

RE-INITIATION OF THE MIAMI-DADE BACK BAY COASTAL STORM RISK MANAGEMENT FEASIBILITY STUDY

PUBLIC WEBINAR

Jim Murley
Chief Resilience Officer
Miami-Dade County

Michelle Hamor - Chief, Planning and Policy Branch
U.S. Army Corps of Engineers, Norfolk District
12 October 2022



US Army Corps
of Engineers®



<https://www.saj.usace.army.mil/MiamiDadeBackBayCSRMFeasibilityStudy/>



ZOOM RULES

WE WANT TO GET TO ALL YOUR QUESTIONS AND COMMENTS!

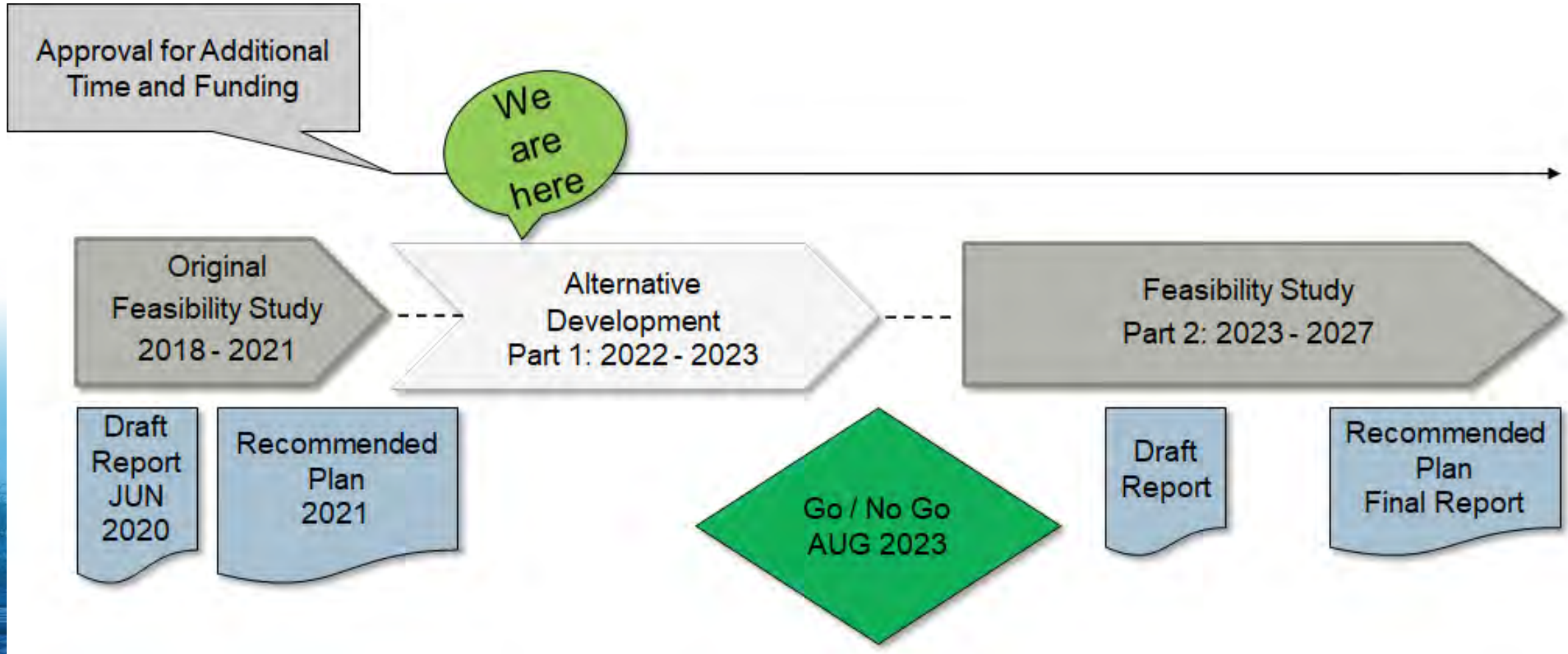
A Q+A document will be mailed to all participants following this meeting and it will be posted on the project website next week

A few ground rules to help us get to everyone:

- Please remain muted throughout the presentation and the Q+A unless you are called on.
- Please enter all questions and comments into the chat box. The moderators will be monitoring the chat and reading the questions out loud.
- If we don't get to your question during this meeting, we will answer it in the Q+A document that will be mailed out to all participants and will be posted on the project web page.

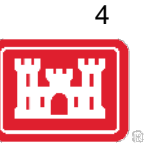


MIAMI-DADE BACK BAY CSRM FEASIBILITY STUDY: PAST TO PRESENT





MIAMI-DADE BACK BAY CSRM FEASIBILITY STUDY: PAST TO PRESENT



Milestones	Date
Feasibility Study Began	Oct 2018
Tentatively Selected Plan	Jan 2020
Release of Draft Integrated Feasibility Report and Programmatic EIS (60-day comment period)	Jun 2020
Feasibility Study Paused and Formal Request received from Miami-Dade County to extend study timeline beyond 3-years and \$3 million	Aug 2021
3-year Study Timeline expired	Oct 2021
Subsequent formal request from Miami-Dade County Mayor Daniella Levine Cava to ASA(CW)	Dec 2021
Time and Funding Request approved by Assistant Secretary of the Army for Civil Works (ASA(CW))	Aug 2022



STUDY BACKGROUND AND OBJECTIVES



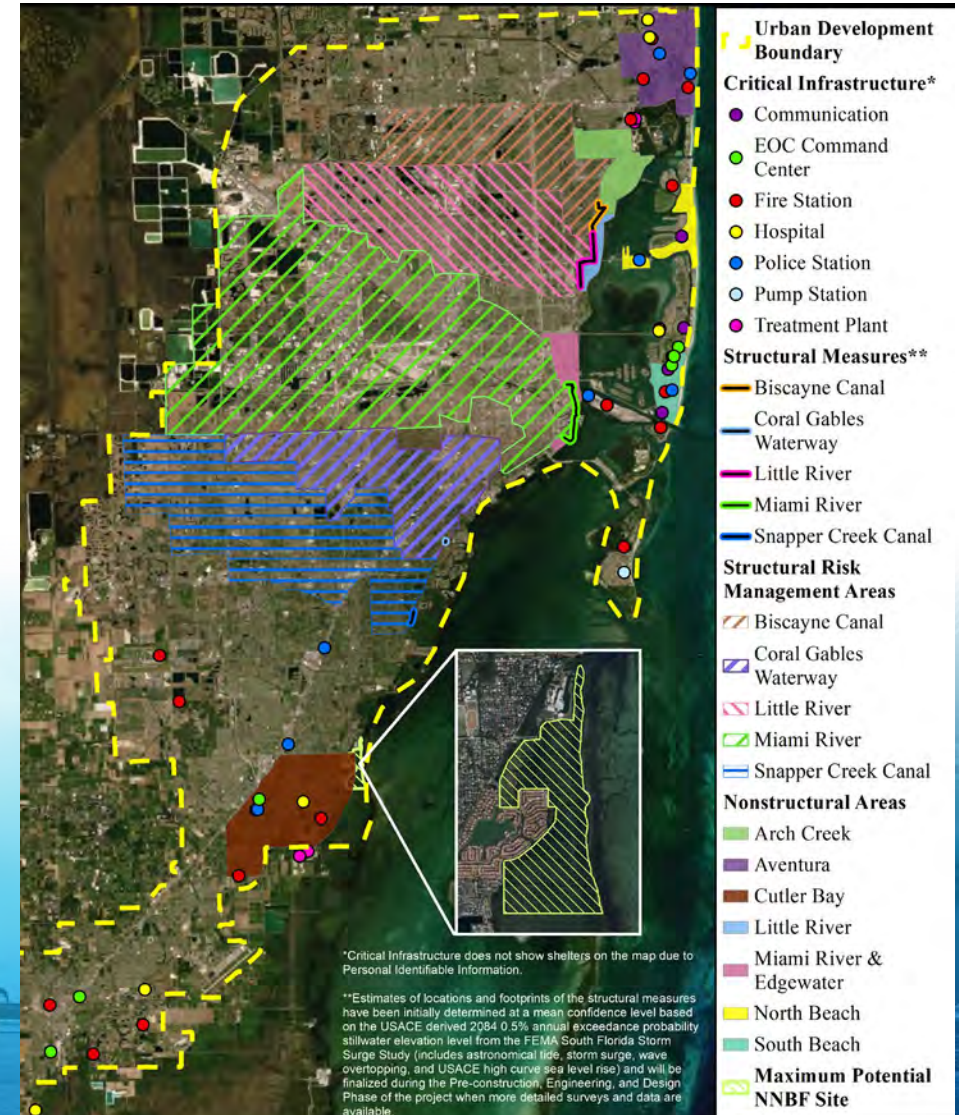
- *Study Purpose:* To reduce coastal storm risk through the implementation of coastal storm risk management (CSRM) measures designed to reduce potential damage caused by coastal storms, including preventing loss of human life. This study is a response to the study authority (Public Law 84-71, June 15, 1955) and will develop and evaluate CSRM measures for Miami-Dade County.
- *Study Objectives:*
 - Increase the resilience of Miami-Dade County to function effectively before, during, and after coastal storm events by decreasing the vulnerability of critical infrastructure to flooding damages from sea level rise and storm surge.
 - Reduce economic damages to structures in communities vulnerable to severe flooding damages from sea level rise and storm surge.
 - Incorporate natural and nature-based features (NNBFs) to reduce flood damages and complement the recommended nonstructural and structural measures
- Seven strategic focus areas were selected: Arch Creek, Aventura, Cutler Bay, Little River, Miami River, North Beach, and South Beach. Critical infrastructure included throughout the County.



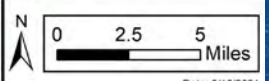
RECOMMENDED PLAN (2021)



- **Structural Measures:** Storm surge barriers with associated floodwalls, pump stations, and tide gates at Biscayne Canal, Little River, Miami River, Coral Gables Waterway and Snapper Creek Canal.
- **Nonstructural Measures:** Elevating residential homes and floodproofing non-residential buildings
- **Dry floodproofing critical infrastructure** such as fire and police stations, medical facilities, evacuation centers, potable water facilities, and pump stations (250 locations)
- **Natural and Nature-Based Features (NNBFs):** Mangrove and coastal wetland restoration at Cutler Bay



Miami-Dade Back Bay
Coastal Storm Risk Management Feasibility Study
Recommended Plan





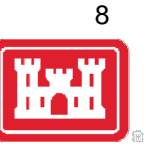
STAKEHOLDER COMMENTS



- General concerns with proposed structural measures: aesthetic concerns; environmental harm to Biscayne Bay; equity concerns and “winners and losers” associated with proposed structural measures; floodwalls would bisect communities, potential impacts to navigation and recreational access
- Limited inclusion of NNBFs and green infrastructure
- A need to assess flood risk more holistically and consider the existing Central and Southern Florida Flood Control System
- Critical Infrastructure List should be expanded



RE-INITIATING THE MIAMI-DADE BACK BAY CSRM FEASIBILITY STUDY: TWO PARTS



PART 1: 12 months

Objective: In coordination with Miami-Dade County, develop an additional alternative that supports the study objectives and sufficiently compares in performance to the Recommended Plan. The alternative would integrate and refine measures of the Recommended Plan that received broad support and modify/replace measures that raised local concerns.

The alternative may include the following:

- Hybrid structural/NNBF measures to reduce coastal storm surge risk at Miami River; more NNBFs in general
- Nonstructural measures in Biscayne Canal and Little River in place of structural measures (i.e. surge barrier/floodwall)
- An evaluation of additional areas of the community where nonstructural measures could be incorporated within the existing focus areas
- Additional critical infrastructure



RE-INITIATING THE MIAMI-DADE BACK BAY CSRM FEASIBILITY STUDY: THE NEXT 12-MONTHS



Milestones		Date
Public Meeting (Virtual)		Oct 12, 2022
Briefing to City of Coral Gables		Oct 13, 2022
Briefing to Village of Miami Shores	P A R T 1 ↓	TBD
Briefing to Biscayne Bay Water Management Advisory Board		Oct 25, 2022
USACE Leadership Meeting with Mayor Cava		Oct 26, 2022
Charrette Overview (Virtual)		Nov 2, 2022
Charrette in Miami-Dade County		Nov 14-18, 2022
Monthly Interagency Meetings		Sept 2022 - July 2023
Quarterly Public Updates		Jan 2023 – Jul 2023
12-month check-in with ASA(CW)		Aug 3, 2023



DRAFT CHARRETTE AGENDA

NOVEMBER 14 - 18



	Monday	Tuesday	Wednesday	Thursday	Friday
Morning		Site Visit - Miami River	Site Visit - Miami Shores	Focus: Natural and Nature-Based Features - Cutler Bay	Wrap-up Meeting and next actions (Hybrid)
Afternoon	Kick-off Meeting (Hybrid), Leadership Opening Remarks	Charrette: Miami River Focused	Charrette: Nonstructural	Charrette: Natural and Nature-Based Features	
Evening	Public Meeting				





RE-INITIATING THE MIAMI-DADE BACK BAY CSR FEASIBILITY STUDY: PART 2



Milestones		Date
12-month check-in with ASA(CW)		Aug 3, 2023
Feasibility Study Kick-off, additional analysis, public scoping, etc.	P A R T 2	TBD
Monthly Interagency Meetings		TBD
Tentatively Selected Plan		TBD
Published Draft Report		TBD
Agency Decision Milestone		TBD
Published Final Report		TBD
Chiefs Report		Aug 3, 2027



COORDINATION EFFORTS

- **USACE Engineering With Nature Program**

- Engineering With Nature ® is the intentional alignment of natural and engineering processes to efficiently and sustainably deliver economic, environmental, and social benefits through collaboration.



- **Coordination with Other USACE Studies/Projects**

- Miami-Dade CSRM Study (Beach)
- Biscayne Bay and Southeastern Everglades Ecosystem Restoration (BBSEER) Project
- Biscayne Bay Coastal Wetlands (BBCW)
- Miami Harbor Navigation Improvement Study
- Central & South Florida (C&SF) Flood Resiliency Study

- **Public Engagement**

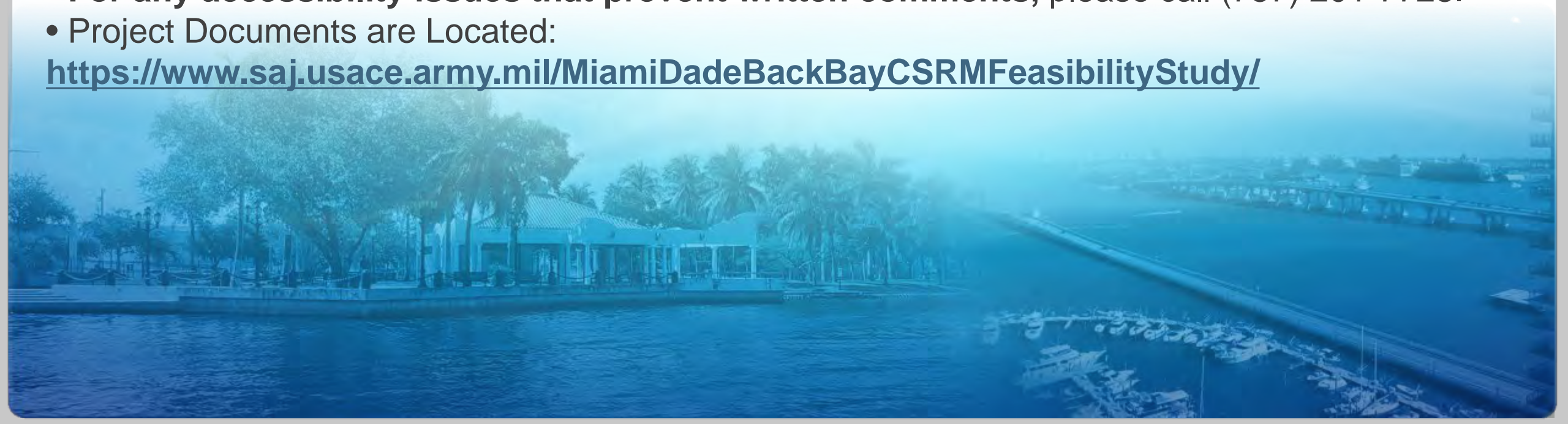
- Coordinating with Miami-Dade County over coming weeks/months for joint communication.
- Website update and draft public comment tool <https://arcg.is/0ub0Cf>



PUBLIC COMMENT OPTIONS



- **Email:** MDBB-CSRStudy@usace.army.mil
- **Public Crowdsourcing Reporter Tool:** <https://arccg.is/0ub0Cf>
 - Tool open until October 31, 2022
- **Written Comments:**
 - Environmental Analysis Section, Norfolk District
 - 803 Front Street
 - Norfolk, Virginia 23510
- **For any accessibility issues that prevent written comments, please call (757) 201-7728.**
- Project Documents are Located:
<https://www.saj.usace.army.mil/MiamiDadeBackBayCSRFeasibilityStudy/>





ZOOM RULES

WE WANT TO GET TO ALL YOUR QUESTIONS AND COMMENTS!

A Q+A document will be mailed to all participants following this meeting and it will be posted on the project website next week

A few ground rules to help us get to everyone:

- Please remain muted throughout the presentation and the Q+A unless you are called on.
- Please enter all questions and comments into the chat box. The moderators will be monitoring the chat and reading the questions out loud.
- If we don't get to your question during this meeting, we will answer it in the Q+A document that will be mailed out to all participants and will be posted on the project web page.