

Santa Barbara County IRWM Region

March 15, 2012

RMC

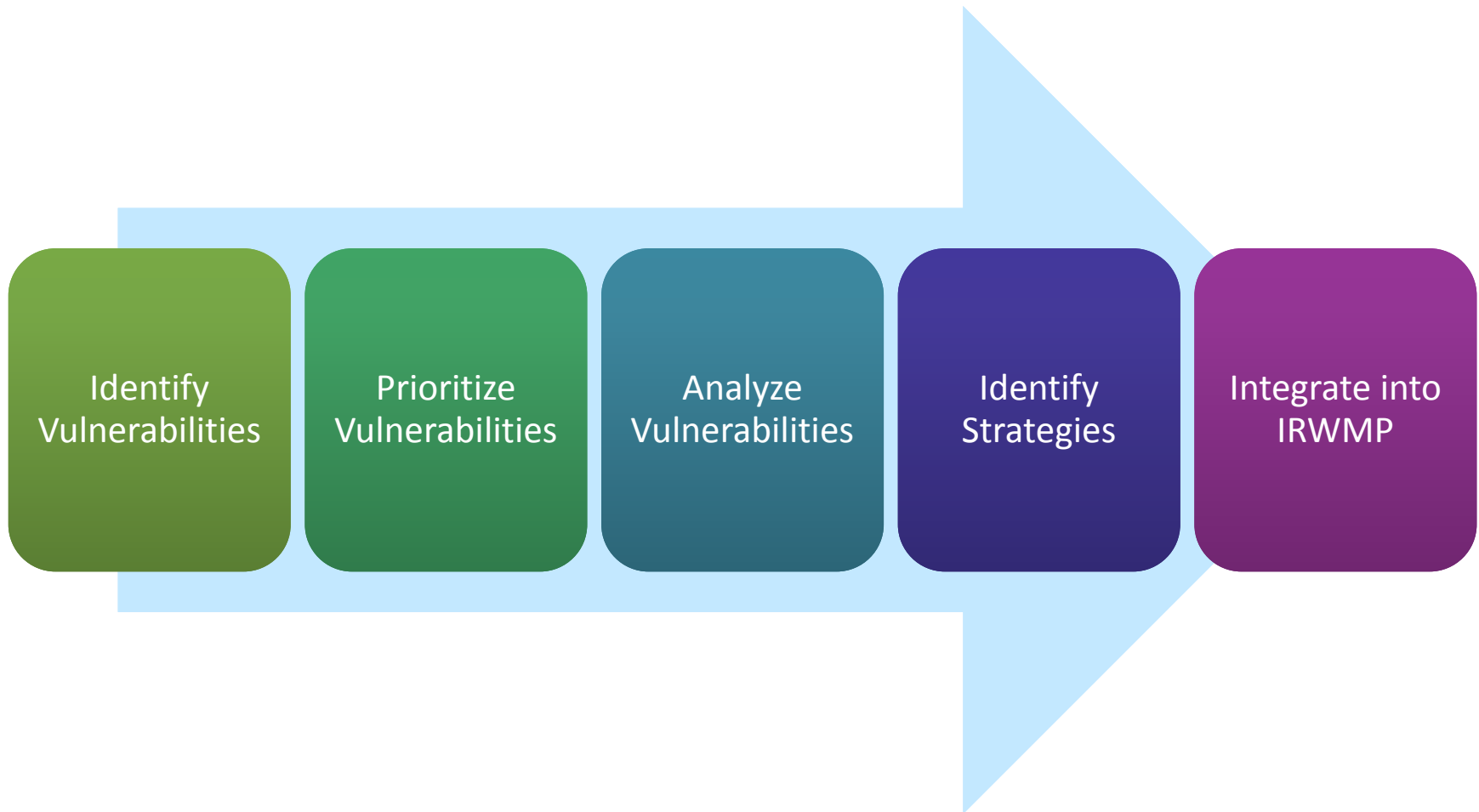
Water and the Environment



UPPER SANTA CLARA RIVER
Integrated Regional Water Management



Santa Barbara Climate Change Analysis



Climate Change Vulnerabilities



Increased demand due to drought and increased temperatures

Increased Water Demand



Daily heat patterns
impact crops

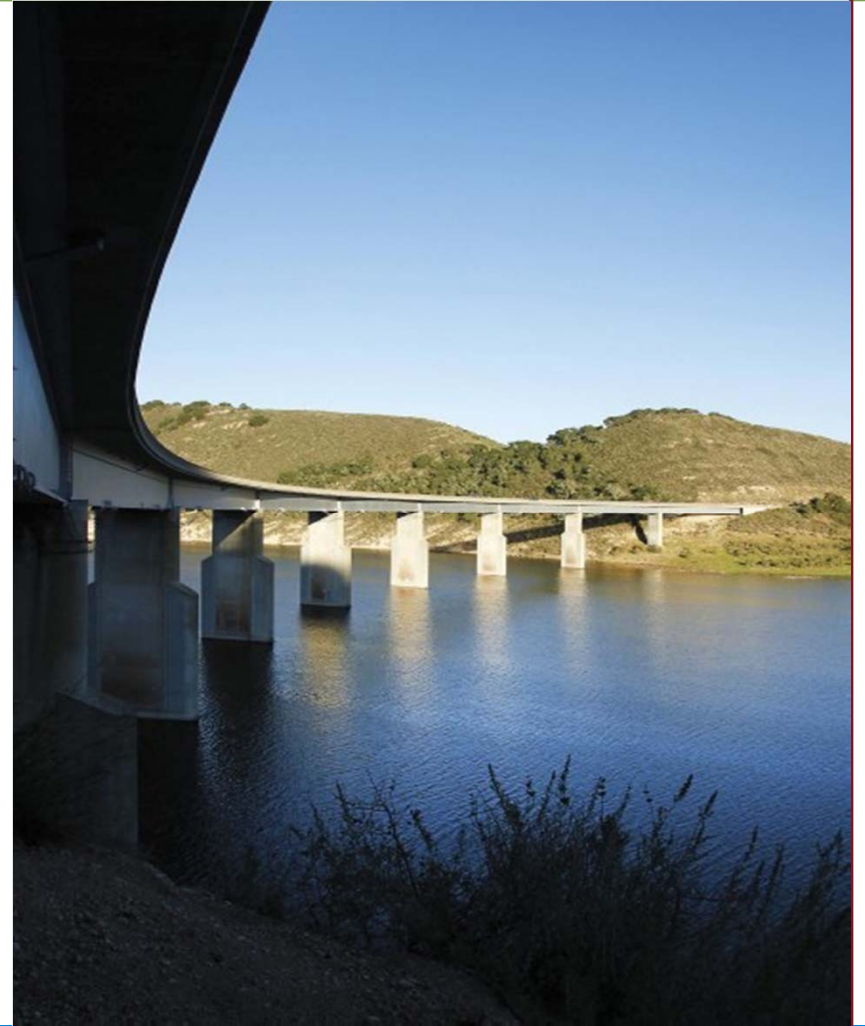
Instream flow could be insufficient
to support aquatic life



Water Supply

Limited water storage

- Decrease in snowmelt could impact imported SWP water supply
- Saltwater intrusion with drought
- Invasive species management



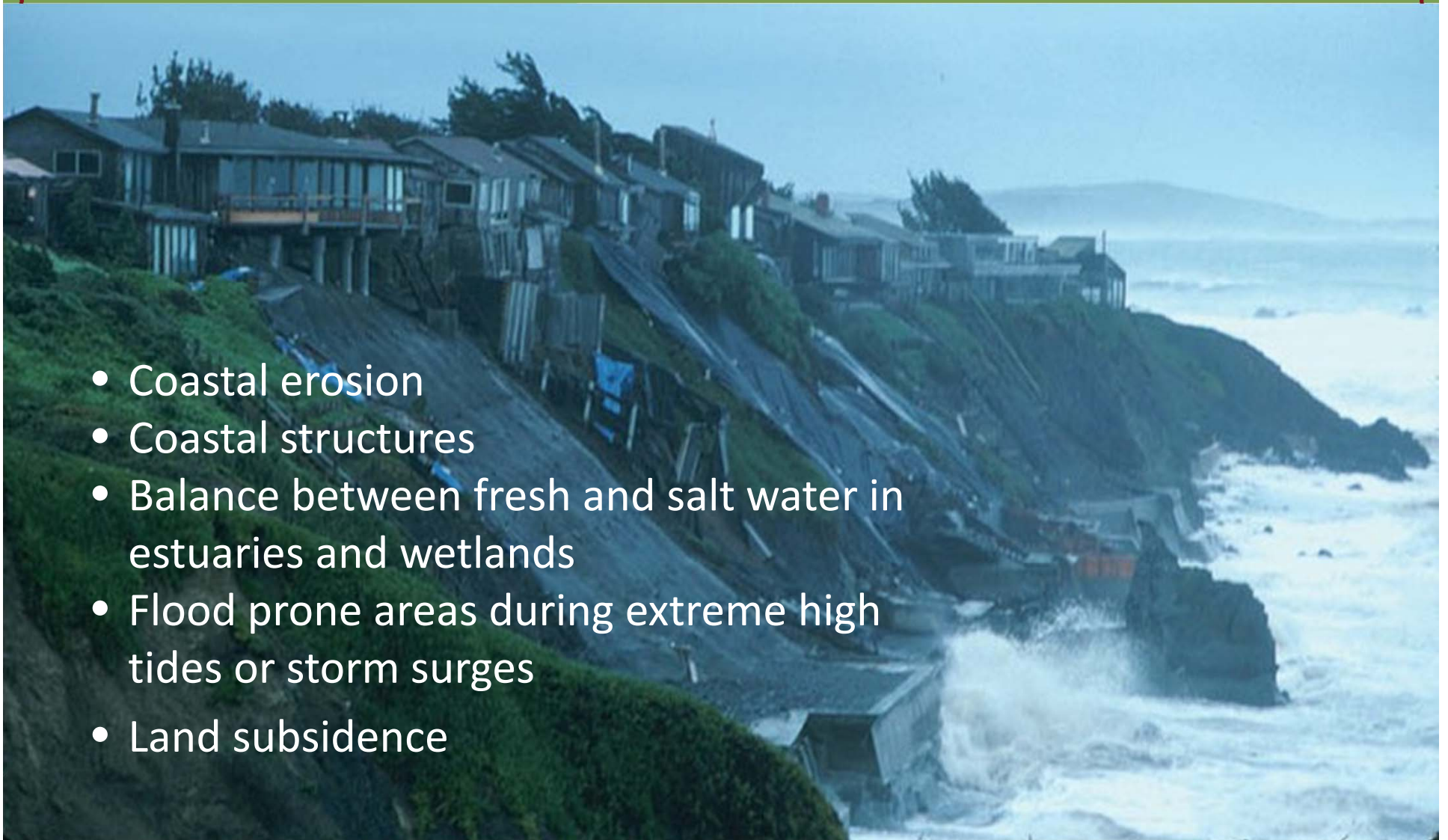
Water Quality

Increase in wildfires could threaten water quality in reservoirs



Sea Level Rise

- Coastal erosion
- Coastal structures
- Balance between fresh and salt water in estuaries and wetlands
- Flood prone areas during extreme high tides or storm surges
- Land subsidence



Flooding



- Insufficient flood control facilities
- Wildfires increase risk of flooding within the burn and downstream areas

Ecosystem and Habitat

- Erosion
- Endangered species restoration efforts
- Recreation and economic activity reliant on aquatic habitat
- Rivers with quantified environmental flow requirements
- Fragmented habitat



Additional Steps

- Prioritize vulnerabilities
- Analyze vulnerabilities
- GHG mitigation strategies
- Strategies
 - Water use efficiency
 - Recycled water
 - Increase water supply (dam sedimentation removal, cloud seeding)
 - Water storage
 - Groundwater storage/conjunctive use
 - Groundwater remediation
 - Green power sources
- Consider in project selection

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