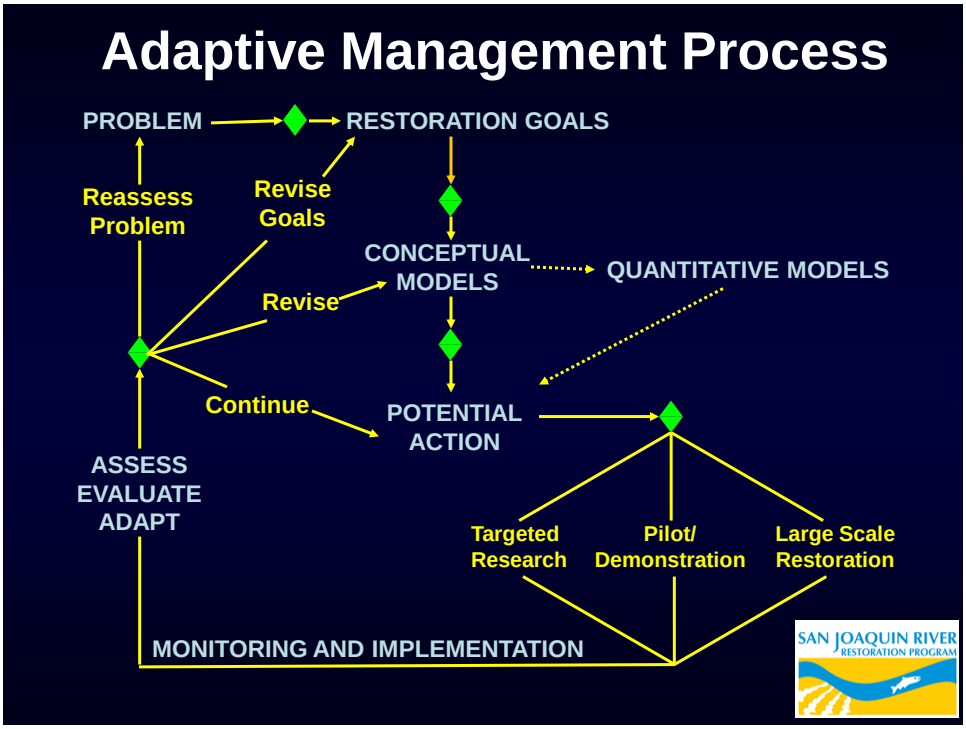
Fisheries Actions and Study Planning Process



2014 Fisheries Actions

- Inform direct reintroduction methods and planning
  - Proof of concept for rearing and release methods
- Inform large scale actions and future decisions
  - Channel Structural Improvements
  - Habitat Augmentation

SJRRP Spring-run Strategy

Spring-run Overview

- Spring-run were extirpated from Restoration Area
- Volitional colonization from existing populations is unlikely
- Existing Spring-run in Central Valley are listed under ESA and CESA
- Hatchery needed to produce enough individuals to colonize Restoration Area

SJRRP Spring-run Strategy

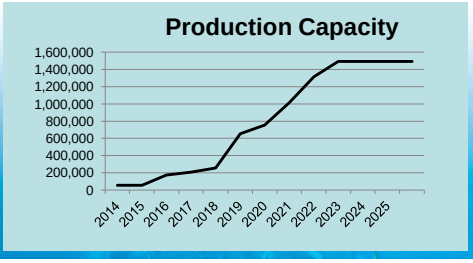
Spring Run Reintroduction Strategy

- Direct stocking of Spring-run juveniles into Restoration Area
  - Program produced
  - Translocation
- Construction of Conservation Facility
- Captive Broodstock Program

SJRRP Spring-run Strategy

Spring Run Timeline Overview

- Begin developing captive broodstock in Spring 2013
- Start small scale juvenile releases in spring of 2014
- Increase size of releases as Program capacity increases
  - Expected completion of San Joaquin Conservation and Research Facility in 2015
  - Productive capacity will build over time
  - 151,000 building in 2016 to ~1,400,000 in 2022



SJRRP 2014 Spring-run Actions

2014 Actions

- Continue building a captive broodstock
  - Began collection of broodstock in spring of 2013 (BY2012)
  - Collect 2nd year of broodstock from Feather River Fish Hatchery from BY 2013
- Begin initial Spring-run releases
  - 54,000 juveniles from Feather River Fish Hatchery
  - Direct releases into Restoration Area

SJRRP Fall-run Strategy

Fall-run Overview

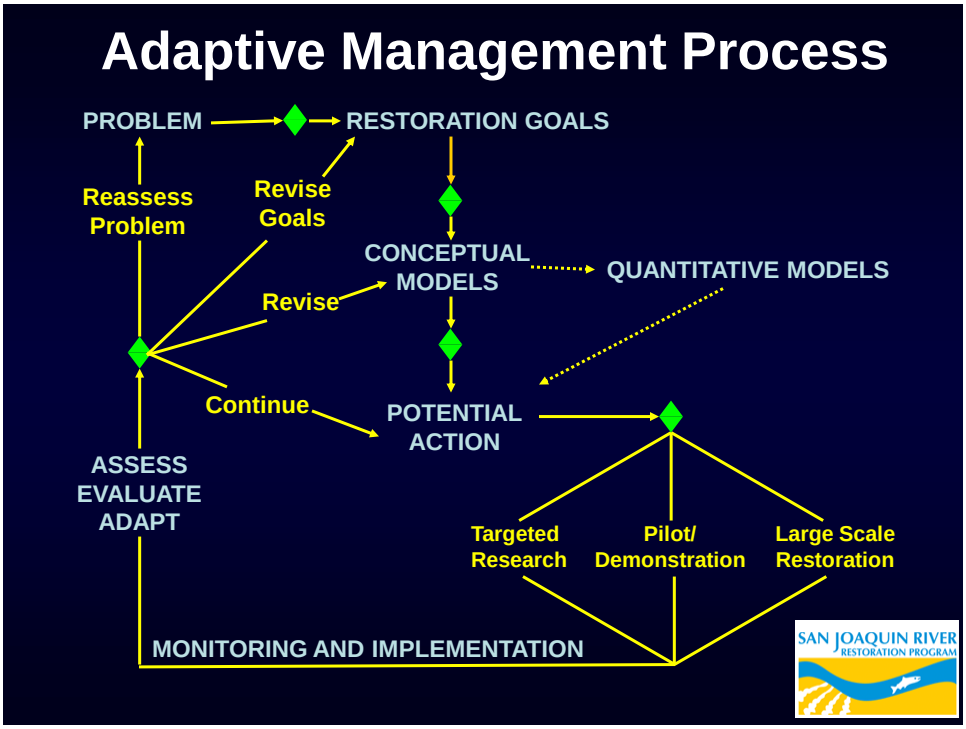
- Populations exist within basin
- Reliance on volitional colonization from existing populations
- Provide transport assistance as needed
- Inform Spring-run reintroduction

SJRRP 2014 Fall-run Actions

2014 Fall-run Actions

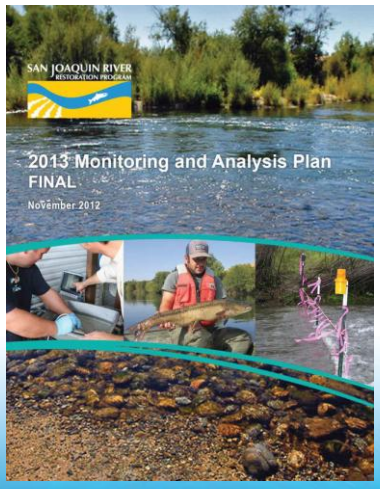
- Adult Capture and Transport
  - Pilot/test methods
  - Observe behavior / success in spawning areas

- Streamside Spawning/Rearing
  - Pilot / test methods
  - Direct releases into Restoration Area



MAP Planning Process Changes

- Consolidate and Describe Uncertainties
- Formation of Small Interdisciplinary Groups
- 6-Step Process



MAP Theme Outline

Theme

- Description of the state of knowledge

- **Actions**
  - List of actions identified in Draft Framework for Implementation
- **Questions**
  - List of questions related to implementing actions
- **Studies**
  - List of studies identified to address uncertainties raised by questions

MAP Planning Process

- **Step 0**
  - Meeting presentations (i.e., TAC Meeting, Restoration Goal Technical Feedback Group Meeting, etc.)
- **Step 1**
  - Principal Investigator (PI) submits report for posting to SJRRP Web site
- **Step 2**
  - Comments received on report
- **Step 3**
  - PI revises report in response to comments received on Draft report

Principal Investigators will be responsible for steps 1-3 in the MAP planning process.

MAP Planning Process

- **Step 4**
  - Develop linkage of study back to **question(s)** identified under the respective **theme**.
- **Step 5**
  - Use information gained from study to answer **question(s)**
  - Use revised **question(s)** to reprioritize **action(s)**
- **Step 6**
  - Incorporate information (reprioritized **action(s)**, revised **question(s)**, and **study**) into MAP

Small Interdisciplinary Groups (SIGs) responsible for steps 4 and 5 in the MAP planning process

Program responsible for step 6 in the MAP planning process

Themes from Draft Framework for Implementation

- Flow Scheduling
- Rearing Habitat
- Fish Reintroduction
- Predation
- Fish Passage
- Conveyance Capacity (temperature)
- Spawning and Incubation
- Entrainment Protection
- Adult Migration Paths
- Water Management
- Long-term Monitoring

Source: Draft Framework for Implementation (SJRRP 2012)

MAP Planning Process

2014 MAP

- Key uncertainties by theme
- Incorporate information learned from meetings with Small Interdisciplinary Groups (SIGs)
- Updates to the state of knowledge of the program by theme
- Potential reprioritization of actions based on input from SIGS

Questions