probability accepted	Certainty desired
Inequality is a fact	Equality desired
Anticipatory	Time ends at next election
Flexibility	Rigidity
Problem oriented	Service oriented
Discovery oriented	Mission oriented
Failure and risk accepted	Failure and risk intolerable
Innovation prized	Innovation suspect
Replication essential for belief	Beliefs are situational
Clientele diffuse, diverse or not present	Clientele specific, immediate and insistent

Table from Manning, 1988. Models and the decision maker. In. R. Gelinas, D. Bond and B. Smit. Perspectives on Land Modelling. Workshop Proceedings, Polyscience, Montreal, Quebec, Canada.

If failure and risk are intolerable, scientific inquiry is corrupted and inaction is fostered





































Adaptive management can overcome many of the impediments to effective management of contaminated sediment sites

- Reduce uncertainty
  - Scientifically compare approaches without the bias of a pre-conceived idea of what is "right" or "wrong"
  - Learn from implementation of actions
- Allow progress and improve future decisions through an iterative approach
- Provide a means to modify approaches if the outcome is not meeting desired goals

