

Hurricane Readiness . . . Beachfront Properties Need NOT Apply How Cities Can Protect Their Most Vulnerable (And Underserved) Residents

61st Annual FSBPA Annual Conference
Presented By Shelli Freeland Eddie, Esq.
Commissioner, City of Sarasota District 3



AFTER THE EMERGENCY . . .

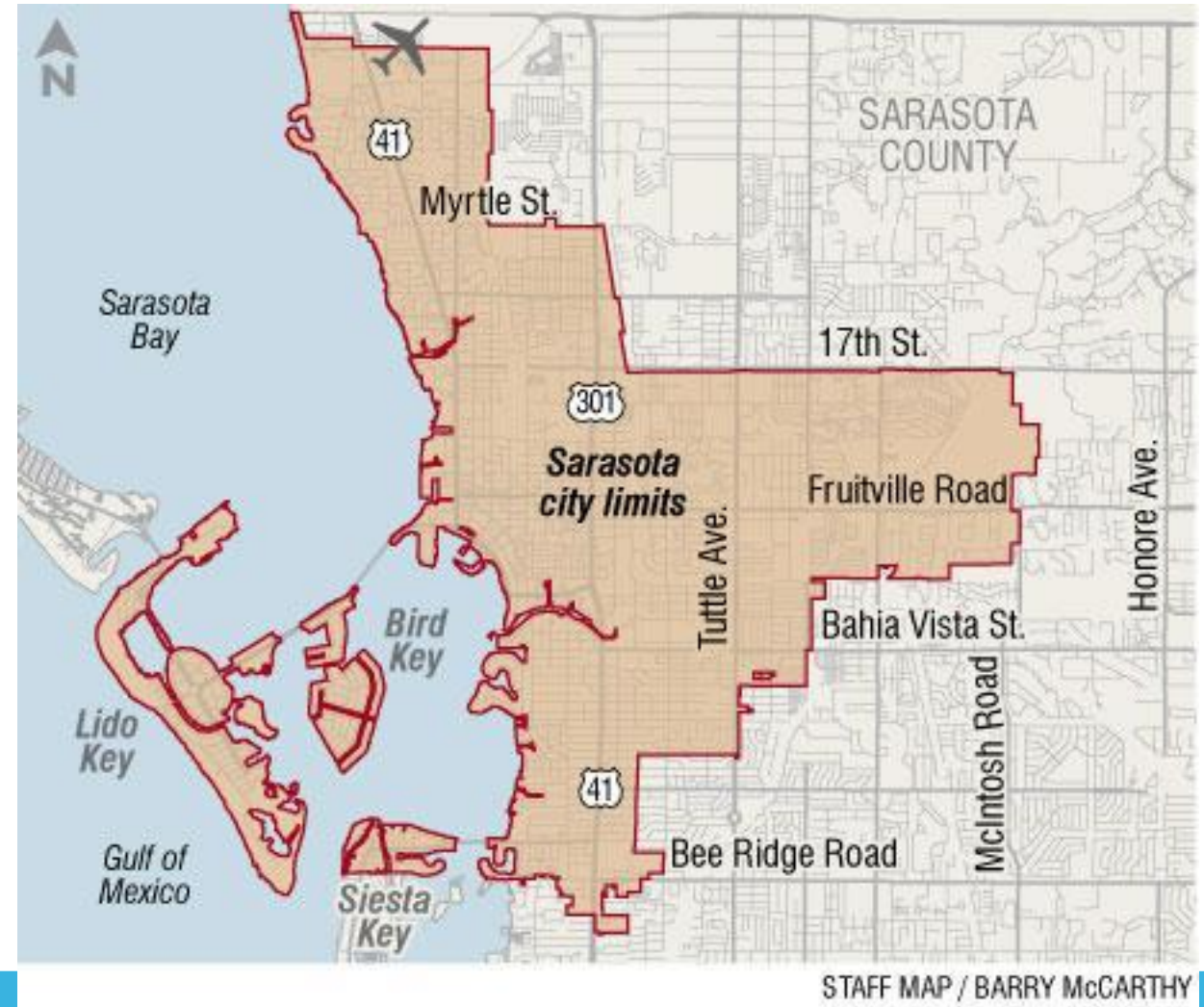
Defining and Assessing a City's
Vulnerability

Governance

Developing a Climate Adaptation
& Vulnerability Assessment Plan

Purchasing Issues during an
Emergency

Grants and Other Funding



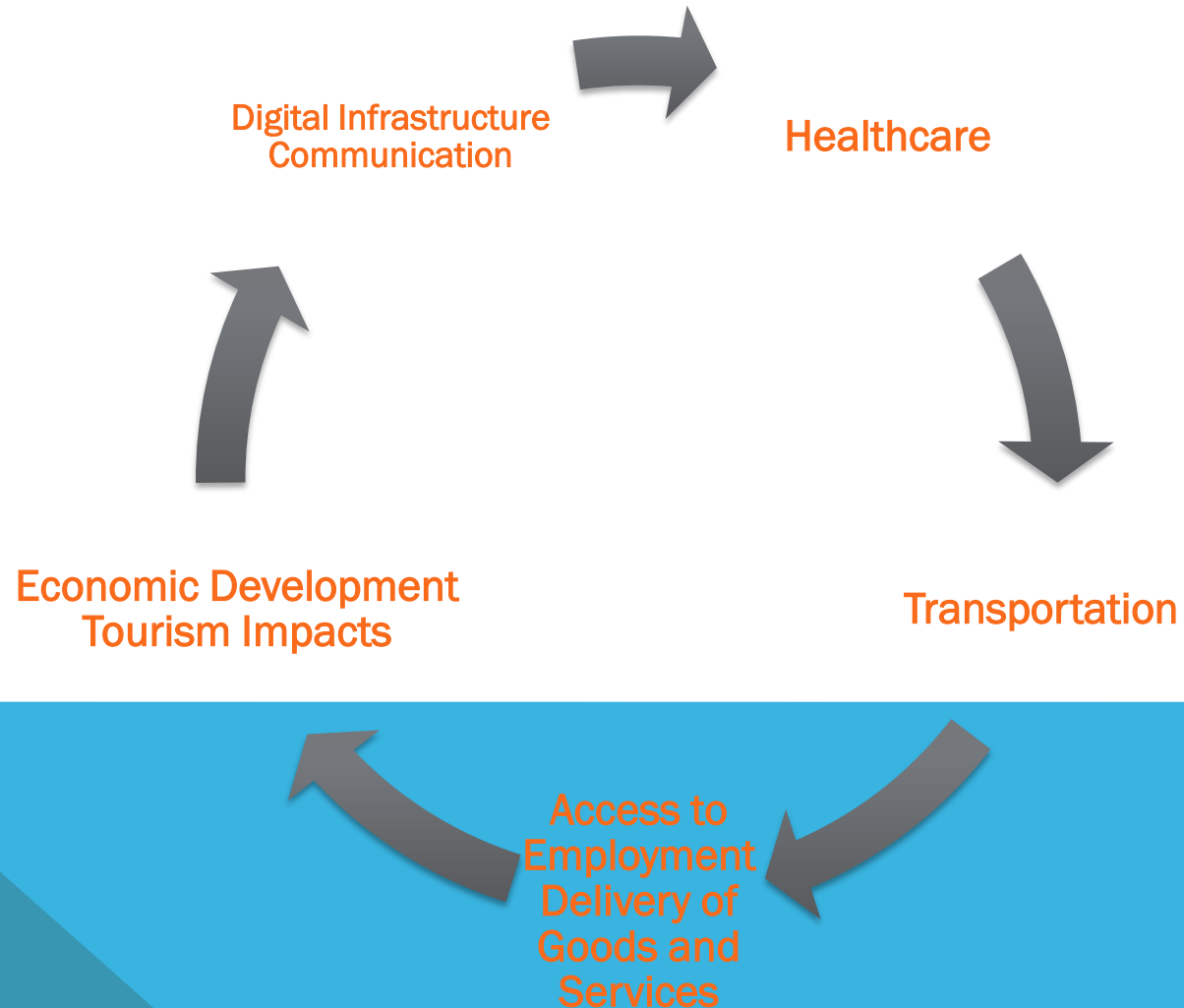
NBC NIGHTLY NEWS WITH LESTER HOLT – HURRICANE IRMA LIVE COVERAGE FROM SARASOTA, FL SEPTEMBER 11, 2017



VULNERABILITIES . . . RESILIENCY AND MITIGATION RE-DEFINED

Re-THINKING Policy, beyond infrastructure, to address vulnerable (at risk) communities, BEYOND INFRASTRUCTURE

Broad range of challenges facing local policy-makers during and after coastal storms.



VULNERABILITIES . . . RE-DEFINED

Evacuation routes in Urban Communities

Transportation Challenges

Communication Challenges

- Digital Desert (no Internet Access independent of cell phone)

Health Challenges resulting from EXTENDED Loss of Power

- Access to air conditioning for medications and health equipment



Best Practices for assessing vulnerable infrastructure in at-risk communities

Options for funding at the federal, regional, state and local levels for non-traditional vulnerabilities

MUNICIPAL CLIMATE VULNERABILITY ASSESSMENTS AND ADAPTATION PLANS

Why Needed?

- Municipalities provide critical public services. The infrastructure required to provide these services can be vulnerable to future climate conditions (sea level rise, precipitation, heat, storm surge). Understanding where your vulnerable and prioritizing capital needs to adapt your infrastructure over time is the foundation to being a resilient city into the future.



MUNICIPAL CLIMATE ADAPTATION PLANS

How to get started?

- Form a team of experts that manage infrastructure in your city
- Identify the climate projections you want to use (for example: sea level rise, storm surge, precipitation and heat conditions projected for 2050).
- Identify critical infrastructure – what exactly do you want to assess to understand where your vulnerable (evacuation routes, emergency operations, vulnerable communities, cultural destinations, business districts, etc.)?
- Conduct a vulnerability assessment – quantify risk and vulnerability. The infrastructure that rates both highly vulnerable and at-risk are priority infrastructure.

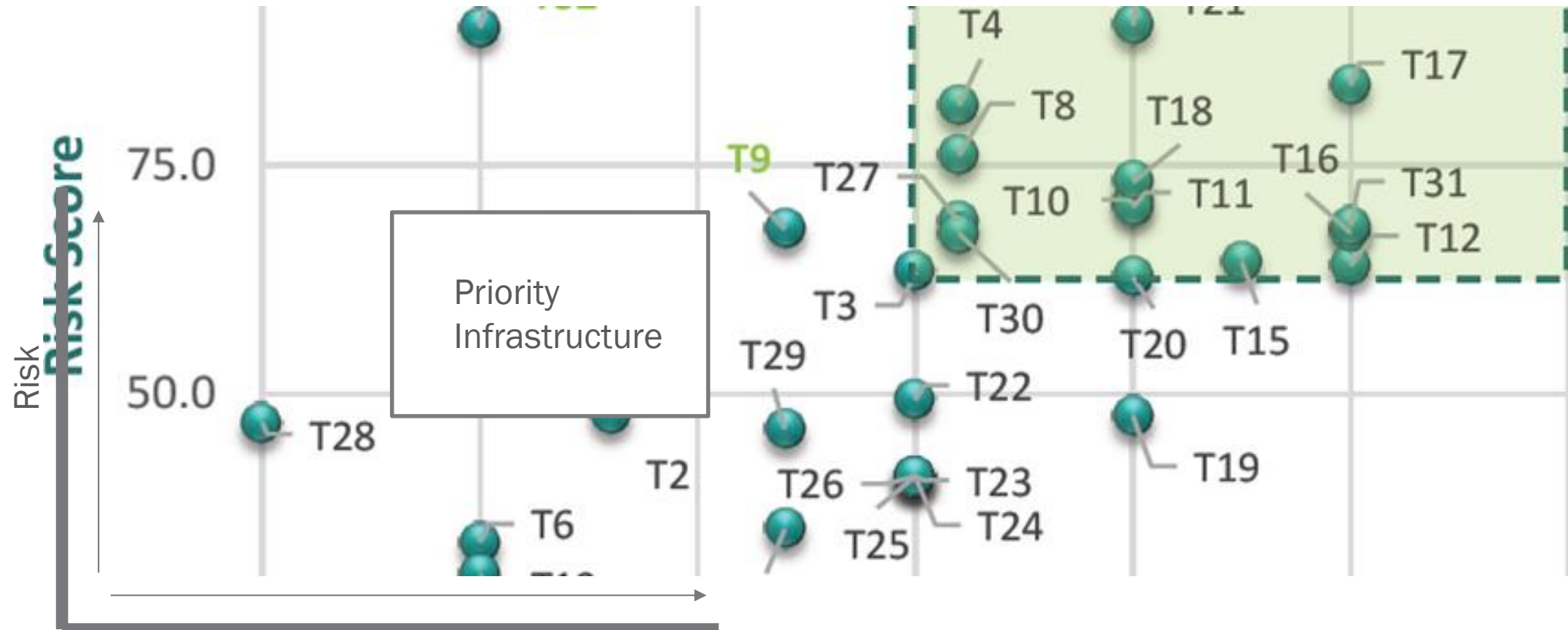
Identify adaptation strategies for priority vulnerabilities



Sarasota working group for the Climate Adaptation Plan

Photo | Strevie Freeman-Montes

MUNICIPAL VULNERABILITY ASSESSMENTS



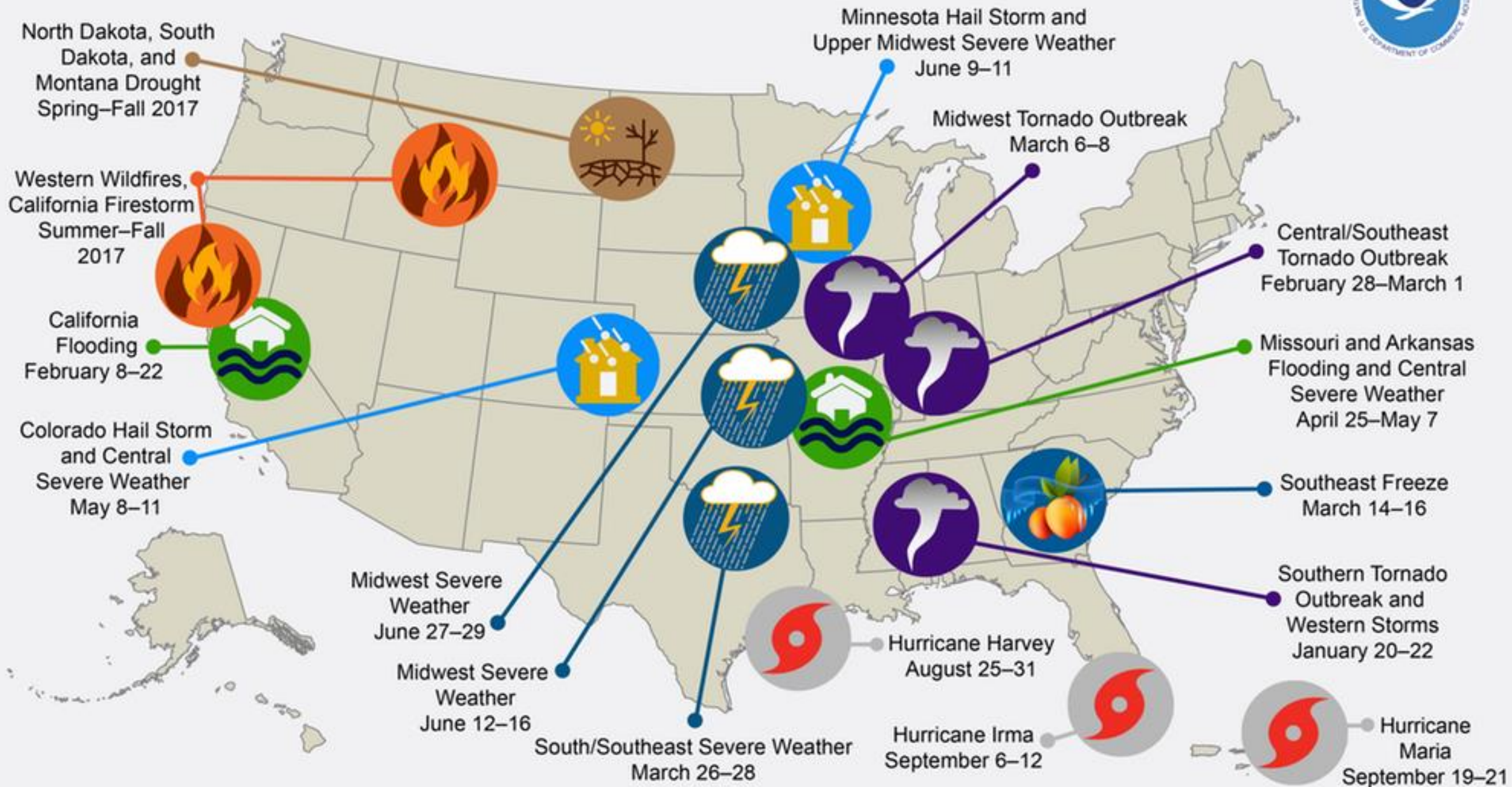
Vulnerability

220 assets were graphed and prioritized

SIX STEP PROCESS FOR MUNICIPAL CLIMATE ADAPTATION PLAN



U.S. 2017 Billion-Dollar Weather and Climate Disasters



This map denotes the approximate location for each of the 16 billion-dollar weather and climate disasters that impacted the United States during 2017.



Flooding at US 41 and Ringling (evacuation route) after heavy rain event



"Sunny Day Flooding" on Longboat Key – King Tide (saltwater coming up from storm drain)

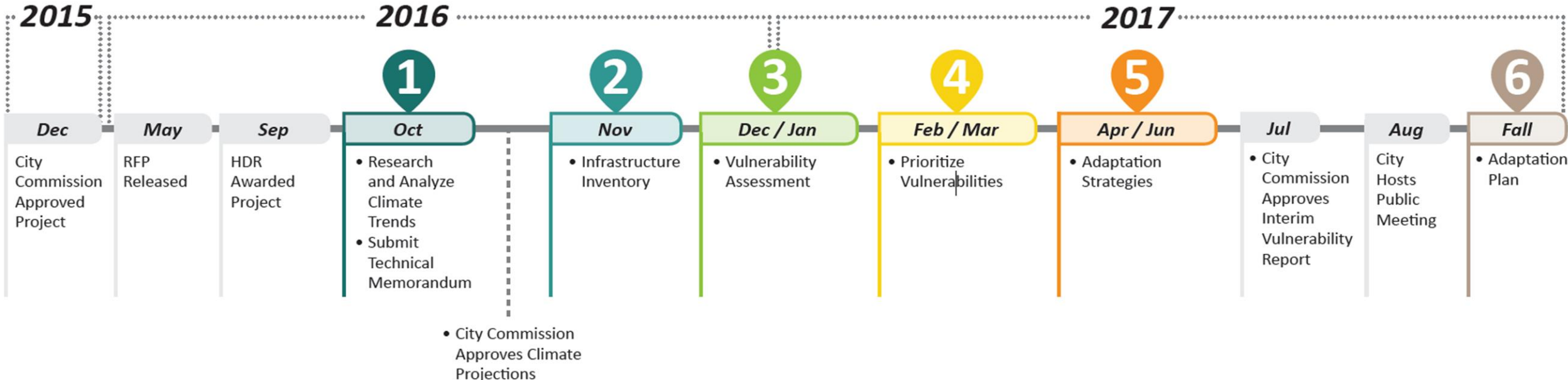
Storm surge associated with Tropical Storm Colin (June 2016) at local business [Photo credit Damon Powers]



DAMON
POWERS

**WE CAN'T WAIT UNTIL
AFTER THE STORM TO PLAN**

TIMELINE FOR SARASOTA'S CLIMATE ADAPTATION PLAN



MUNICIPAL PURCHASING DIVISION

The Purchasing Division has been working for the last three years on developing a strategy to ensure that the City of Sarasota is prepared for emergencies. While the processes and strategies are related to the City as a whole, they become more critical to the more vulnerable citizen of the Community if we are not successful in putting them into action.

Several principles have been established by the Purchasing Division:

Planning. Ensuring that contracts are in place so that City services and facilities are available and functional before, during and after an emergency.

- After IRMA the Purchasing Division followed up with each Department to ascertain what was needed to make sure operations continue after an emergency.



STORMS AND MUNICIPAL CONTRACTS - PURCHASES

Ensuring that contracts contain proper language for FEMA or other governmental reimbursement.

- This ensures that the City is not disqualified for money offered by federal and State agencies.
- This is an ever-changing process. Federal and State rules for reimbursement are constantly changing. It is important to keep informed of the changes.
- In the long-term, expending these funds out of pocket tend to affect social programs. Getting funds reimbursed helps keep a stable financial system.



MUNICIPAL CONTRACTS AND EMERGENCY PURCHASES (CONT'D.)

Ensure that back up contractors and vendors are in place to provide the much-needed services.

Ensure that adequate forms of procurement are in place to support the Community.

- This includes credit cards.
 - Activation of nontraditional merchant categories.
 - Revision of card limits.
- Cooperative contracts.
- Companies that the City has established credit with.



The Purchasing Division has developed a strategy to put in place emergency contracts that relate to fuel, food services, generators, barriers, sand and other services and commodities.

If City facilities are maintained to a level of emergency standard, then they can be utilized during times of crisis.

CLOSING THOUGHTS . . . ACTION STRATEGIES

ASSESS THE VULNERABILITIES IN YOUR COMMUNITY

DEVELOP A CLIMATE ADAPTATION PLAN THAT PROVIDES FOR PROPERTY AND PEOPLE

CREATE A PLAN TO PROVIDES FOR ALL OF YOUR RESIDENTS

UTILIZE YOUR MUNICIPAL AND BUDGETARY PROCESS TO ADDRESS VULNERABILITIES
THE EMERGENCY

BEFORE

REVIEW AND ADAPT YOUR PURCHASING POLICIES TO ADJUST TO EMERGENCIES

RESEARCH APPLICABLE GRANTS AND FUNDING SOURCES

DEVELOP A COMMUNICATION STRATEGY THAT TAKES INTO ACCOUNT LOSS OF POWER AND INTERNET ACCESS

LET'S KEEP IN TOUCH . . .

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