



# Implement, Evaluate and Update Adaptation Plan

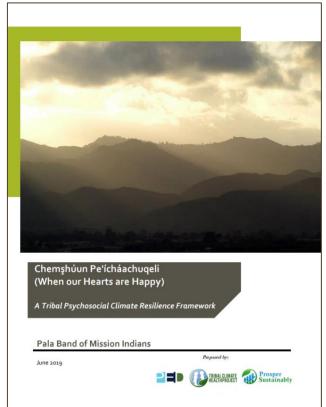
Tribal Climate and Health Adaptation Webinar #8

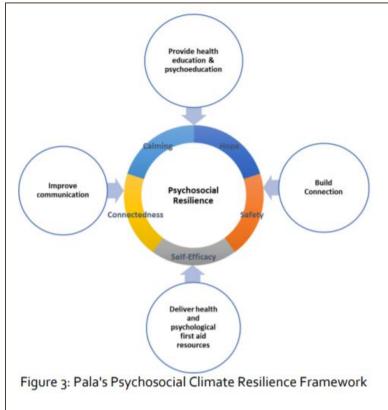


### Since Last Webinar

### Suggested Reading

• Chemşhúun
Pe'icháachuqeli (When
our Hearts are Happy): A
Tribal Psychosocial
Climate Resilience
Framework (Pala)





### **Chat Discussion:**

What strategies stood out?

### Recap: Set Up Your Adaptation Plan with Implementation in Mind

### **Steps**

- Determine Objectives and Scope
- 2. Compile "long list" of adaptation strategies
- 3. Evaluate and Prioritize"Short List" of AdaptationStrategies
- 4. Organize Selected
  Strategies into an
  Action Plan
- 5. Synthesize and Present Results

### Step 4. Organize selected strategies into an Action Plan

- Outlines how your community will roll out its implementation of selected strategies
  - Responsible departments
  - Timeframe
  - Status
  - Partners/resources (including funding opportunities)
- TCHP's Exposures, Impacts, and Strategies Inventory (EISI) tool can help (DEMO)
- See Pala's Adaptation Plan for an example (DEMO)
- Also outlines rules governing how the plan will be evaluated and updated
  - What metrics will you continue to track?
  - Will you complete progress reports?
  - Who will oversee implementation?
  - When will you update the plan?

### What to Implement First?

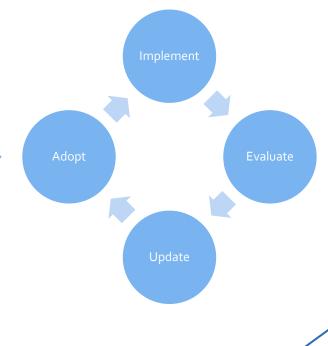
- IPCC: basic health measures
- TCAG: Fewest barriers, highest chance of success and greatest resilience value
- Studies: Social capital and trauma coping skills

### TCHP Framework and Tools

Vulnerability Assessment

Adaptation Plan

- The process doesn't end once the plan is adopted
- BRACE framework: "preparing for climate change is a cyclical and continuous process"
- You're now in good position to pursue funds for your strategies



**Companion Tools** 

- Fact Sheet Examples
- Exposures, Impacts, and Strategies
  Inventory (EISI) tool

### <u>Steps</u>

- . Implement
- . Evaluate
- 3. Update

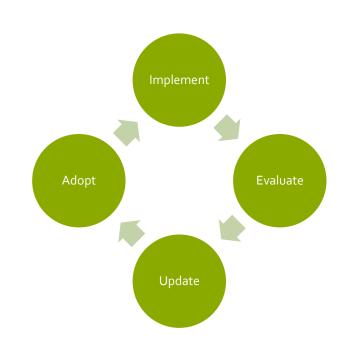
### **Group Discussion:**

Words of wisdom from those that have begun implementing an adaptation plan.

### **Steps after Adoption**

### 1. Implement

- Use your Action Plan as a road map, but even the best laid plans may need adjusting along the way
- Lead staff continue engaging stakeholders, especially those with ongoing responsibilities
- Responsible departments take ownership of the timely implementation of each strategy assigned to them.
  - Pala's Climate and Health Fact Sheets provide examples of how to educate your community on the risks and actions you're taking





**Adaptation Planning Tool** – Exposures, Impacts, and Strategies Inventory (EISI) tool (Updated October 2, 2019 BETA VERSION). This is a draft of a customizable companion tool that can support communities that are conducting adaptation planning. Information and data sources are compiled and organized to present information needed at several decision-making steps to help your community prepare to take the most effective actions. We are continuing to build functionality and improve information. The latest update includes more indicators and data sources (national and California specific). Please send questions or comments to ahacker@prospersustainably.com.

**Survey Template** – Climate Vulnerability Experiences and Priorities Survey for gathering initial community input. If you have a Google account, you can use this link to create and save a copy of this template to customize for your tribe.

**Sample Reports** – Pala Band of Mission Indians Climate Change Vulnerability Assessment and Climate Change Adaptation Plan. These reports incorporate health impacts and strategies. This Word version allows others to modify for their own community.

Fact Sheets – Pala Band of Mission Indian produced the following fact sheets to help their community understand high-risk climate exposures and how to recognize and prepare for climate threats:

- Extreme Heat (Elevated Temperatures)
- Wildfires
- Flooding and Storms
- Drought

Other Relevant Training Materials not Produced by the Tribal Climate Health Project

**Tribal Resolution Template** –ITEP's Tribal Climate Change Resolution Template

### Pala Educational Fact Sheet Example



#### PALA'S HIGH-RISK HEALTH IMPACTS

Below are health impacts considered high or medium risk for residents of Pala.

- · Heat-related stress, illness, and death
- · Consequences for mental, behavioral and cognitive wellbeing
- · Decline of culturally important plants and animals
- Lost work, school, or business days
- Decrease in fitness activity level
- . Disruptions of community functions or ceremonies
- Carbon monoxide poisoning (e.g. from generators during a power outage)
- · Respiratory and cardiovascular illness
- Worsened allergies
- Food shortage due to global production and price fluctuations
- . Illness and death caused by Lyme, West Nile Virus, and Zika

#### WHAT IS PALA DOING TO ADAPT AND PREPARE?

Pala completed an Adaptation Plan with a full list of strategies to help safeguard the health and wellbeing of the Pala community. Below are a few examples of ways we plan to address elevated temperature threats.

- Build alternative power supplies e.g. building or community-scale battery storage and microgrids incorporating renewables to avoid power outages for critical facilities during exposure-event
- Conduct education to encourage community members to prepare for exposure

#### TIPS FOR STAYING SAFE DURING EXTREME HEAT

- Get inside. Pala's cooling centers at located at the Pala Resort and Casino and the Fitness Center
- · Stay hydrated and rested
- · Never leave anyone in a closed vehicle
- · Check on elders and other vulnerable neighbors
- Don't forget your pets!
- Take advantage of medical and emotional care services
- · Recognize the symptoms of heat stroke.
- Set up a family emergency plan
- Follow <u>Pala Environmental Department on Facebook</u> for climate updates and information.
- . Sign up for San Diego County's Alert System

### Real World Implementation Experiences



This Photo by Unknown Author is licensed under CC BY-SA

### **Group Discussion:**

Please share lessons learned and unexpected experiences related to implementing adaptation strategies.

### **Steps after Adoption**

### 2. Evaluate

- Lead staff coordinate regular monitoring and reporting of indicators and progress amongst responsible departments
  - TCHP's EISI tool is built to allow communities to continue tracking key indicators over time (DEMO)
  - See Pala's Adaptation Plan for an example (DEMO)

### 3. Update the plan as needed to account for change

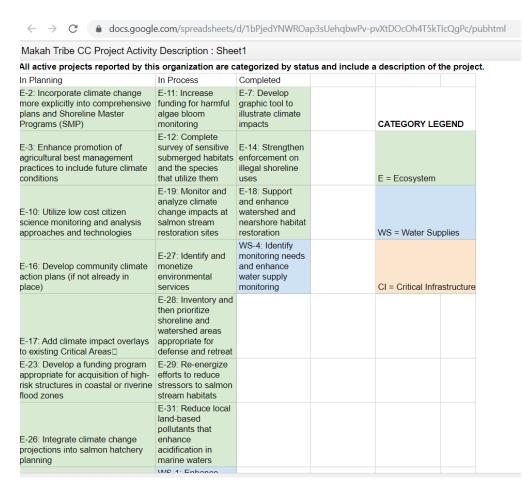
 You can save time by re-evaluating, updating and prioritizing from your last iteration

Example: Nez Perce Tribe The Nez Perce Tribe Clearwater River Subbasin (ID) Climate Change Adaptation Plan identifies a number of metrics to track progress in implementing their adaptation actions:

- Number of attendees at each meeting, and quality of information provided
- Inclusion of Tribal concerns and adaptation strategies into updated US Forest Service Forest management plans;
- Number of presentations given to regional officials;
- Documentation of changes made to existing ordinances;
- Completion of floodplain modeling scenarios;
- Development of site-specific restoration plans;
- Development and distribution of educational materials; and Number of road miles and crossings improved.

### Sharing your community's story

- If you've made it this far, your community is on the forefront of climate adaptation
- Communicate your activities and progress to your community
  - Progress reports
  - Dashboards
  - Community meetings
- Others can benefit from your experience
  - Document the process and results
    - Case study
    - Academic or scientific journals
    - Articles
  - Share it broadly
    - Other tribes or consortiums
    - Federal agencies
    - Tribal-serving programs and databases, such as:
      - Tribal Climate Health Project
      - U.S. Climate Resilience Toolkit
      - BIA Tribal Resilience
      - ITEP



**Example: Makah's Climate Adaptation Dashboard** 



 $\textcolor{red}{\textbf{\^{a}}} \quad docs.google.com/spreadsheets/d/1bPjedYNWROap3sUehqbwPv-pvXtDOcOh4T5kTlcQgPc/pubhtml}$ 

#### Makah Tribe CC Project Activity Description : Sheet1

#### All active projects reported by this organization are categorized by status and include a description of the project.

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In Planning	In Process	Completed		
E-2: Incorporate climate change more explicitly into comprehensive plans and Shoreline Master Programs (SMP)	E-11: Increase funding for harmful algae bloom monitoring	E-7: Develop graphic tool to illustrate climate impacts	CATEGORY LE	GEND
E-3: Enhance promotion of agricultural best management practices to include future climate conditions	E-12: Complete survey of sensitive submerged habitats and the species that utilize them	E-14: Strengthen enforcement on illegal shoreline uses	E = Ecosystem	
E-10: Utilize low cost citizen science monitoring and analysis approaches and technologies	E-19: Monitor and analyze climate change impacts at salmon stream restoration sites	E-18: Support and enhance watershed and nearshore habitat restoration	WS = Water Supplies	
E-16: Develop community climate action plans (if not already in place)	E-27: Identify and monetize environmental services	WS-4: Identify monitoring needs and enhance water supply monitoring	CI = Critical Infrastructure	
E-17: Add climate impact overlays to existing Critical Areas□	E-28: Inventory and then prioritize shoreline and watershed areas appropriate for defense and retreat			
E-23: Develop a funding program appropriate for acquisition of highrisk structures in coastal or riverine flood zones	E-29: Re-energize efforts to reduce stressors to salmon stream habitats			
E-26: Integrate climate change projections into salmon hatchery planning	E-31: Reduce local land-based pollutants that enhance acidification in marine waters			

## Implement and Evaluate Your Adaptation Strategies

Example: Makah's climate adaptation dashboard

### Closing

Thank you sincerely for participating in our second webinar series



### **Group Discussion:**

How has this training enabled you to return home and get to work?

Any closing thoughts or well wishes for the group before we close our series?

### Closing

#### What's Next?

Please fill out final assessment and evaluation

https://www.surveymonkey.com/r/QKJJCS6

Feel free to revisit training materials online

http://tribalclimatehealth.org/training-materials/

- As an alum, continue engaging in TCHP's ongoing Peer Learning Community
- Help us spread the word about future trainings currently being developed
  - Tribal Lands and Environment Forum today!
  - Tribal Pollution Prevention Action
  - Psychosocial mini-series



### **Free Online Training**

**Prevent Pollution and Save Money** 

TribalP2Action National Webinars and Roundtable Meetings

August 25 - September 22, 2020

The Tribal Pollution Prevention Action team (TribalP2Action) presents a series of online events focusing on helping tribal businesses and other organizations prevent pollution and save money in the areas of hazardous substances, water, wastewater, and energy. From Aug. 25 through Sept. 22, this series of 90-minute webinars and roundtable meetings will provide P2 planning and implementation guidance and resources, best practices, case studies from tribal businesses, roundtable discussions on experiences and solutions, and more.

Get info and REGISTER:

tribalp2action.org/webinar-roundtable-series

Learn more and CONTACT US: www.tribalp2action.org







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### **Thank You**

### Acknowledgements

- US Environmental Protection Agency
- US Bureau of Indian Affairs
- Members of the TCHP Advisory Group
- National Indian Health Board





### Implement, Evaluate, and Update – Key Resources

### Guidance

- Oregon Climate Change Research Institute - <u>Tribal</u> <u>Climate Adaptation Guidebook</u> (Steps 4 and 5)
- <u>U.S. Climate Resilience Toolkit</u>
- BIA Tribal Resilience

### **Tools and Templates**

- TCHP <u>Exposures, Impacts,</u>
   <u>Strategies Inventory (EISI) tool</u>
   Beta Version
- Pala Band of Mission Indians - <u>Climate Change Adaptation</u> <u>Plan</u>
- Pala Band of Mission Indians
   Climate Change Fact Sheets -
  - Extreme Heat (Elevated Temperatures)
  - Wildfires
  - Flooding and Storms
  - <u>Drought</u>

### **Examples**

### **Progress Reports**

- US Bureau of Reclamation - <u>Climate Change Adaptation</u> <u>Strategy: 2016 Progress Report</u>
- Makah Tribe: <u>Climate</u> <u>Adaptation Dashboard</u>