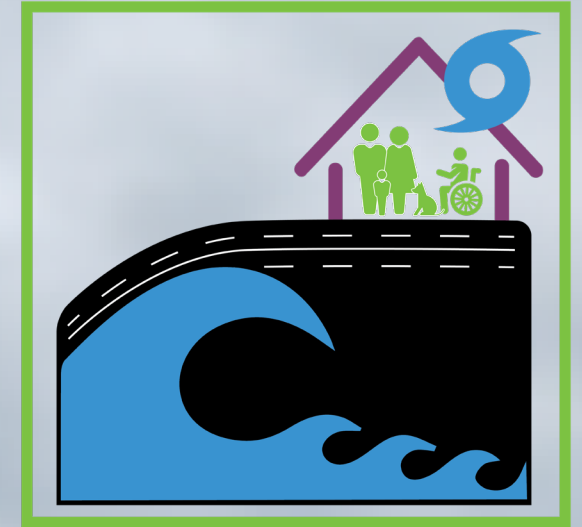


The Open House will begin at 4:30 p.m.

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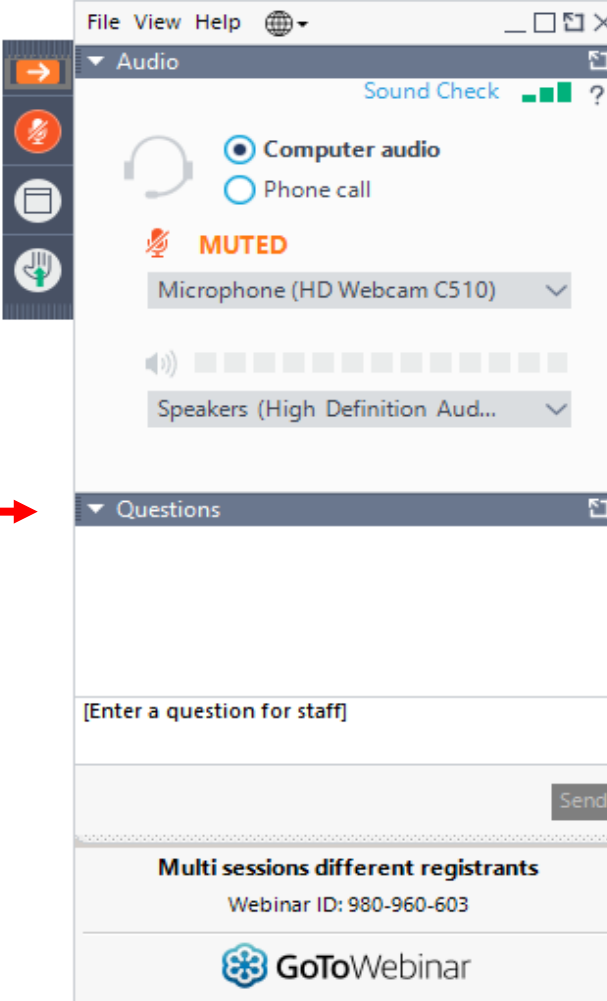


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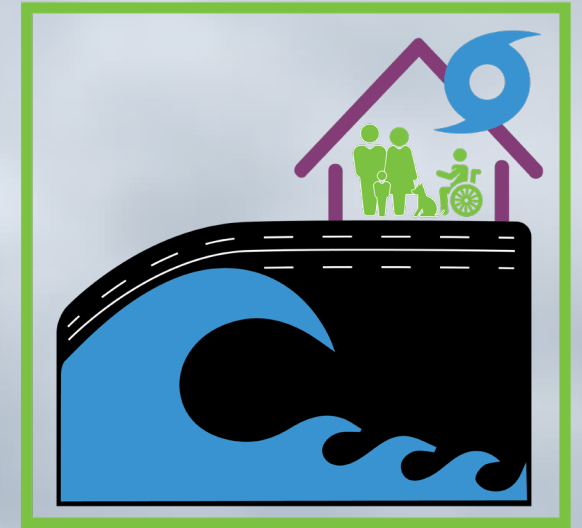
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Virtual Open House

August 25, 2021

Storm Evacuation Forecast & Shelter-in-place
Scenarios Study



Hillsborough TPO
Transportation
Planning Organization

Today



Study purpose



Open house purpose

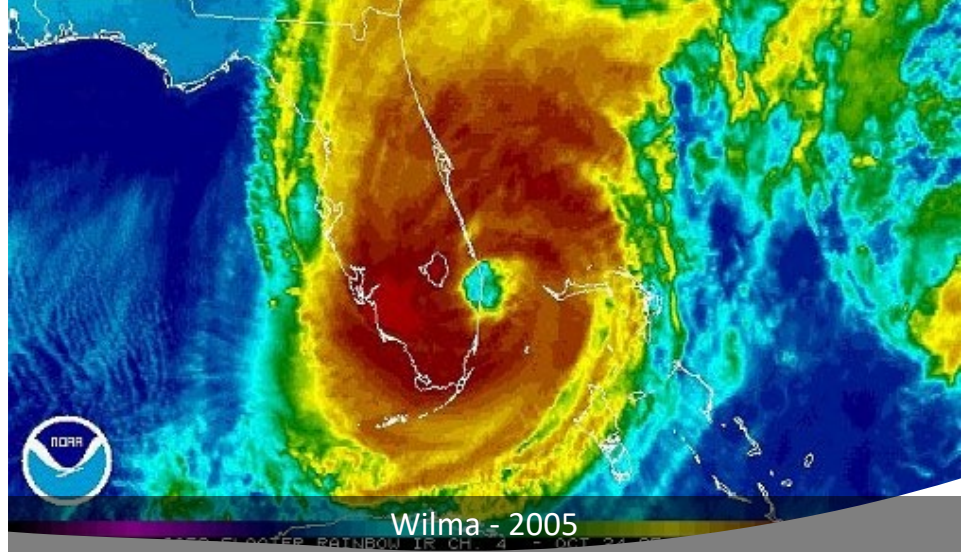
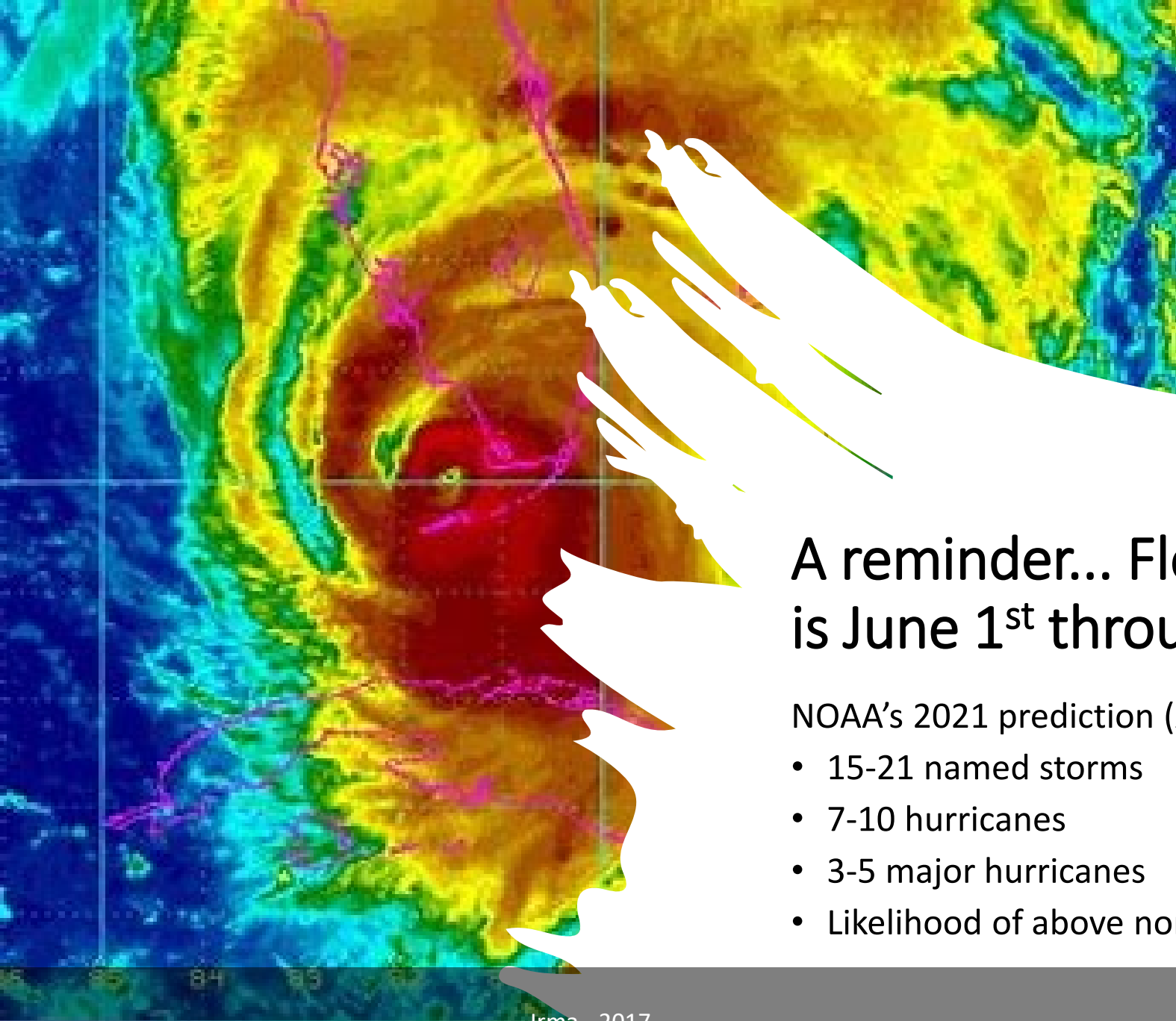


Background information



Your ideas and suggestions





A reminder... Florida hurricane season is June 1st through November 30th

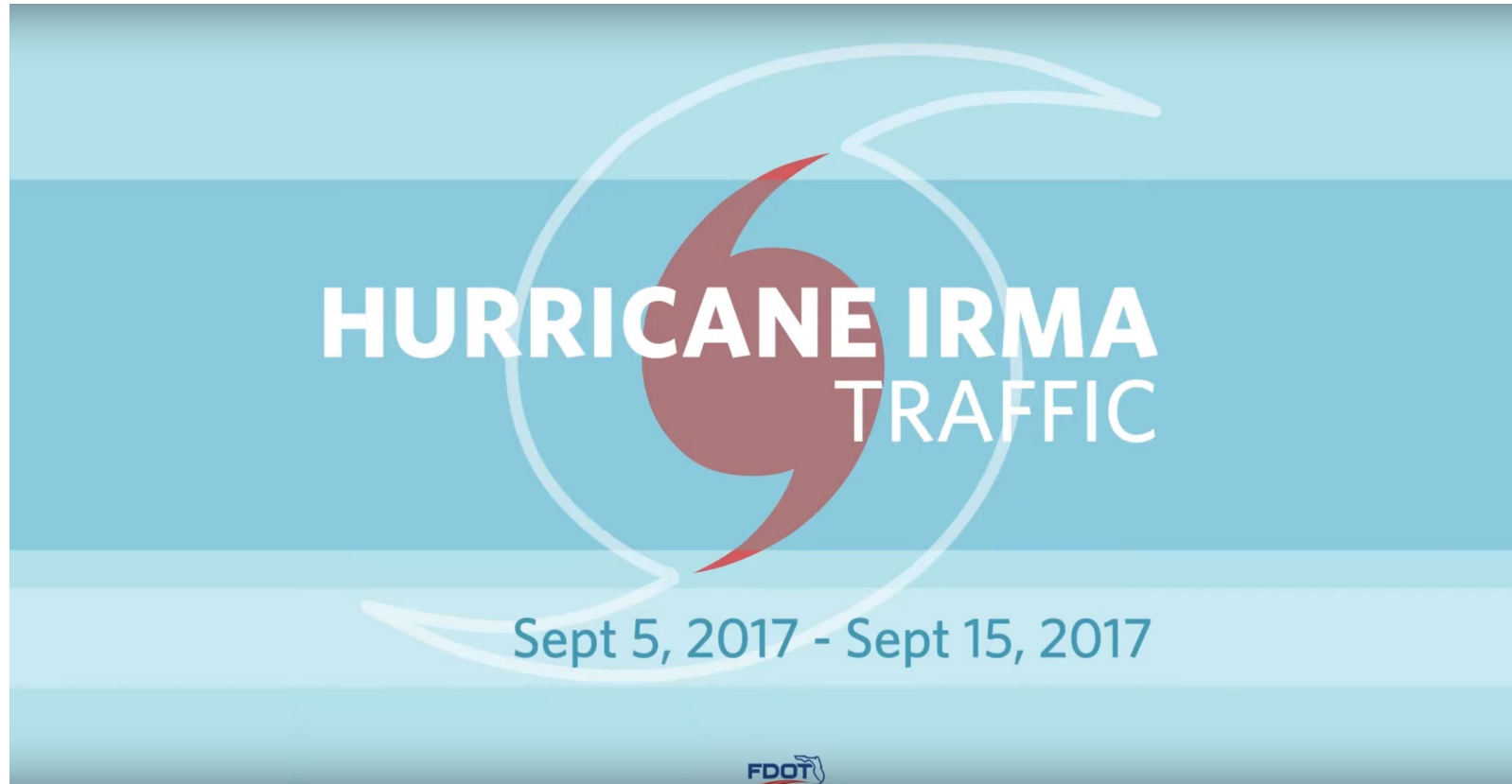
NOAA's 2021 prediction (August update)

- 15-21 named storms
- 7-10 hurricanes
- 3-5 major hurricanes
- Likelihood of above normal season is 65%

Irma - 2017

GOES-FLOATER RAINBOW IR - SEP 10

Evacuations



<https://tinyurl.com/IrmaEvacuationRoads>

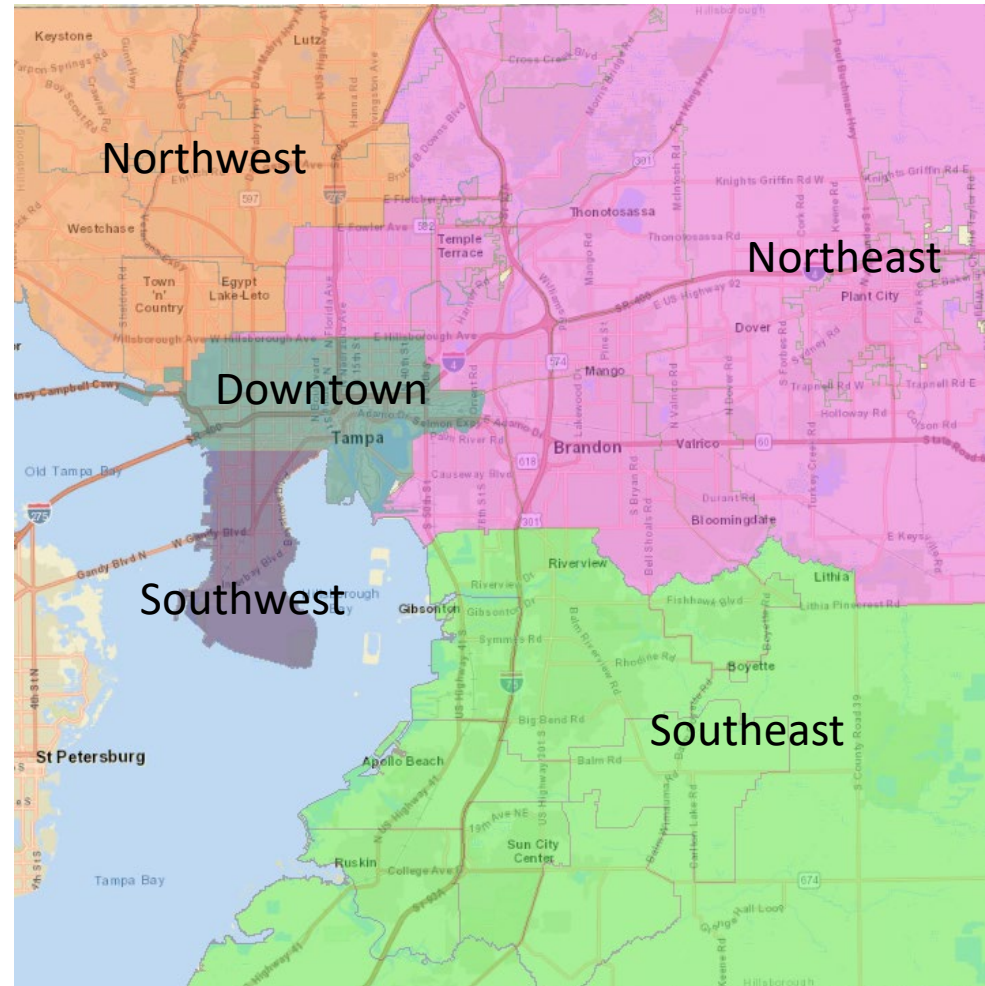
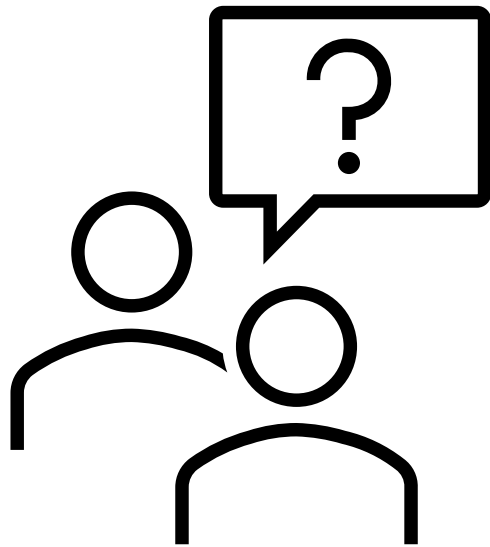


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Where do you live?



- Downtown
- Northwest County
- Northeast County
- Southeast County
- Southwest County





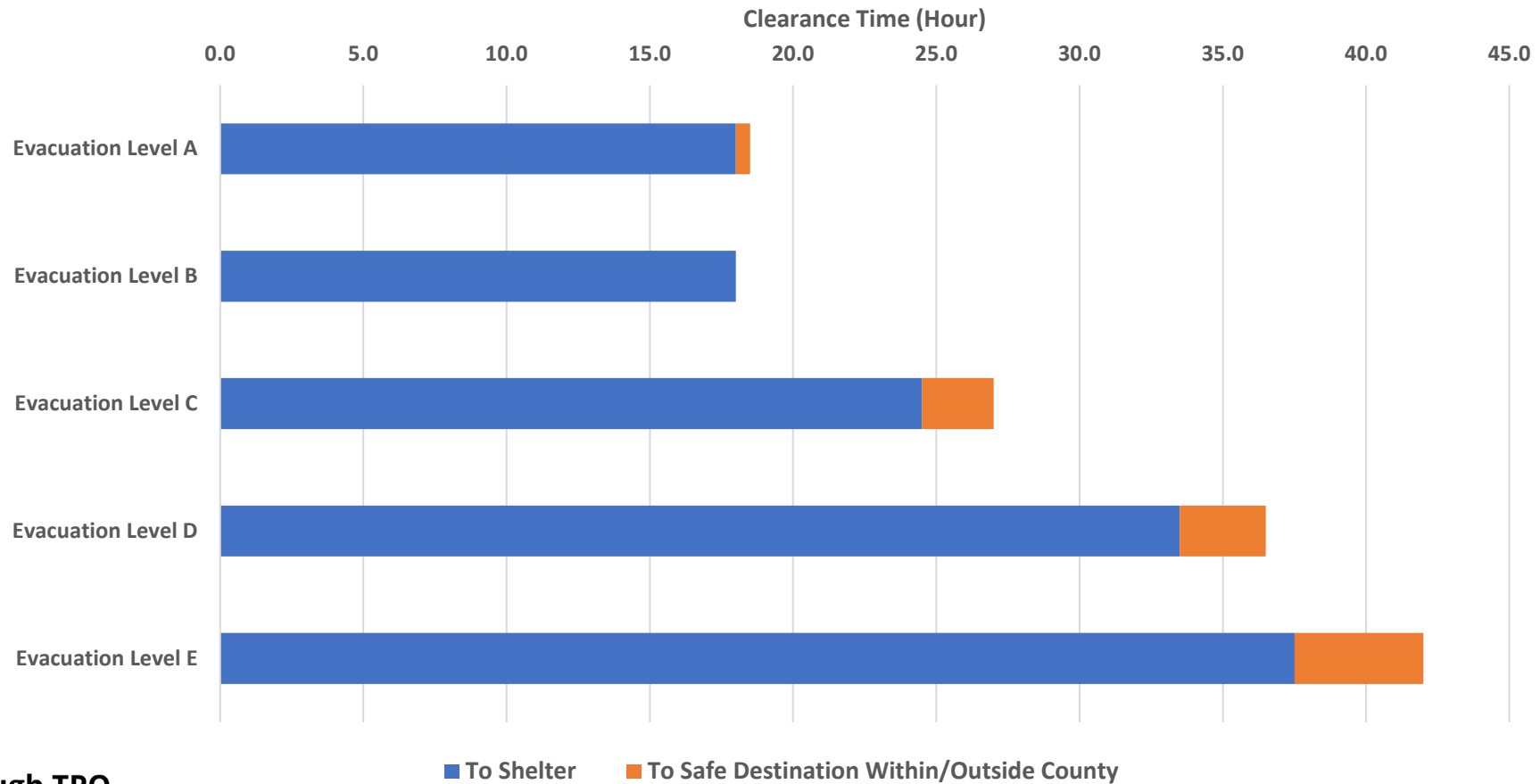
Emergency Response Plans

- Evacuation plans help prepare for disasters such as hurricanes, and generally include:
 - shelters
 - evacuation routes
 - traffic control points
 - transportation for persons unable to evacuate on their own, and
 - strategies to mitigate potential impact
- In response to an emergency, the public has two choices: evacuate or shelter in place



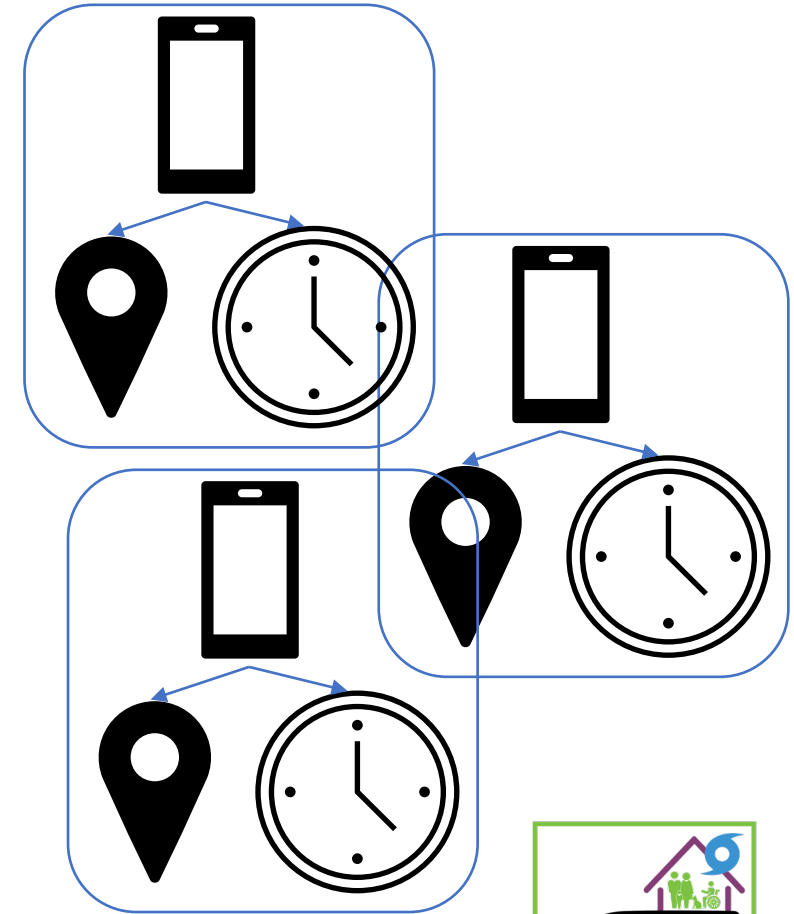
Evacuation Clearance Times

Hillsborough County 2025 Operational Scenarios



Statewide Regional Evacuation Study

- Statewide population growth over 17% in 2008-2019
- Study updated this year (prior study 2008)
- Relies on anonymized cellphone data, i.e. location-based services, to more accurately determine locations and times of people evacuating
- Focus of analysis on Matthew (2016), Irma (2017), and Michael (2018)
- Statewide evaluation provides data to each Regional Planning Council and Tampa Bay RPC provides data at a county level



Study Purpose



Understand	Better understand people’s evacuation and sheltering plans
Evaluate	Evaluate options (without major road widening) to improve clearance times
Identify	Identify evacuation improvement options
Recommend	Recommend enhancements



Open House Purpose

- Better understand people's evacuation and sheltering plans
- Identify needs and opportunities for improvement

Tell
Us

Your Ideas



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Topics under consideration

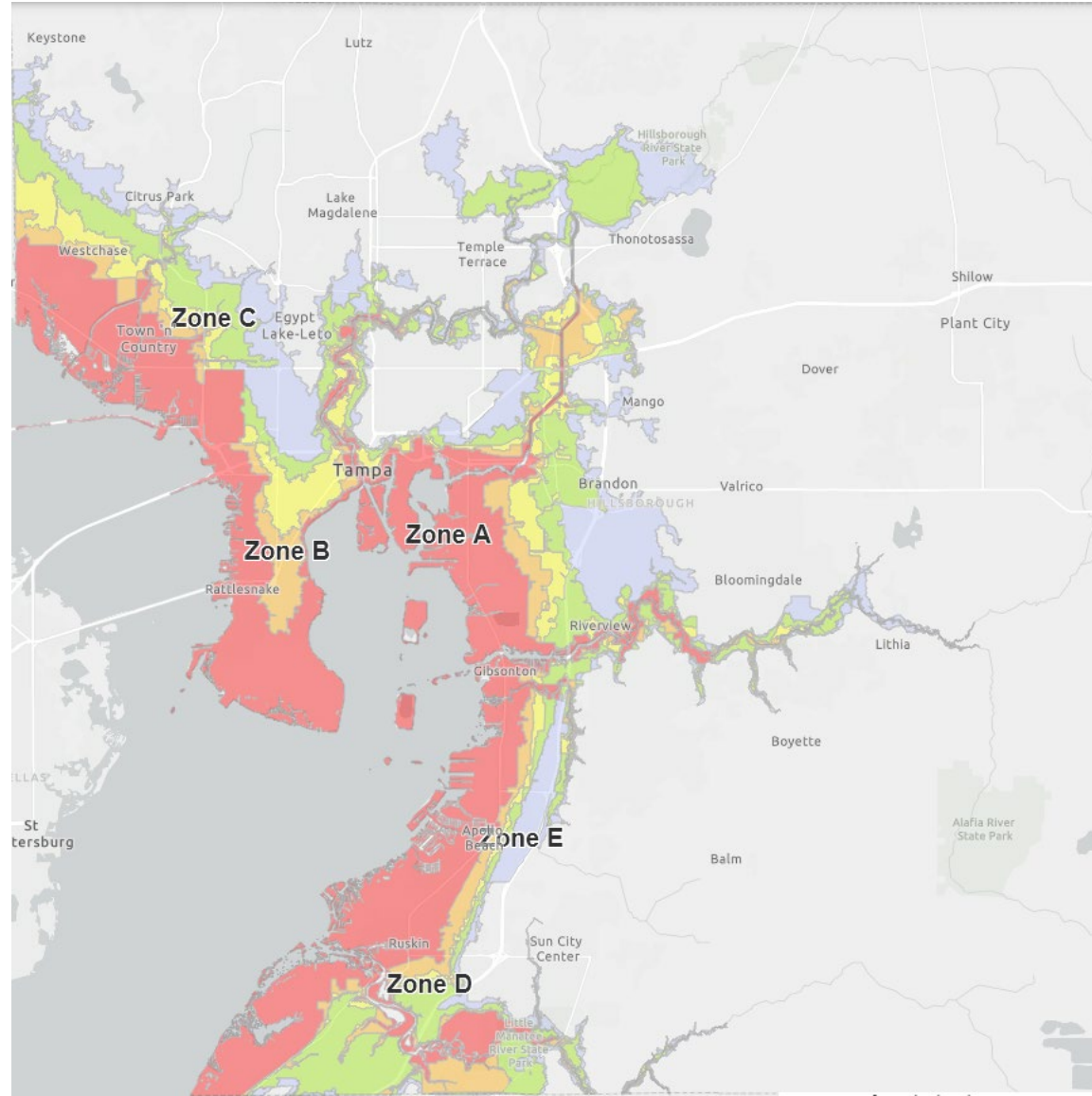
- Behavioral trends, such as:
 - Who stays, when they should evacuate
 - Who evacuates when they could stay
 - Where do people evacuate to
- Evacuation support strategies, such as:
 - Contraflow and emergency shoulder use
 - Event traffic signaling coordination
 - Evacuation timing and phasing
 - Shelter options
- Bottlenecks on evacuation routes
- Public Information – communications
- Transit strategies



Evacuation Information

Evacuation Zones 2021

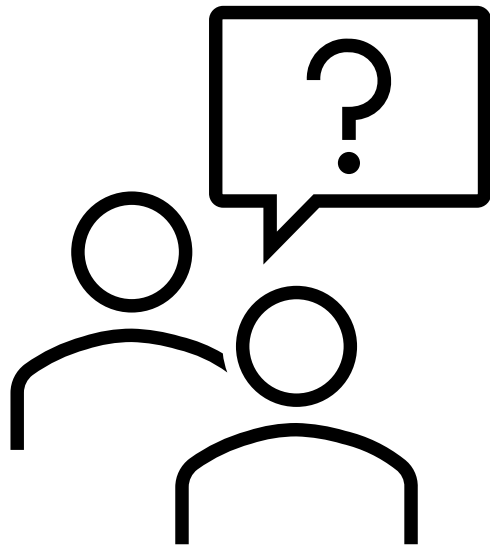
-  Zone A - Evacuate red areas and all mobile home/RV residents
-  Zone B - Evacuate red and orange areas and all mobile home/RV residents
-  Zone C - Evacuate red, orange and yellow areas and all mobile home/RV residents
-  Zone D - Evacuate red, orange, yellow, and green areas and all mobile home/RV residents
-  Zone E - Evacuate red, orange, yellow, green, and purple areas and all mobile home/RV residents



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Do you live in an evacuation zone?

- Yes
- No
- Not sure



Evacuation Information

Public Shelters



General

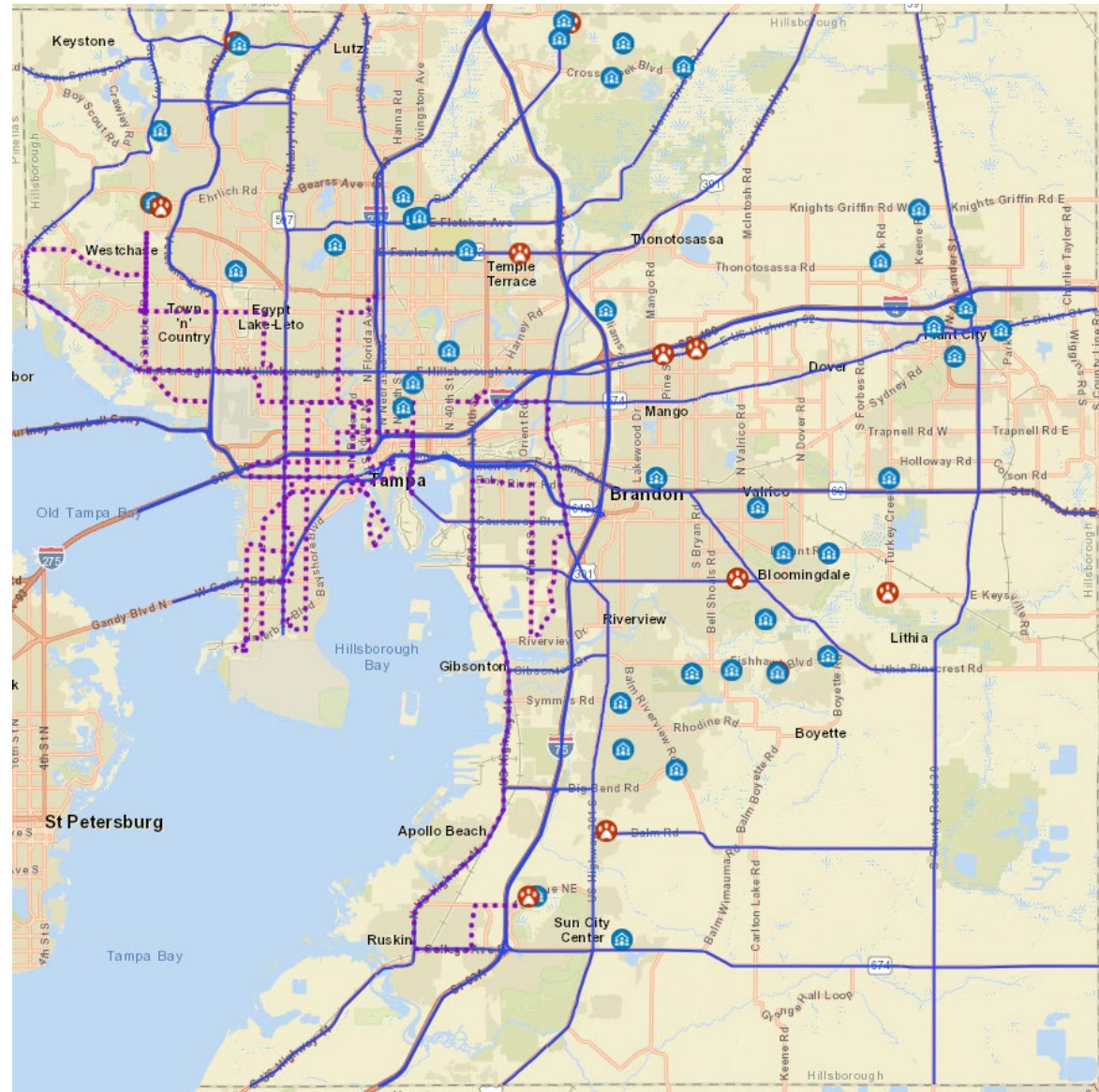


Pet Friendly

HART Transit Evacuation Routes



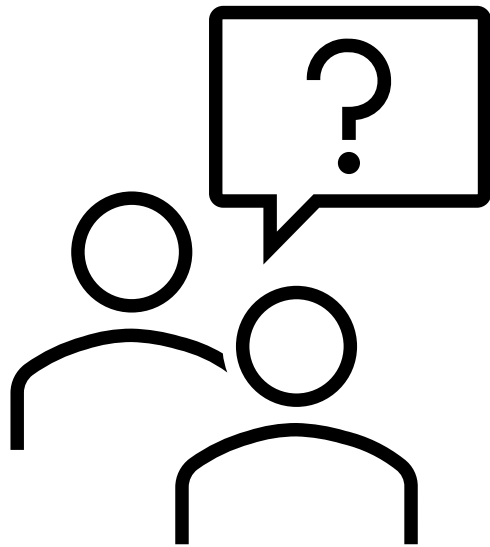
Evacuation Routes



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**What is the most important factor to you in determining if you evacuate?
(choose up to 3)**

- My home is safe, no need to evacuate
- Having a place to go and stay
- Cost
- Storm severity
- Access to pet-friendly shelter



Evacuation Information

Public Shelters



General

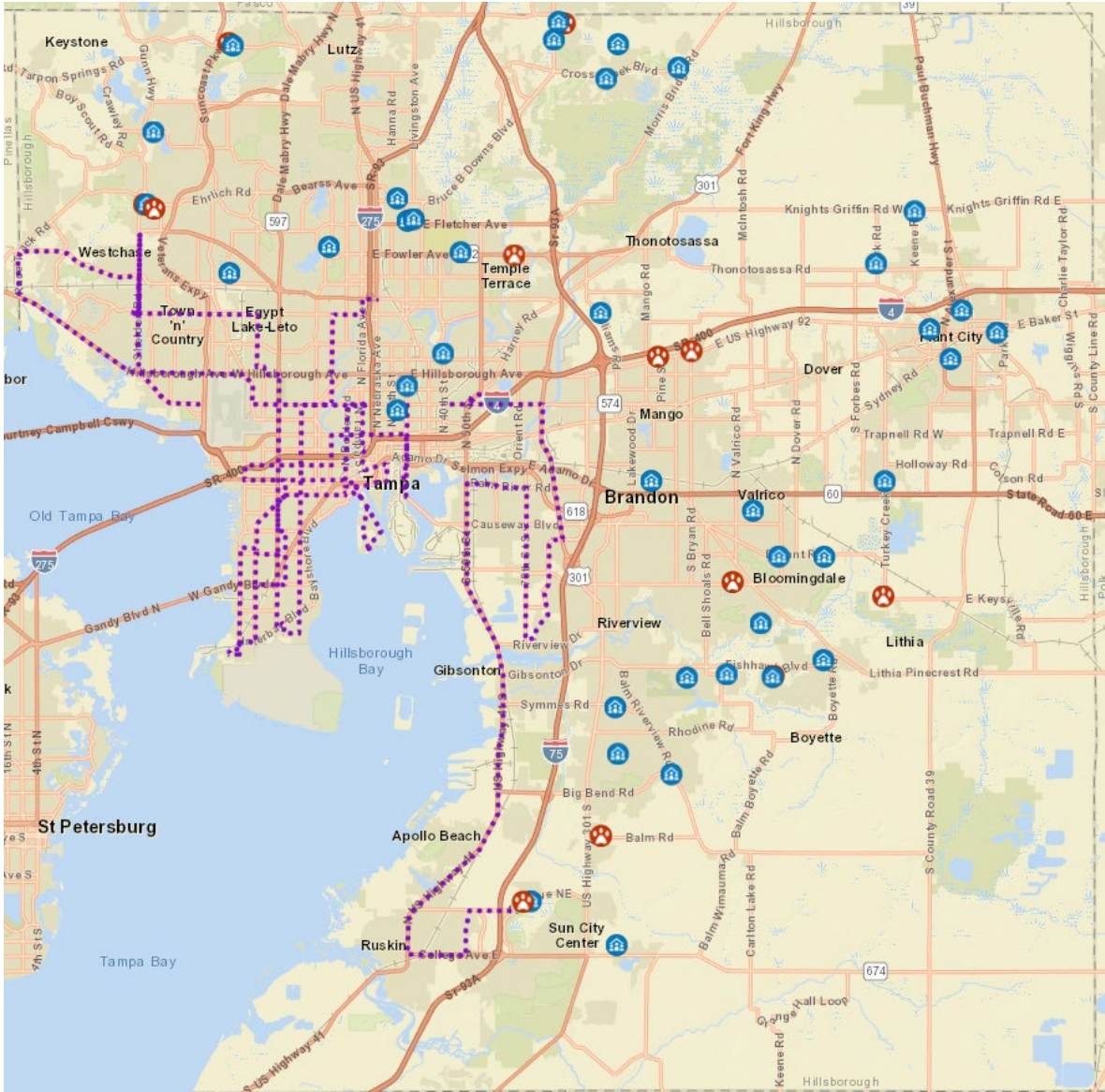


Pet Friendly

HART Transit Evacuation Routes



Evacuation route changes are being considered



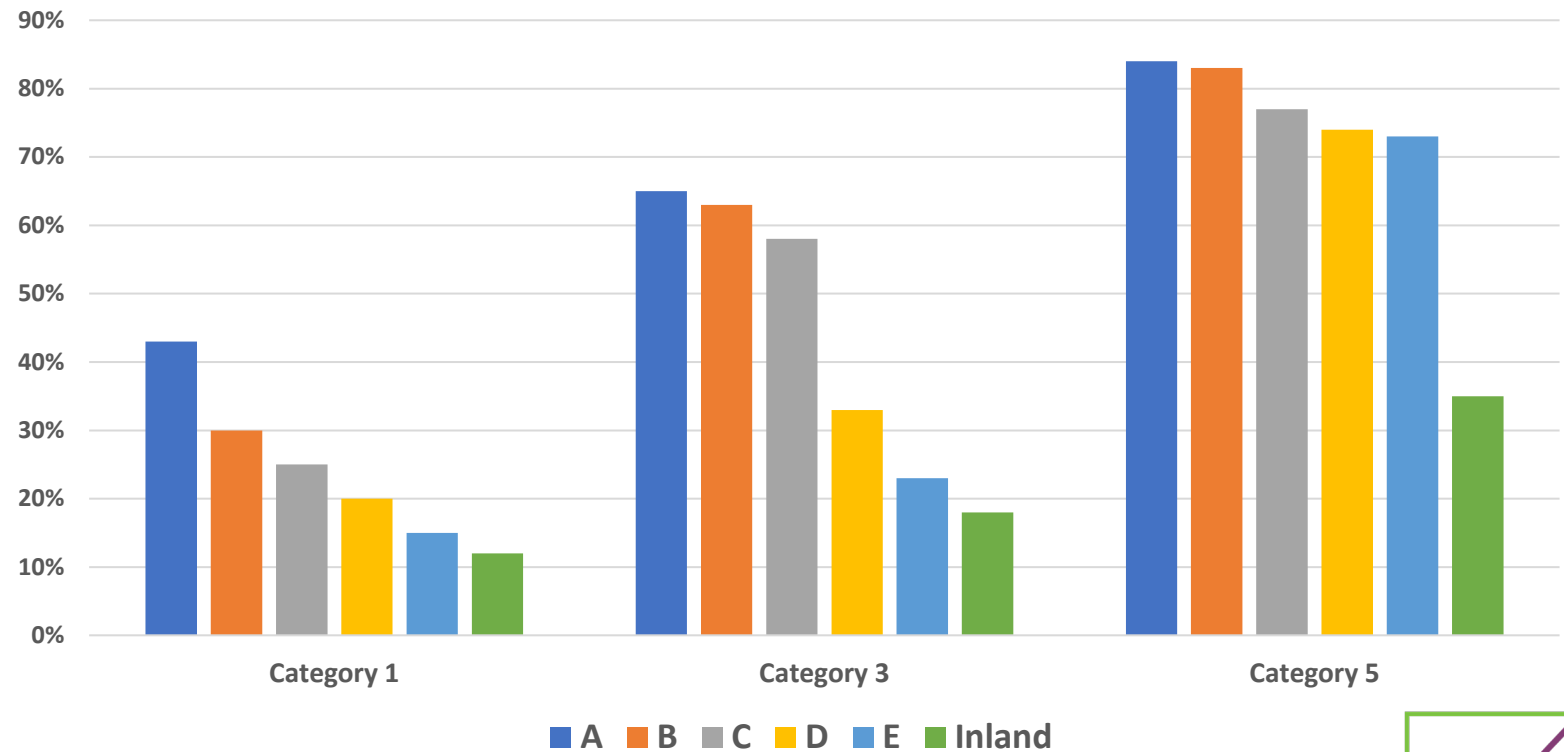
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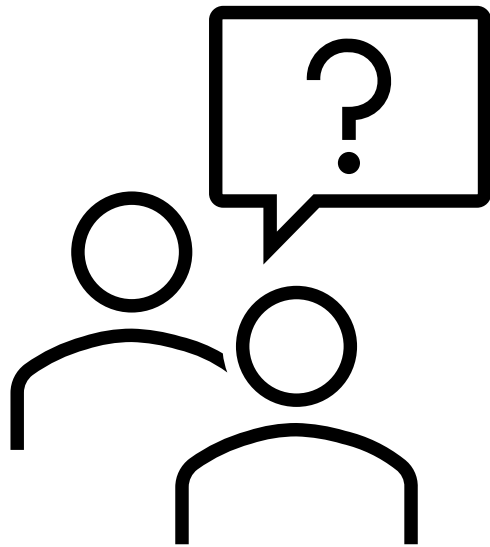
Evacuation Information

- Those living closer to coastal areas evacuate at higher rates
- 15% to 25% of people in evacuation zones will not evacuate for a Category 5 storm
- Over 10% of people outside evacuation zones will leave for a Category 1 storm

Evacuation Rates by Evacuation Zone by Hurricane Category
Site-Built Home Residents



Poll



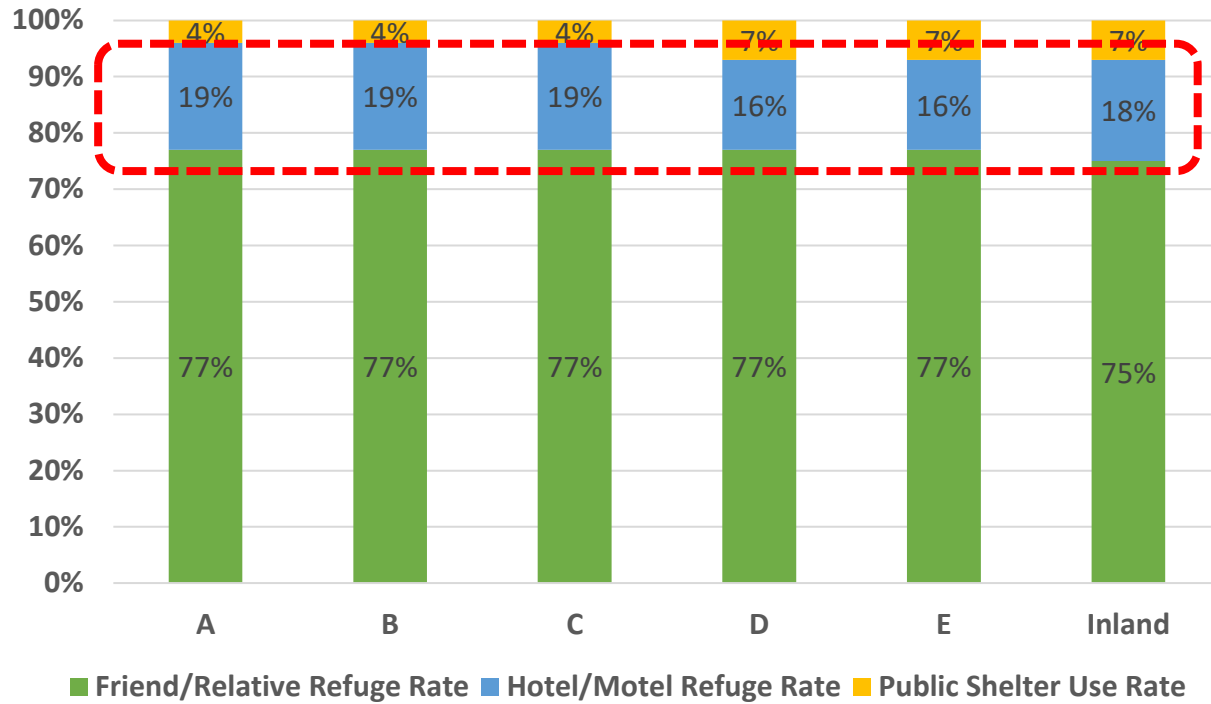
If you are asked to evacuate, what is the most important factor to you in determining when you evacuate? (choose up to 3)

- Based on my evacuation zone and emergency orders to leave
- Storm severity and projected path
- Storm location
- Having a place to go and stay
- Cost

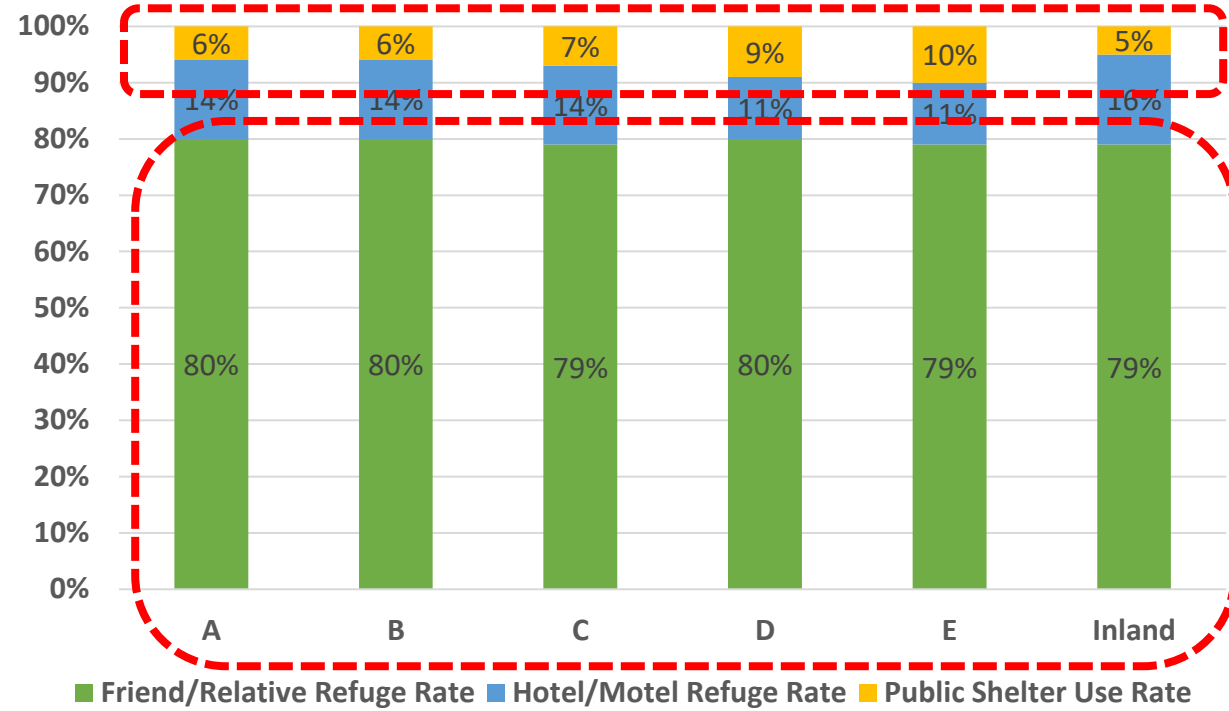


Evacuation Destinations Cat 1 Storm – Of Those Evacuating

Site-Build Home Residents

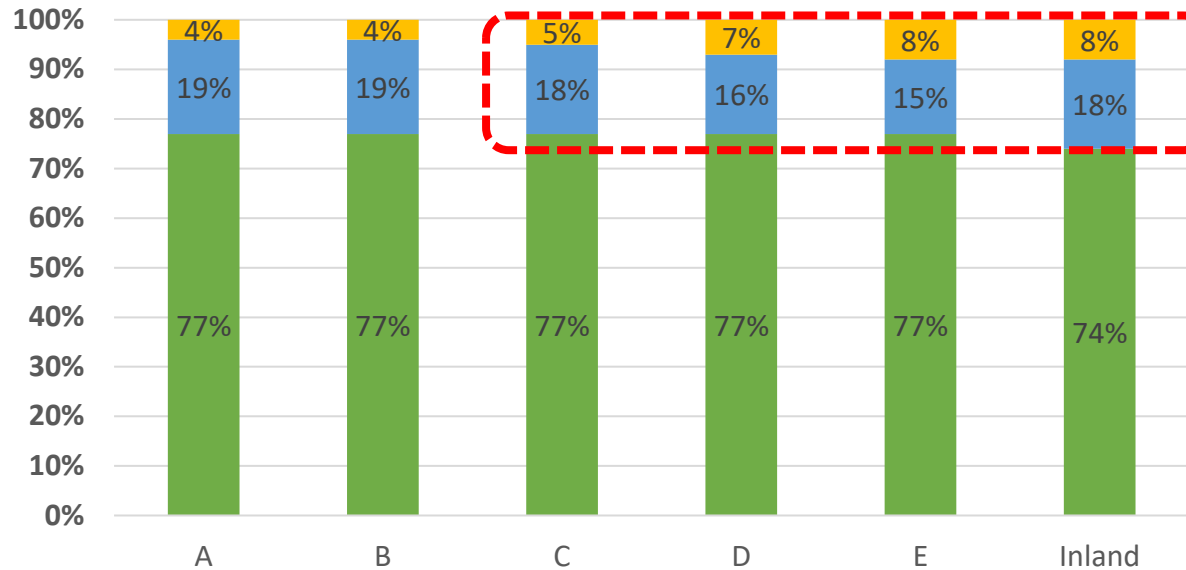


Mobile/Manufactured Home Residents

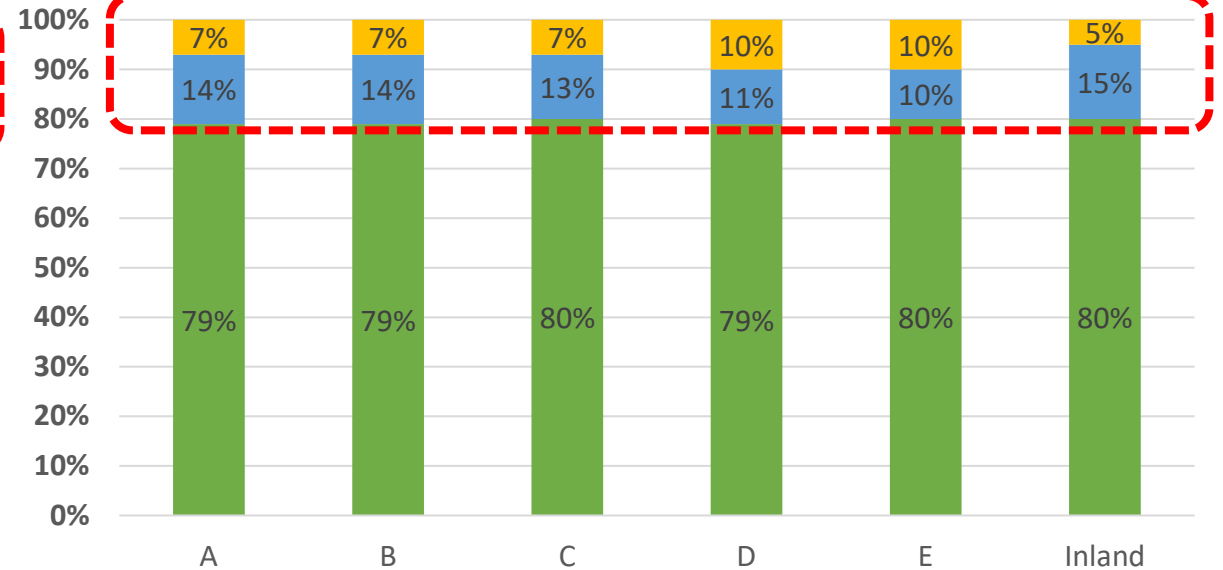


Evacuation Destinations Cat 3 Storm – Of Those Evacuating

Site-Build Home Residents



Mobile/Manufactured Home Residents



■ Friend/Relative Refuge Rate ■ Hotel/Motel Refuge Rate ■ Public Shelter Use Rate

■ Friend/Relative Refuge Rate ■ Hotel/Motel Refuge Rate ■ Public Shelter Use Rate

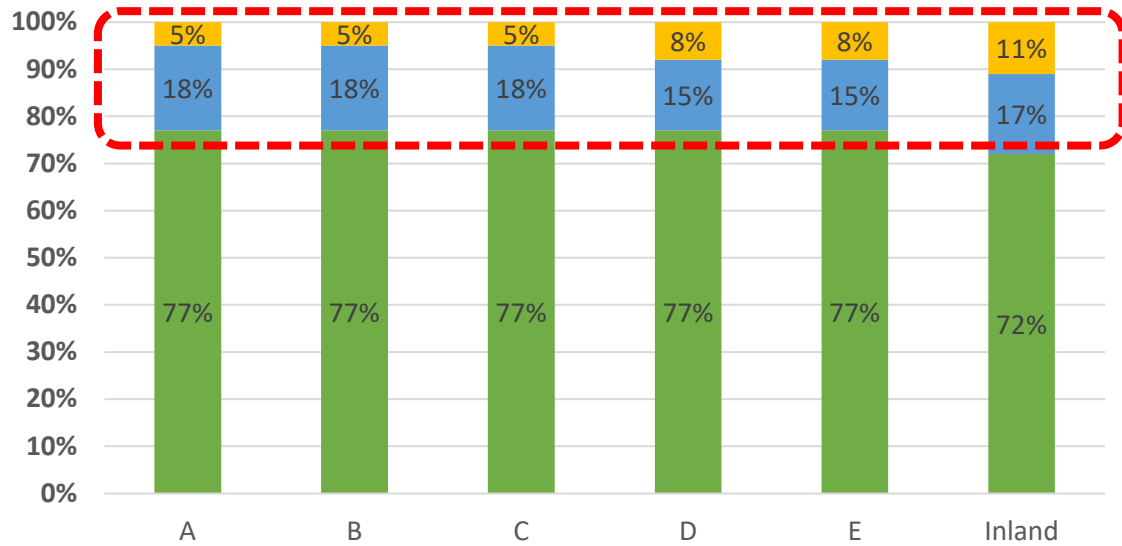


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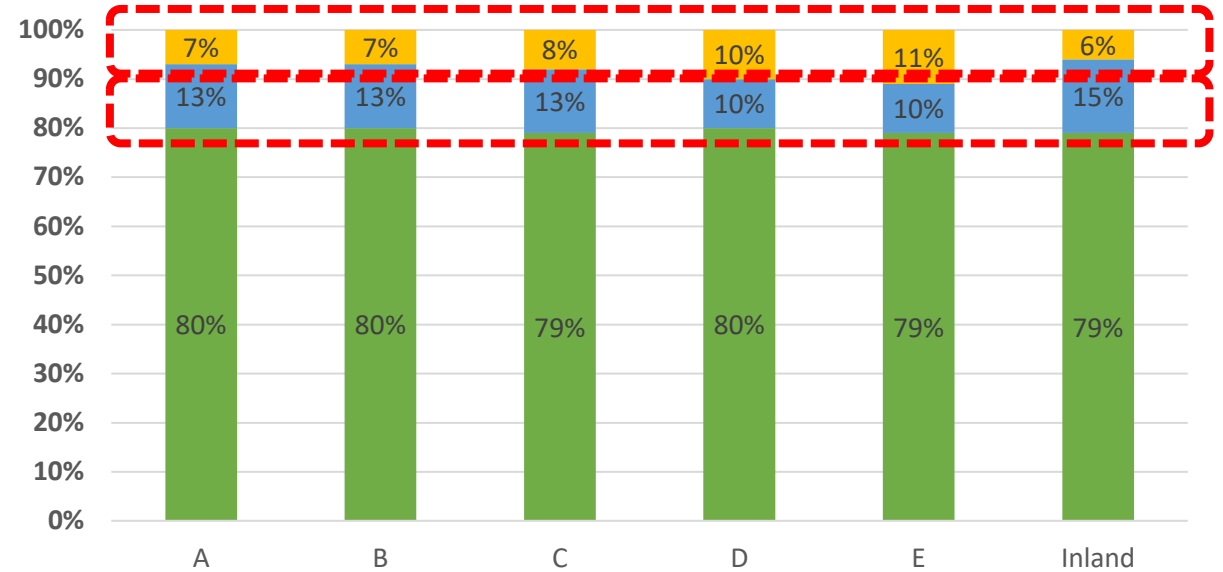
Evacuation Destinations Cat 5 Storm – Of Those Evacuating

Site-Build Home Residents



■ Friend/Relative Refuge Rate ■ Hotel/Motel Refuge Rate ■ Public Shelter Use Rate

Mobile/Manufactured Home Residents



■ Friend/Relative Refuge Rate ■ Hotel/Motel Refuge Rate ■ Public Shelter Use Rate

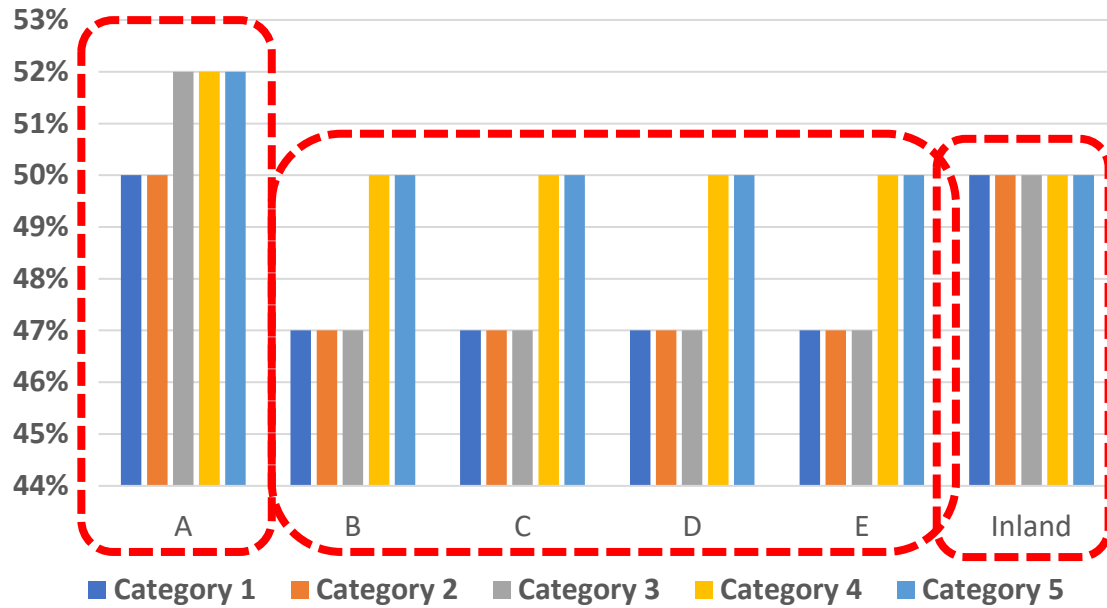


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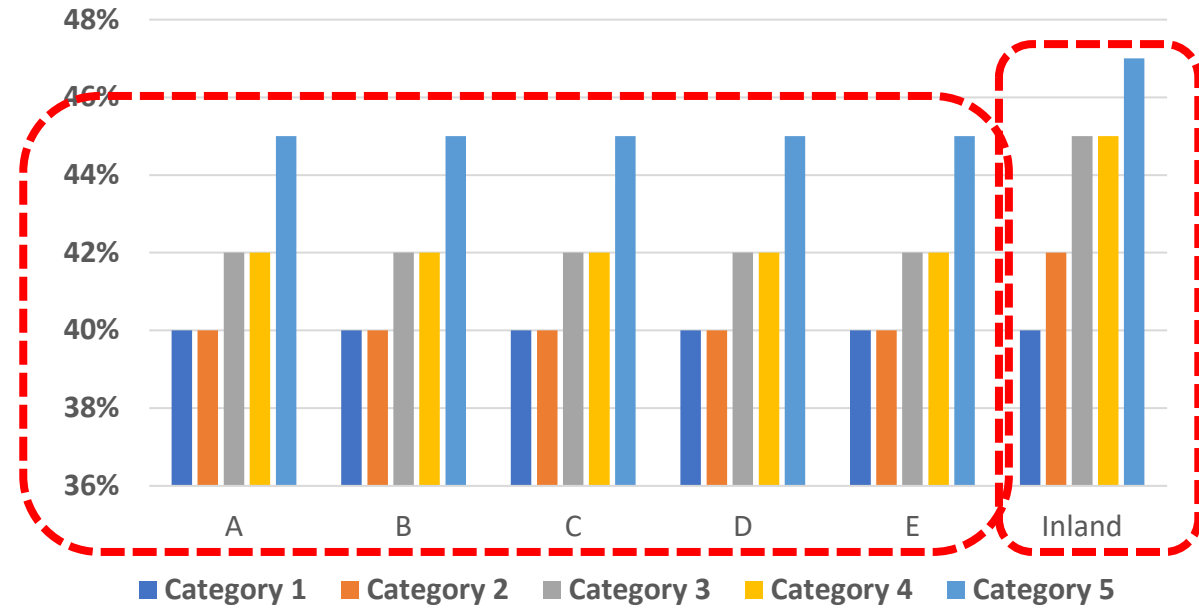


Out of County Trip Rate – Of Those Evacuating

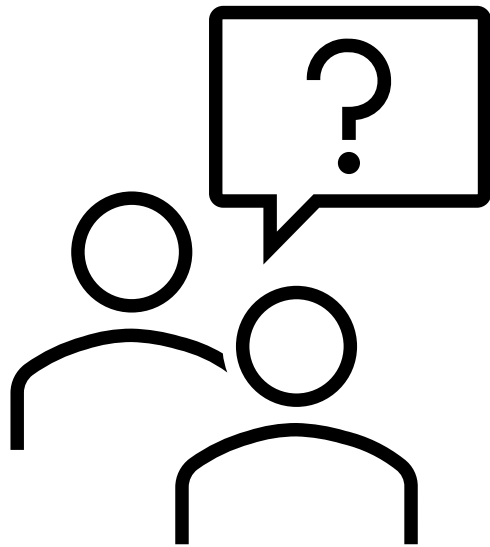
Site-Built Homes



Mobile/Manufactured Homes



Poll



**What is the most important factor to you in determining where you evacuate?
(Choose up to 3)**

- Storm severity
- Access to transportation
- People staying at the same place (such as family/friends/ pets)
- Privacy or Security
- Cost



Evacuation and Sheltering Scenarios Study

We need your help!

Please take a 5-minute survey and share with others

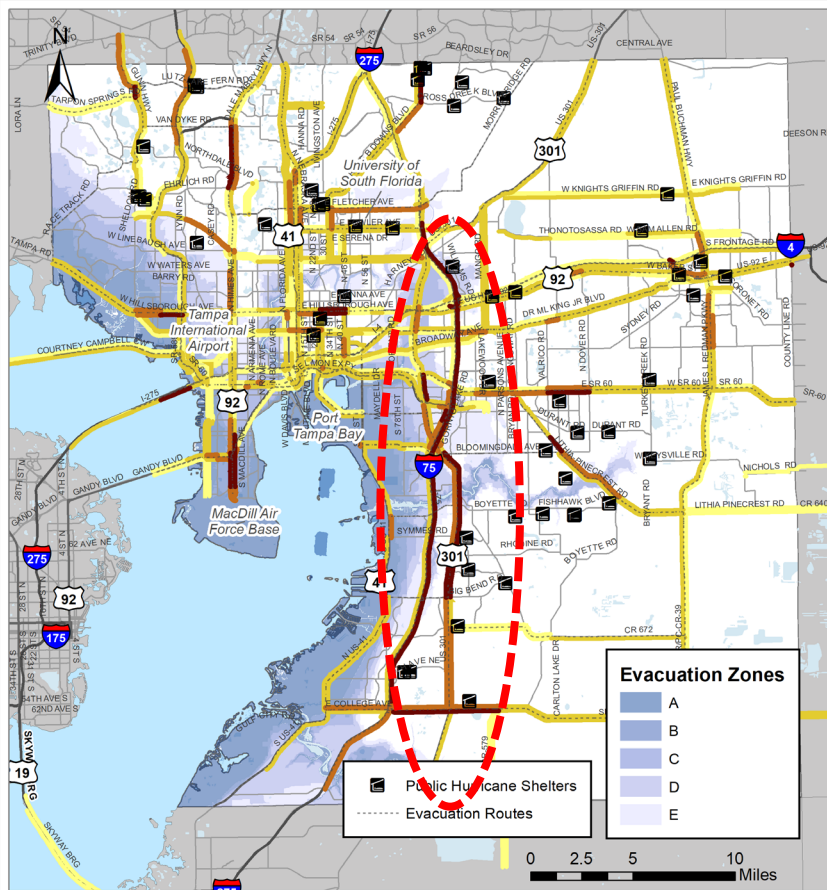
<https://tinyurl.com/SurveyEvacuation>



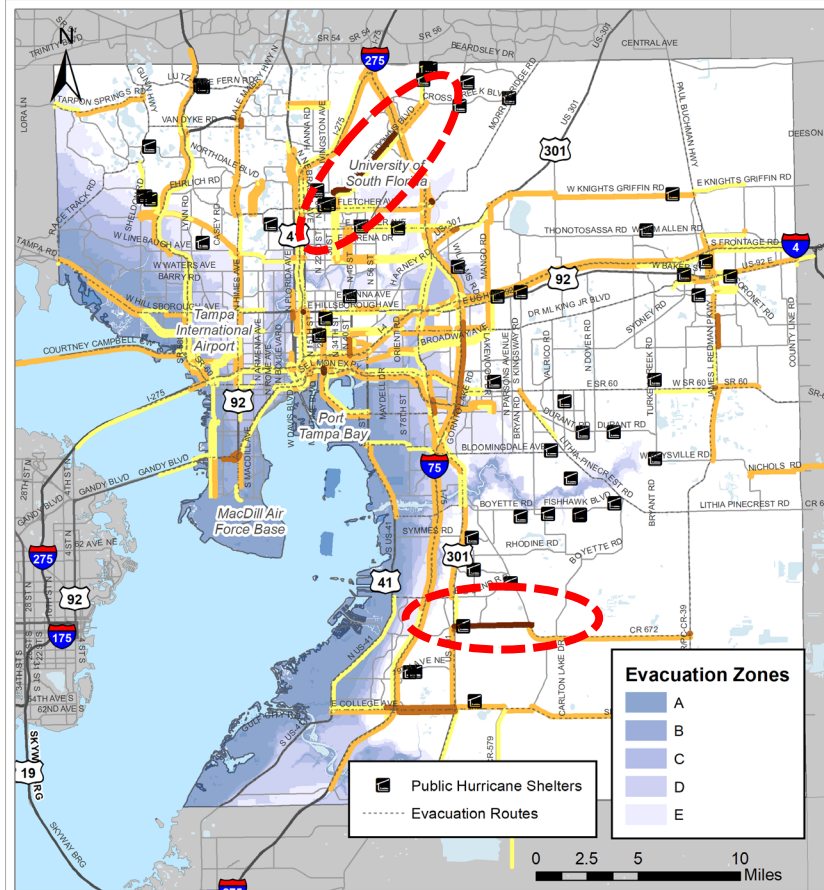
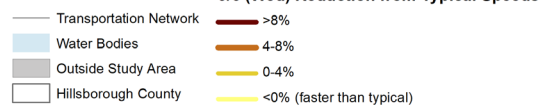
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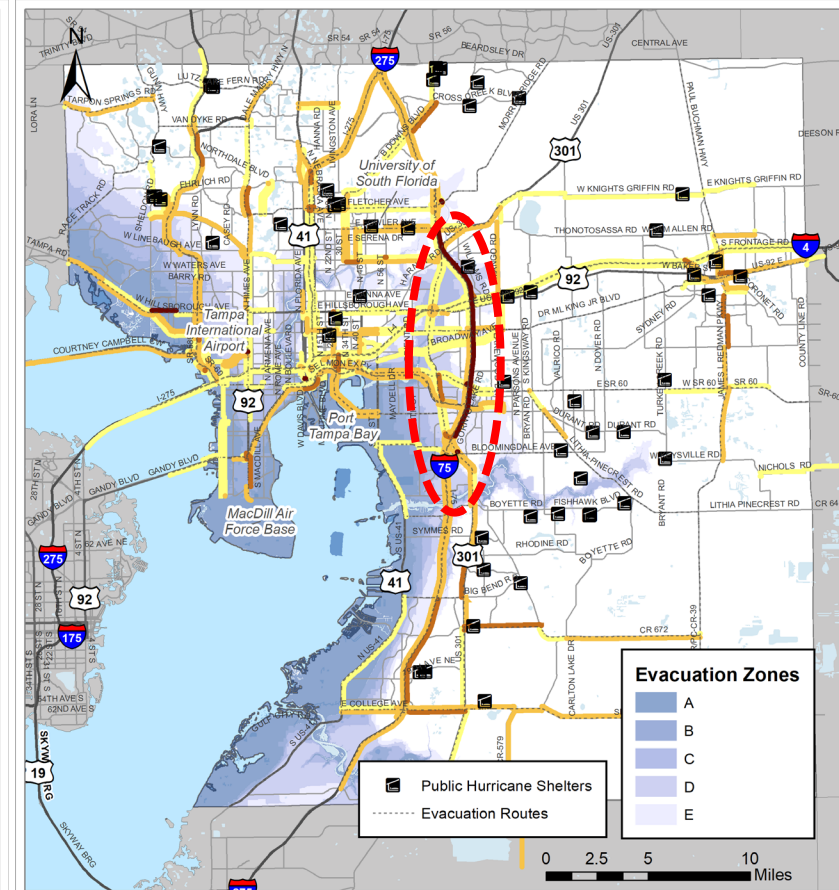
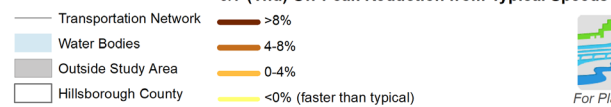
Evacuation Information – Hurricane Irma



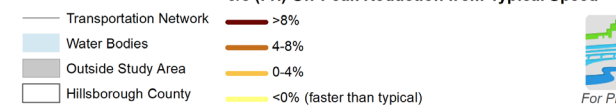
Hurricane Irma Evacuation Scenario Impact Study Legend



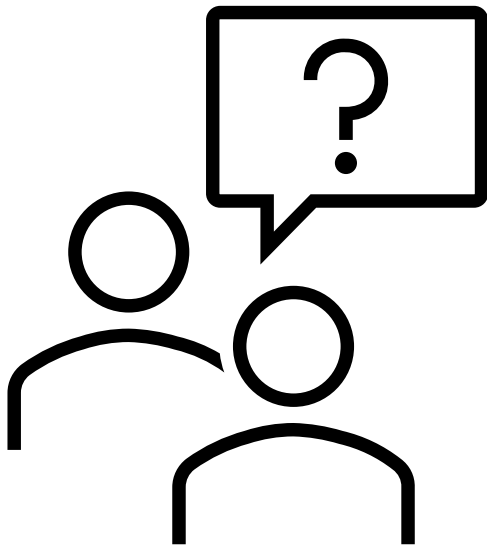
Hurricane Irma Evacuation Scenario Impact Study Legend



Hurricane Irma Evacuation Scenario Impact Study Legend



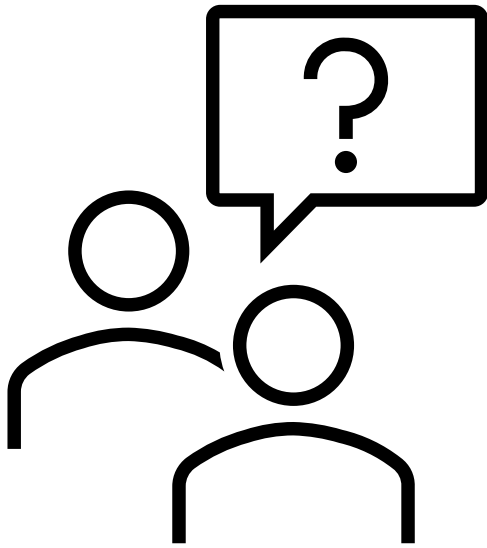
Poll



What transportation challenges have you experienced when a hurricane is approaching or as part of evacuating?



Poll



Are there any considerations we have missed?

What else should we know about your evacuation needs?



More Information

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TPO Executive Planner. Sustainability Coordinator

yeha@plancom.org

Main - (813) 272-5940

Direct - (813) 582-7351

Study Website: <https://tinyurl.com/EvacuationStudy>

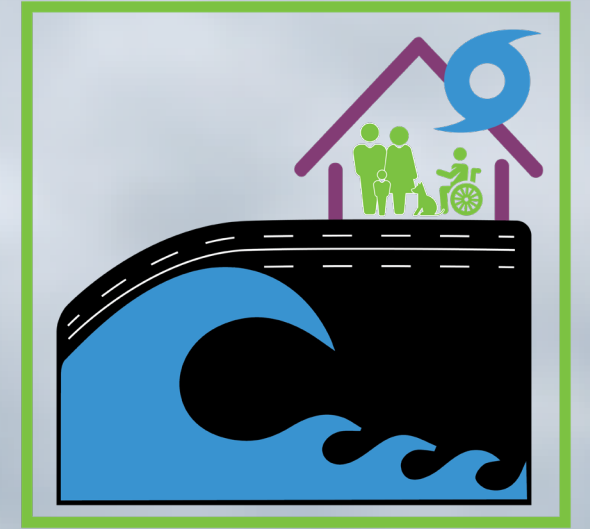
Survey: <https://tinyurl.com/SurveyEvacuation>



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Questions and Answers



Thank you



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