



Resilience

Russian River Watershed

# Russian River Watershed Resilience Pilot



**Watershed Network Meeting 5**  
**February 24, 2026**

*Funding for this project has been provided in full or in part from the Budget Act of 2022 and through an agreement with the State Department of Water Resources.*

# News from around the Watershed

- While we wait for folks to join, please post any news from around the watershed in the chat
- News could include:
  - Achieving project milestone.
  - Citing of an interesting bird, mammal or amphibian.
  - Funding news
  - Celebration of a community member
  - Anything else you'd like to share.

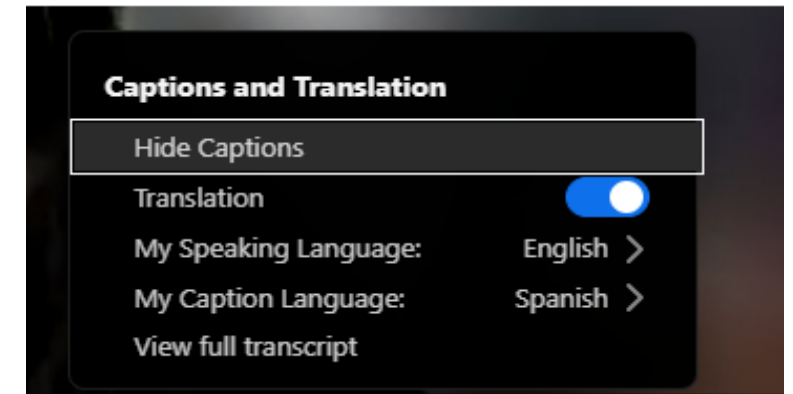
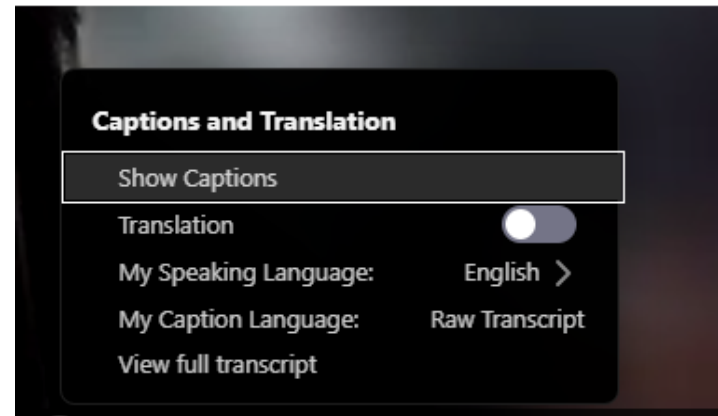
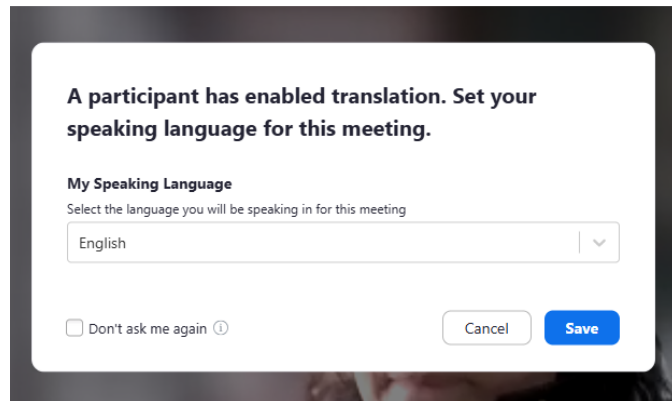


# Interpretation Captioning

- Elegir su idioma en la caja que parece después de unir la reunión. Haga clic “save”
- Select your speaking language on the dialog box that appears after you join, hit save

- Apague captiones por navegar al botón en la pantalla, elige “show captions”
- Now turn on captions by going to the CC button on the Zoom toolbar and choosing “show captions”

- En el menú que aparece, prenda traducción
- In the menu that appears, turn on translation
- Al lado do “my caption language”, abra el menú para elegir su idioma preferida
- Next to “My caption language”, open the menu to select your preferred language



# Today's Agenda

- Welcome – Chris Delaney, Sonoma Water
- Adaptation Strategies – Armin Munevar, Jacobs
- Watershed Network Implementation Strategies– Laura Harnish, Jacobs
- Watershed Resilience Plan – Laura Harnish, Jacobs
- Closing & Next Steps

# Meeting Objectives

1. Present updates on Adaptation Strategies
2. Discuss resilience strategy implementation
3. Introduce Watershed Resilience Plan



# Project Timeline and Key Milestones

- **Watershed Network Meetings:**

- February - Completed
- May- Completed
- September, November 2025
- January, March 2026

- **Draft Watershed Resilience Plan:**

- Early 2026

- **Final Watershed Resilience Plan:**

- April 2026

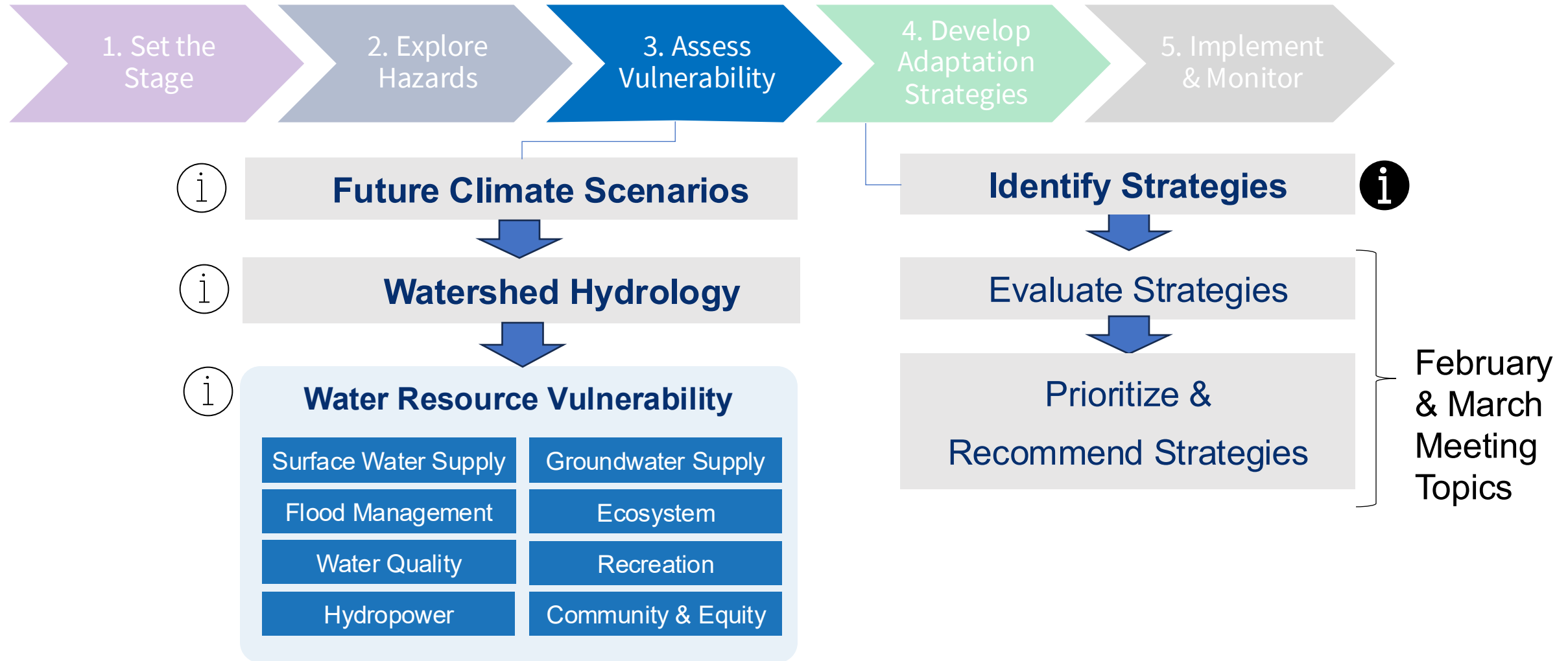
Task	2024	2025	2026
<b>Watershed Network Coordination</b>			
- Review Previous Planning Efforts			
- Identify and Assess Existing Regional Networks			
- Develop Watershed Network			
- Watershed Resilience Vision			
- Delineate Watershed Area			
<b>Climate Change Analysis</b>			
- Phase 1: Initial Climate Vulnerability Assessment			
- Phase 2: Detailed Vulnerability and Watershed State Assessment			
- Assess Vulnerabilities and Risks			
- Develop Adaptation Strategies			
- Develop Implementation Strategies			
<b>Watershed Resilience Plan</b>			
- Performance Tracking			
- Draft Watershed Resilience Plan			
- Final Watershed Resilience Plan			



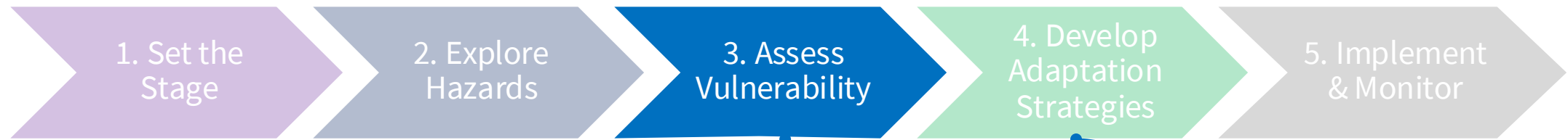
# Adaptation Strategies

Armin Munévar

# Resilience Planning



# From Vulnerability Assessment to Adaptation Strategies



1. Systematically identify & evaluate the vulnerabilities of watershed resources to climate hazards.
2. Highlight critical vulnerabilities for additional focus.
3. Inform development of targeted adaptation strategies for long-term resilience.

1. Prioritize areas of highest vulnerability
2. Frame breadth of potential strategies
3. Solicit input on potential strategies
4. Synthesize input and develop conceptual strategies
5. Evaluation strategies



# Soliciting Input on Adaptation Strategies

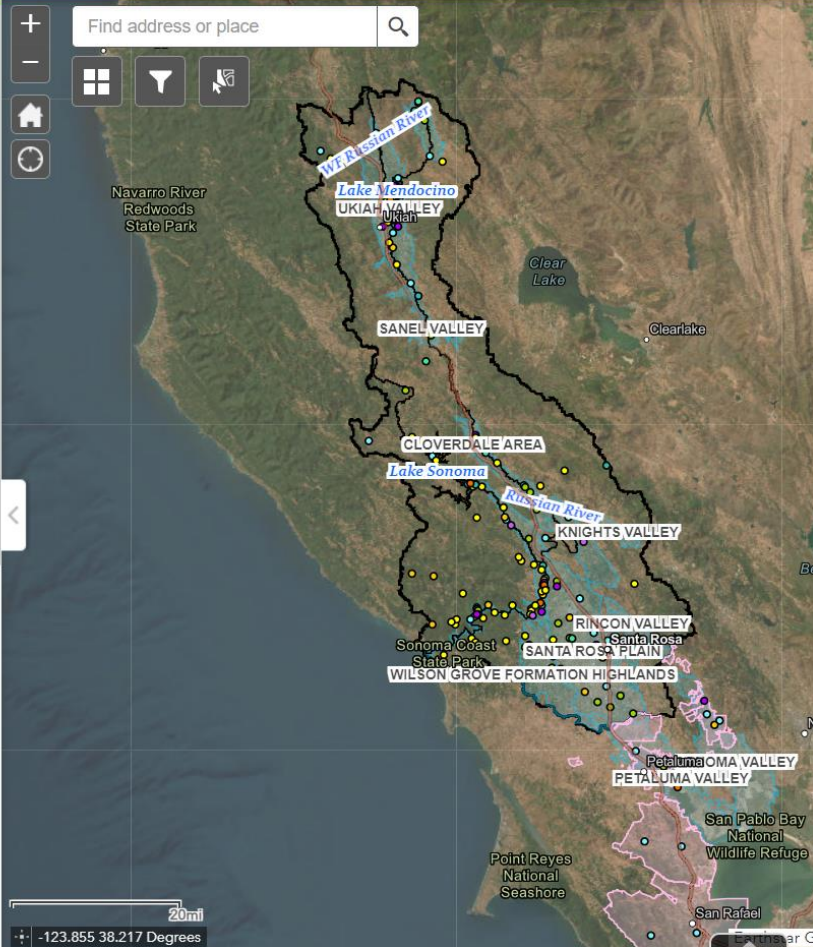
**Jacobs** Russian River Watershed: Adaptation Strategies Comment Collector Public

**Help Shape Our Climate Resilience Strategy**

We invite you to share your ideas for adaptation strategies or actions that can reduce climate-related impacts and strengthen resilience. Your input will guide future planning and investment in climate adaptation. Every idea counts—whether it's big or small!

**How to Participate**

- 1. Review Vulnerabilities.**
  - The circles on the map indicate vulnerabilities identified
  - Click on the circle to see vulnerability description and rating
- 2. Submit Your Adaptation Ideas**
  - Think about strategies that could improve resilience such as water resource management, policy changes, community-based actions, or specific projects.
  - Place a Dot on the Map to **Help us Visualize Priority Areas for Implementation.**
    - Click on a dot for the category (Ecosystems, Equity, Flood Management, etc.) that you are interested in.
    - Fill out the form with details about your proposed adaptation strategy



- We want your good ideas!
- Use Online tool
- Or reach out to Project Team
- Be specific
  - What water resource vulnerability does it address?
  - What climate impacts?
  - What type of adaptation strategy is it?
  - Where does it apply?
    - Specific location?
    - Watershed-wide?

# Significant Sources of Adaptation Strategies

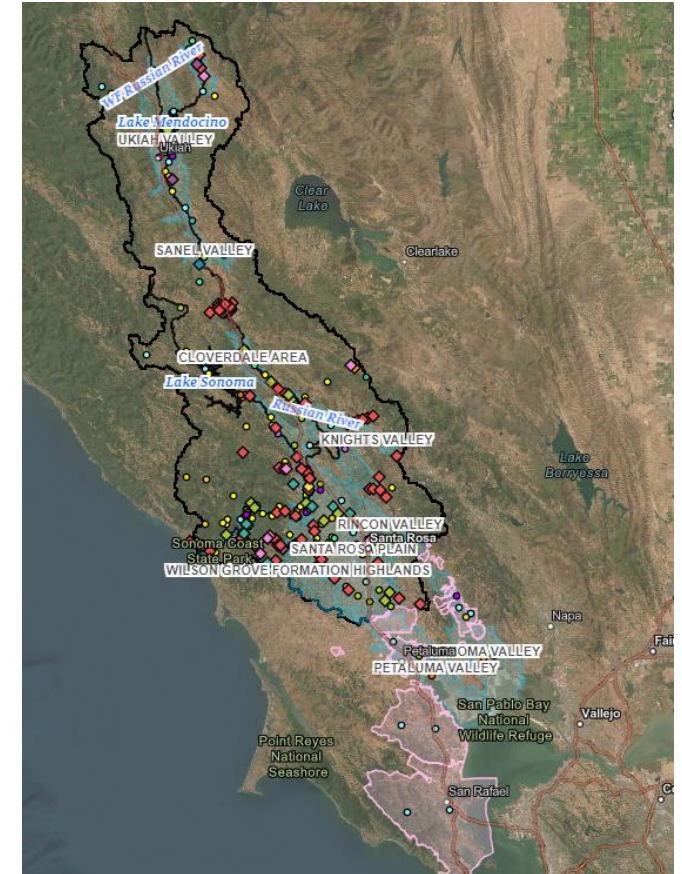
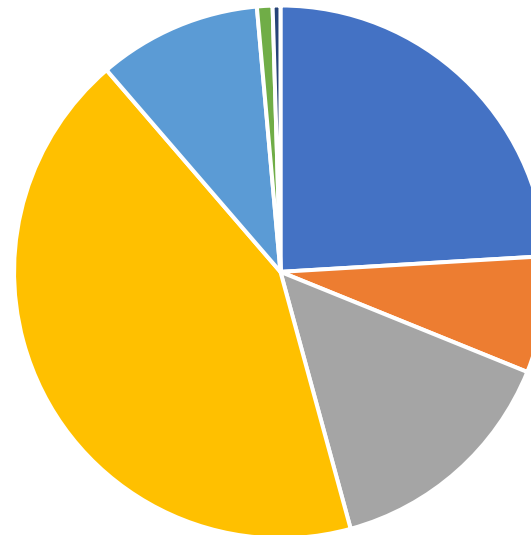
- Watershed Network Input
- Sonoma Water Climate Adaptation Plan
- Potter Valley Water Supply Reliability Study
- Regional Water Supply Resilience Study
- Local Hazard Mitigation Plans
- Conservation Assessments
- Regional Water Quality Control Board
- Groundwater Sustainability Plans
- Project Team Input



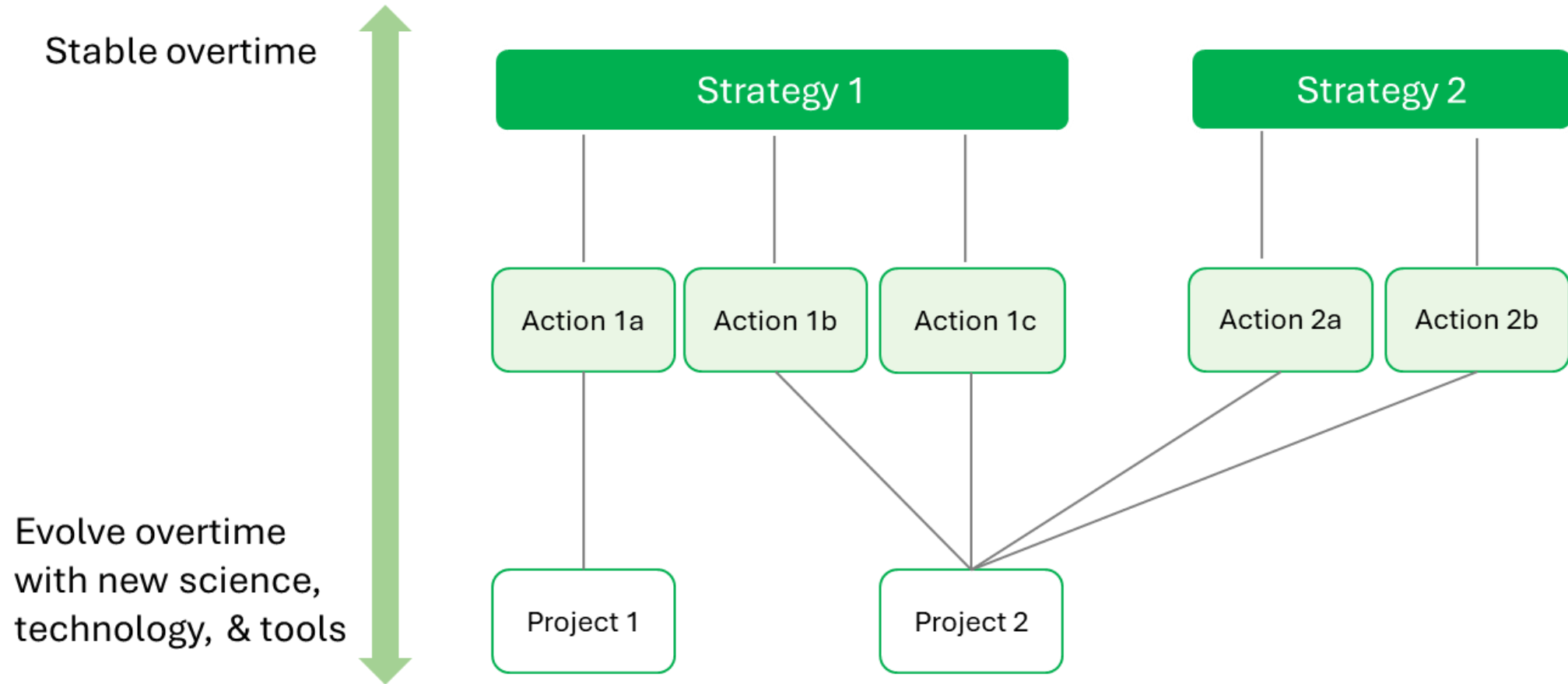
# Summary of Adaptation Strategy Input Compiled

- Over 200 adaptation concepts compiled
- Addressing all water resource sectors
- Distributed across the watershed
- Strong response for concepts in Lower River, Water Supply, Ecosystems, and Flood Management

Distribution of Adaptation Concepts Compiled



# Organizing Strategies, Actions, and Projects



# Draft Climate Adaptation Strategies

<b>Climate Adaptation Strategy</b>	<b>Water Resource Sectors</b>
<b>1. Increase Resilience to Changes in Upper River and Eel River Imports</b>	WS, EC
<b>2. Increase Water Supply Resilience to Drought</b>	WS
<b>3. Increase Water Conservation and Water Use Efficiency</b>	WS
<b>4. Expand Conjunctive Use of Surface Water and Groundwater</b>	WS
<b>5. Improve Forecasts and Forecast-Based Operations</b>	WS
<b>6. Reduce Flood Risk to Communities and Infrastructure</b>	FM, EQ
<b>7. Support Fire Prevention and Wildfire Risk Reduction</b>	WF, EC, WS, EQ
<b>8. Manage Sustainable Headwaters</b>	FM, WF, EC
<b>9. Promote Land Stewardship Measures to Restore Watershed Function</b>	FC, WS, EC, WQ
<b>10. Restore Floodplains and Connectivity</b>	EC, FM
<b>11. Restore Hydrological Function, Habitat, and Thermal Refugia in Tributaries</b>	EC, WQ
<b>12. Adapt Russian River Estuary to Future Conditions</b>	EC, FM
<b>13. Support Flexible and Adaptive Policy for Resilient Watershed Management</b>	WS, EC, FM, WQ, RC
<b>14. Enhance Tool, Monitoring, and Water Accounting Methods</b>	WS, FM, EC, WQ
<b>15. Improve Understanding of Historical Geomorphology, Land Use, and Sediment</b>	FM, EC, WQ

# Strategy #1 – Increase Resilience to Changes in Upper River and Eel River Imports

- Adaptation Concepts include:

- **Raise Coyote Valley Dam**
- **Lake Mendocino Variable Gates**
- Potter Valley Storage
- Water Use Accounting
- **Improve Water Demand Management on Russian River**
- Implement Production Well Drilling Program to Validate Groundwater Supply in Potter Valley
- Initiate District Scale Water Use Efficiency Program in Potter Valley
- Incentivize Expanded Pond Storage throughout Potter Valley
- Lake Sonoma Secondary Outlet
- Refine and maintain FIRO at Lake Mendocino
- **Alexander Valley Managed Aquifer Recharge**



# Strategy #2 – Increase Water Supply Resilience to Drought

- Adaptation Concepts include:
  - **Regional Water Bank**
  - Expand Stafford Lake Storage
  - Integrate Future Sonoma Developmental Center Water Supply
  - Expand Recycled Water Supply
  - Expanded Water Conservation and Water Use Efficiency (M&I and Agricultural Users)
  - **Lake Sonoma Forecast Informed Reservoir Operations**
  - Improve Integration of Regional Storage Operations
  - Raise Coyote Valley Dam
  - Water Use Accounting
  - Water Sharing Program During Droughts
  - Real-Time Water Budget and Accounting System
  - Expand Advanced Metering Infrastructure (AMI)
  - **Climate and Weather Modeling and Forecasting**
  - Lake Mendocino Variable Gates
  - **Lake Sonoma Secondary Outlet**



# Strategy #3 – Increase Water Conservation and Water Use Efficiency

- Adaptation Concepts include:
  - Expand Recycled Water Supply
  - **Expanded Water Conservation and Water Use Efficiency (M&I Users)**
  - **Expanded Water Conservation and Water Use Efficiency (Agricultural Users)**
  - Water Use Accounting
  - Water Sharing Program During Droughts
  - Real-Time Water Budget and Accounting System
  - Feasibility of Replacing Recycled Water Exports with Flood Diversions to Geysers Geothermal Project
  - Comprehensive Urban Growth Planning
  - **Expand Advanced Metering Infrastructure (AMI)**
  - Rate Structures to Adapt to Increased Variability and Volatility in Sales

# Strategy #4 – Expand Conjunctive Use of Surface Water and Groundwater

- Adaptation Concepts include:
  - **Transmission System Wells**
  - Increase Groundwater Production by Adding New or Rehabilitating Wells
  - Alexander Valley Managed Aquifer Recharge
  - Petaluma Brackish Groundwater Desalter
  - **Regional Water Bank**
  - Expand Groundwater Basin Boundaries to Include Tributaries Important to Salmonids
  - Improve Understanding of Groundwater Recharge Dynamics and Sources
  - Integrated Surface and Groundwater Supply Portfolios
  - **Convert Emergency Wells to Production Wells**
  - Aquifer Storage and Recovery Projects in Santa Rosa Plain, Sonoma Valley, and Petaluma Valley
  - Implement Production Well Drilling Program in Potter Valley to Validate Groundwater Supply

# Strategy #5 – Improve Forecasts and Forecast-Based Operations

- Adaptation Concepts include:
  - Expand ALERT Weather Gage Network
  - Lake Sonoma Forecast Informed Reservoir Operation
  - Lake Mendocino Forecast Informed Reservoir Operation
  - Central Sonoma Water Project FIRO Applications
  - **AQPI Operational Support Tool**
  - Climate and Weather Modeling and Forecasting



# Strategy #6 – Reduce Flood Risk to Communities and Infrastructure

- Adaptation Concepts include:

- Comprehensive Flood Planning at Infrastructure Hardening, Retreat, or Other Strategies
- **Floodplain Restoration on Russian River near Cloverdale**
- Atascadero Creek Flood Resilience
- **Ukiah Area Floodplain Restoration**
- Increase Flood Resilience in Lower Russian River
- Acquire Conservation Easements over Existing Floodplain
- Policy for Elevating Homes in Flood Zones Paired with Conservation
- Lower Mark West Creek Floodplain Restoration
- Acquire Properties Subjected to Repeated Flooding
- Flood Management and Groundwater Recharge Projects in Laguna-Mark West Watershed
- Stormwater Projects Included in Storm Water Resources Plan for Russian River
- Expand Santa Rosa Creek Floodplain
- Slow and Sink Flows on Watershed
- Widen Geyserville Bridge
- **Reduce Channel-Flooding Near Geyserville**
- Alexander Valley Reach Feasibility Study
- **Improve Spillway at Matanzas**
- Wohler and Mirabel Flood Resilience Project - Collectors and Access Roads
- Improve Regional Coordination on Flood Risk Management
- Integrate Flood Management and Land Management
- Update Flood Management Design Manual
- Improve WWTP Road Access and Emergency Staffing
- **Address Schellville Flooding**



# Strategy #7 – Support Fire Prevention and Wildfire Risk Reduction

- Adaptation Concepts include:
  - Support Fire Prevention and Wildfire Risk Reduction
  - **Watershed Fuels Management (CA Wildfire and Forest Resilience Action Plan)**
  - Post-Fire Remediation Actions
  - **Develop BMPs including Cultural Spot Burns for Using Fire to Improve Habitat in Riparian Zones**
  - Continue Research and Training for Vegetation Management Practices
  - Advanced Planning of Wildfire Resilience and Post-Fire Management
  - Wildfire Resilience
  - **Protect Critical Infrastructure Operations and Access**



# Strategy #8 – Manage Sustainable Headwaters

- Adaptation Concepts include:
  - Headwater Restoration
  - **Slow it, spread it, sink it, store it**
  - **Conserve and Increase Upland and Riparian Habitats** in Dutch Bill, Green Valley, Mill, and Mark West Creeks

# Strategy #9 – Promote Land Stewardship Measures to Restore Watershed Function

- Adaptation Concepts include:
  - **Work with Tribes and Build in Traditional Ecological Knowledge**
  - Hanson Pits Floodplain Restoration
  - Remove or Setback Levees at Syar Pits
  - Outreach to Support Preservation of Riparian Vegetation Buffers
  - Conserve and Increase Upland and Riparian Habitat in Dutch Bill, Green Valley, Mill, and Mark West Creeks
  - Acquire and Protect Properties in Key Locations for Fish Habitat
  - **Protect Undeveloped Floodplains**
  - **Establish Resources and Education for Landowners for Grants and Permitting**
  - Create Supportive Processes for Potter Valley To Transition with Changing PVP



# Strategy #10 – Restore Floodplains and Connectivity

- Adaptation Concepts include:
  - **Hanson Pits Floodplain Restoration**
  - Remove or Setback Levees at Syar Pits
  - Protect Instream Flows in Critical Coho Watersheds
  - Atascadero Creek Stream Channel Sediment Removal
  - **Restoration Concepts from Laguna Restoration Plan**
  - Restoration Projects in Green Valley, Atascadero, and Dutch Bill Creeks
  - Restoration Projects in East Austin, Pena, Mill, and Redwood Creek Watersheds
  - Middle to Upper Mark West Watershed Processes Enhancement
  - Crane Creek Restoration
  - Laguna de Santa Rosa Restoration
  - **Protect Undeveloped Floodplains**
  - Improve Understanding of Factors Affecting Water Temperature
  - Advanced Monitoring Techniques to Inform Modeling and Drought/Flood Responses
  - Improve Modeling of Riparian, Floodplain, and Flood Dynamics



# Strategy #11 – Restore Hydrological Function, Habitat, and Thermal Refugia in Tributaries

- Adaptation Concepts include:
  - Protect Instream Flows in Critical Coho Watersheds
  - Atascadero Creek Stream Channel Sediment Removal
  - Restoration Concepts from Laguna Restoration Plan
  - Restoration Projects in Green Valley, Atascadero, and Dutch Bill Creeks
  - Restoration Projects in East Austin, Pena, Mill, and Redwood Creek Watersheds
  - Middle to Upper Mark West Watershed Processes Enhancement
  - Create Secondary Channels on Dutch Bill Creek
  - Restore Incised Tributary Streams to Dutch Bill Creek
  - Laguna de Santa Rosa Restoration
  - Implement the North Coast Water Board's Policy in Support of Restoration
  - Identify Locations of Russian River Thermal Refugia
  - Continue to Evaluation Dam Releases on Dry Creek Restoration Structures
  - Reintroduce Beaver on Willow Creek
  - Holistic Consideration of Tributaries and River
  - Implement City of Santa Rosa City-wide Creek Master Plan
  - ...



# Strategy #12 – Adapt Russian River Estuary to Future Conditions

- Adaptation Concepts include:
  - Estuary Management under Future Conditions
  - Adaptive Estuary Management and Structure Protection



# Strategy #13 – Support Flexible and Adaptive Policy for Resilient Watershed Management

- Adaptation Concepts include:
  - Implement the North Coast Water Board's Policy in Support of Restoration
  - Address Water Quality and Riparian Habitat Degradation due to Unhoused Population
  - Establish Resources and Education for Landowners for Grants and Permitting
  - Acquire Conservation Easements over Existing Floodplain
  - Policy for Elevating Homes in Flood Zones Paired with Conservation
  - Acquire Properties Subjected to Repeated Flooding
  - Integrate Flood Management and Land Management
  - Update Flood Management Design Manual
  - Regulatory Flexibility through Temporary Urgency Change Permits
  - Change in Russian River hydrologic index for instream flow setting
  - Incentives to Transition Off Riparian Diversions or Near-Stream Wells
  - Implement North Coast Water Board's Policy for the Implementation of the Water Quality Objectives for Temp
  - Policy on Restoring and Maintaining Hydrologic Function, Impacts of Vegetation Management on Instream Flow, Hydromodification and Runoff Management; Water Conservation
  - Action Plan to Address Water Quality Impairments in the Laguna de Santa Rosa Watershed



# Strategy #14 – Enhance Tool, Monitoring, and Water Accounting Methods

- Adaptation Concepts include:
  - Update Flood Management Design Manual
  - AQPI Operational Support Tool
  - Develop Hydrology/Hydraulics and Hydrogeologic Modeling and Monitoring
  - Expand Watershed Models
  - Advanced Monitoring Techniques to Inform Modeling and Drought/Flood Responses
  - Improve Modeling of Riparian, Floodplain, and Flood Dynamics
  - Climate and Weather Modeling and Forecasting



# Strategy #15 – Improve Understanding of Historical Geomorphology, Land Use, and Sediment

- Adaptation Concepts:
  - Channel Geomorphology and Process Restoration Opportunities
  - Understand and Document Legacy of Change on the River and Watershed



# Evaluate Adaptation Strategies


## Potential Evaluation Criteria:

- Resilience improvement
- Cost to implement
- Timing to implement
- Environmental Effects
- Feasibility
- Energy Effects
- Permitting and legal complexity
- Social Effects
- Jurisdictional complexity

Evaluation Summary of Alternatives

Code	Name	Yield Rati..	Cost Rating	Timing Ra..	Reliability..	Flexibility ..	Feasibilit..	Environm..	Energy Ra..	Permittin..	Social Rati..	Jurisdicti..	Public Acc..	Yield Value
2		5	4	1	4	2	4	5	5	2	2	3	5,045	
2		5	4	1	4	2	4	5	5	2	2	3	5,045	
1		5	4	1	4	2	4	5	5	2	2	3	10,090	
1		5	4	2	4	2	4	5	5	2	2	3	15,130	
2		5	3	1	4	3	4	5	5	2	2	3	5,145	
2		5	5	1	4	2	4	4	5	2	3	3	5,045	
2		3	3	3	3	2	3	3	3	2	3	2	5,325	
2		3	4	2	4	3	4	1	4	5	4	4	5,000	
2		3	4	2	4	3	4	1	4	4	4	4	5,000	
2		3	4	2	4	3	4	1	4	3	4	3	5,000	
3		5	5	4	5	4	5	1	5	5	5	5	2,500	
3		5	5	4	5	4	5	1	5	5	5	5	2,500	
5		2	2	2	2	2	2	1	2	2	1	1	233	
5		2	2	2	2	2	2	1	2	2	1	1	578	
5		2	2	2	2	2	2	1	2	2	1	1	333	
5		2	2	2	2	2	2	1	2	2	1	1	175	
5		1	1	1	2	1	2	2	2	2	1	1	260	
5		1	1	1	2	1	2	1	2	2	1	1	420	
4		1	1	3	1	1	2	2	1	2	2	1	2,000	
3		3	2	3	1	1	2	2	1	2	2	1	2,500	
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1		5	5	2	5	5	4	5	5	4	2	5	7,060	

Evaluation Criteria



**Questions?**  
**Hay algunas preguntas?**



# **Resilience Strategy Implementation**

**Laura Harnish**

# Questions to Consider Re: Implementation



What is the need for the Watershed Network for Plan Implementation?



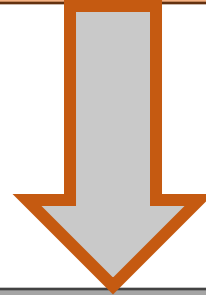
How do we move Adaptation strategies from the Plan to projects on the ground?



# Pathways for Implementation

**Identify  
Strategies**

**Adaptation Strategies to Improve Resilience Across Water Resource Sectors**  
Flood, Groundwater, Water Supply, Recreation, Hydroelectric, Water Quality



**Build  
Enabling  
Conditions**

Science and  
Tools

Organizational  
Capacity

Partnerships

Public  
Support

Funding



# Organizational Capacity of the Network

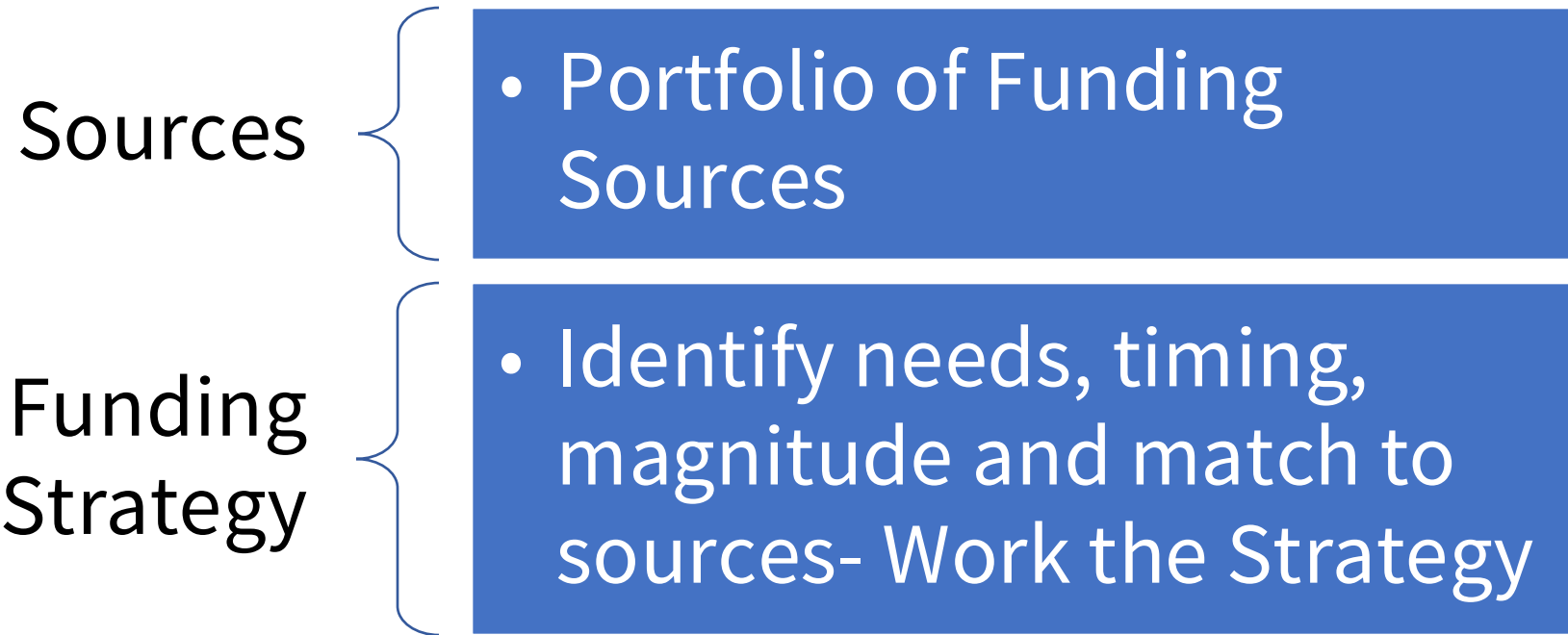
- AI Says:

Organizational capacity is an entity's ability to utilize its talent, technology, and financial resources to achieve goals, deliver on its mission, and adapt to change.

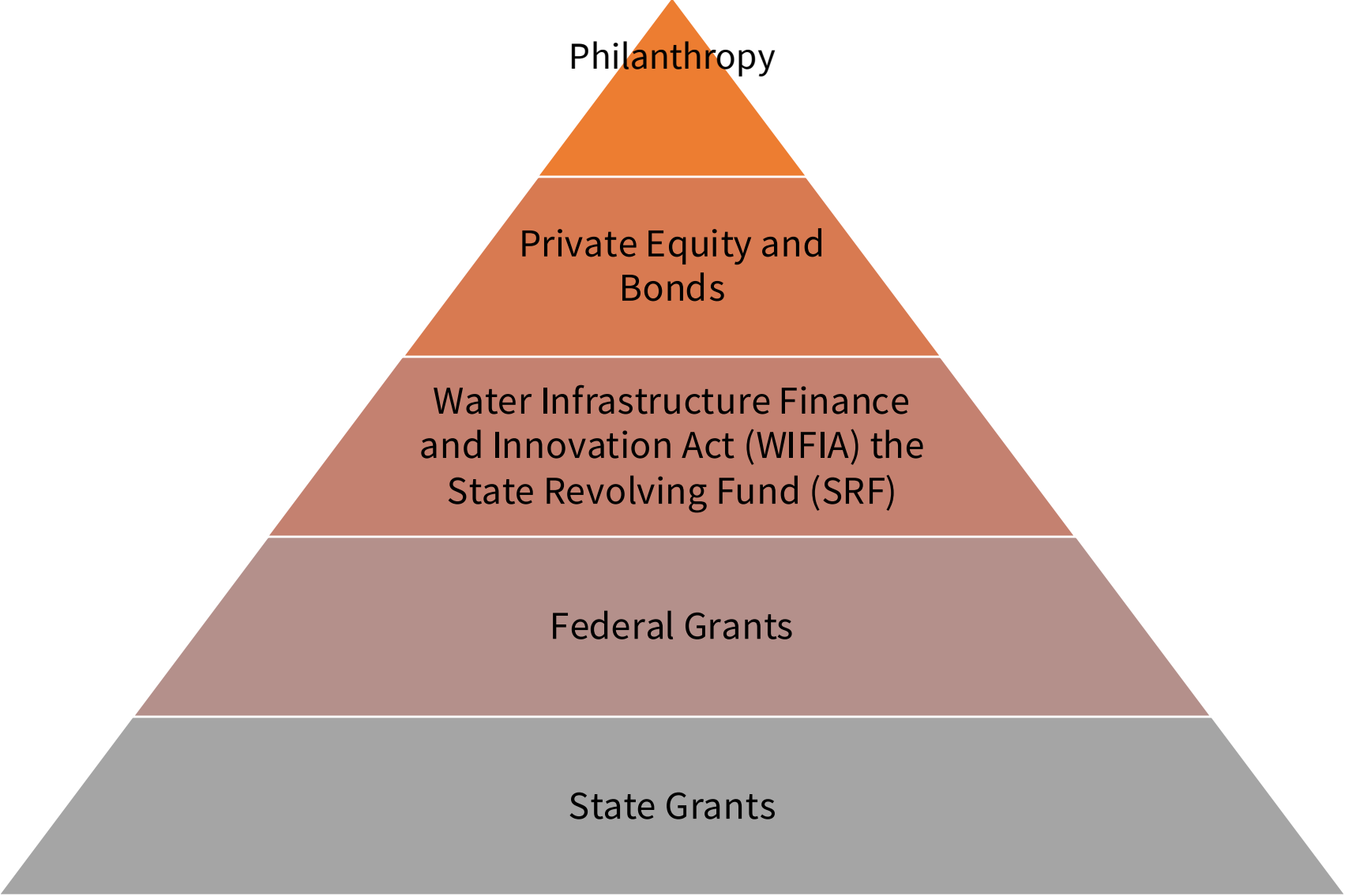
# Organizational Capacity Needs

<p>Watershed-wide decision-making body that includes representation from Cities, Counties, Tribes, Utilities, NGOs (and resource managers)</p>		<p>Focused on Russian River Watershed Resilience across water resource sectors</p>	
<p>What else?</p>	<p>Acts as Watershed Resilience Fund: Can receive funds from multiple sources and can redistribute them to qualified entities of various types</p>		<p>Technical and political capacity to manage complex programs</p>

# Keys to Successful Funding Approach



# A Portfolio of Funding will likely be needed.



# Funding Opportunity Leader Board



# Overview of Prop 4 Funding - CA

91011. (a)(8)(A-B)- Not less than \$25 Million for Tribal water infrastructure projects that provide safe, clean and reliable drinking water to tribal communities.

91012.(a) Of the \$387 million set aside for groundwater projects, \$25 million shall be for the projects that provide direct benefits to Tribal communities

Chapter 6:

93010. (a) : \$870 Million to Wildlife Conservation Board to protect and enhance fish and wildlife resources

Requires that 40% of bond benefits disadvantaged or low-income communities



Figure 1

## Key Goals of Proposition 4 Bond Funds

(In Millions)

Category	Key Goals	Amount
<b>Drought, Flood, and Water Supply</b>	Increase the amount and quality of water available for people to use and reduce the risk of flooding.	\$3,800
<b>Forest Health and Wildfire Prevention</b>	Improve the health of forests and protect communities from wildfires.	1,500
<b>Sea-Level Rise and Coastal Areas</b>	Reduce the risks from sea-level rise, restore coastal areas, and protect fish.	1,200
<b>Land Conservation and Habitat Restoration</b>	Protect and restore natural areas.	1,200
<b>Energy Infrastructure</b>	Support the state's shift to more renewable sources of energy, such as offshore wind.	850
<b>Parks</b>	Expand, renovate, and repair local and state parks.	700
<b>Extreme Heat</b>	Reduce the effects of extreme heat on communities.	450
<b>Farms and Agriculture</b>	Help farms respond to the effects of climate change and become more sustainable.	300
<b>Total</b>		<b>\$10,000</b>



# Immediate Prop 4. Tribal Opportunity

## Tribal Nature-Based Solutions Climate Bond 2026 Solicitation

Grantor: [CA Natural Resources Agency](#)

Portal ID: 158985

Status: Active

Opportunity Type: Grant

📅 Last Updated: February 11, 2026, 10:41 am | [View change notes](#)

**CATEGORIES:**

[DISADVANTAGED COMMUNITIES](#), [EMPLOYMENT, LABOR & TRAINING](#), [ENVIRONMENT & WATER](#), [PARKS & RECREATION](#)



## [Tribal Nature-Based Solutions Climate Bond 2026 Solicitation - California Grants Portal](#)

### Purpose:

This funding will continue to support the return of ancestral lands to California Native American tribes, planning and implementation of habitat restoration projects, protecting the California coast and oceans, advancing wildfire resiliency and cultural fire, and many other multi-benefit nature-based solutions projects across California.

### Description:

Please refer to the [TNBS Climate Bond Final 2026 Guidelines](#) for detailed information.

### IMPORTANT DATES

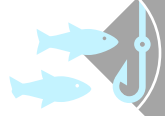
<u>Application deadline</u> <b>4/15/26 17:00</b>	<u>Expected award announcement</u> <b>November 23, 2026</b>	<u>Period of performance</u> <b>Variable</b>
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### FUNDING DETAILS

<u>Total estimated available funding</u> <b>\$9,200,000</b>	<u>Expected number of awards</u> <b>Dependent</b>	<u>Estimated amount per award</u> <b>Dependent</b>
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# Alternative Repayment Sources to Consider



Recreational Licensing Fees



Permit Fees



Membership Dues



Carbon/Nutrient Credit Sales



Watershed Improvement District Tax Authority



# Next Steps for the Network





**Questions?**  
**Hay algunas preguntas?**



# Plan Overview

Laura Harnish, Jacobs

# Plan Outline

- Letter from the Network
- Executive Summary
- 1. Watershed Resilience Program and Pilot Overview
- 2. Russian River Watershed Characteristics
- 3. Building Resilience with a Watershed Network
- 4. Climate Change in the Watershed (Historical and Future)
- 5. Water Sector Vulnerabilities and Risks
- 6. Community and Equity
- 7. Adaptation Strategies to Increase Resilience
- 8. Implementation Strategies
- 9. Recommendations

Chapter	Content
1. Watershed Resilience Program and Pilot	<ul style="list-style-type: none"> <li>Brief history of program, <b>process, goals, and desired outcomes.</b></li> </ul>
2. Russian River Watershed Characteristics	<ul style="list-style-type: none"> <li>Study area</li> <li><b>History of Tribal presence, land development, communities and land use</b></li> <li>Summary of <b>water resource sectors</b></li> </ul>
3. Building Resilience with a Watershed Network	<ul style="list-style-type: none"> <li>Purpose and activities of the <b>Watershed Network.</b></li> </ul>
4. Climate Change in the Watershed	<p><b>Climate story in the watershed</b>  Historical events, future projections, and major findings. Key messages with graphics to support (e.g. watershed is warming at rates faster than any time in last hundred years, future droughts may be longer and more severe).</p>
5. Water Resource Vulnerabilities	<p><b>Vulnerability assessment</b> approach.  <b>Key findings</b> related to each of the water resource sectors and each of the Russian River regions. Figure shows significant vulnerabilities in each region. conceptual graphic, followed by detailed descriptions and table of highest vulnerabilities</p>

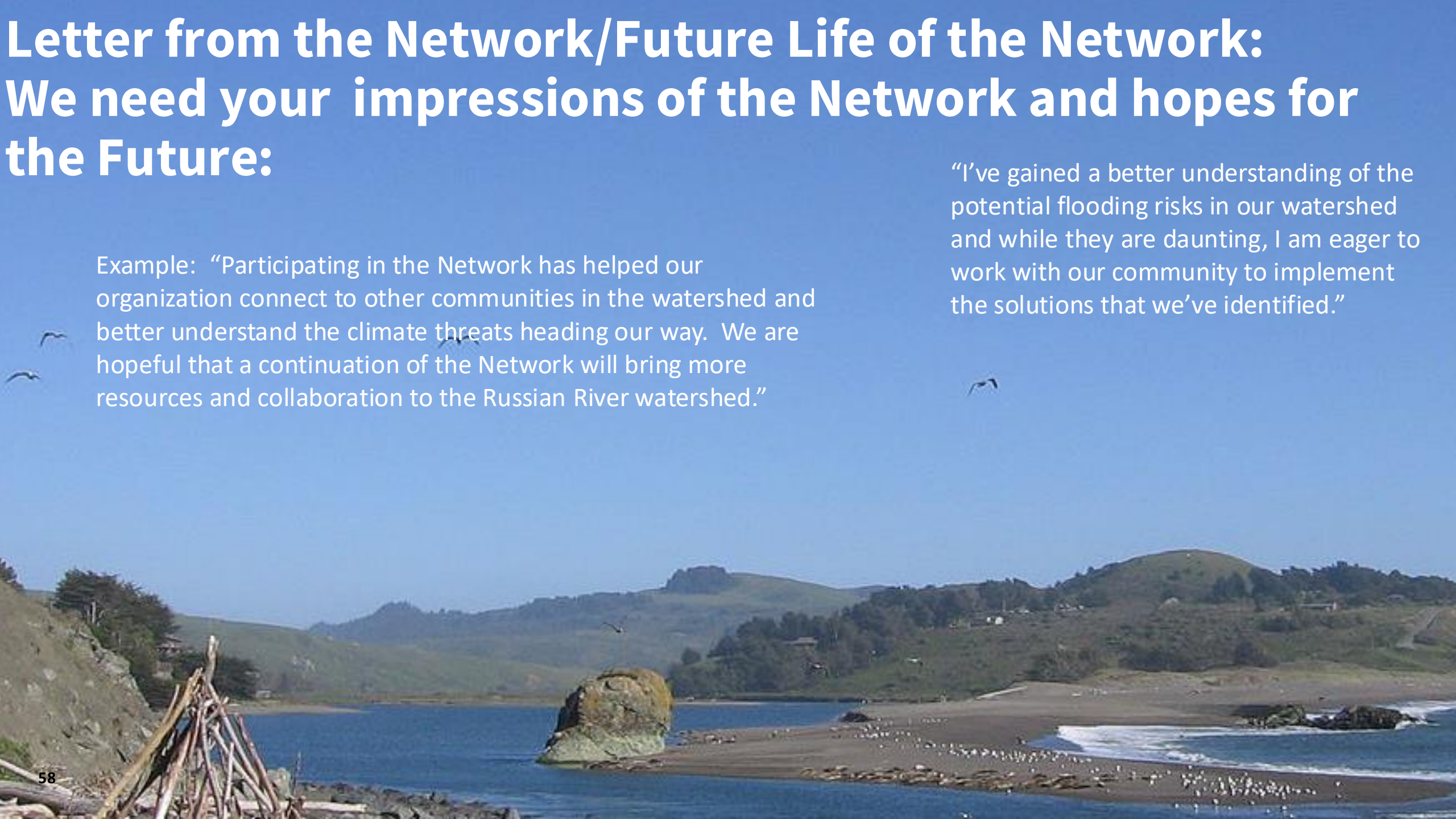
Chapter	Content
<p><b>6. Community and Equity</b></p>	<ul style="list-style-type: none"> <li>• <b>Approach to Equity,</b></li> <li>• <b>Social vulnerability mapping</b> of watershed,</li> <li>• Key Findings for four hazards that equity was considered (<b>extreme heat, flooding, water supply and wildfire</b>).</li> <li>• Maps and pie charts to <b>show areas of higher level vulnerability, impacted populations.</b></li> </ul>
<p><b>7. Adaptation Strategies to Increase Resilience</b></p>	<ul style="list-style-type: none"> <li>• <b>Adaptation strategies considered,</b></li> <li>• <b>Evaluation approach, and results.</b></li> <li>• Discussion of the most promising strategies and they reduce vulnerabilities.</li> </ul>
<p><b>8. Pathways toward Implementation</b></p>	<p>How we move from <b>ideas to implementation.</b></p> <ul style="list-style-type: none"> <li>• Organizational capacity</li> <li>• Funding strategies</li> <li>• Partnerships</li> <li>• Public engagement</li> <li>• Additional study and tools</li> </ul>

Chapter	Content
<b>9. Recommendations</b>	<ul style="list-style-type: none"> <li>• Detailed Recommendations to move from pilot to resilience action,</li> <li>• <b>Future of local resilience program,</b></li> <li>• <b>Funding pathways including Bridge funding</b></li> <li>• Performance tracking</li> </ul>
<b>10. References</b>	
<b>Appendix A. Watershed Network Participants and Charter</b> <b>Appendix B. Climate and Hydrology</b> <b>Appendix C. Vulnerability Assessment</b> <b>Appendix D. Adaptation Strategies and Evaluation</b> <b>Appendix E. Watershed Water Budget</b>	Detailed Analysis for each of these studies.

# Letter from the Network/Future Life of the Network: We need your impressions of the Network and hopes for the Future:

Example: “Participating in the Network has helped our organization connect to other communities in the watershed and better understand the climate threats heading our way. We are hopeful that a continuation of the Network will bring more resources and collaboration to the Russian River watershed.”

“I’ve gained a better understanding of the potential flooding risks in our watershed and while they are daunting, I am eager to work with our community to implement the solutions that we’ve identified.”






**What's Next?**  
**Armin Munevar**

# Watershed Network Meetings and Topics

Meeting	WRP Stage	Goals	Preparatory Work/Meeting Material
<b>#1 FEB 2025</b>	<b>1. Setting the Stage</b>	Introduce plan; review goals and vision; review/confirm watershed boundary; initiate goals and vision	Project fact sheet GIS mapping of boundary Draft Vision
<b>#2 MAY 6 2025</b>	<b>2. Explore Hazards 3. Assess Vulnerabilities and Risks</b>	Review hazards; identify and describe historical events and impacts; describe future hazards; gap analysis Framing of vulnerability and risk assessment	Historical hazard summary Projections of change Gap analysis Draft vulnerability metrics
<b>#3 SEPT 16 2025</b>	<b>3. Assess Vulnerabilities and risks</b>	Review of vulnerability and risk assessment Integrate Network Members observations of vulnerabilities across water resource sectors	Draft vulnerability and risks assessment results
<b>#4 DEC 10 2025</b>	<b>3. Assess Vulnerabilities and risks 4. Develop Adaptation strategies</b>	Review refined vulnerability assessment Identify adaptation strategies for consideration	Vulnerability and risk assessment results Initial framing and identification of adaptation strategies
<b>#5 FEB 24 2026</b>	<b>4. Adaptation Strategies</b>	Review evaluation of adaptation strategies	Draft adaptation strategy list and evaluation
<b>#6 MARCH 2026</b>	<b>5. Implement &amp; Monitor</b>	Identify possible implementation paths; recommendations for plan	Draft implementation paths for strategies Draft recommendations for plan

# Next Steps and Opportunities for Input on Plan

- March 20: Next Watershed Network Meeting
- March 20–April 7: Draft Report Available for Review
- April 21: Comments Addressed and Plan Finalized
- April 30: DWR Grant Closeout



**Questions?**  
**Hay algunas preguntas?**



# Closing - Thank You

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