

Building an Effective Delta Science Enterprise: Long-Term Science Needs Assessment Workshop



July 28, 2020
Discussion Seminar

SEMINAR Q&A

Oral Comments

Use the “Raise Hand” function to indicate that you have an oral comment and wait to be called on

Written Comments

Type comments using the Chat function and we will read it

Can't Figure out MS Teams?

E-mail disb@deltacouncil.ca.gov with your comment.

STRATEGIC SCIENCE NEEDS ASSESSMENT ORIGINS

- Delta ISB letter to DPIIC suggests Strategic Science Needs Assessment (Feb. 2019)
- DPIIC included the Science Needs Assessment, as a priority action in Delta Science Funding and Governance Initiative
- Discussion paper and scientific panel to explore pre-emptive science needs in the context of rapid environmental changes (Memo to DPIIC April 2020)

CURRENT PLANNING TEAM

Amanda Bohl, Delta Stewardship Council

Stephen Brandt, Delta ISB

John Callaway, Delta Lead Scientist

Michael Chotkowski, U.S. Geological Survey

Henry DeBey, Delta Science Program

Larry Goldzband, San Francisco Bay
Conservation and Development Commission

Josh Israel, U.S. Bureau of Reclamation

Rachael Klopfenstein, Delta Science Program

Mark Lubell, U.C. Davis

Jay Lund, Delta ISB

Dick Norgaard, Delta ISB

Cheryl Patel, Delta Science Program

Lynda Smith, Metropolitan Water District

Brittany Young, Delta Stewardship Council

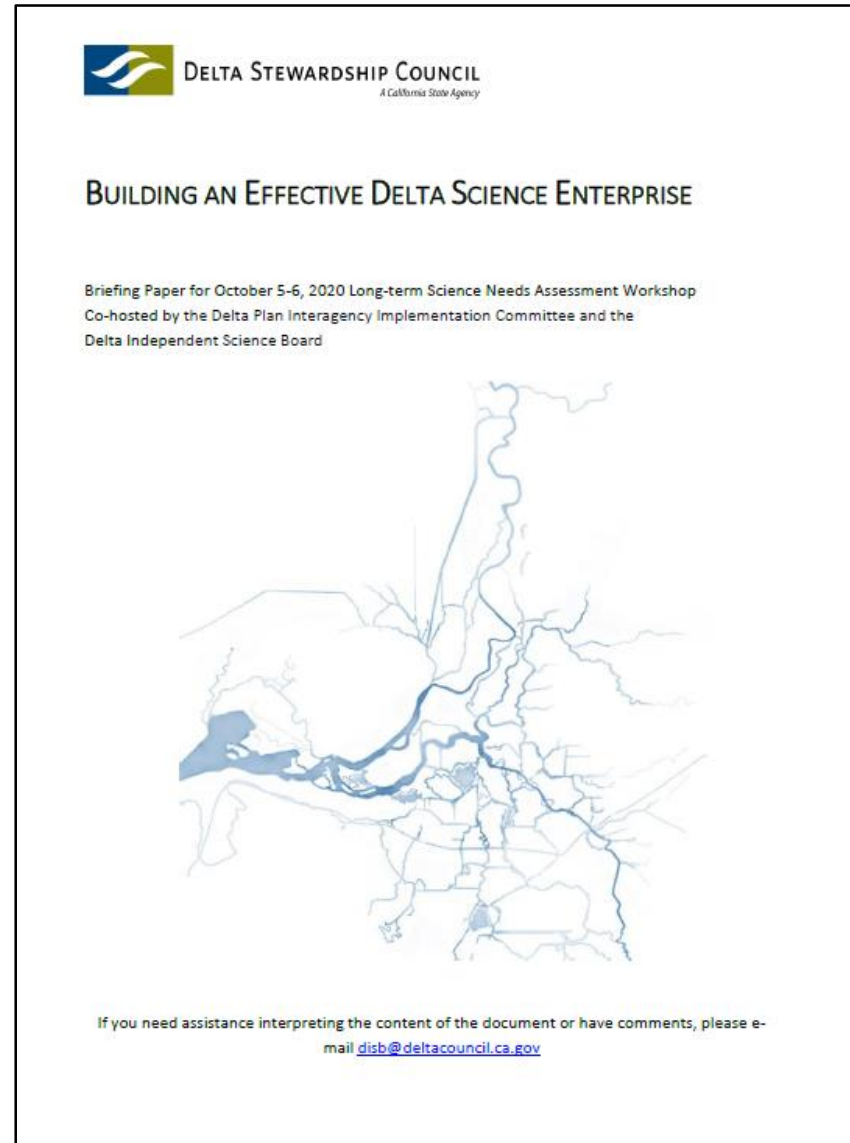
Edmund Yu, Delta Science Program

STRATEGIC SCIENCE NEEDS ASSESSMENT WORKSHOP

- Co-hosted by the Delta Plan Interagency Implementation Committee and the Delta Independent Science Board
- Advance Briefing Paper completed
- Originally scheduled for April 27 to 28
- Rescheduled for October
- Now holding 4 pre-workshop discussions to begin to address the 4 main questions posed for the workshop.

GOALS

- 1) Identify key science efforts that will provide answers and insights for likely management questions in the long-term
- 2) Discuss how to organize the science enterprise to address these complex and changing problems



DISCUSSION SERIES TOPICS

- What do we know about projected climate change impacts for the Delta? **April 28**
- What questions will that raise for management decisions? What do managers need to know? **June 3**
- What science needs to be done to give management answers? **July 28**
- What changes are needed for science governance, funding and integration to do the needed science? **September 9**

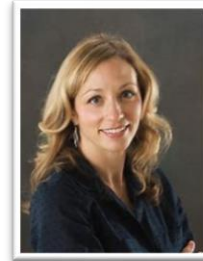
APRIL 28TH DISCUSSION SEMINAR

- Key mechanisms for Delta climate change impacts
 - Increased air and water temperature
 - Precipitation and runoff changes
 - Sea-level rise
- A range of time frames – uncertainty increases over time
- Other drivers (land use, invasive species, contaminants, etc.) and human responses are important to consider
- Forecasted impacts we know: Water quality, habitat and species, and human impacts

JUNE 3RD DISCUSSION SEMINAR

Panelist responses:

- We need community buy-in and support
- Strong science to guide prioritization of funds
- Collaboratively develop overarching set of strategic management questions to guide Delta science
- Address uncertainties to unlock necessary research questions
- A major focus on flow to create scientifically rigorous strategy for Delta conservation



Jennifer Pierre



Paul Souza



Campbell Ingram

PARTICIPANT INPUT

- **Synthesis**
 - Monitoring Information
 - Effects of Implementation Projects
- **Forecasting and prediction tools**
- **Synergistic effects of changes**
- **Prioritization with trade-offs and risks**
- **Social science perspective and integration**
- **Experiments derived from management questions**

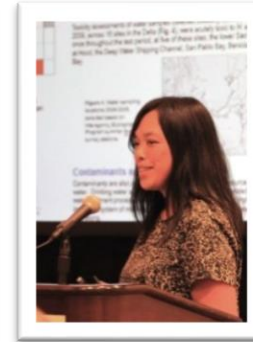
JULY 28TH DISCUSSION SEMINAR

Panelists (Delta scientists)



Louise Conrad

Delta Science
Program



Stephanie Fong

Interagency
Ecological Program



Mike Chotkowski

US Geological
Survey

1. What science is needed to support future decisions?
2. How is your science program preparing for future changes? What would you do differently?
3. Do you have strategic research goals or products that you're working on to meet managers' strategic needs?

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UPCOMING ACTIVITY

October 2020						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

- Final Discussion Seminar on September 9
- Science Needs Assessment Workshop (October)
- Stakeholder Engagement
- Feed recommendations to Science Action Agenda
- Final Report: January 2021