

Science to Policy:

Documenting and Supporting
Policy Efforts and Impacts

April 12, 2018

Today's Workshop

- Introduce Research to Policy White Paper
 - Review components of the policy process
 - Provide relevant examples of ANR efforts
- Provide insight into policy efforts and Project Board

Science to Policy Working Group

- Clare Gupta, Kit Alviz, Rob Bennaton, Mary Blackburn, Mary Bianchi, Luke Macaulay, Max Moritz, Lorrene Ritchie, and Katherine Webb-Martinez
- Reviewers: Dave Campbell, Jim Downer, Sabrina Drill, Darren Haver, David Lewis, Fe Moncloa, Doug Parker, and Yana Valachovic

Science to Policy Working Group

Intended outcomes:

- A greater number of ANR academics who are recognized and receive credit for policy-relevant research
- Increased dissemination of policy outcomes and impacts that demonstrate ANR's value to the state and nation.

Science to Policy White Paper

Provide clear and actionable guidelines for documenting and supporting policy efforts through the academic performance review process

- Support specialists and advisors to articulate the policy components of their work
- Guide reviewers to evaluate and appropriately assign credit to policy-relevant work
- Provide ANR leadership easily identifiable instances of impactful policy work

Science to Policy White Paper

Components of the White Paper

- Defining our Policy Work
 - Examples of the ANR-Policy Interface
 - Informing policy versus Lobbying
- Roadmap for Recognizing and Valuing Policy Effort
 - Position Description Review
 - Preparing a Program Review Dossier
- Supporting Appendices

Documenting and Supporting Policy Efforts and Impacts

The goal of this white paper is to provide clear and actionable guidelines for documenting and supporting policy efforts in UCANR through the academic performance review process. After providing an overview of the array of policy-relevant activities that ANR academics are encouraged to engage in, examples of performance review documentation are illustrated. It is hoped that this paper will support and incentivize specialists and advisors to consistently and intentionally articulate the policy components of their work, guide reviewers to evaluate and appropriately assign credit to policy-relevant work, and provide ANR leadership and communications experts easily identifiable instances of impactful policy work for dissemination to both internal and external audiences and stakeholders.

Enhancing use of the academic performance review process in UCANR

Project Board Examples

Select ONE example from your work that you feel is part of a policy process and circle the best description.

- Create public awareness
- Provide information to decision-makers
- Help craft legislative language
- Negotiate alternatives
- Create goals and identify means to achieve those
- Assist with resource allocation
- Navigate regulatory environment
- Conduct an impact assessment/process evaluation
- Develop recommendations for revision to policy

- Other, please describe: _____

- **What were the outcomes or impacts?**

Describing the Policy Process and Public Value of Your Work

Dave Campbell

Specialist in Cooperative Extension; Associate Dean, College of
Agricultural and Environmental Sciences



Beware Half-Truths

"There are no whole truths; all truths are half-truths. It is trying to treat them as whole truths that plays the devil".

Alfred North Whitehead



Extension's half-truth

Our public value is based on offering data and solutions that are objective.

- Scientific
- research-based
- evidenced-based

A fuller truth

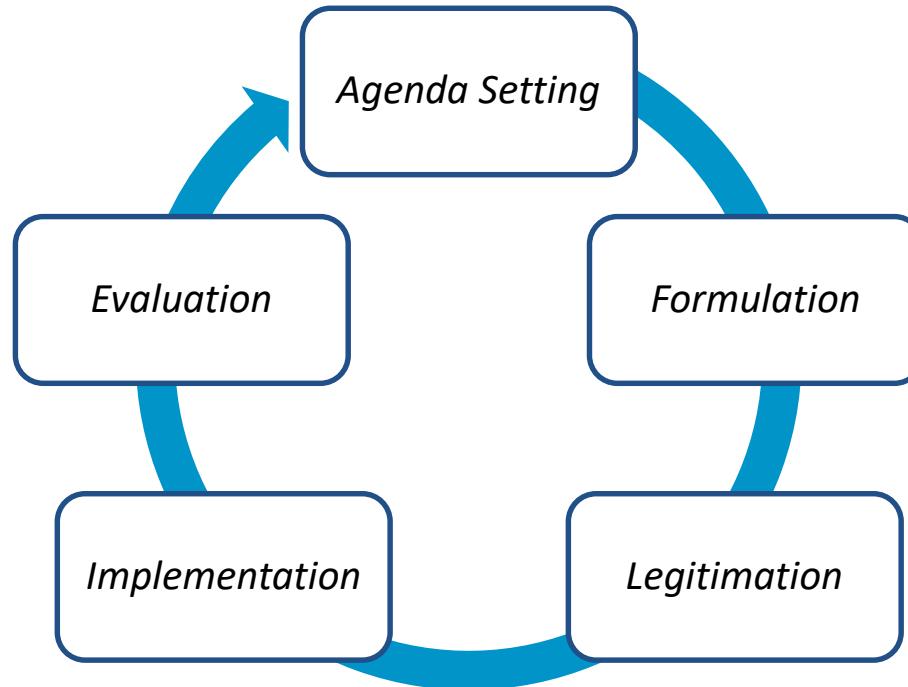
It is the weaving together of Extension's role in providing trustworthy technical knowledge with its capacity to influence policy dialog, debate, and practice across multiple settings and over the long term which creates our public value.



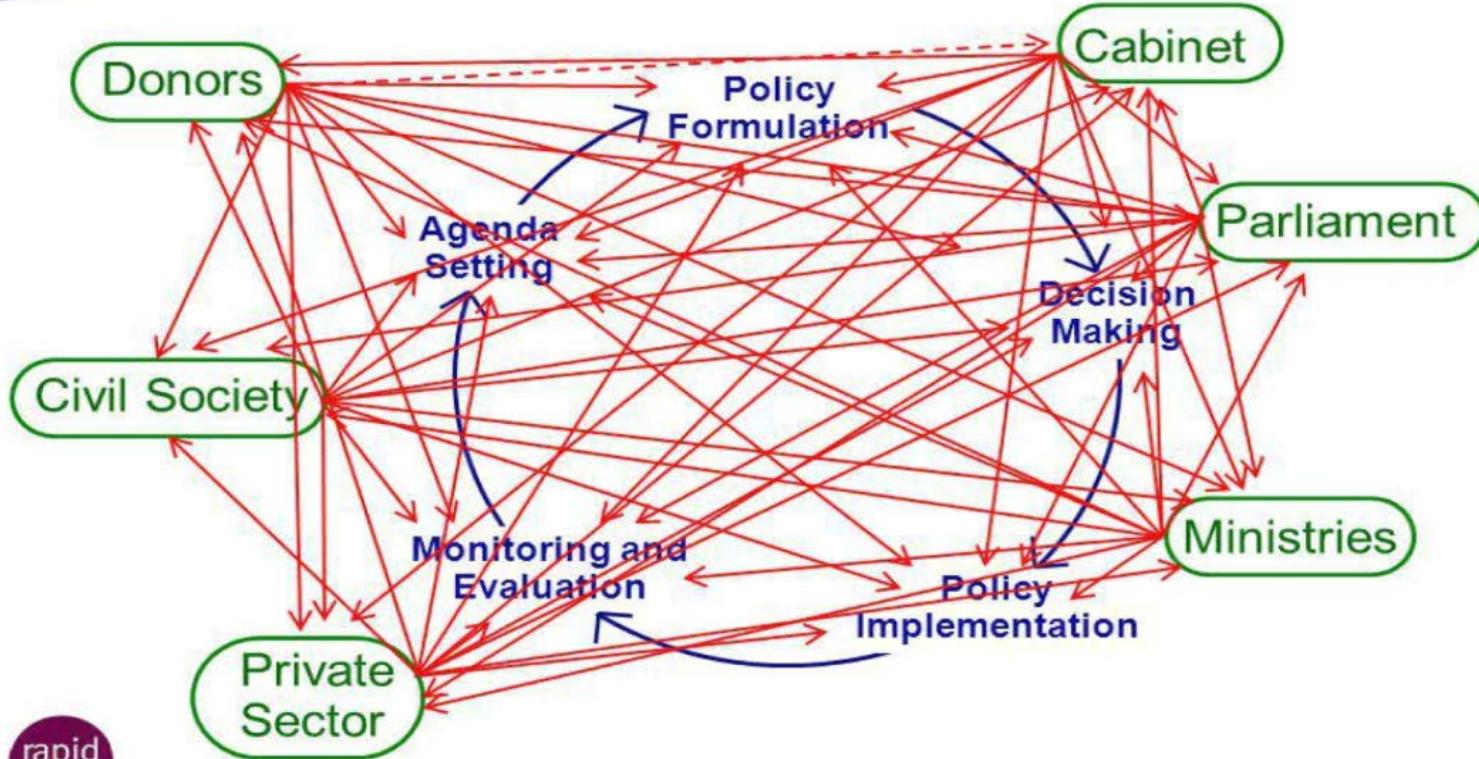
Context

- Evaluation of policy impacts of ANR competitive grants program (reviewed 52 projects, completed 11 case studies of successful policy impact)
- Creation of research-to-policy program team
- Work on the white paper

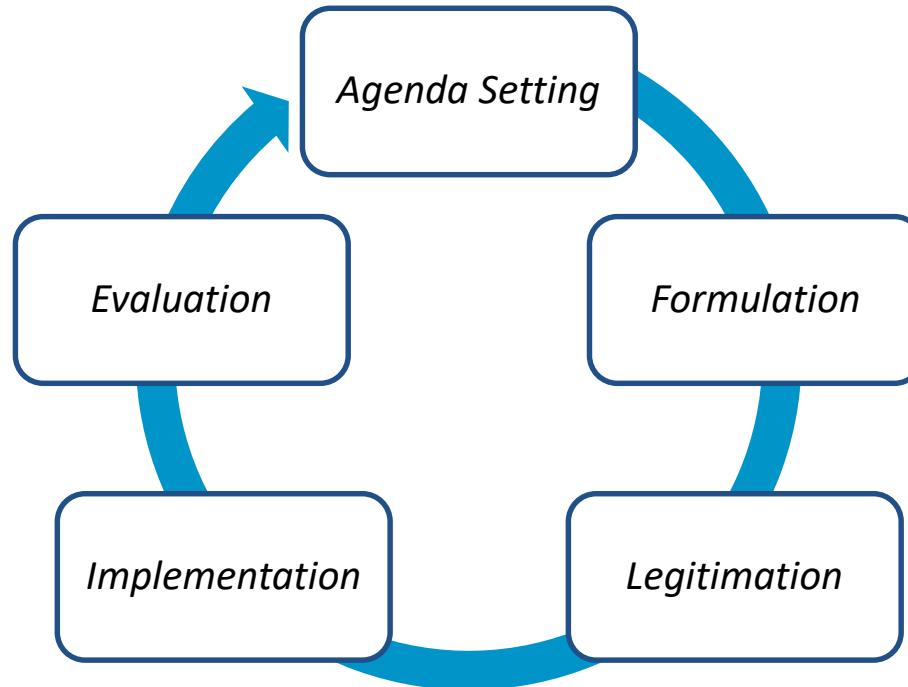
Policy process framework



Policy Processes



Policy process framework



Policy Process Stage	Types of Activities
<i>Agenda Setting</i>	Create public awareness Mobilize support/build coalitions Provide information to decision-makers
<i>Formulation</i>	Craft legislative language Develop proposed orders, rules, laws, etc. Negotiate alternatives
<i>Legitimation</i>	Formal decision-making by proper authorities Create goals and identify means to achieve those
<i>Implementation</i>	Resource allocation Policy actions/activities Navigating regulatory environment
<i>Evaluation</i>	Impact Assessment/process evaluation Recommendations for revision to policy



Community Development Activity	Examples of Extension Activities	Potential outcomes/impacts
Community Building	Facilitating groups Network development Issue awareness	Consensus developed Leaders identified
Information brokering	Synthesize data Disseminate info	Deliberation informed Issues addressed holistically
Community-based research	Fill data gaps Locally relevant data	Asset-based solutions found Research skills learned
Entrepreneurial skills	Inventive program created Timely pilot projects	New business opportunity Meet community needs Flexible implementation

Approaches to blending Technical *and* Relational Work

Community-gov't partnership building: convene or facilitate policy dialog, while also supplying technical data

Approaches to blending Technical *and* Relational Work

Stakeholder-oriented experimental research

Researchers partner with community entity to conduct proof of concept study to inform policy development or implementation.

Approaches to blending Technical *and* Relational Work

Community Empowerment Approach

Researcher partners with a community organization to provide data that the group can then use to engage with decision-makers.

Takeaways

1. A broad range of research and extension activity, including both technical and relational work, can be considered policy relevant. This reality should inform how we talk about our public value and how we reward our academics.

Takeaway

2. Policy impact and public value are seldom a matter of short-term engagement; we need boots on the ground, embedded in networks, around over the long haul.



Implications for M&P

- Can use 5 policy process stages to help create tables documenting activity and outcomes
- Narratives can frame approaches to policy work, noting long-term trajectories
- Need for culture change: crediting technical and relational work; short and long-term.

Example from Nutrition

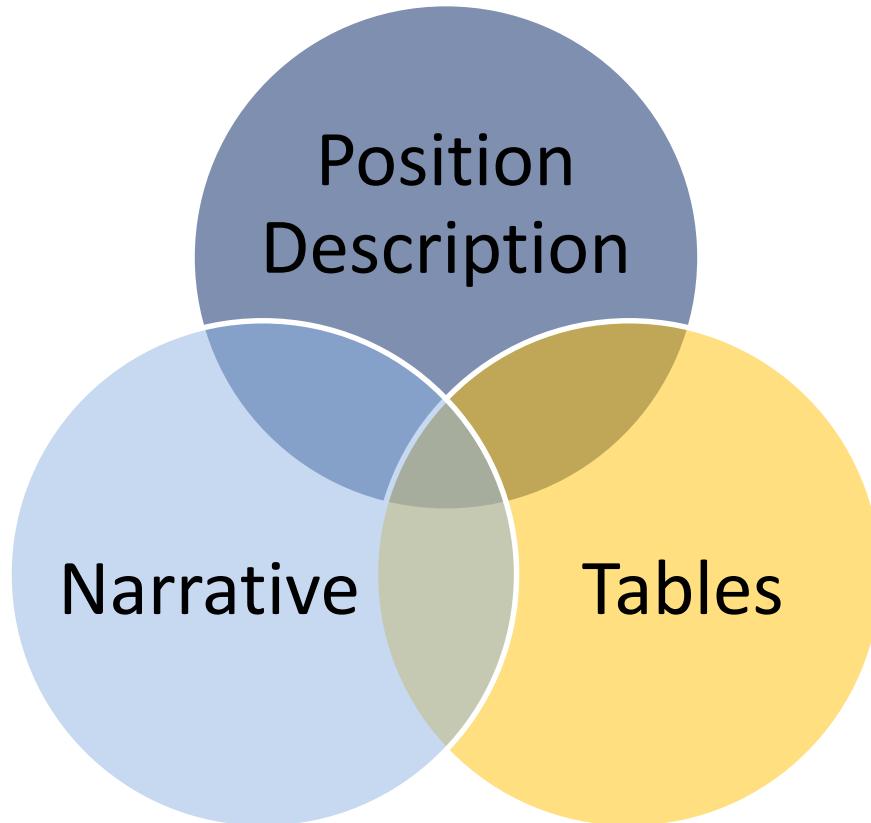
Lorreene Ritchie, PhD, RD
Director and CE Specialist

Research for healthy food, people and places



University of California
Agriculture and Natural Resources

Nutrition Policy Institute



Position Description

The Director/CE Specialist is responsible for developing an active extramural research program, bringing together local, state and federal stakeholders to identify issues and funding for nutrition and health related policy research

Narrative

Improving nutrition in young children

- Pilot to test the implementation of nutrition standards in family childcare homes to inform new local or state policy
- Evaluation of online training for childcare providers to comply with the California Healthy Beverages in Childcare Law
- Statewide survey to evaluate readiness of providers to implement new federal regulations of the Child and Adult Care Food Program

Tables

EXTENSION ACTIVITIES (*Policy-relevance: Implementation)

Date	Meeting	Presentation Topic
4/20/17	Healthy Eating Research Annual Conference	Childcare Nutrition in California: How Current Practices Compare to the New CACFP Regulations*

UNIVERSITY AND PUBLIC SERVICE (*Policy-relevance: Legitimation)

Date	Activity	Level	Role
5/14-1/15	California Assembly Bill 290 Working Group*	State	Advise on curriculum content for 1 hour nutrition education

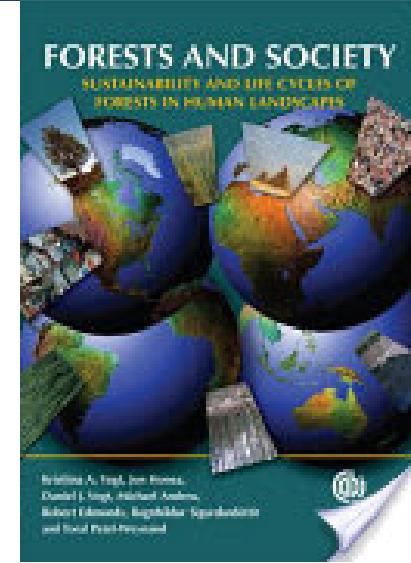
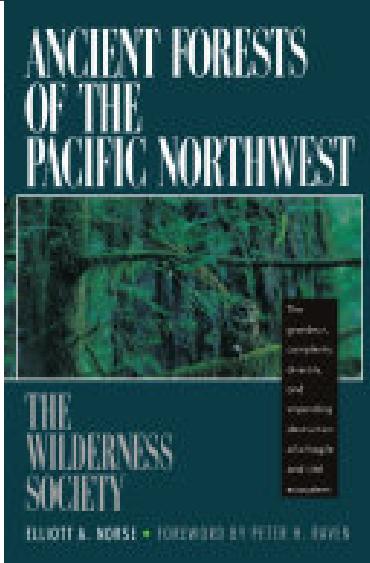
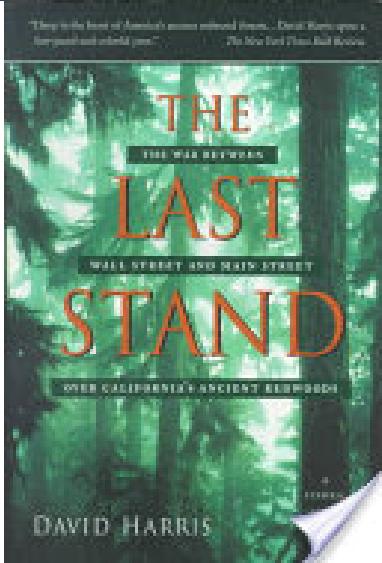
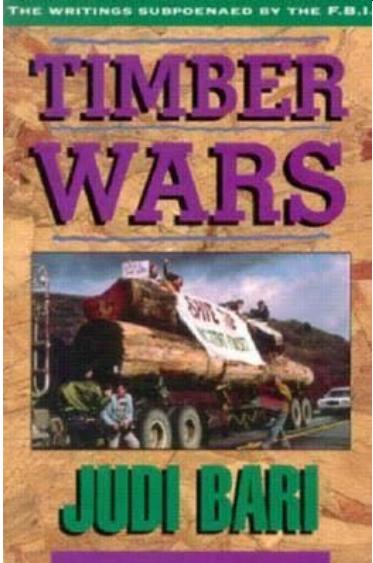
Example from Forestry

Yana Valachovic

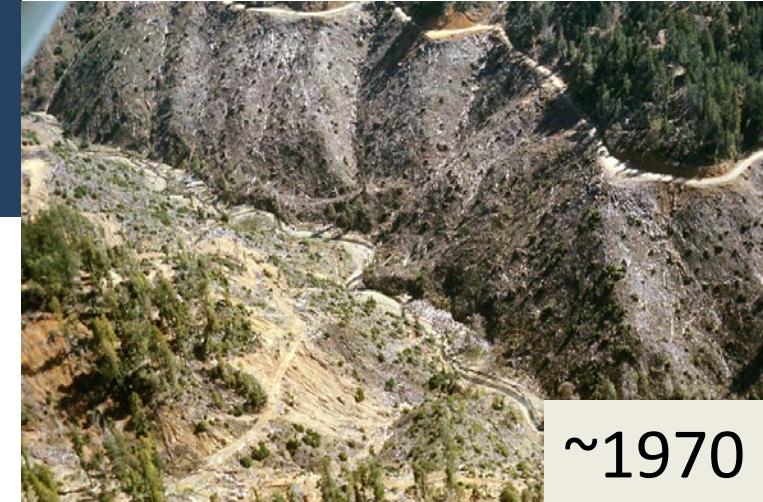
Forest Advisor and Humboldt - Del Norte County Director

Forestry is both a social science and environmental science

Yana Valachovic, Forest Advisor, Humboldt and Del Norte



Significant changes over time

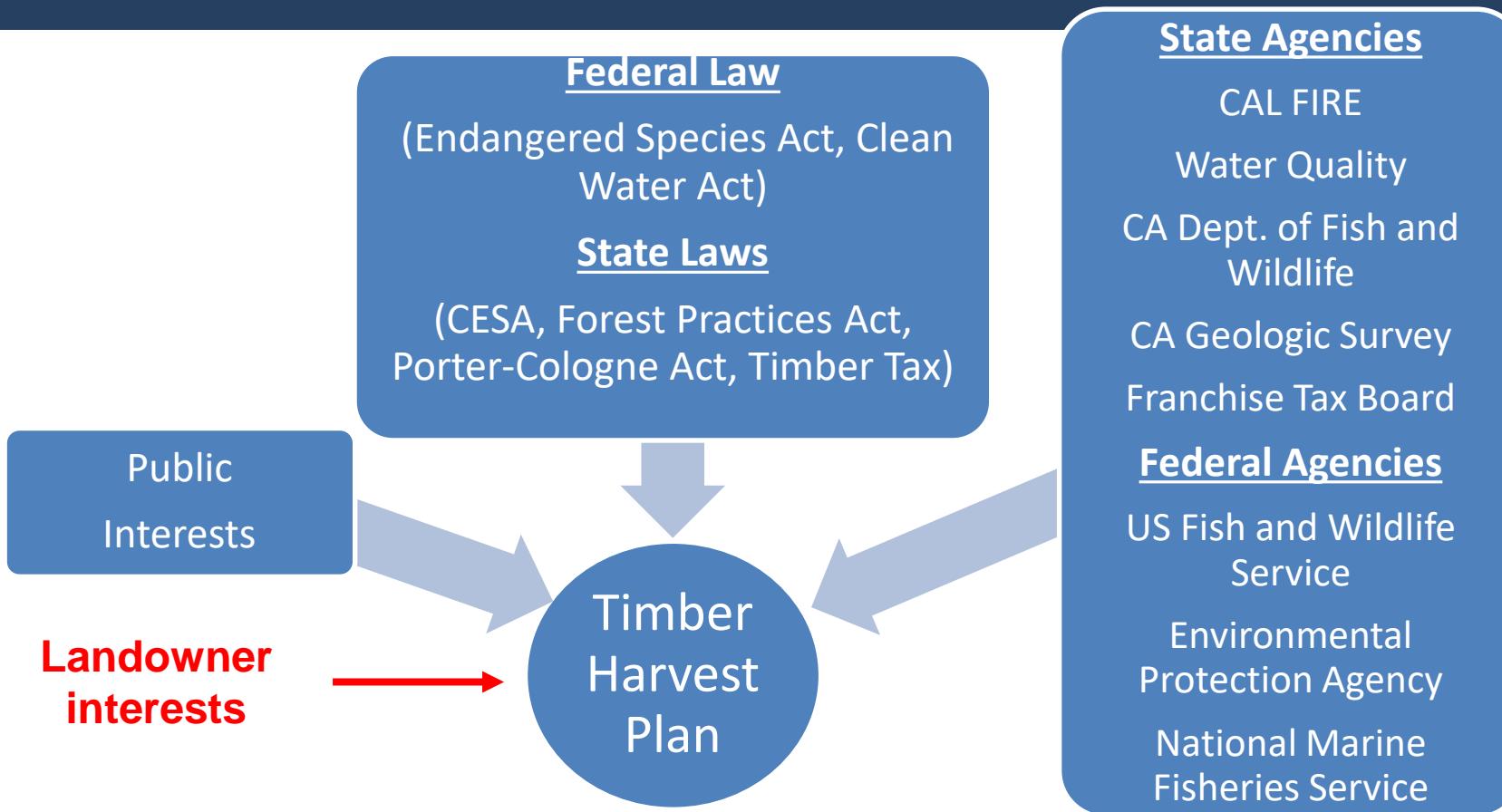


Forestry is driven by evolving policies

- 1862 US Homestead Act
- 1878 US Timber Stone Act
- 1926 & 1965 CA Ad valorem tax
- 1945 CA Forest Practices Act
- 1969 CA Porter-Cologne Act
- 1973 CA Endangered Species Act
- 1973 CA Forest Practices Act
- 1973 US Endangered Species Act
- 1976 CA Forest Taxation Reform Act



Timber harvest plan review & development



Position Description

The CE Forest Advisor is also responsible for the development and implementation of programs, which develop, analyze, gather and transfer information that allows people and groups of all economic and ethnic backgrounds to **analyze natural resource problems, evaluate methods and make decisions that will develop sustainable solutions.**

- Act as a facilitator in the public policy arena to effectively bridge divergent interests around issues that impact subjects within the UC ANR purview, including improved and sustainable forest management practices.
- Serve the California public by participating in activities of public agencies and organizations.

Forest policy activities

Technical expert for governmental groups

- County of Humboldt
- County of Del Norte
- Humboldt County Forest Review Committee
- When asked, before the CA Board of Forestry or CA Legislature

Advisory board member

- Several NGOs

Convener

- Host meetings with elected representative on topics of interest often resulting in a policy outcomes



Forest policy outcomes and impacts

Board of Forestry

- **Sudden oak death emergency** – created new permit to allow for rapid response to a disease outbreak (2012)
- **Oak woodland special prescription** – created a new permitting pathway to allow for conservation of true oaks encroached by conifers (2016)

California Legislature

- **AB 1958** – created a new permitting pathway to confirm that oak woodland management is not conversion of forests to non-timber conditions and established a new permitting pathway to allow for conservation of oaks (2016)
- **AB 1923** – Formalized that small electricity energy generation (up to 5 MW) could be sold from the combustion of forest residues (2016)
- **AB 904** - created a new permitting pathway for long-term forest management on a sustainable basis (2013)

Impact- these bills and new permits allow for long-term ecosystem management options for private landowners that strive to balance ecological and economic sustainability.

Example from Water Quality

Darren L Haver, PhD
Water Resources Advisor

*Research for protecting water quality, quantity,
and security*

Position Description

The Advisor will act as a facilitator in the **public policy arena** to effectively bridge divergent interests around water resource issues that impact subjects within the UC ANR purview. In addition, foster an increased understanding of CE's research and education programs in clientele, the public, and **policy makers**.

Narrative

Pollution Prevention and Mitigation/Watershed Protection and Management

- Research project to characterize the quantity and quality of surface runoff from urban residential land uses in order to identify mitigation strategies, including regulatory solutions.
- Collaboration with urban pest control industry, UC Riverside entomologists, and the California Department of Pesticide Regulation to evaluate effectiveness of federal and state pesticide label changes at improving quality of surface runoff.

Impacts/Outcomes

- Re-registration and label changes for pyrethroids and fipronil based on detection frequency and concentrations in surface runoff.
 - Partnership with industry, manufacturers, and regulators allows for policy changes to be more widely accepted and adopted by all.
 - Extension activities center around providing training to pesticide applicators
 - Monitoring results provide data on improvements to surface runoff water quality.
- County and city clientele across the state receive the benefit of this research, as storm water runoff permits issued to them requires the discharges to meet strict regulatory guidelines set by EPA, SWRCB, and their RWQCB.

Example from Fire Science

Max Moritz

Wildlife Specialist – Fire Ecology and Management



AP Photo/Marcio Jose Sanchez, CC BY

Refining Fire Risk Assessment & Better Land Use Policies

UC ANR Statewide Conference

Max Moritz
Wildfire Specialist
Bren School@UCSB

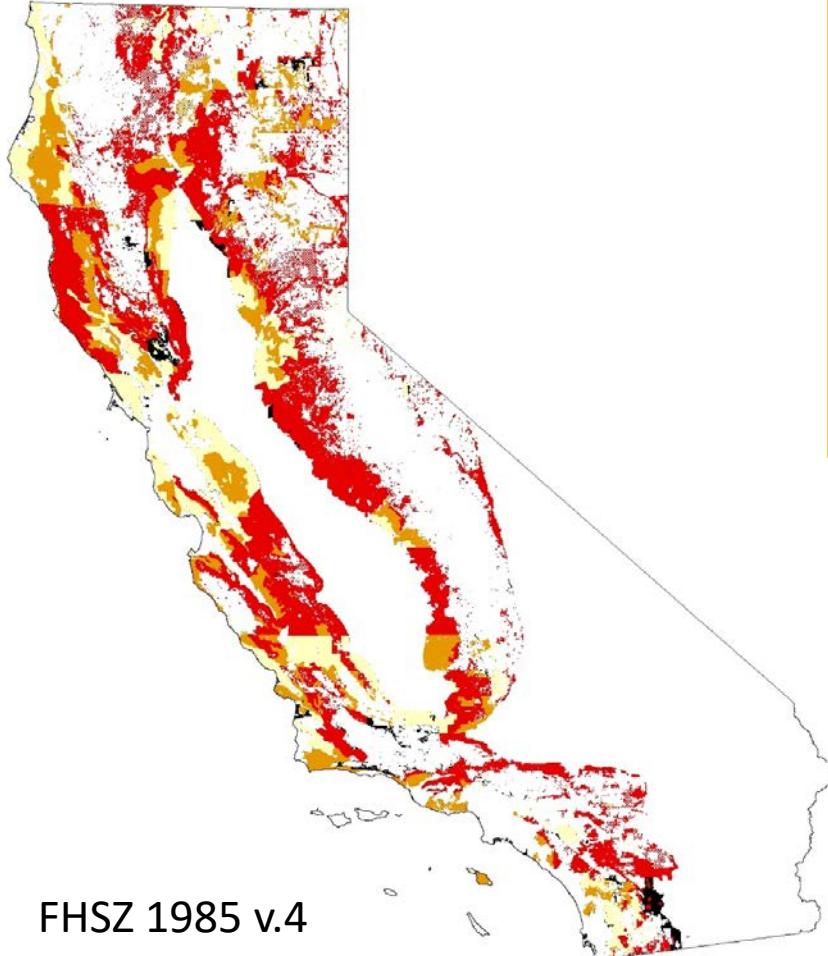
April 2018

How Can Science Influence Solutions?

Need: Deeper understanding of fire hazard & vulnerability

Approach: Spatial analysis & modeling

Opportunities:
New data, channels,
connections, events...



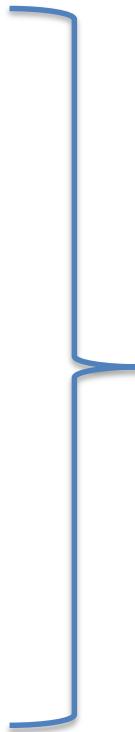
FHSZ 1985 v.4

New FHSZ Maps!

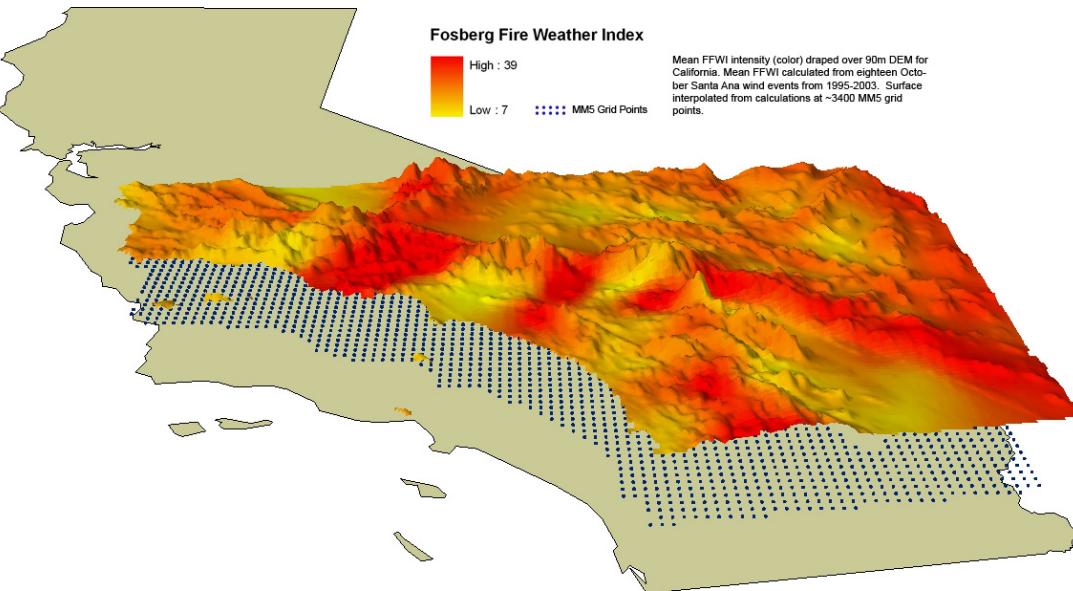
Role: Provided technical expertise to complete models

Role: Helped with local roll out of new maps

Role: Communicated importance to public



But What Is Missing? Winds...



Expectations for Position

Specialist in Fire Ecology & Management:

- Address critical fire-related problems affecting Californians
- Engage stakeholders ranging from home-owners to agency personnel to political leaders
- Advance/translate science for policy-, planning-, and management-oriented solutions

Policy Change!

SENATE THIRD READING
SB 1595 (Kehoe)
As Amended June 24, 2008
Majority vote

SENATE VOTE : 34-0

NATURAL RESOURCES 9-0 APPROPRIATIONS 15-0

Ayes:	Hancock, Fuller, Aghazarian, Brownley, Fuentes, Keene, Laird, Saldana, Feuer	Ayes:	Leno, Walters, Davis, DeSaulnier, Emmerson, Furutani, Huffman, Karnette, Krekorian, La Malfa, Lieu, Ma, Nakanishi, Nava, Solorio,
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SUMMARY : Clarifies defensible space requirements and recasts them in terms of fuels management instead of vegetation management; requires the California Department of Forestry and Fire Protection (CAL FIRE) to map Santa Ana, Mono, and Diablo winds that have been identified as a major cause of wildfire spread. Specifically, this bill :

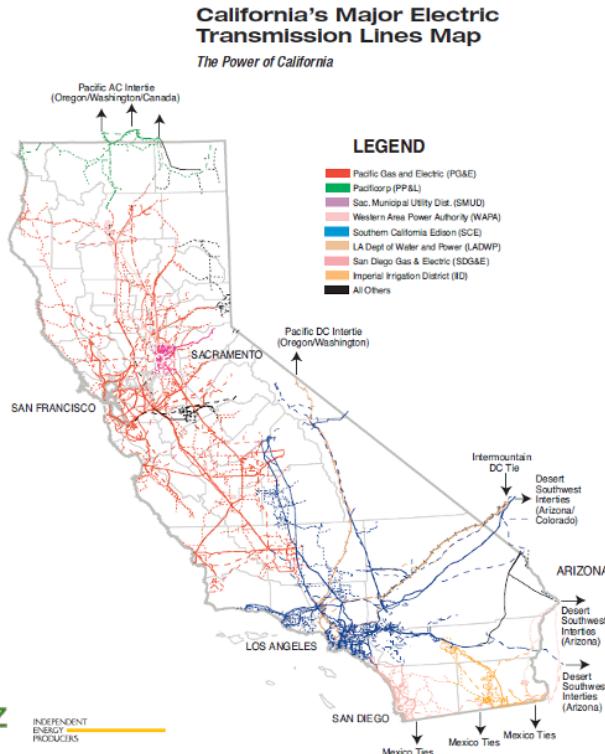
Role: Help craft text of legislation

- 4) Requires "very high fire hazard severity zones," to include areas where Santa Ana, Mono, and Diablo winds have been identified by CAL FIRE as a major cause of wildfire spread.
 - 5) Includes Santa Ana, Mono, and Diablo winds that have been identified by CAL FIRE as a major cause of wildfire spread within the factors the director of CAL FIRE must use when classifying lands within state responsibility areas into fire hazard severity zones.



Policy Change!

Role: Expert panel,
regulatory guidance



Mapping Environmental Influences on Utility Fire Threat
A Report to the California Public Utilities Commission Pursuant to R.08 – 11-005 AND R.15-05-006

DRAFT September 17, 2015

Fire Threat Mapping Independent Expert Team

David Sapsis, Cal Fire (Chair)
Tim Brown, Desert Research Institute
Catherine Low, CAP Low SE
Max Moritz, University of California, Berkeley
David Saah, Spatial Informatics Group, University of San Francisco
Ben Shaby, Penn State University

Role: Examine fire risk
from land use
planning perspective

Deeper...

Role: Inform policy
makers about new
research & application

CALIFORNIA WILDFIRE MANAGEMENT

Engaging Fire Professionals in Land use Planning for
Wildfire Risk Reduction

Client:
Dr. Van Butsic & Dr.
Max Moritz, University
of California
Cooperative Extension

Consulting Team:
Mauricio Cortes,
Satomi Iida, & Jen
Nerby

Course: Cornell
Institute for Public
Affairs, PADM 5900
Consulting for
Nonprofit &
Government
Organizations.

Instructor: Rebecca
Morgenstern Brenner

May 23, 2017



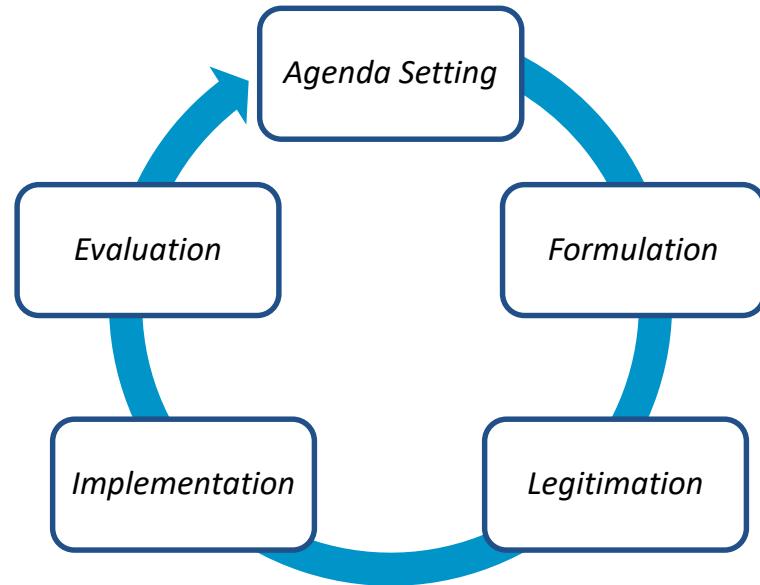
Impact:

Research

- New methods for fire hazard mapping
- New applications for fire risk assessment (e.g., utilities, climate change)

Extension

- Better FHSZ maps & safer utility infrastructure
- More sustainable land use planning in California
- Broader public understanding of the problem



Community Nutrition and Wellness

Mary L Blackburn, PhD, MPH

Nutrition Family and Consumer Sciences Advisor

Public Policy Facilitation

Position Description

- My PD speaks to:
- Facilitation: “**Serve as a facilitator in the public policy arena to help bridge divergent interests and perspectives around key issues... within the purview of UCANR**”.

Narrative

UCANR Cooperative Extension is a member of the Alameda County Nutrition Action Partnership (CNAP). CNAP facilitates the cooperation of USDA funded and other organizations working with low-income clients to help:

- Coordinate and cross-promote direct and indirect nutrition education and other obesity prevention interventions;
- Share policy, system, and environmental change strategies serving low-income eligible Supplemental Nutrition Assistance Program populations; and
- Oversee Alameda County's 3 year Integrated Work Plan for USDA funded Supplemental Nutrition Assistance Program (SNAP-Ed).

Narrative

- **2007** – Developed a **Food Assistance Consumer Resource Guide** to provide eligibility and benefit information on all USDA food assistance programs;
- **2011 – 2014- Streamlined Application (Single App)**: CNAP developed one application for Cal Fresh (Food Stamp), Women, Infants, and Children (WIC), the School Lunch, and Breakfast Programs and pilot tested it in 2011 & 2013;
- 2017-2018 - CNAP partnered with 2 other county wide committees to conduct neighborhood **assessment** in three targeted districts, held community forums to solicit feedback on needs , priorities, and consistent community messaging.

Impacts/Outcomes

- The work of CNAP validates the strength in partnerships by reducing competition and duplication, identifying partners best poised to lead an intervention;
- **2014 – Members worked with State legislators to pass AB402 which allows the sharing of confidential information across USDA programs -- multiple services;**
- 2016 - CDSS Presented CNAP an award for the best written Integrated Work Plan in the state and a UC Delivers Story was published;
- 2017 - USDA Food and Nutrition Service stated, “The Alameda County Nutrition Action Partnership (CNAP) is ... and one of the strongest in the State;

Impacts/Outcomes

- **2018 – CNAP was among the top 11 nutrition and wellness initiatives selected out of 60 applicants across the country to receive the Harkins on Wellness Award**
 - The Harkin Institute for Public Policy & Citizen Engagement informs citizens, inspire creative cooperation, catalyze change on issues of social justice, fairness, and connects people with policy.....

Policy Runs Through It

David Lewis, Watershed Management Advisor



What is watershed management?

Watershed management is the process of organizing and guiding land and other resource use on a watershed to provide desired goods and services without adversely affecting soil and water resources. Embedded in the concept of watershed management is the recognition of the interrelationships among land use, soil, and water, and linkages between uplands and downstream areas.

(Brooks et al., 1997)





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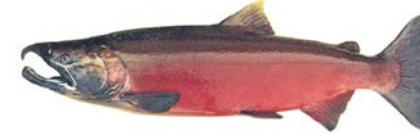
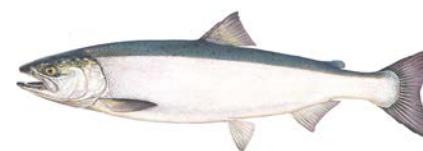
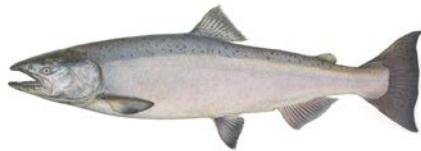






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Steelhead



Source: [fishbase.org](http://www.fishbase.org)

Program goal, clientele, and themes

Goal – To increase clientele understanding of watershed functions in a way that leads to the conservation and enhancement of natural resources and economic viability of working landscapes.

Clientele – Agricultural producers, regulatory agency staff, and their commissioners and directors, including local planning commissions, Regional Water Quality Control Boards, California Coastal Commission, and environmental organization representatives.

Themes –

- Watershed Functions
- Land use and environmental regulations

Outcomes and Impacts

Land use and environmental regulation

- More than 75% of dairy farms, required to comply with water quality regulations, are participating in twice yearly education programs resulting in the completion and implementation of water quality management plans in accordance with deadlines.
- Grazing livestock and dairy producers are actively participating with respective technical and financial support organizations to secure conservation dollars and implement practices like barn gutters, composting pads, cross-fencing, alternative water sources, and stream restoration.
- Specific changes to policies were implemented including the allowance for creamery waste water to be collected and managed in dairy manure ponds.

Example from Project Board

Kit Alviz
Program Planning Analyst

Thanks to the Science to Policy Working Group!

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