

# **OPR Adaptation Financing Guide Overview**

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#### **Purpose**

Coordinate state, tribal, local, and regional activities with a focus on local implementation

#### **Cross-cutting objectives**

Advance equity and environmental justice

Support an integrated approach to climate change (adaptation and mitigation)

#### **Programmatic elements**

Adaptation Clearinghouse Technical Advisory Council (TAC)



# ICARP: Adaptation Funding, Finance & Investment

#### Partnership with Federal Reserve Bank of San Francisco

- Strengthen climate adaptation investment
- Equity "lens" ensuring investments benefit low-income and disadvantaged communities
- Public-private relationship building

# Partnership with Harvard, Development of Adaptation Investment Framework (Jesse Keenan)

 Practical guide for local governments to engage in adaptation investments



# One of the challenges...



# Adaptation Principles (Executive Order B-30-15)

Prioritize Natural and Green Infrastructure

Protect the most *vulnerable* 

Integrate mitigation and adaptation to the fullest extent possible

Coordinate with local and regional partners

Base decisions on best available science



# Reconcile Principles of Economy Theory?

Prioritize *Risk-adjusted Returns* 

Protect the most vulnerable, if they represent a viable demand

*Integrate* public risk taking and private return

Coordinate with counterparties only

Base decisions on proprietary data



# Some more challenges...



# Adaptation Financing Challenges

- Variability in Climate Projections
- Limited Guidance on Integration of Adaptation
- Limited Flexibility in Existing Funding Sources
- Limited Resources for Interjurisdictional Action
- Limited Opportunities to Grow Funding
- Absence of an Adaptation Financial Market

**Source**: Draft and undergoing peer review, Overcoming Financial and Institutional Barriers to Implementing Local Government Adaptation Strategies 4<sup>th</sup> Assessment Survey Results (2017)





# Step 1: Identify the right questions Federal Reserve Convenings



# Adaptation Financing Challenge questions

- Variability in Climate Projections
- Limited Guidance on Integration of Adaptation

### Local example: SF Seawall Fortification

• Are there existing methodologies for scoping out investment decisions (costs) within the context of uncertain conditions (challenge of putting together a General Obligation Bond within the context of changing climactic conditions)?



# Adaptation Financing Challenge questions

Limited Flexibility in Existing Funding Sources

#### Local example: SF Seawall Fortification

• What complementary [funding] policies are needed to mitigate potential displacement of low and middle-income communities resulting from public infrastructure investments?



# Adaptation Financing Challenge questions

Absence of an Adaptation Financial Market

Emerging or novel "mechanisms" are untested, lack performance data, and may not be feasible in the near term. Difficult to get private financial return-based market to the table without a clear value proposition and proof of concept.

#### Example: Ocean Protection Council Pilot Concept

• What is the role of the public sector and how can an agency learn from experiments to better manage its portfolio and pilot "new" tools?



# Step 2: Develop a Guide OPR Financing Framework, Harvard Research Team



# Adaptation Finance & Investment Guide

#### **Conceptual Framing**

Terms & trade-offs

#### **Understanding Impacts: Financial and Fiscal Considerations**

Estimating need

#### Financing and Funding Adaptation

- Typology of financing and revenue sources
- Stakeholder roles (public, private, public-private)
- Translate adaptation efforts to underwriting and performance criteria

#### **Ensuring Equitable Outcomes**

Context setting and underwriting criteria

#### Assessing and weighting finance options

Evaluation tool



# Emerging (anecdotal) findings

Need for a new market: identified as a challenge, but maybe greater short-term potential for adjustments to existing mechanisms

Growing funding: requires political will and community support, critical to build a compelling narrative that resonates with local need and context

Need for a "single" cost estimate: not useful for framing or building public support, also very inaccurate; better use of time to integrate climate considerations using more specific project- or issue-based scale.

No panacea...



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