WCVC Climate Resilience Workshop

April 28, 2016

Purpose of Workshop

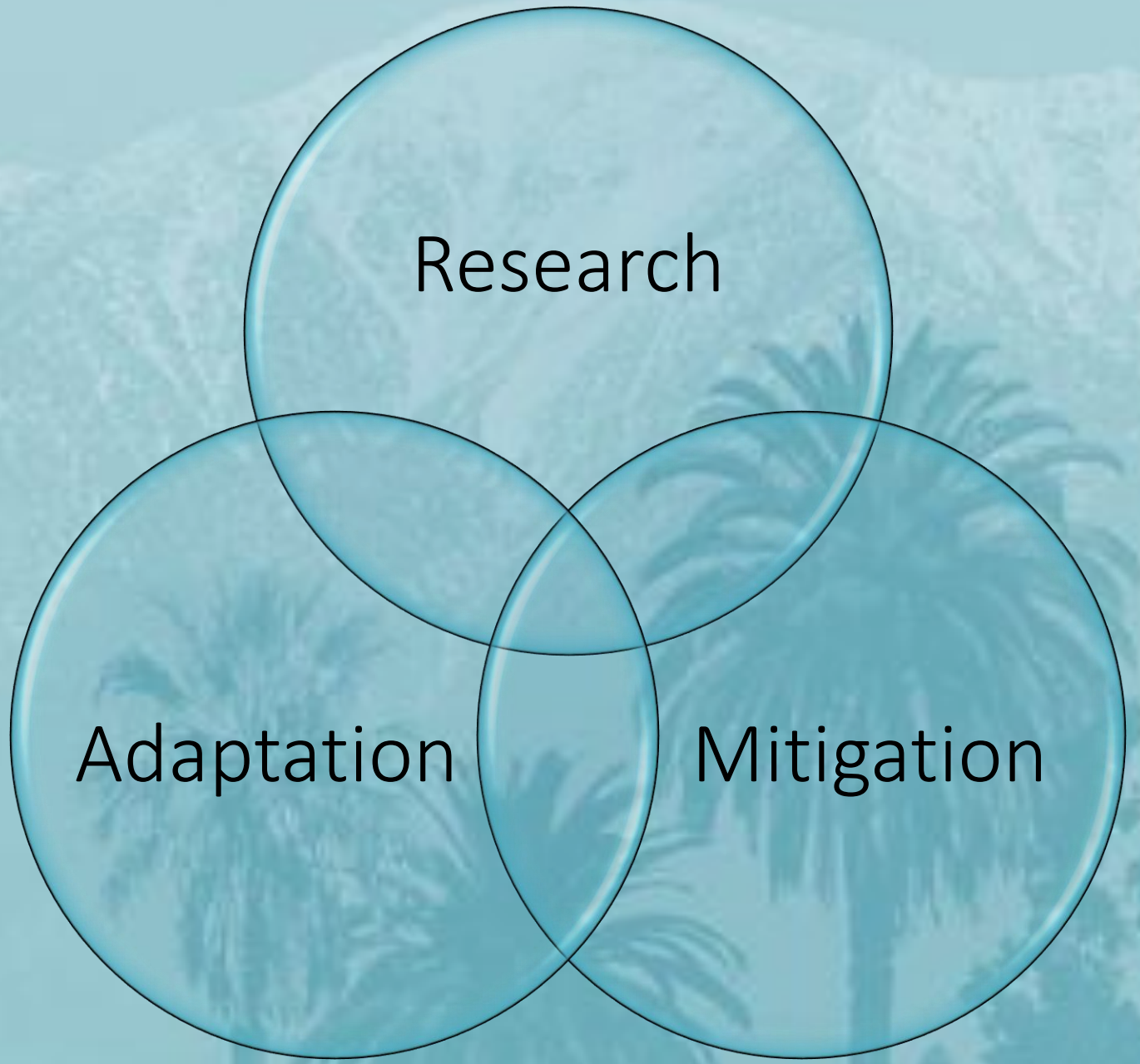
Overview of Agenda and Handouts

Overview of Climate Change Efforts in California

Local Efforts Including IRWM Plan

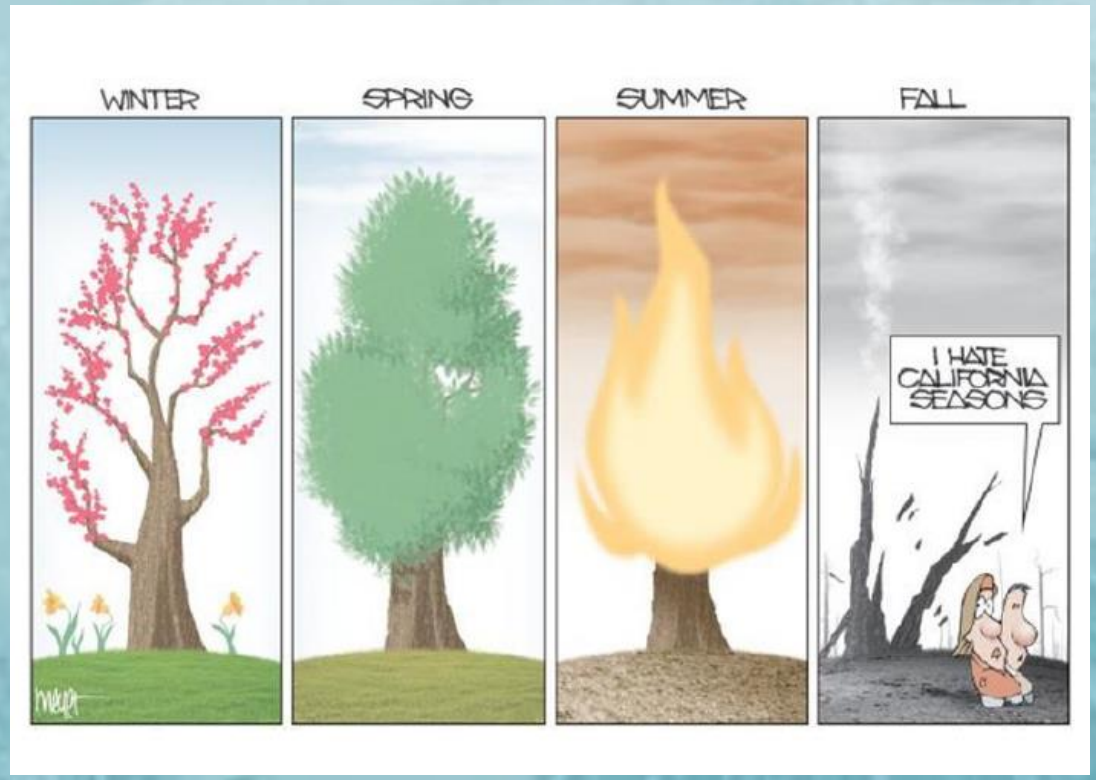
Next Steps

California Statewide Strategy



Research

- ❑ Global and local
- ❑ Greenhouse Gas Emissions levels
- ❑ Sea level rise
- ❑ Forest health and fires
- ❑ Habitat and species
- ❑ Public health impacts
- ❑ Energy use and emissions
- ❑ Water demand
- ❑ Energy/water Nexus
- ❑ Soil moisture holding and water storage capacity
- ❑ Role of human behavior
- ❑ Integration of ecology and climate data at watershed scale



Mitigation

- ❑ Greenhouse Gas Emissions Reduction (GHG)

Cap and Trade funding to local vulnerable areas

Carbon sequestration

Evaluation of GHG impacts of projects

Factoring in risk to financial investments

- ❑ Changing behavior
- ❑ Changing technology
- ❑ Address cumulative impacts
- ❑ Requires action at all levels, all countries, all people

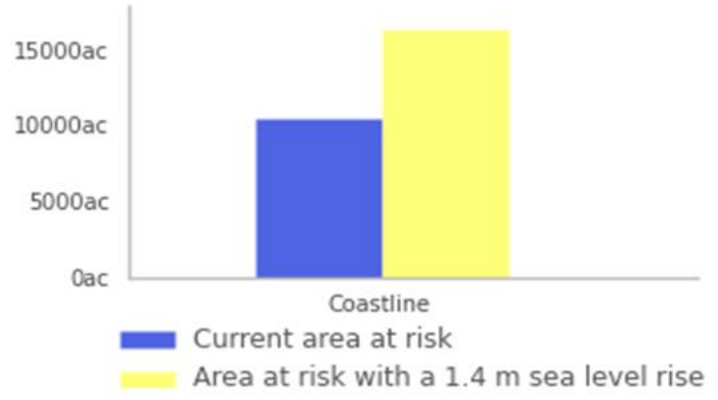
Adaptation for Resilience

- ❑ Infrastructure
- ❑ Behavior
- ❑ Policy
- ❑ Vulnerable populations
- ❑ Social solutions – not just science and technology
- ❑ Financing
- ❑ Local level solutions

VENTURA AREA

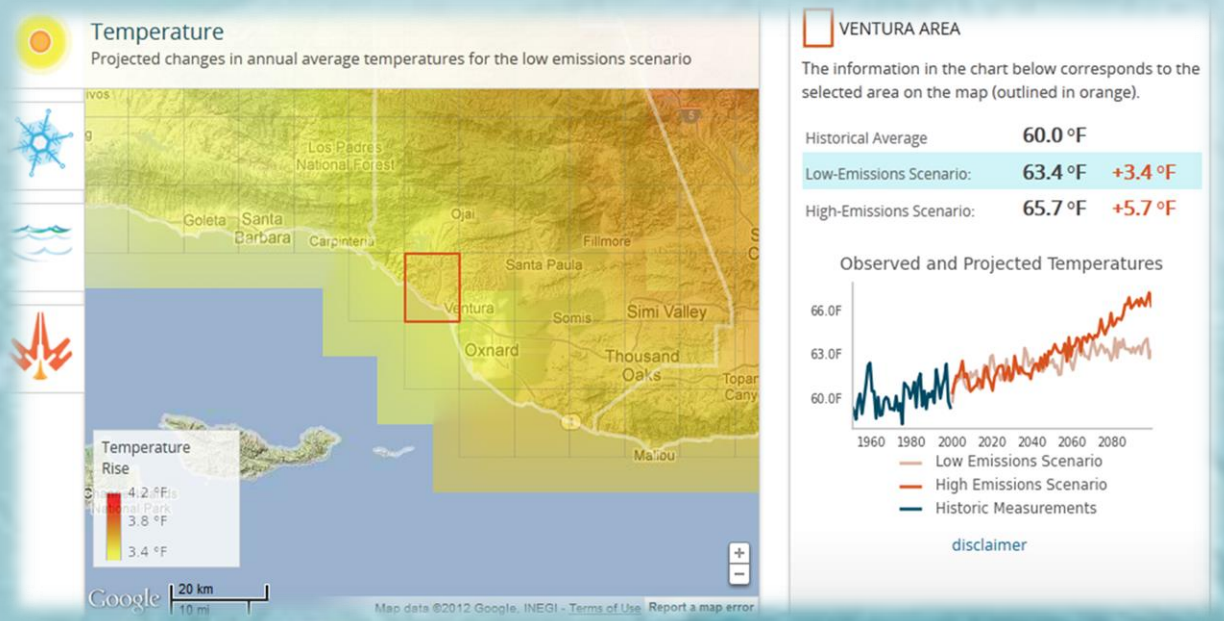
Land Vulnerable to a 100-Year Flood Event

	Estimated Acreage in 2000	Estimated Acreage in 2100	Percent Change
Coast:	10,530	16,410	+36%



Resilience Tools

- ❑ Cal-Adapt website and others
- ❑ Downscaled climate models
- ❑ On-line data portals
- ❑ Financing
- ❑ Outreach methods
- ❑ Land use practices and planning – General Plan
- ❑ Water demand management practices and planning
- ❑ Energy demand management practices and planning
- ❑ Collaborative studies and programs



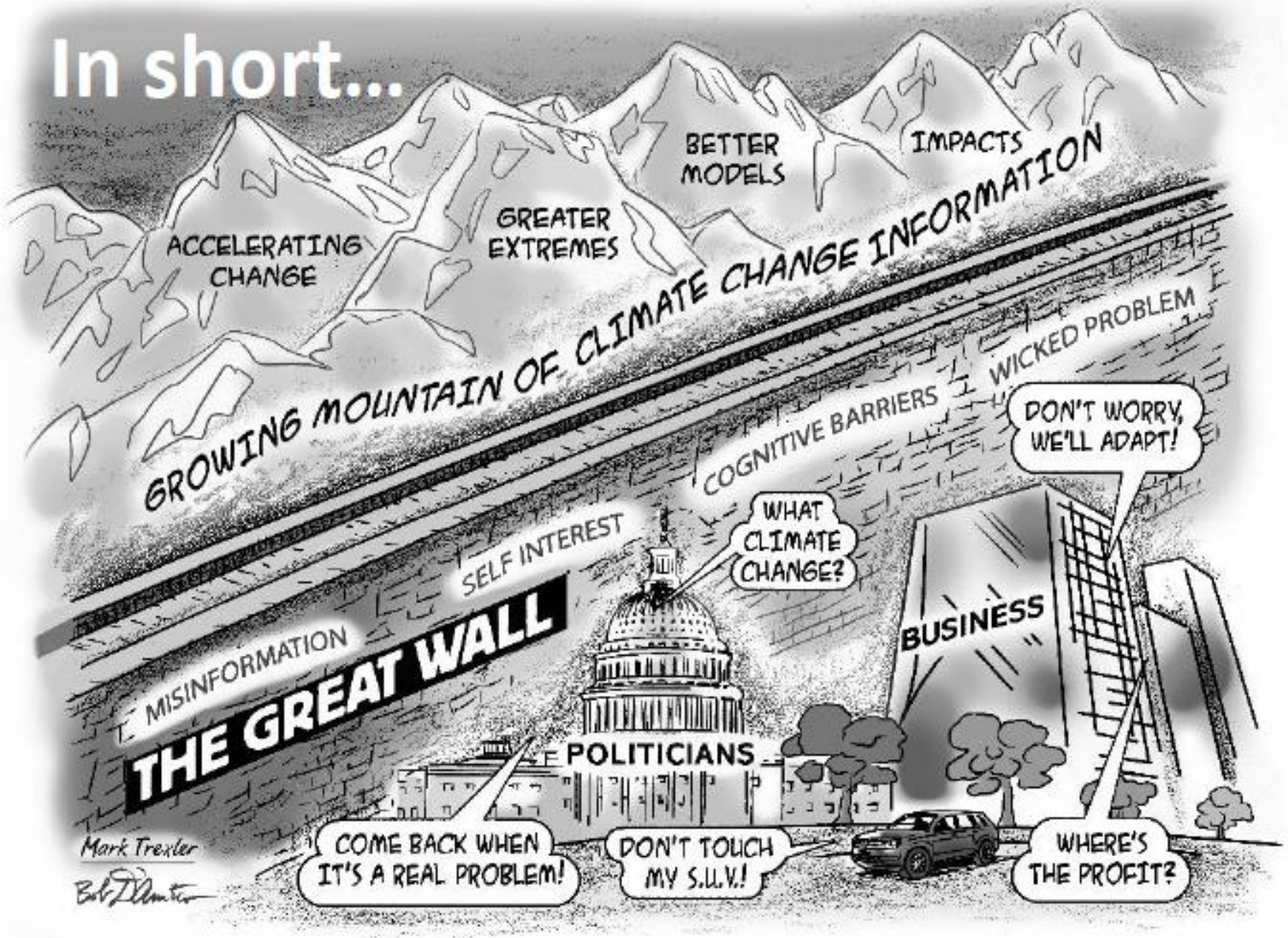
Local Actions

- ❑ WCVC - IRWM Plan and watershed actions; Prop. 1-required amendments
- ❑ Ventura Regional Energy Alliance – Climate on the Move
- ❑ County's Multi-Hazard Mitigation Plan
- ❑ Local and Regional Sea Level Rise Models/Studies
- ❑ Consideration of climate change in local land use and water planning
- ❑ Climate change considerations in project design and implementation
- ❑ Partnerships and collaboration
- ❑ Opportunity to consider climate change mitigation and adaptation in all decision-making

Upcoming Climate Change Forums

- ❑ September 6th – California Climate Change Symposium in Long Beach
- ❑ September 7-8th – California Adaptation Forum in Long Beach

In short...


ACCELERATING CHANGE
GREATER EXTREMES
BETTER MODELS
IMPACTS
GROWING MOUNTAIN OF CLIMATE CHANGE INFORMATION
COGNITIVE BARRIERS
WICKED PROBLEM
SELF INTEREST
MISINFORMATION
THE GREAT WALL
DON'T WORRY, WE'LL ADAPT!
WHAT CLIMATE CHANGE?
BUSINESS
POLITICIANS
COME BACK WHEN IT'S A REAL PROBLEM!
DON'T TOUCH MY S.U.V.!
WHERE'S THE PROFIT?
Mark Trexler