



# Vulnerability/Risk Assessment Conceptual Model and Pilots

**Michael Culp**  
**FHWA Office of Project Development  
and Environmental Review**

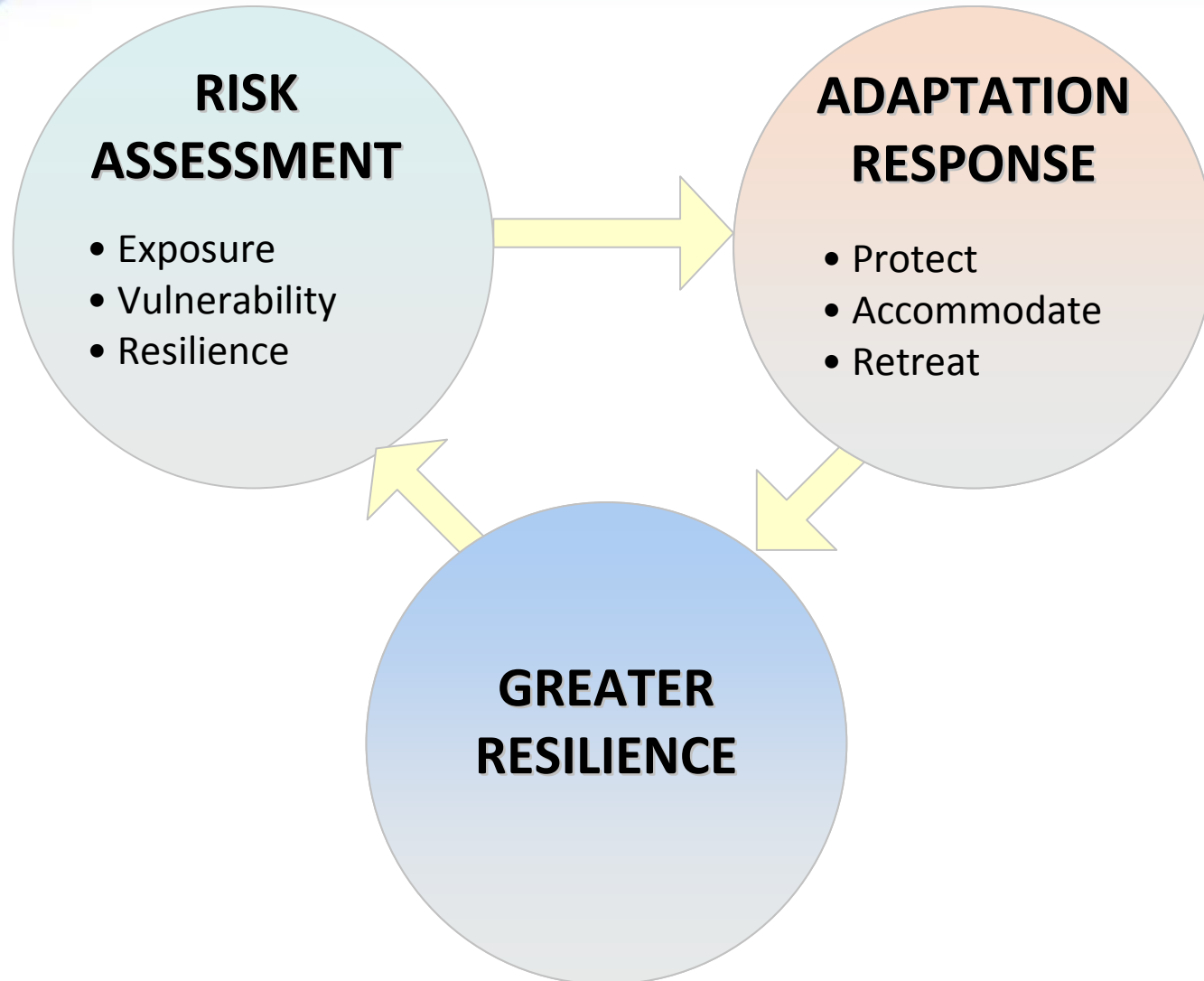
**August 6, 2010**

# Peer Exchanges and Survey



- **Peer Exchanges conducted in 2008 and 2009**
- **Preceded by survey**
- **Survey results indicated that while some States were actively addressing adaptation, many States were just beginning to consider adaptation, or were not planning to in the near future**

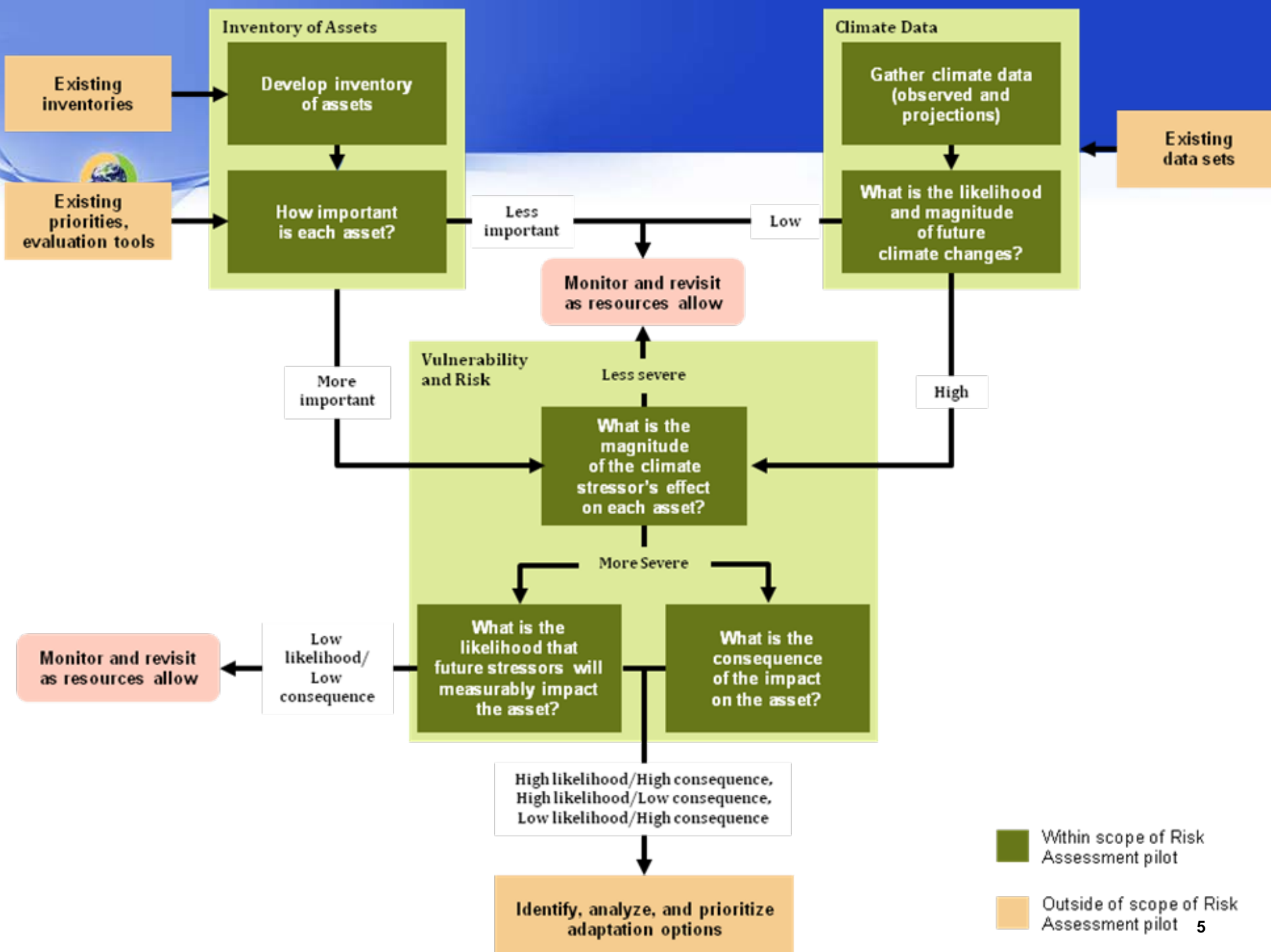
# Vulnerability Assessment and Risk Management



# Vulnerability/Risk Assessment Conceptual Model



- **Goal: help transportation decision makers identify assets:**
  - most exposed to the threats from climate change; and/or
  - could result in the most serious consequences as a result of those threats
- **Use by State DOTs and MPOs**
- **Pilots – call for nominations**
- **Finalize**



■ Within scope of Risk Assessment pilot

■ Outside of scope of Risk Assessment pilot

# Conceptual Model



- **Asset Inventory and Prioritization (importance)**
- **Climate Data, certainty, likelihood, magnitude**
- **Assessing Risk and Vulnerability to changes**
- **Monitor and Revisit**
- **Identify, Analyze, and Prioritize Adaptation Options**

# Pilot Status



- **Applications were due by July 30 to FHWA**
- **Next: Evaluate, announce funding for pilots**
- **Work to improve model, given info from pilot testing**



# Thank you!

**Michael Culp**  
**FHWA Office of Natural Environment**  
**202-366-9229**

**[Michael.culp@dot.gov](mailto:Michael.culp@dot.gov)**