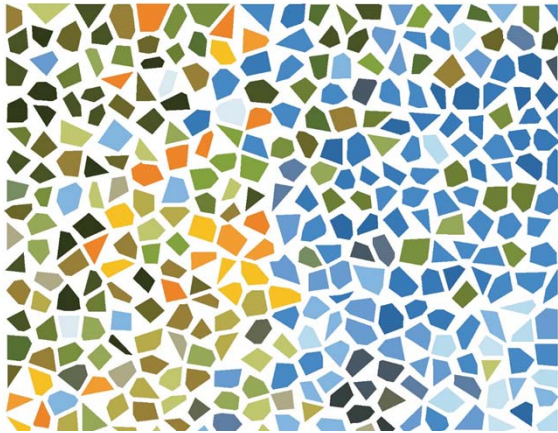




The Community and Watershed Resilience Program

Project Kick-Off Meeting

Tuolumne County Board of Supervisors Meeting

Sonora, California

May 2, 2017



Presentation Outline

- Program Overview (Louise Bedsworth)
- Community Resilience Center Overview (Maureen Frank, Tuolumne County)
- Forest and Watershed Health Program and Biomass Utilization Facility Overview (Angela Avery and Elliott Vander Kolk, SNC)
- Program Replicability (Ashley Conrad-Saydah, CalEPA)
- Questions and Discussion (All)



Program Overview

Louise Bedsworth, OPR



National Disaster Resilience Completion (NDRC) Overview

- Competitive Application Process
- State of California was an eligible applicant (one of 67)
- Rim Fire was one of California's three "qualifying disasters"
- California approached this as an opportunity to address:
 - Rural resilience & economic development
 - Wildfire and drought resilience, and
 - To create a replicable model





13 Jurisdictions Won NDRC Grants



Winner	Qualifying Disaster	Approximate Award Amount
New York City	Hurricane Sandy	\$176 million
City of New Orleans	Hurricane Isaac	\$141 million
State of Virginia	Hurricane Irene	\$120 million
State of Iowa	Flooding	\$97 million
State of Louisiana	Hurricane Isaac	\$93 million
Minot, North Dakota	Flooding	\$74 million
State of California	Wildfire	\$70 million
Shelby County, Tennessee	Flooding	\$60 million
State of Connecticut	Hurricane Sandy	\$54 million
State of Tennessee	Flooding	\$44 million
State of New York	Hurricane Sandy	\$35 million
Springfield, Massachusetts	Flooding	\$17 million
State of New Jersey	Hurricane Sandy	\$15 million



Community & Watershed Resilience Program

Community and Watershed Resilience Program

Forest and Watershed Health

Biomass removal and thinning, restoration and reforestation in burn area, strategic fuel breaks, and rangeland restoration

Requested: \$40 million
Awarded: \$28 million

Biomass and Wood Products

Phased development of a bioenergy and wood product campus to provide marketable use for biomass removed, economic development, and local energy

Requested: \$22 million
Awarded: \$22 million

Community Resilience Centers

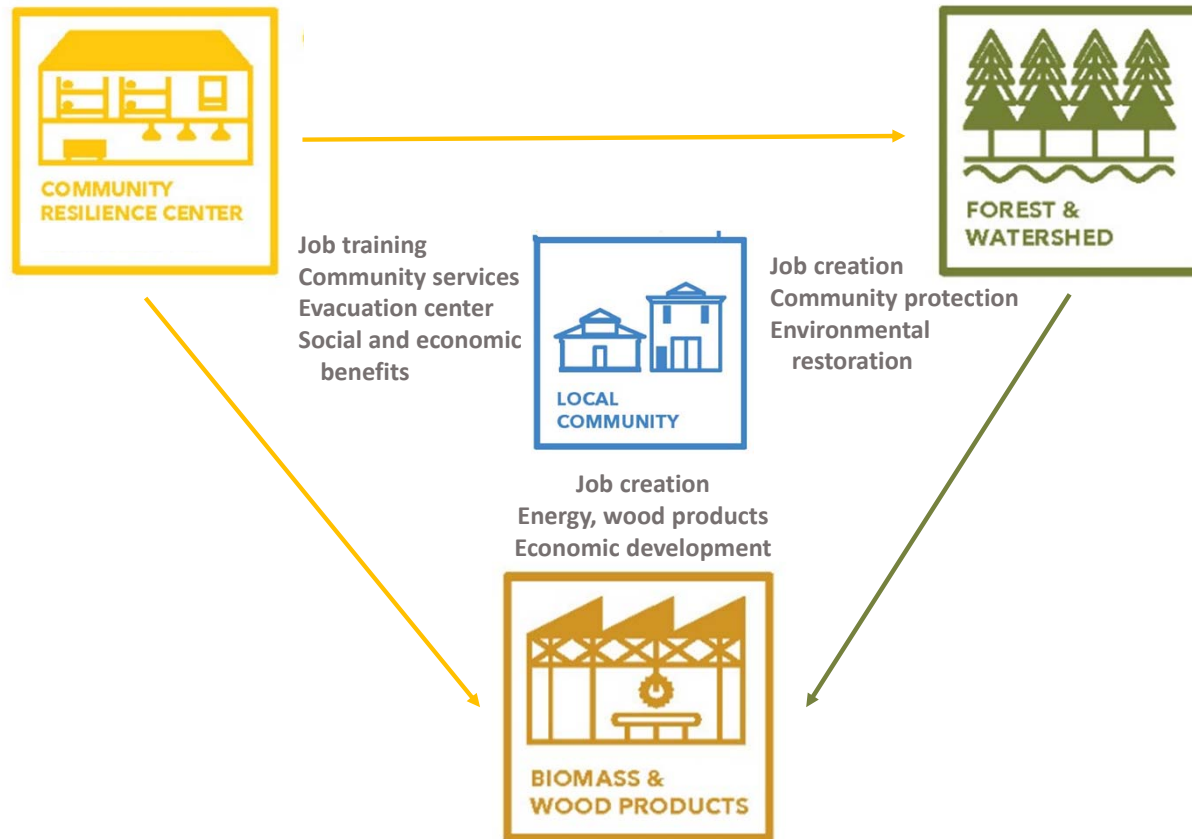
Multipurpose community resilience centers that provide services during an emergency, but also serve the community year round

Requested: \$55 million
Awarded: \$20 million



Community & Watershed Resilience Program

Local Benefits





Community & Watershed Resilience Program

Statewide benefits



- Watershed restoration (green infrastructure)
- Economic development
- Model for replicability





Approximate Project Locations



Biomass removal, Restoration and Reforestation, Noxious Weed Treatment, Rangeland Improvements, Critical Fuel Breaks

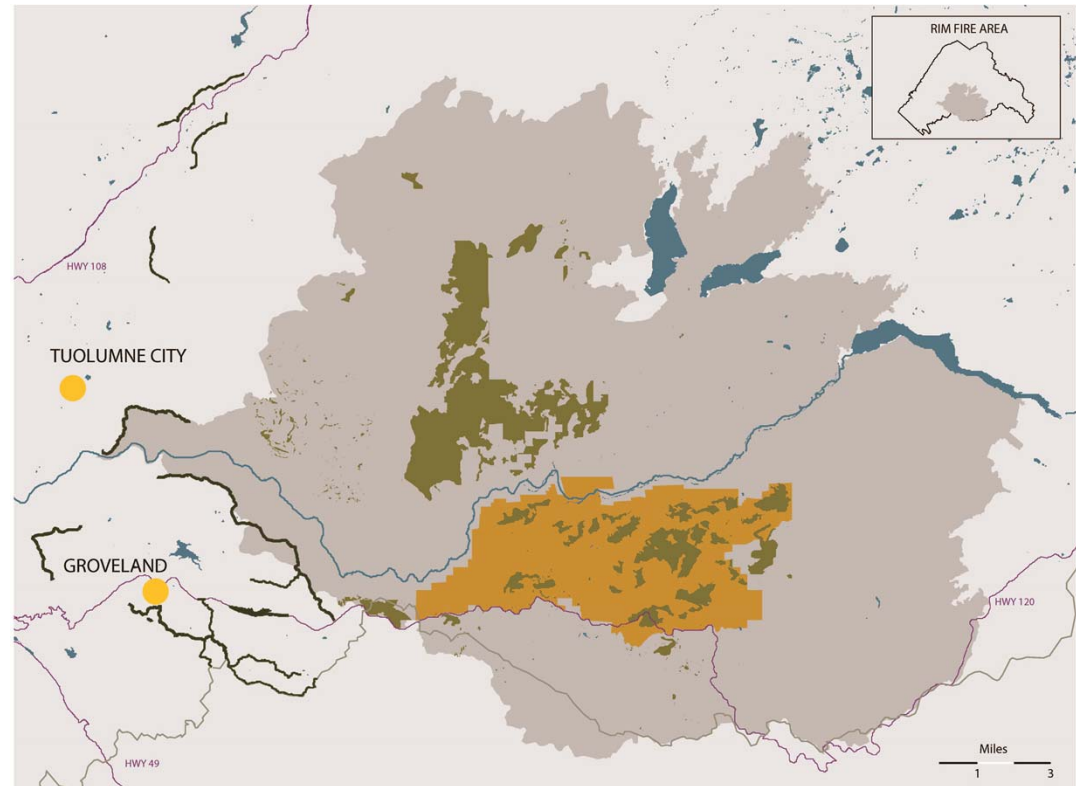
-  **TARGET REFORESTATION AREAS**
-  **FUEL BREAKS**



Wood Products; Biomass Co-gen Facility (Heat, Power and Cooling Facility)

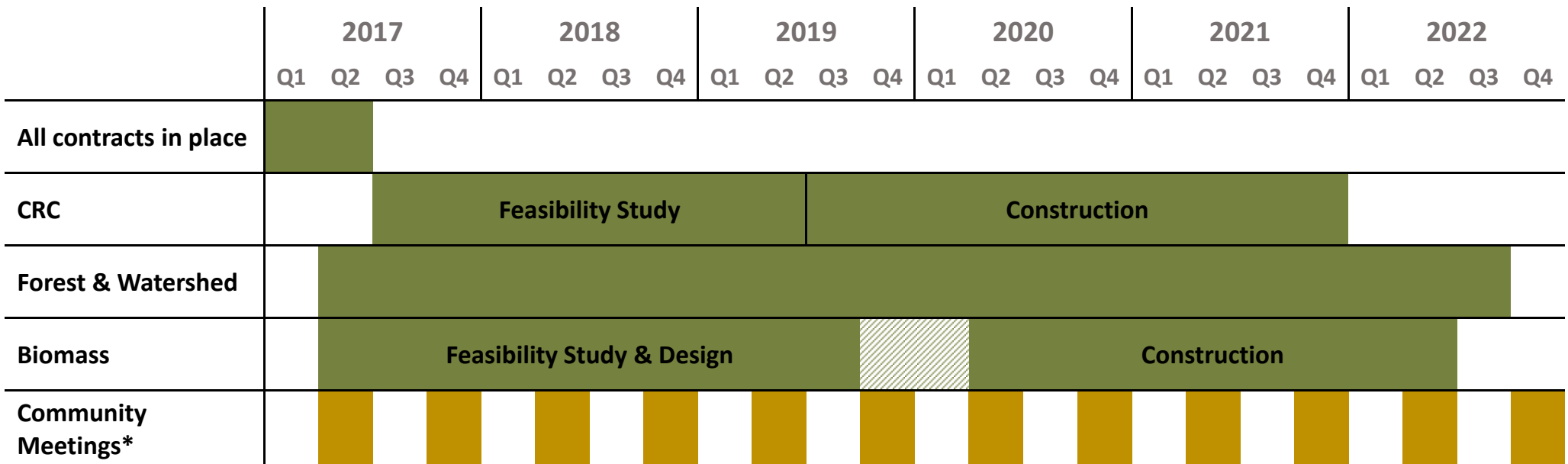
-  **TARGET BIOMASS REMOVAL AREAS**

-  **RIM FIRE AREA**
-  **COUNTY LIMIT**
-  **LAKES AND MAJOR RIVERS**
-  **HIGHWAYS**





Overall Project Timeline



**These are community meetings to provide an update on the overall project progress. Individual pillars will hold meetings focused on specific activities. Timing on these varies by pillar and phase of the project.*



Community Resilience Center

Maureen Frank



Community Resilience Center

County's Role as Project Manager

- Coordination of all activities related to the CRC
- Be the single point of contact for this project
- Work with the Community on Services/Programs provided at the CRC



Community Resilience Center

Program Goals

- To design and construct at least one CRC that provides year around services, programs and host events at the center.
- To construct a facility that utilizes Green Building “best practices”.
- To work with various Agencies/Departments to develop services and programs that would be provided at the CRC.



Community Resilience Center

Project Logistics

Planning Phase (May 2017 – June 2019)

- Community Input
- Program Document Development
- Site Search
- Environmental Property Review
- Secure Stakeholder Operational Commitments



Community Resilience Center

Construction Phase (July 2019 – September 2022)

- Complete Schematic Design Work
- Complete Full Project Design and Specifications
- Go out to Bid
- Construct the CRC
- Operate the CRC

Estimated Construction Budget: \$16 million



Community Resilience Center

Next Steps...

Phase I

- Sign NDRC Agreement with State- Spring 2017
- RFP for NDRC Consulting Services- Summer 2017
- Community Engagement/ Development of Program Document- Summer/Winter 2018
- Development of Property Search Criteria and Site Selection- Spring/Summer 2018
- Environmental Property Review- Fall 2018/ Spring 2019



Forest and Watershed Health



Biomass Utilization Facility

Angela Avery and Elliott Vander Kolk



Forest and Watershed Health & Biomass Utilization Facility

- Background on Sierra Nevada Conservancy (SNC)
- SNC Role as Project Manager
- Program Goals



Forest and Watershed Health & Biomass Utilization Facility Budget

Forest and Watershed Health Program	Initial Budget	Awarded Budget (~28.5% Reduction)
Restoration and Reforestation	\$12,825,000	\$9,171,286
Biomass removal and thinning	\$16,150,000	\$11,549,027
Fuel Breaks	\$4,940,000	\$3,532,643
Rangeland Improvements	\$1,805,000	\$1,290,774
Noxious Weeds Treatments	\$2,280,000	\$1,630,451
Total:	\$38,000,000	\$27,174,180
Biomass Utilization Facility	Initial Budget	Awarded Budget
Biomass Utilization Facility (Phase 1 and 2)	\$22,000,000	\$22,000,000



Forest and Watershed Health Program: Biomass Removal

- Estimated Budget: \$11.5 million
- Target: 4,600 acres
- Description: Remove biomass to reduce fuel loading and prepare for reforestation
- Timeline: Begin 2018



Forest and Watershed Health Program: Reforestation

- Estimated Budget: \$9.1 million
- Target: 3,500-4,500 acres
- Description: Prepare areas for reforestation, replant, and remove competing vegetation
- Timeline: Begin Summer 2017 for planting in 2018



Forest and Watershed Health Program: Fuel Breaks

- Estimated Budget: \$3.5 million
- Target: 1,940 acres
- Description: Widen, connect, and construct strategic fuel breaks for community protection
- Timeline: Begin environmental review in 2018, begin work in 2019



Forest and Watershed Health Program: Rangeland Infrastructure

- Estimated Budget: \$1.2 million
- Target: 20 miles of fencing, 11 structures (e.g., troughs)
- Description: Replace infrastructure destroyed in Rim Fire to improve livestock management
- Timeline: Phase 1: 2018, Phase 2: 2020



Forest and Watershed Health Program: Noxious Weed Treatments

- Estimated Budget: \$1.6 million
- Target: 3,500 acres
- Description: Minimize spread of invasive species and facilitate reforestation and deer habitat enhancement activities
- Timeline: Begin 2018, repeat treatments through 2021



Biomass Utilization Facility

- Budget: \$22 million
- Goal: Create a campus that utilizes woody biomass from forest restoration activities and complements existing infrastructure
- Phase 1: Feedstock and feasibility analysis, initial design, and siting
- Phase 2: Build and start operations by 2022



Program Replicability

Ashley Conrad-Saydah