

Tuesday, October 25, 2022 from 12 pm to 1 pm

Committee's Core Mission and Function – To organize and facilitate outreach opportunities allowing ECB membership to stay informed and promote sustainable engineering practices.

- 1. Call to Order & Approval of Agenda
- 2. Introductions
- 3. Meeting Minutes / Action Items September 2022 Minutes (David) approved
 - Aimee PureCycle noted pickleballs are #4 plastic (LDPC) & does not work with PureCycle. Can reach out to Publix to see who recycles their #4 plastic bags. Aimee can reach out with **Keits** CCed. (brian.donnelly@publix.com; michael.hewett@publix.com)
 - Potential for an event, awareness, partnership potential as it progresses. Including an event and marketing tied with Publix.
- 4. News from the Branch / Section / Society (Melissa / Steve)
 - ECB Hurricane Ian Relief Effort Fund raising drive for Feeding America food bank in Fort Myers. Donations on website with ASCE branding and competition between branches. Site is live but email has not been sent. ECB to host Happy Hour event for fundraising. More details to come. **Melissa** to follow up.
 - ECB Golf Tournament Rescheduled for Fri 12/16 at Celebration Golf Club
 - ECB Special Topic: Orange County Sales Tax Ballot Measure (Fraser) no updates
 - ECB Icebreaker scheduled May 11, 2023 at OCS
 - Section
 - Goal of getting every branch to have a representative at the Section's monthly Sustainability meetings
 - Contacted about helping form procurement language for municipalities
 - o Section-level Sustainability Project award. Criteria in Draft form planned to be advertised in 2023. Can start brainstorming projects to nominate. Steve provided draft of criteria, included in minutes.
 - Society Resources (Free Virtual Events)
 - Society SLC Meeting (TBD) (Anna or Rex) discussion of awards application prep

5. Events

- September 26-30 Stormwater Awareness Week (Anna)
- October 19 ECFRPC CDBG-MIT Meeting (Steve)
 - Establishing Statewide Regional evacuation study; Steve provided ASCE resources on the existing standards on hazard reduction. Steve provided slides, included in minutes.
- Nov 10 Environmental Excellence (E2) Day with METRA. In-person event: Winter Park Events Center. https://www.metra.org/ (\$35 fee)
- November Society offering discounted ENV SP training and test No updates
- Fall Possible joint event with EWRI for City of St Augustine Resiliency Tour
- TBD Fix It, Don't Pitch It event to be rescheduled, **Aimee** to update.
- 6. Committee Finances (ECB accounting code 6505) (Madeline)
 - Account Balance (\$400) no changes
- 7. Newsletter Content (Anna / Steve)
 - October sent out on 10/10
 - November Ideas Due by 11/04
 - Events?
 - 10/29 10am-2pm DEA National Rx Take Back Day Search website for location nearest to you. (alternative link)
 - November 15 17, 2022 [times vary] ISI Virtual Conference 2022: Expecting More, Register for free online.
 - 11/10 E2 Day with METRA (see above)
 - Interesting Reads?



FLORIDA SECTION Sustainability Committee Meeting

Tuesday, October 25, 2022 from 12 pm to 1 pm

- Stormwater Awareness Week video link https://www.stormwaterawareness.org/2022recordedworkshops
- All Fifty States Greenlit to Move EV Charging Networks Forward
- Carrie Black welcome article: Orange Co newsroom.
- Spotlight
 - Spotlight Ideas: Jennifer Rupert (ECFRPC), Sara Miller (City of Winter Park), Chris Castro (Fmr. City Sust; New Federal role), Carrie Black (New County Sustainability Officer).
- Invite to join committee and/or mailing list
- 8. Old / New Business / Agenda Items for next month
 - Next Committee Meeting November 29, 2022.
 - December meeting to be skipped.
 - Develop list of questions for sustainable / resiliency and coordinating events/venues –
 David & Anna Goal to submit to ECB in early 2023. All committee to review for Nov meeting.
 - Anna/Keits to develop concepts for ASCE Sustainability Banner for marketing.
 - FYI/Reminder: Committee Roster, Partners, and Spotlight Ideas:_ https://docs.google.com/spreadsheets/d/15fya7b65aqLwkxlsMdoxeih7x_8BhLbF3nDqlp0 34cE/edit?usp=sharing
 - David tracking, potentially add to Earth Month (April) ECB newsletter as a highlight in the opening remarks.
 - Sustainability Mailing List Update 47 subscribers. Continue to get the word out. Goal of 60 by end of 2022!
 - Click / Share link to join mailing list: https://lp.constantcontactpages.com/su/zfLM8Fh?source_id=61bb845f-011f-45e2-9dbd-cd1bf107af90&source_type=em&c=-1fcNWPJGlppO7EMkZfAaVzvwx01S15k1ISUP3mNhEJUqH4PLR8_kA==

Committee Members / Meeting Attendees:

- 1. Steve Sommerfeldt (Chair) Present
- 2. Melissa Burns (BOD Rep) Present
- 3. David Klawitter (Secretary) Present
- 4. Anna Pepper (Newsletter Content) Not Present
- 5. Madeline Batey (Treasurer) Present
- 6. Kiets Miller (Special Events) Not Present
- 7. Rex Robinson (USDA NRCS Civil Engineer) Not Present
- 8. Catherine Felter Not Present
- 9. Julia Felter Not Present
- 10. Fraser Howe Not Present
- 11. Ethan Kelly Present
- 12. JR Rodriguez (EWRI) Not Present
- 13. Aimee Kirvan (Orange Co EPD) Present
- 14. Nash Glidewell (Past Space Coast Branch Sustainability Chair) Not Present
- 15. Jenifer Rupert (ECFRPC Regional Resilience Officer) Not Present



2022 Annual Awards

Sustainable Project of the Year

Purpose: To recognize creativity in the form of innovative sustainability on civil engineering projects in a

Branch's geographic area and submit projects for consideration by the Awards Committee for the

Section Project of the Year Award.

Award: The Award shall consist of a plaque suitably inscribed, to be presented at the Section Annual Meeting.

Selection Procedure: All nominees for consideration for Sustainable Project of the Year Award must be submitted by a

Branch and must be a predominantly civil engineering project within the geographic boundary of the

Branch.

The nomination package shall not exceed a total of five pages, including the Nomination Form (first page). As this award seeks to recognize built infrastructure projects, nominations of plans, drawings

or other pre-construction documents are not eligible.

The Chairman of the Awards Committee will solicit nominations for Sustainable Project of the Year and provide members of the committee with copies for review and ranking. The Chairman will advise the Board no later than July 1 that a nomination has been selected to receive the award. The Chairman shall be responsible for obtaining the award plaque, with the assistance of the Section office. The Chairman shall also be responsible for encouraging the owner of the project and the civil engineer of record to attend the annual meeting where the award will be presented.

Selection Criteria: The award will be based on the civil engineering excellence according to the following guidelines:

	The extent to which innovative design or construction methods improve economic, social, and environmental sustainability	25 %
•	The promise shown by innovation to extend future developments in sustainability which may be evidenced in part by Envision rating and/or institute, section, or branch awards	25 %
•	The degree to which the project extends public at the planning, design, construction, and operations stages in the development of the project	25 %
•	Collaboration was an important aspect of the project as demonstrated by significant participation by other disciplines on the team	25 %





Jenifer Rupert

John Mulhall

🔏 John Mulhall

Manuel Soto

Manuel Soto

Tessa Barnard





Multi-Regional Planning & Mitigation Assessment



Mitigation Assessment and Planning through **Regional Collaboration**

East Central, Treasure Coast, Northeast, Tampa Bay, Central, North Central RPCs































You are viewing Jenifer Rupert's screen View Options ~ Zoom Meeting \bigcirc Tessa Barnard Jenifer Rupert John Mulhall Manuel Soto 🔏 John Mulhall Manuel Soto 🔏 Tessa Barnard 🗶 Steve Sommerfeldt Jenifer Rupert Agenda Regional Planning Council Overview and Collaborative Approach **Project Overview and Purpose Project Goals and Value Project Activities** Extreme Future Rainfall Impact Update Multi-Regional Planning and Mitigation Assessment Overview Regional Project List Criteria Input **Next Steps Questions and Discussion** This Photo by Unknown Author is licensed under CC BY-SA Whiteboards

□ Zoom Meeting View Options Vi





Jenifer Rupert

Jenifer Rupert

John Mulhall

🔏 John Mulhall

Manuel Soto

Manuel Soto

Tessa Barnard

🔏 Tessa Barnard





Regional Planning Council Overview and Collaborative Approach

10 RPCs across the state





- Power and strength of regional collaboration
- Success in Statewide Projects
- Teams of subject matter experts











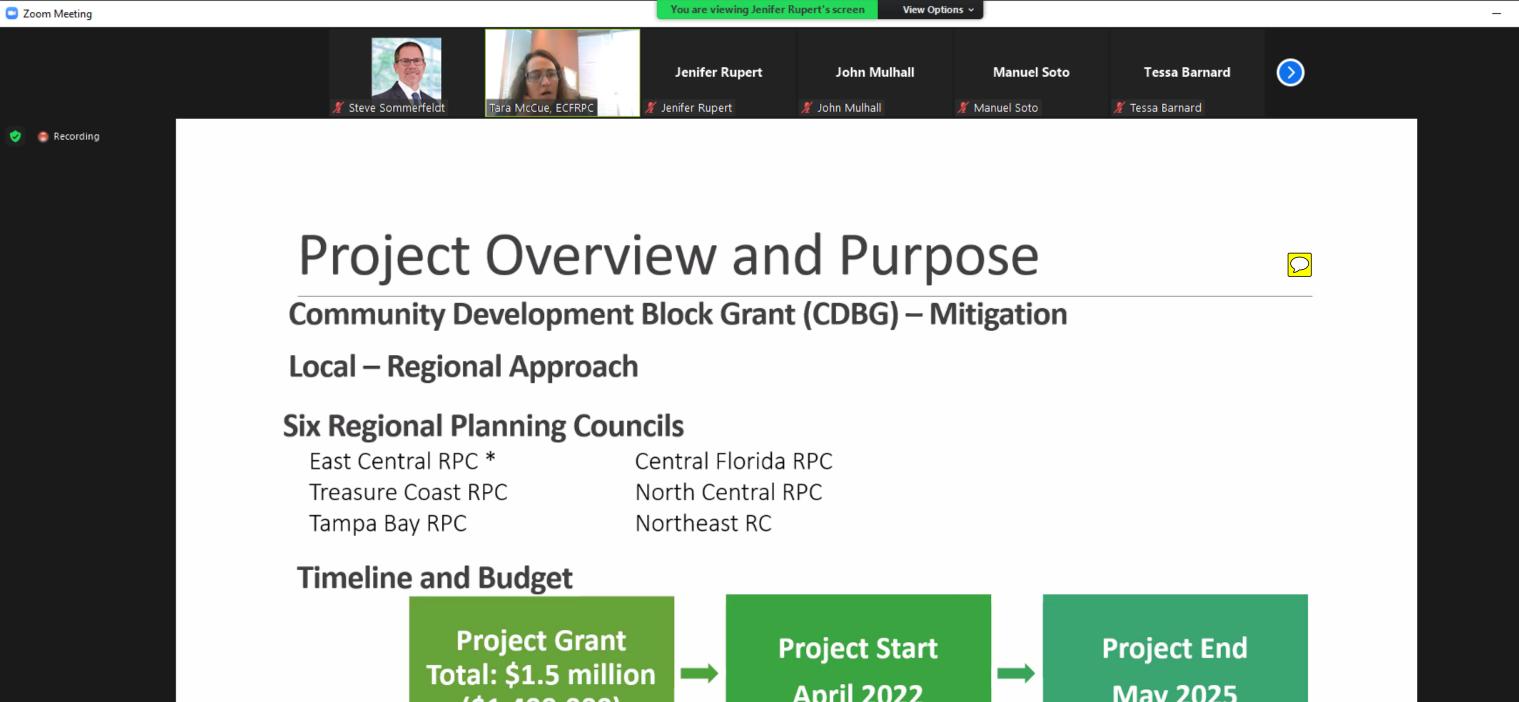












(\$1,499,000)

April 2022

May 2025









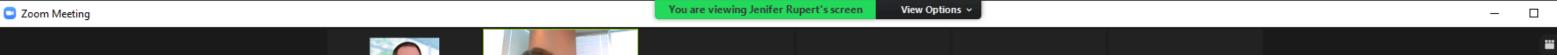
















Jenifer Rupert

John Mulhall

🔏 John Mulhall

Manuel Soto

Manuel Soto

Tessa Barnard

🔏 Tessa Barnard





Project Purpose

- Peril of Flood Legislation
- Resilient Florida Legislation
- Coastal Focus & Inland Need
- Regional Resilience Entities
- Funding



This Photo by Unknown Author is licensed under CC BY

Whiteboards









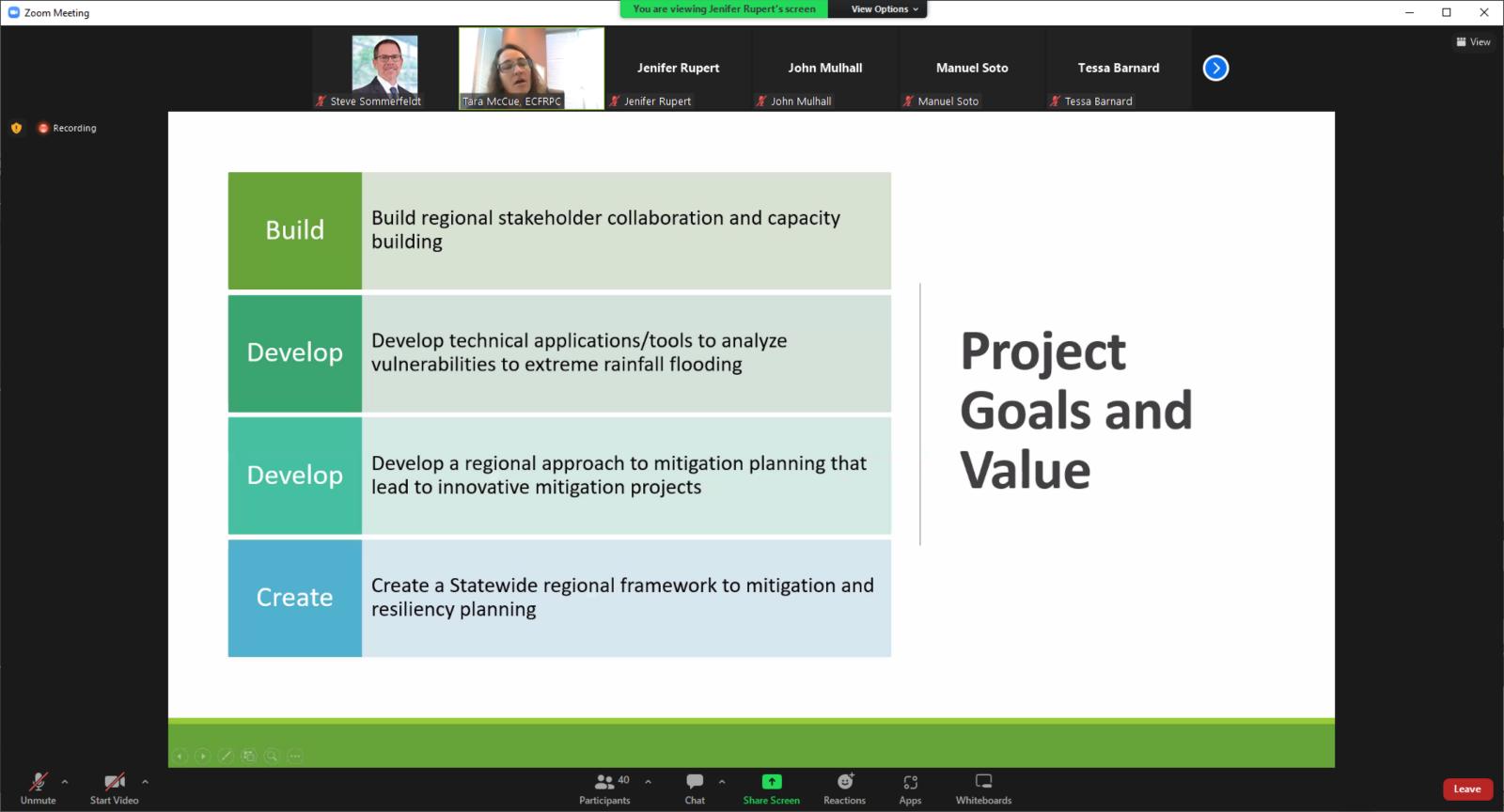
















Jenifer Rupert

John Mulhall

🔏 John Mulhall

Manuel Soto

Manuel Soto

Tessa Barnard

🔏 Tessa Barnard





Project Value

- Addresses an unmet need by examining impacts of flooding hazards to inland counties and portions of counties not exposed to coastal flooding.
- > Builds capacity in the <u>regional</u> resilience planning process throughout the State, across disciplines and sectors in local government, business, and community populations.
- > Updates State Partners on mitigation planning and projects, and mitigation strategies and needs of multiple regions.
- > Supplements county and city preparedness plans, and supports mitigation plans that house risk and vulnerability information.

CEMPs - Comprehensive Emergency Management Plans and hazard specific plans

CRS - Community Rating System (NFIP) establishing need and prioritizing projects

LMS - Local Mitigation Strategy

Post-Disaster Redevelopment Plans (PDRPs) - Enhances long-term Recovery and Action Plan Strategies

- > Advances communities to comply with state legislation
- **Positions** projects for funding opportunities















□ Zoom Meeting View Options Vi







Jenifer Rupert

John Mulhall

🔏 John Mulhall

Manuel Soto

Manuel Soto

Tessa Barnard

🔏 Tessa Barnard







Project Activities

- Stakeholder Engagement
- Extreme Future Rainfall Impacts
- Regional Mitigation Needs Assessment
 Regional Mitigation Project List
 Mitigation Priority Areas
- Conceptual Small Area Mitigation Plans
- Interactive Mitigation Based Best Practice Application
- Regional Resilience Exposure Tool





















Jenifer Rupert

John Mulhall

🔏 John Mulhall

Manuel Soto

Manuel Soto

Tessa Barnard

🔏 Tessa Barnard







Extreme Future Rainfall Impacts

- Technical Advisory Meetings
 - > April
 - Floodplain managers, water management districts, climatologists, etc.
 - Duration and frequency
 - Climate model discussions
 - On-going
 - FDEP, SFWMD, Flood Hub, UF, FIU, USF, RPCs
 - Finalizing approach for climate model and change factors
 - Duration / Frequency Anticipate 100 year/24 hour















You are viewing Jenifer Rupert's screen View Options ~ Zoom Meeting







Manuel Soto

Tessa Barnard







What it is:

A Planning and Spatial Analysis framework for the identification and delineation of areas potentially exposed to the impacts of extreme rainfall, at scales relevant for statewide, regional, and local agencies.

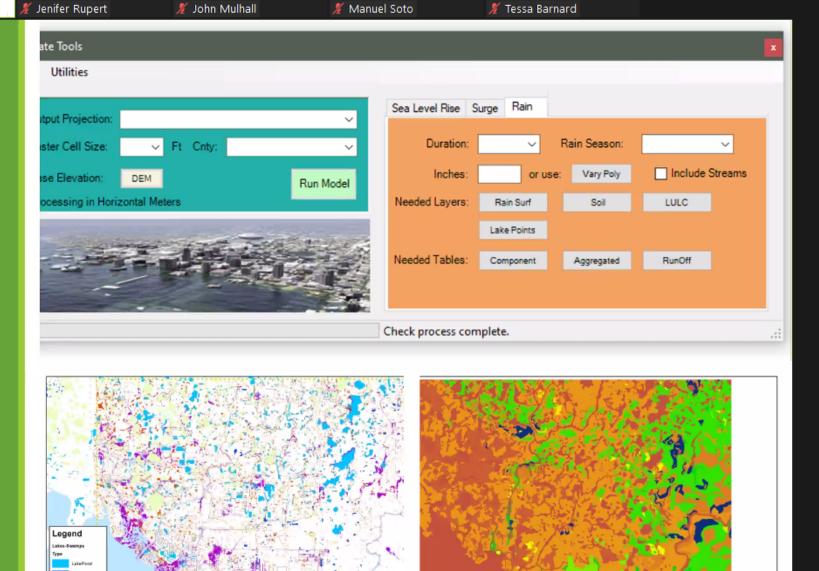
Objectives include:

Development of a tool and application to generate, visualize and summarize areas exposed to extreme rainfall events and projected inundation/flooding effects from these events.

A process for prioritizing exposed areas for detailed analysis, characterization, and mitigation.

What it is not:

A framework for site level design, engineering, and construction.



















W View

You are viewing Jenifer Rupert's screen View Options ~ Zoom Meeting





Jenifer Rupert

Jenifer Rupert

John Mulhall

Manuel Soto

Tessa Barnard



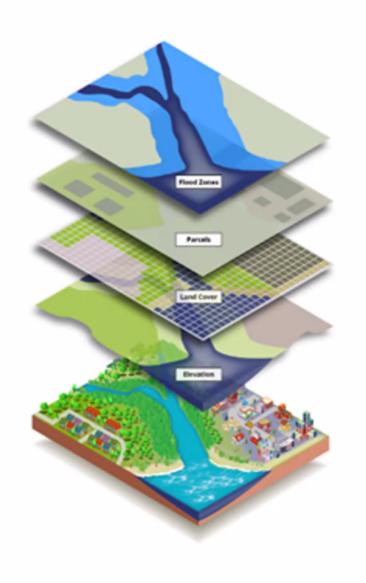






🔏 Tessa Barnard





GIS Analysis

Flood layer focus

- Extreme rainfall flood areas
- Other flood data (floodzones, floodways, water bodies, etc.



- SLR
- Surge

Regional critical assets

Result: Vulnerability assessment































🔏 John Mulhall



Manuel Soto



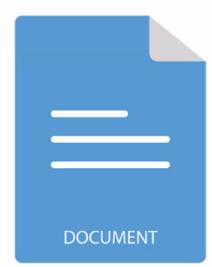
🔏 Tessa Barnard





Regional Mitigation Needs Assessment

- Regional Context
- Assessment Methodology and Vulnerability Findings (Future Extreme Rainfall, Flood Impacts)
- Current Capacity: Flood Mitigation Strategies/ Pathways
 - Federal , State, Regional & Local
 - Other Relevant Plans & Programs
- Gaps in Current Capacity (Stakeholder Input) <a>C
- Funding
- Implementation Strategies
- Regional Priority Areas and Regional Project List























Jenifer Rupert

John Mulhall

🔏 John Mulhall

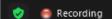
Manuel Soto

Manuel Soto

Tessa Barnard

🔏 Tessa Barnard





Regional Stormwater Mitigation Project List Criteria



Multi-jurisdictional

Serves under represented communities

Co-benefits (hazard reduction and recreation)

Show ability to contribute financial

https://survey123.arcgis.com/share/63f84b1a7eca4af099f254f 0f312410a











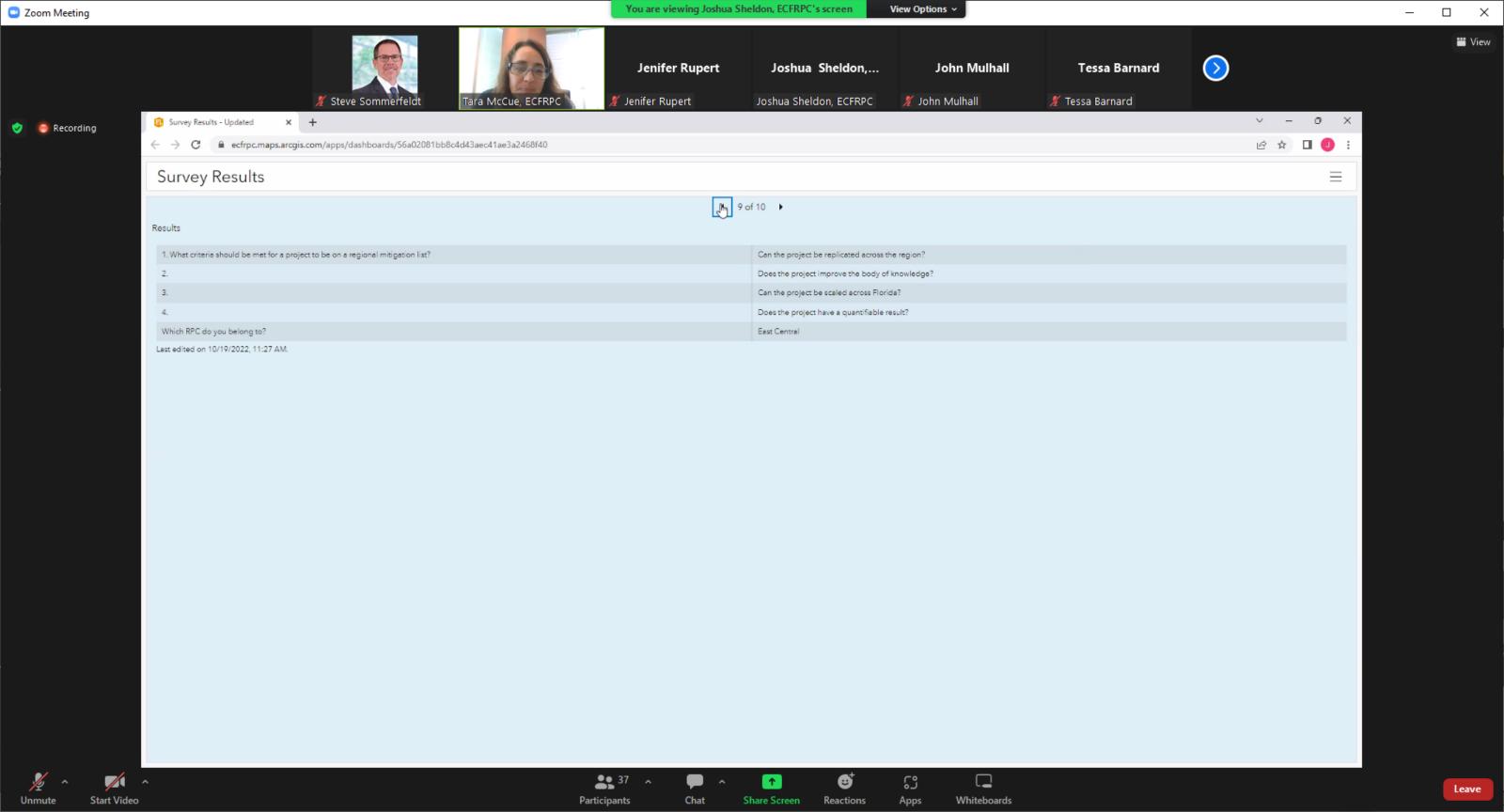








Whiteboards



■ Zoom Meeting





Jenifer Rupert

Jenifer Rupert

Joshua Sheldon,...

Joshua Sheldon, ECFRPC

John Mulhall

🔏 John Mulhall

Tessa Barnard

🔏 Tessa Barnard







Mitigation Best Practice Website

- Policies/ Codes/ Ordinances
- Plans and Manuals
- Projects (Traditional and Green)

➤ Do you have any recommendations of projects, policies or plans that should be included?



This Photo by Unknown Author is licensed under CC BY-NC







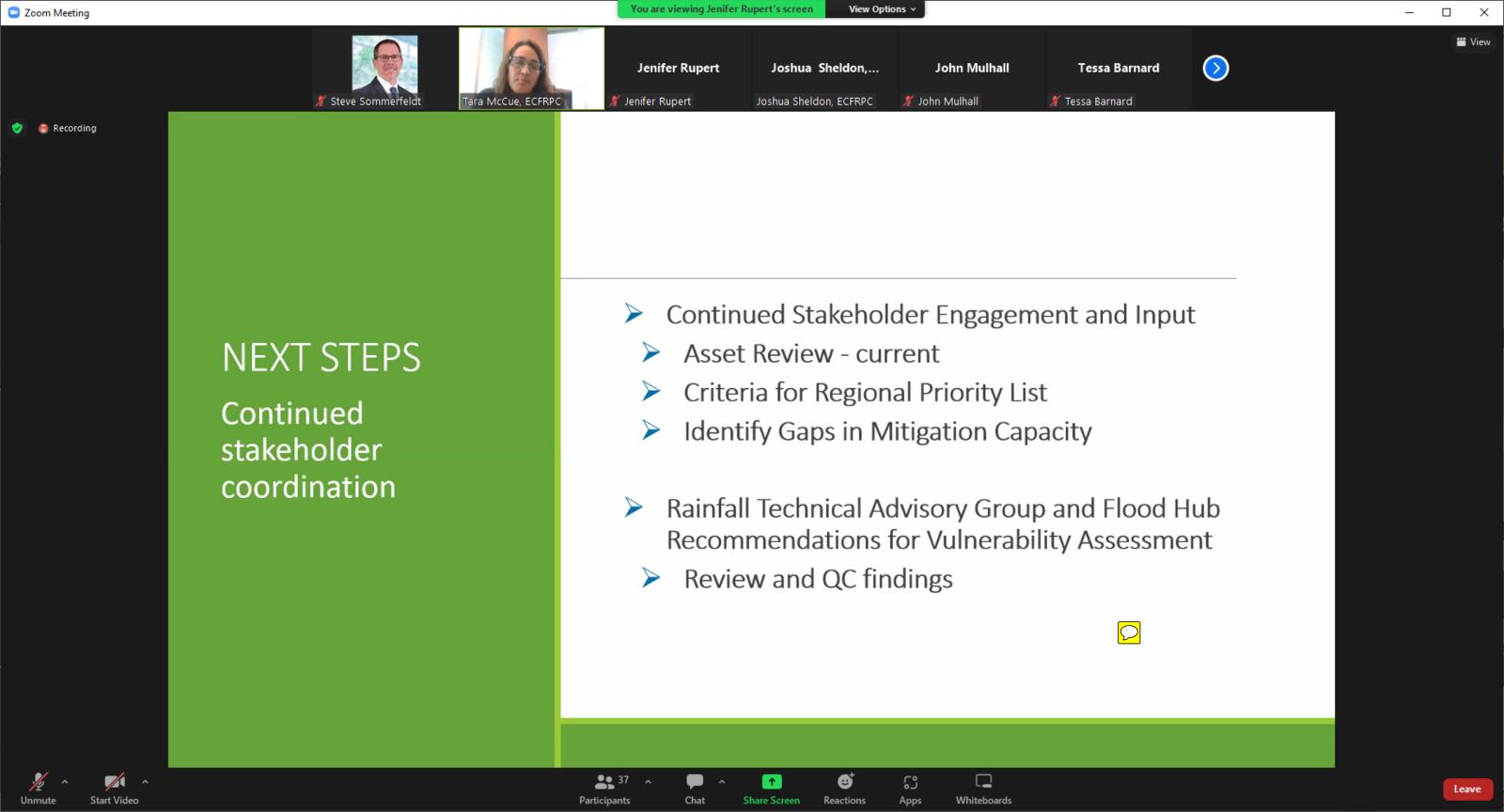
















Joshua Sheldon,...

John Mulhall

Tessa Barnard







Joshua Sheldon, ECFRPC

🔏 John Mulhall

🔏 Tessa Barnard









Ashley Mott (Ashley@tbrpc.org) Jenifer Rupert (jrupert@ecfrpc.org)





Curtis Knowles (cknowles@cfrpc.org)

Fara Ilami (filami@nefrc.org)



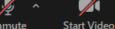


Lauren Yeatter (yeatter@ncfrpc.org)

Kate Boer (kboer@tcrpc.org)





















View























RISK = **Threat** * Vulnerability * Severity of Consequences

🔏 Joshua Sheldon, ECFRPC 🛮 🥻 Sarah Kraum

100 - Year Flooding

Tara McCue, ECFRPC

- Flash Flooding
- Sea Level Rise
- **Storm Surge**
- Severe Storms
- **Hurricane Wind**
- Earthquakes
- **Droughts**
- Wildfire
- 10. High Temperatures
- 11. Low Temperatures
- 12. Winter Weather
- 13. Tornadoes
- 14. Wind Events
- 15. Hail
- 16. Lightning
- 17. Sinkholes
- 18. Fog

Non-climate related, not collected sub-county, or possibly not freely available (possible inclusion)

🔏 John Mulhall

- **Transportation Accidents**
- **Hazardous Material Spills**
- Cyber incidents
- Civil unrest
- Mass shooting
- **Pandemic**
- Mass population surge
- Pollution
- Acts of Terror





















You are viewing Jenifer Rupert's screen View Options ~ Zoom Meeting



Tara McCue, ECF...

Jenifer Rupert

Joshua Sheldon,...

Sarah Kraum

John Mulhall





🔏 Tara McCue, ECFRPC

Jenifer Rupert

🔏 Joshua Sheldon, ECFRPC 🛮 🄏 Sarah Kraum

🔏 John Mulhall



Critical Assets

Lifelines















	FEMA Lifeline Category	Variable	FL Stature Required
	Safety and Security	Law Enforcement	Yes
		Prisons/Correctional Facilities	Yes
		Fire/EMS	Yes
		Military Installations	Yes
		Local Govt Services - Courthouses	Yes
		State Government Facilities	Yes
		Local EOCs	Yes
		Community Safety - Convention	
		Centers/Fairgrounds	
		Public Schools	Yes
		Private Schools	Yes
		Colleges and Universities	Yes
		Mobile Home Parks	
		Places of Worship	
		Nursing Homes	
	Food, Water, Shelter	Food Stores	
		Nutrition Sites	
		Water Treatment and Water Supply	Yes
		Pump/Lift Stations	Yes
		Water Utility Convenance Systems	Yes
		Affordable Public Housing	Yes
		Shelter	Yes

FEMA Lifeline	Variable	FL Stature
Category		Required
	Roadways	Yes
	Railway	Yes
	Railway facilities	Yes
	Railroad bridges	Yes
Transportation	Aviation	Yes
	Bridges	Yes
	Bus Terminals	Yes
	Ports	Yes
	Marinas	Yes
	Toxic Release Inventory Sites	Yes
Hazardous	Superfund Sites	Yes
Materials	Solid Waste	Yes
	Wastewater Treatment	Yes
Emergency	Disaster Debris Management Sites	Yes
Management	Disaster Recovery Centers	Yes
Functions	Logistical Staging Areas	Yes
	Conservation Lands	Yes
Natural, Cultural,	Parks	Yes
and Historic	Shorelines	Yes
	Surface Waters	Yes
Resources	Wetlands	Yes
	Historical and Cultural Assets	Yes
Health &	Medical Care	Yes
Medical	Emergency Medical Service Facilities	Yes
iviedicai	Hospitals	Yes
	Electric Production and Supply Facilities	Yes
Energy	Substations	Yes
	Gas Stations	
Communications	Communication Facilities Communication Lines	Yes
	Cellular Towers	Yes
& Finance	Banks and Finance	

🕏 🦲 Recording





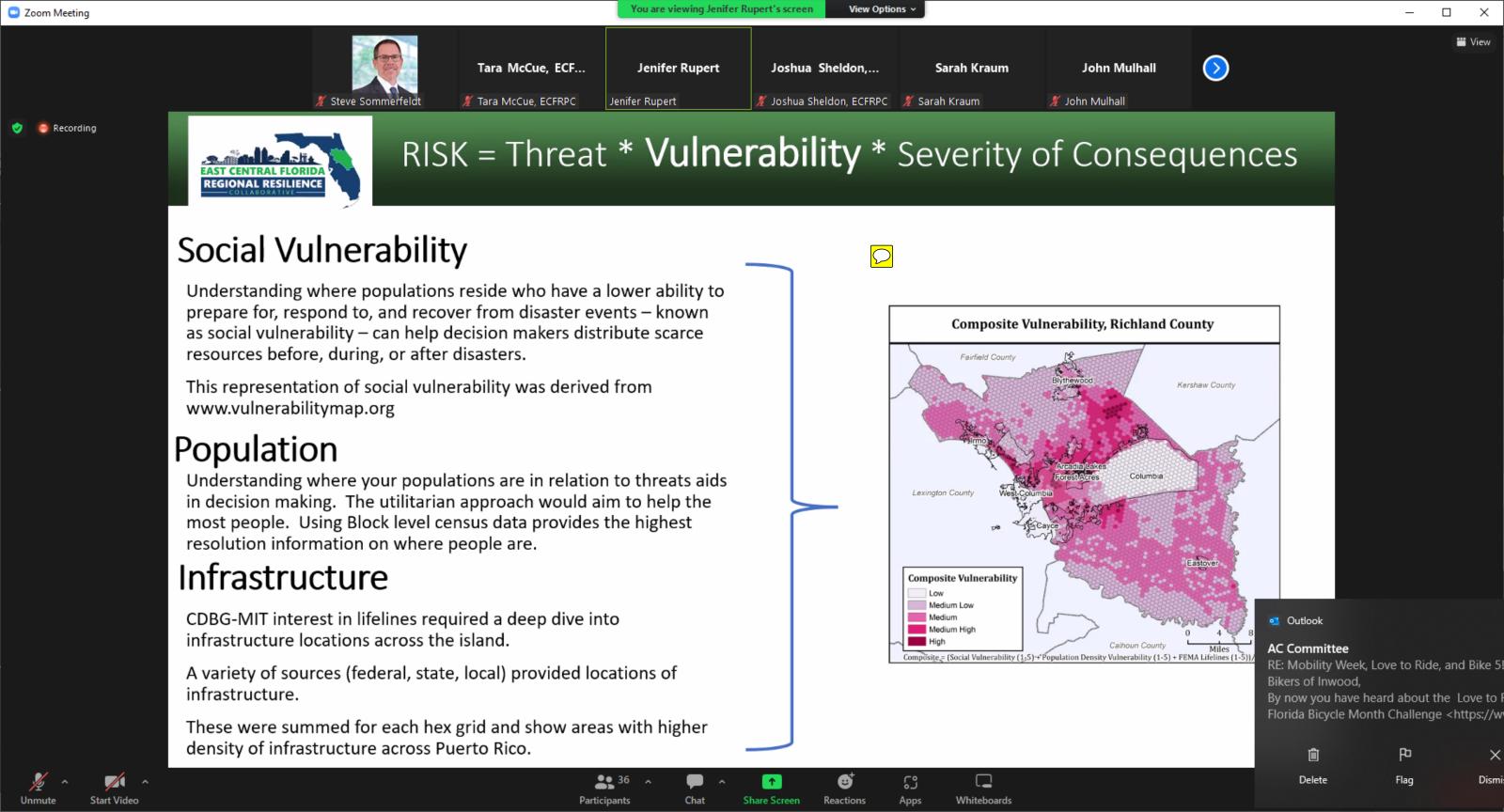


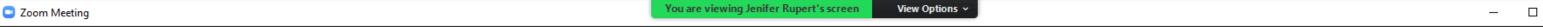




×

₩ View







Tara McCue, ECF...

Jenifer Rupert

Joshua Sheldon,...

Sarah Kraum

John Mulhall





Jenifer Rupert

Joshua Sheldon, ECFRPC

🔏 Sarah Kraum

🔏 John Mulhall



Gaps in Stormwater Capacity Survey

As we wait, for everyone to join us, if you have not taken the "Gap in Stormwater Capacity Survey", please take this opportunity to provide your feedback.



https://arcg.is/1i9XW















