Next Up: Vulnerability Assessment

Focal Resources Workshop

Vulnerability Assessment

Adaptation Workshop #2

Step 1

Step 2

Step 3

Adaptation

Workshop #1

Step 4

Identify focal resources; gather relevant data and info

Assess vulnerability of focal resources Apply assessment results in adaptation planning

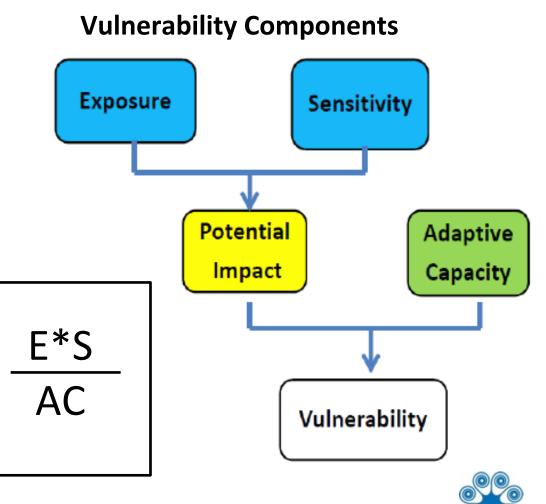
Develop implementation plans for on-theground action

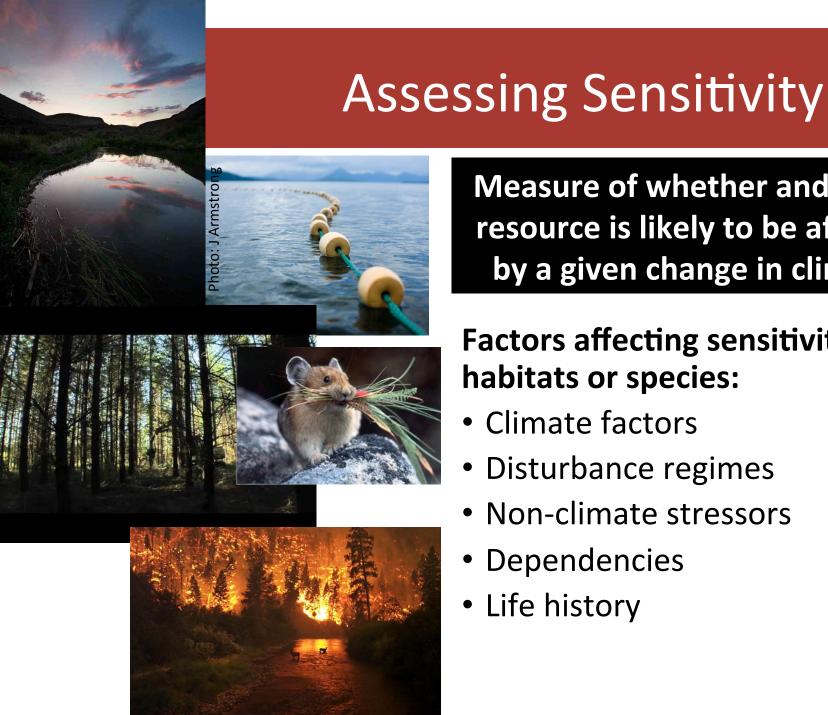




Background: Vulnerability Assessments

Function:
Identify what
resources are *most*vulnerable and why





Measure of whether and how a resource is likely to be affected by a given change in climate.

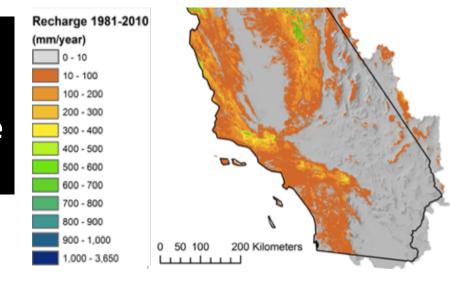
Factors affecting sensitivity of habitats or species:

- Climate factors
- Disturbance regimes
- Non-climate stressors
- **Dependencies**
- Life history



Assessing Exposure

Measure of how much of a change in climate or other environmental factor a resource is likely to experience.



Climate Variables

Annual Temperature

Precipitation

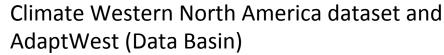
Snowpack

Runoff

Climatic Water Deficit

Recharge

Wildfire



USGS Basin Characterization Model

USFS Western Wildland Threat Assessment Center (+ MC1 Vegetation Models)

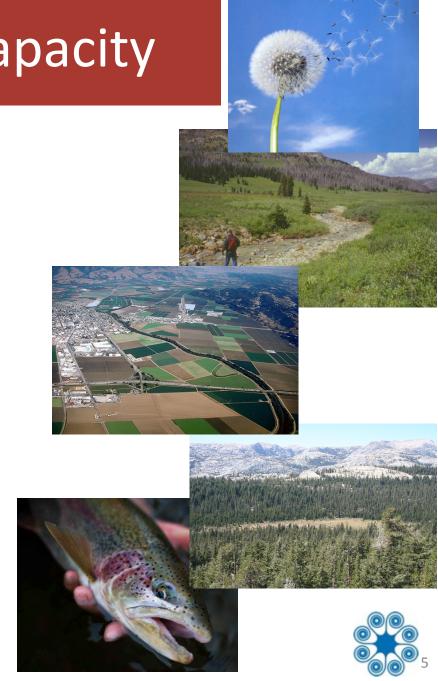


Assessing Adaptive Capacity

Ability to accommodate or cope with climate change impacts with minimal disruption.

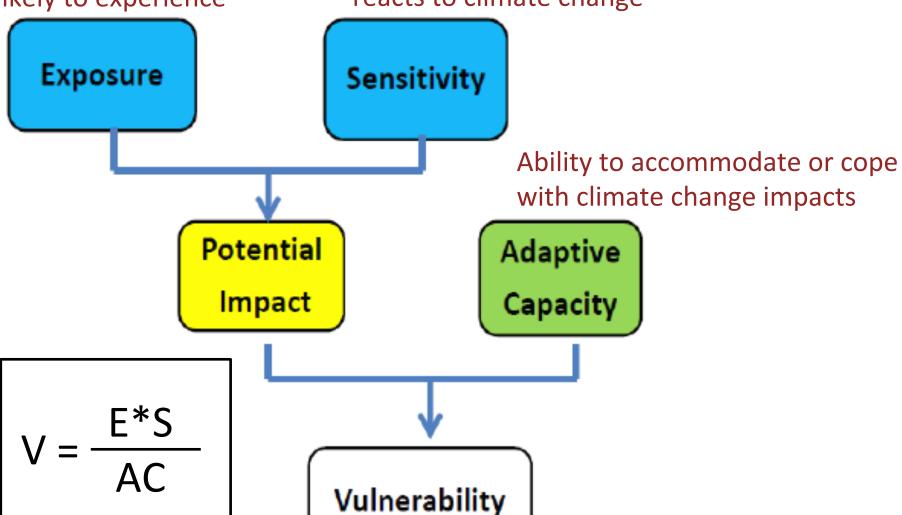
Factors affecting adaptive capacity of habitats or species:

- Extent & status
- Dispersal ability, dispersal barriers/landscape permeability
- Diversity
- Management potential





Whether and how a resource reacts to climate change





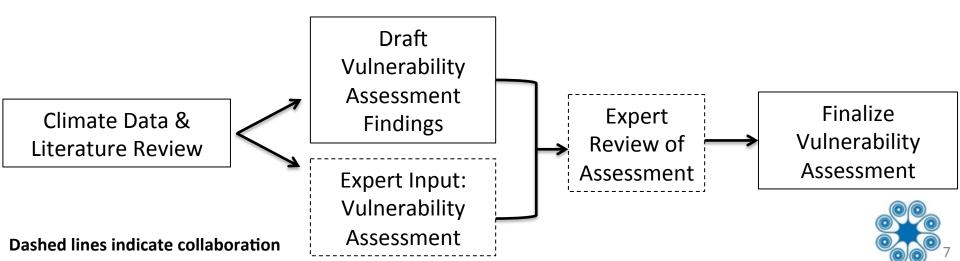
Vulnerability Assessment Process

Goal:

Evaluate vulnerability of selected resources to climate and non-climate stressors using literature review, spatial climate info & expert input

Process:

- 1. Literature review & gather climate data
- 2. Design vulnerability assessment survey
 - Includes each vulnerability component
- 3. Send survey to ~3-5 topic experts
- 4. Assemble draft assessment results
- 5. Send narrative to ~3-5 topic experts for review
- 6. Finalize assessment



Before You Leave...

- 1. Please turn in all activity worksheets!
- Take food home!

Engagement Opportunities

- 1. Volunteer to be a vulnerability assessment expert
 - See sign-up sheet in front
- 2. Adaptation Workshop #1
 - Help us develop climate-smart actions to reduce resource vulnerabilities

