

INTERACTIVE EXERCISE: CLIMATE CHANGE VULNERABILITY ASSESSMENT



2018 Conservation Lands Workshop
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Protecting and restoring water resources from Venice to Bonita Springs to Winter Haven



Climate Change Vulnerability Assessment



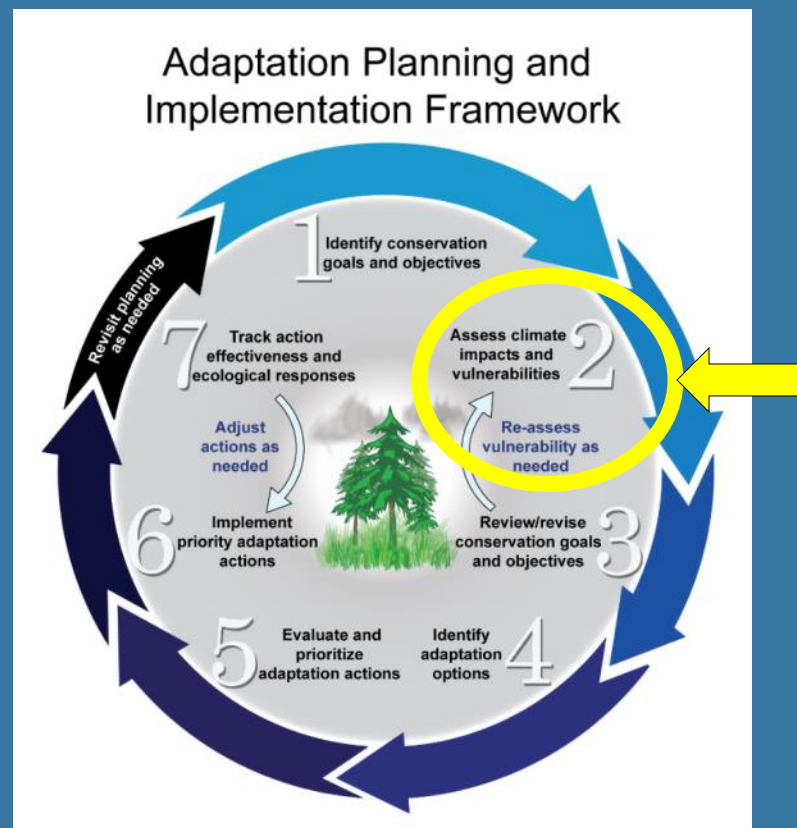
- Looking at our management goals through the lens of a changing climate
- How might climate change interfere with our ability to meet management goals?
- Risk management approach: Understanding changing conditions in order to more effectively plan for the future

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Project Outcomes

- Identify risks associated with climate change stressors
- Contribute to more climate informed management goals
- Prioritize adaptation strategies for more effective use of resources
- Provide a tool our partners can use to evaluate projects and priorities



From Third National Climate Assessment

Project Overview

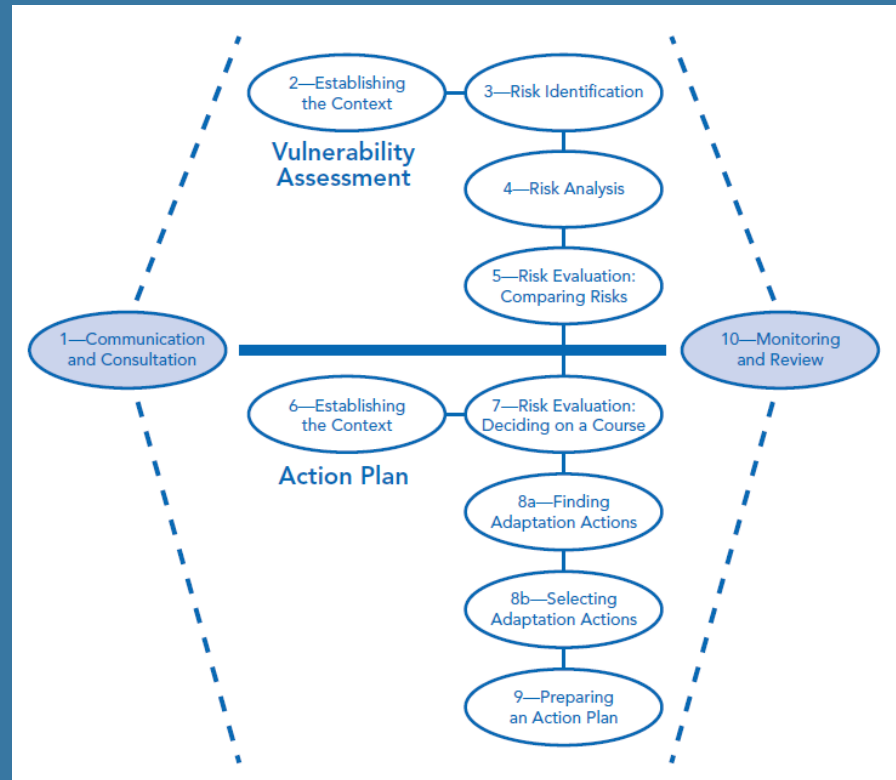
Step 1: Communication and Consultation

Step 2: Establishing Context

Step 3: Risk Identification

Step 4: Risk Analysis

Step 5: Risk Evaluation



From EPA Being Prepared for Climate Change: A Workbook for Developing Risk-based Adaptation Plans

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Communication and Consultation



Purpose of this step: Inform stakeholders about project and identify potential resources for completing vulnerability assessment



- Introduced project to CHNEP Management Conference
- Identified individuals with relevant subject expertise to possibly be involved in assessment process
- Scheduled stakeholder meeting to gather additional input

Establishing Context



Purpose of this step: Identify organizational goals in the CCMP that are vulnerable to climate change

- Literature review of best available science and regional climate change projections
- Four primary climate stressors identified for the CHNEP study area:
 - Increased temperatures
 - Sea level rise
 - Changes in precipitation and storm patterns
 - Ocean acidification



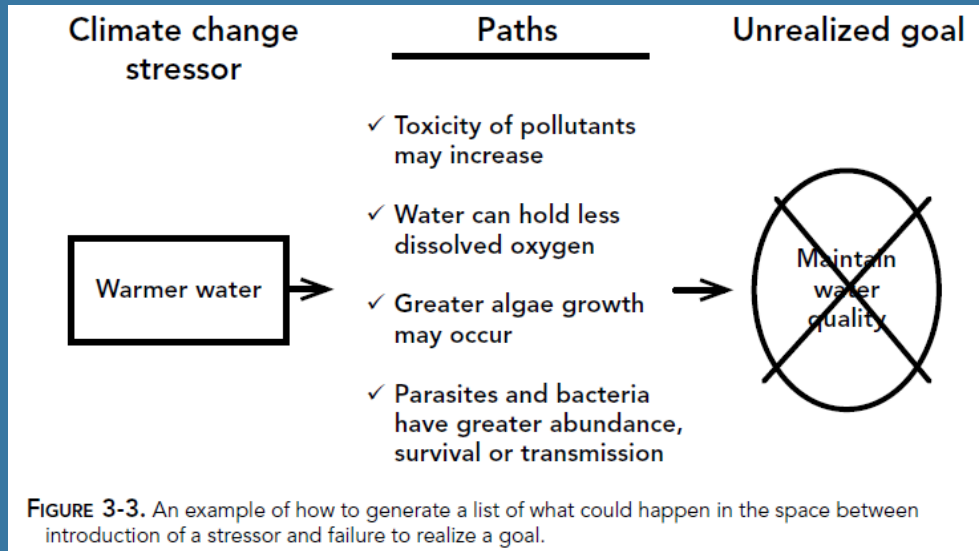
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Risk Identification



Purpose of this step: Determine how climate change stressors may interfere with CHNEP goals and identify potential risks



From EPA Being Prepared for Climate Change: A Workbook for Developing Risk-based Adaptation Plans

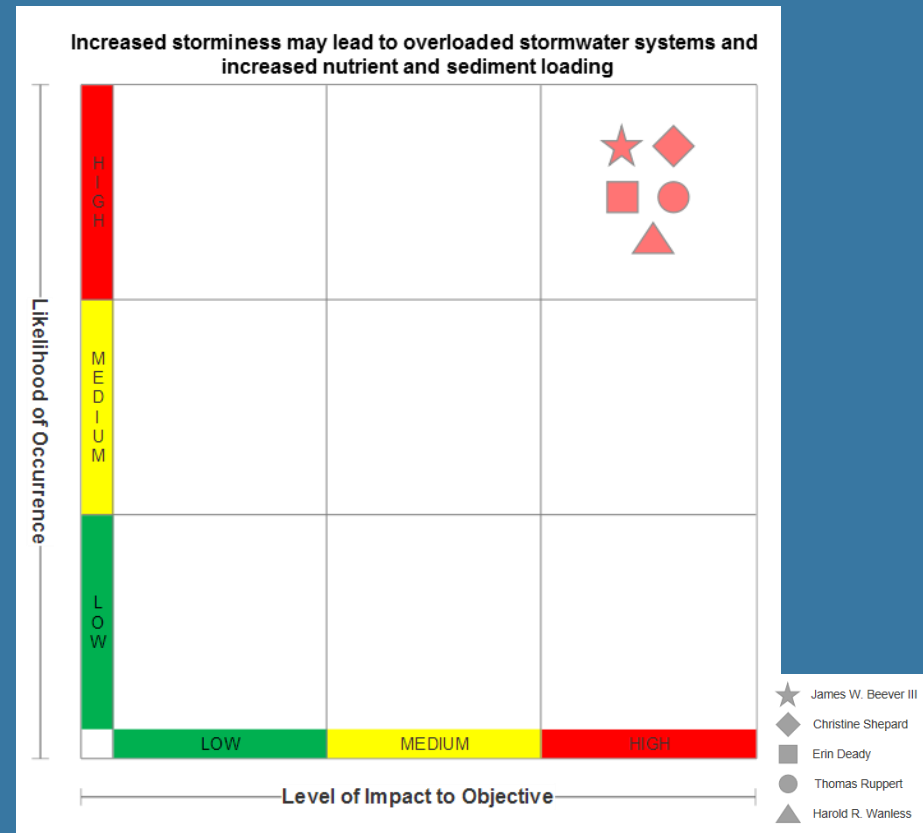
- February 2017 stakeholder meeting: brainstormed with Management Conference members
- Additional risk identification conducted by staff
- No risks were identified for CCMP priority area Stewardship Gaps

Risk Analysis



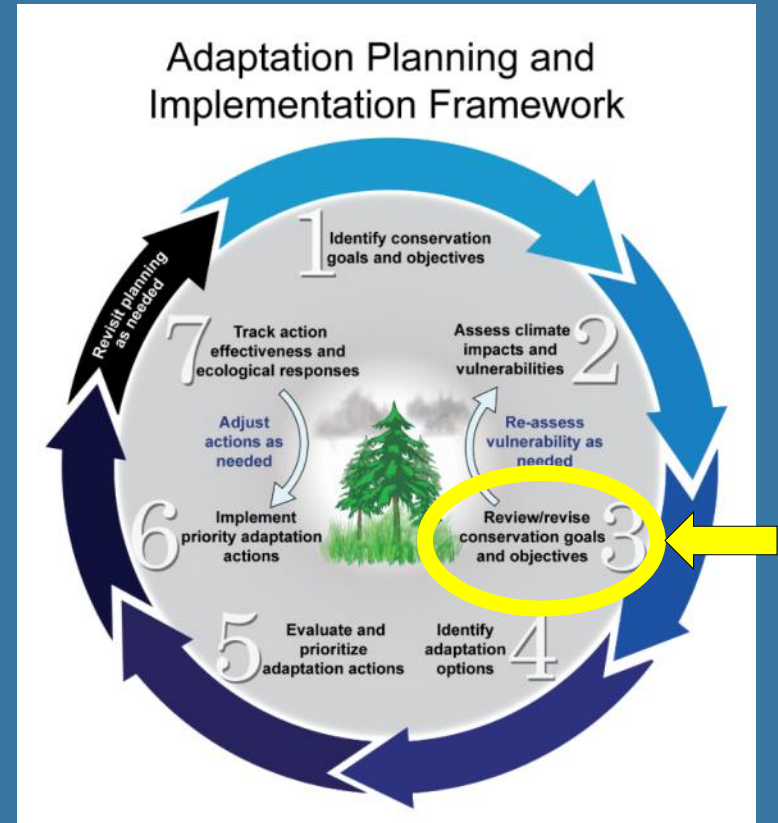
Purpose of this step: Analyze the likelihood and level of impact for each risk

- Sent out survey to regional experts to gather input and develop initial determinations for each risk
 1. Likelihood of Occurrence
 2. Level of Impact to Objective



Next Steps

- Risk evaluation: review risk analysis results and build consensus about each risk
- Develop Likelihood/Impact matrices to compare and prioritize risks
- Incorporate results into future management goals and identify adaptation strategies



From Third National Climate Assessment

CCVA Interactive Exercise

- Check the back of your name badge to determine your group number (1-6)
- Gather with your group members at your designated area to participate in the Interactive Exercise
- Results will be presented after the Lunch Break