Agenda Item I.2 Supplemental Staff Presentation 1 (J. Star) March 2021

# Developing Future Scenarios for Climate Change in the California Current Ecosystem

Report on Regional Implications Workshops

March 2021

# **Items to Cover**

Reminder of the CCI climate change scenario planning exercise

Update on work conducted since September 2020

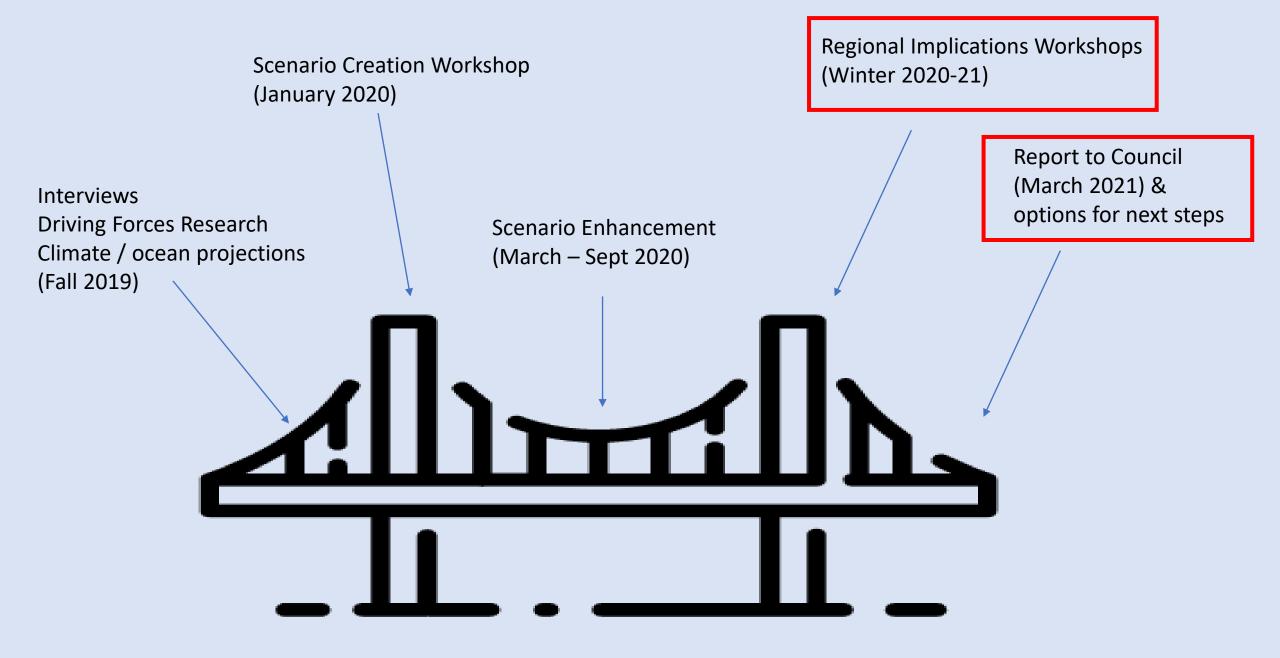
Report on Regional Implications Workshops

**Options for Next Steps** 

# **Scenario Project Objectives**

- Explore how climate-related shifting stock availability and other factors might affect west coast fishing communities over the next 20 years
- Define and develop tools, products and processes so that management and communities can navigate uncertainty and react to potential future states

## **Process Overview**



## September 2020 – March 2021 Update

## **1. Scenario Development**

2040

Scenarios for

West Coast Fisheries

#### Video

2040: Scenarios for West Coast Fisheries

#### Preface



#### PREFACE Scenarios for West Coast Fisheries 2040

**Climate and Communities Initiative** 

Pacific Fishery Management Council Climate and Communities Core Team August, 2020

#### Introduction

Fishermen face a world of uncertain, changing conditions, an inherent part of lide for the industry over generations. The next twenty years hold the promise of being even more wolking. Climate change threatens to affect a range of ocean conditions, and changes in technology, trade relationships, consumer tuntes, and shocks like pandemics will create a less predictable world.

Planning for the fature is essential in such changing times. Forecasts can be helpful in times of stability, but when conditions are unpredictable, it is important to consider what might happen in a variety of possible, yet unknown, futures.

To do this, the Pacific Fishery Management Council has undertaken a scenario planning exercise to explore the potential future of West Coast fishing to 2046. We provide an early output of this exercise in the documents *Scenarios for West Coast Fisheries 2040*. *Climate and Communities*, *Initiative*, *FMEA Japants* 2020.

This accompanying document provides a brief introduction to scenario planning and outlines the specifics of the Council scenario planning process.

### **Full Report**

## 2040

Scenarios for West Coast Fisheries

#### **Climate and Communities Initiative**

Pacific Fishery Management Council's Climate and Communities Core Team August, 2020

## September 2020 – March 2021 Update

## 2. Regional Implications Workshops

- Southern California, Dec 16-17, 2020
- Northern California, Jan 13-14, 2021
- Washington, Jan 20-21, 2021
- Oregon, Feb 2-3, 2021

- Each held as a 2-day online workshop
- 20-30 participants per workshop
- Multiple stakeholders: harvesters, processors, community members, scientists, managers
- Plenary and group breakout sessions

## September 2020 – March 2021 Update

### **2.** Regional Implications Workshops

- Review each of the 2040 scenarios. What aspects of each scenario are particularly relevant for the region?
- What will be the main concerns and opportunities facing different stakeholders (harvesters/processors, communities, scientists & managers)
- > What actions should be considered to prepare for each of the scenarios?
- > Looking across scenarios, which possible actions will be most important to pursue?

### **Post-Workshop**

> Which scenario seems closest to today, and what's most likely in 2040?

# **Priority Action Areas from Workshops**

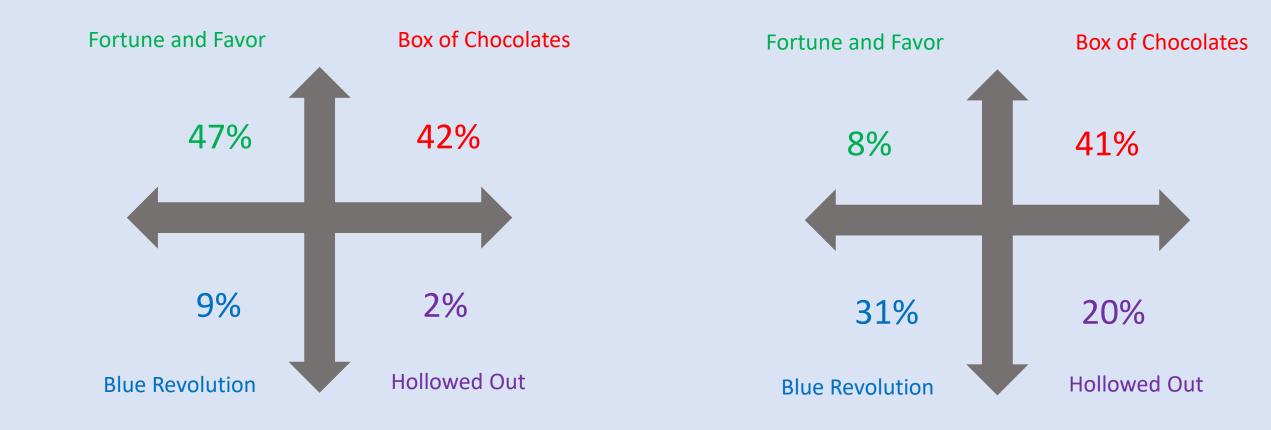
- Management flexibility
- Marketing, outreach and education
- Council efficiency
- Community resilience
- Collaboration across geographies and interest groups

- Infrastructure
- Improved data collection, analysis and communication
- Financial support
- Carbon neutral and sustainable activities

# **Mapping the Future**

Which scenario most closely resembles the conditions we are seeing today?

*Which scenario is the most likely outcome for 2040?* 



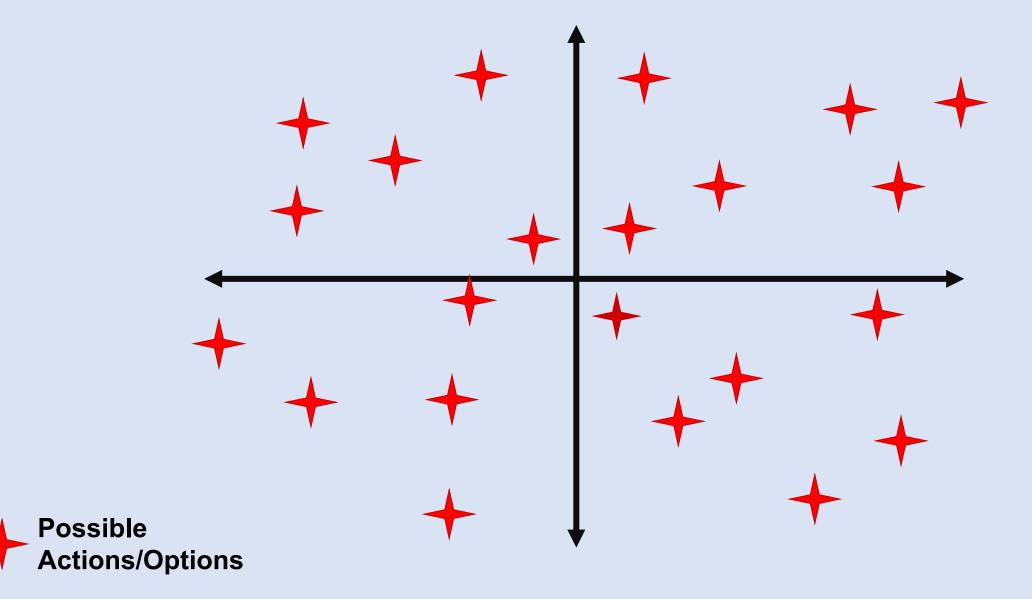
# **Possible Next Steps**

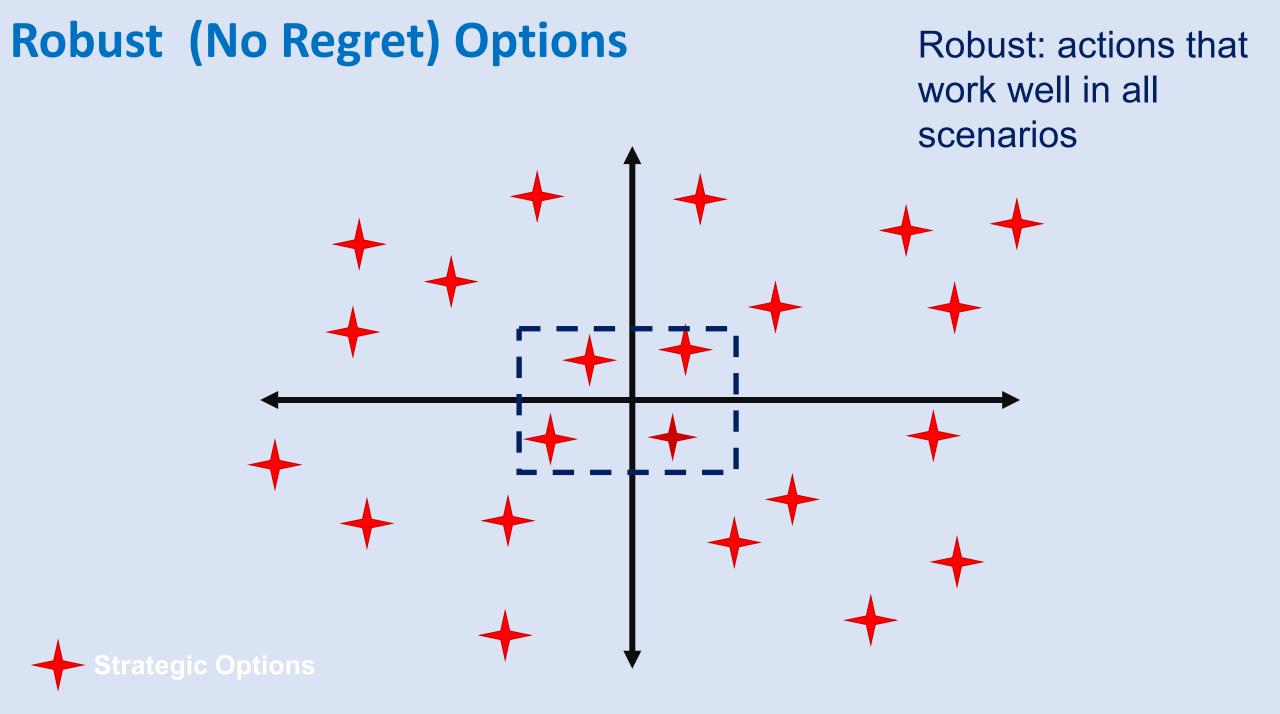
"Explore how climate-related shifting stock availability and other factors might affect west coast fishing communities over the next 20 years" "Define and develop tools, products and processes so that management and communities can navigate uncertainty and react to potential future states"

Ensure that the scenario materials are available as a resource for **continued conversations** and idea generation for various stakeholders

Review the lessons from all aspects of the scenario work and develop a **series of recommendations** designed to achieve the above objectives

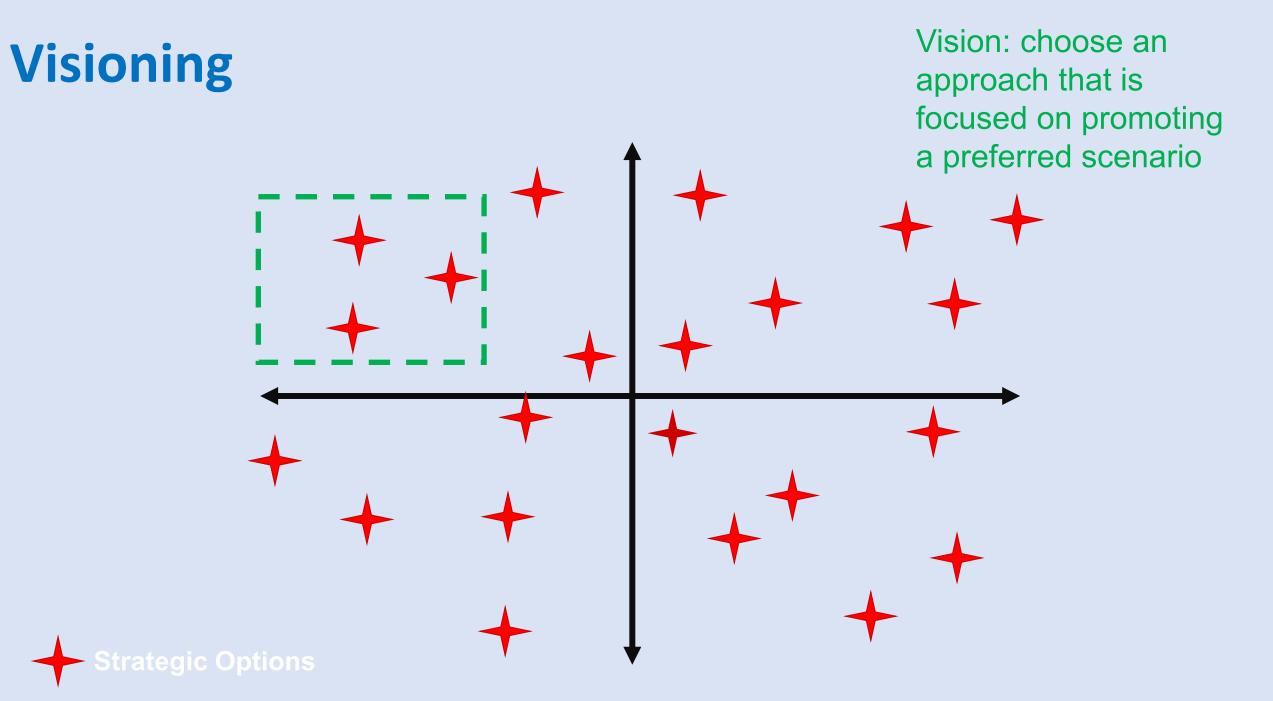
## What's Next? Using Scenarios to Decide on Actions





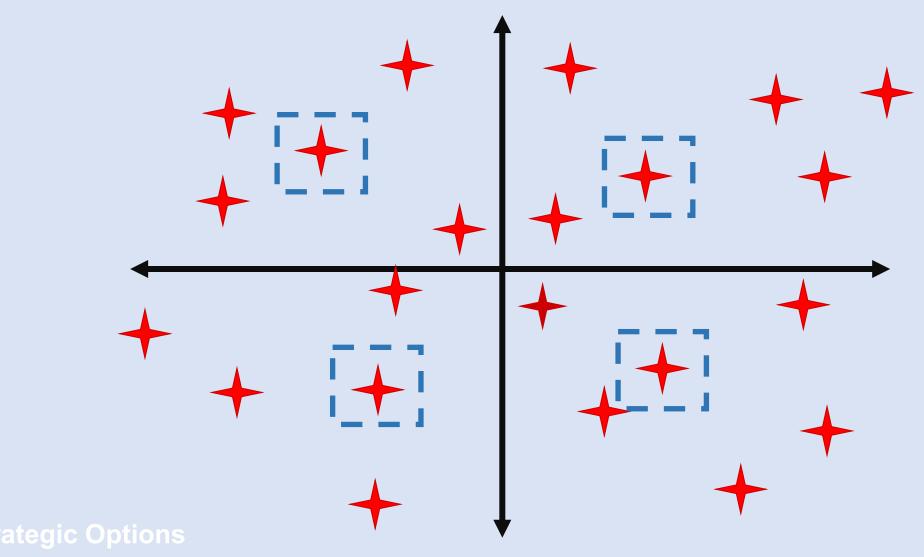
# **Planning for Extremes**

Plan for Extremes: choose an approach that is focused on dealing with a specific scenario (e.g. worst-case)



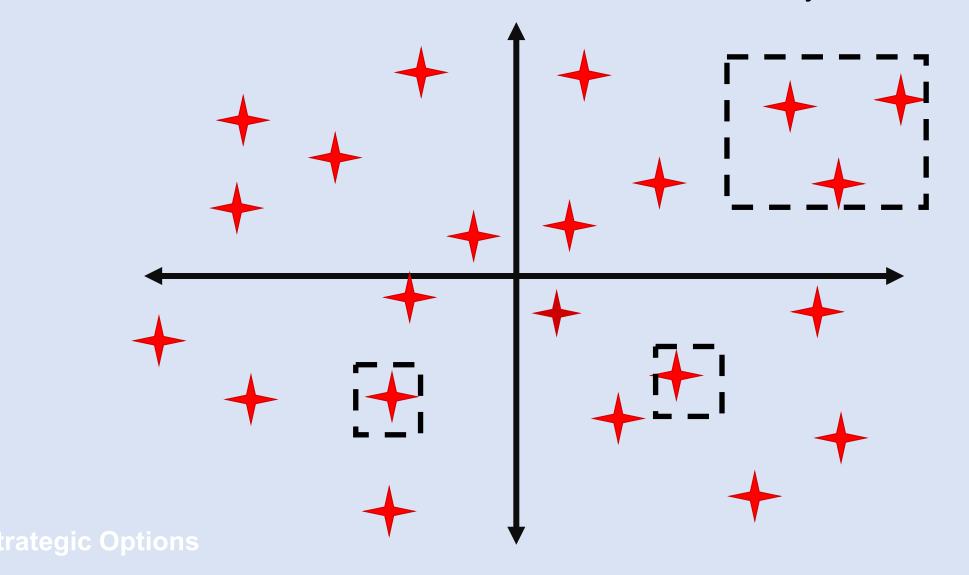
# **Flexible Options**

Hedge: Choose an action / approach for each scenario, and **wait to see** what happens in future



# **Balanced Portfolio**

Core-Satellite: focus most effort / attention on dealing with one scenario but keep options open to deal with others as they arise.





**Council Action:** 

Review the Phase 2 Workshop Report and Provide Guidance on the Scenario Planning Exercise and Completion of the Initiative.