

SAVE THE DATE

Tech Fix: How can technology help us investigate, communicate and solve climate problems and foster resilience? iCAR Phase VI

When: Nov 12th and 13th, 2020

Where: Virtual – Details will be provided

This 2-day workshop, hosted by the Initiative on Coastal Adaptation and Resilience (iCAR), University of South Florida (USF), Gamma Theta Upsilon (GTU), University Climate Change Coalition (UC3) and the Tampa Bay Regional Planning (TBRPC), will engage invited speakers to discuss societal responses to climate change and the role of policy-makers, scholars and citizens in translating science and policy into action. We will explore regional, national and international efforts to use a variety of technologies to promote resiliency. Examples of technologies include Geographic Information Systems, Web applications integrated with a smart-phone, social media, twitter, smart transit, smart city applications including data collecting sensors and crowd-sourced data platforms, etc. Past workshop themes and accomplishments can be found at <https://www.stpetersburg.usf.edu/resources/icar/events/index.aspx>

We will also explore the interchange between technological fixes and socioeconomic marginalization, such as the way marginalization distances some communities from the benefits of technological tools and solutions being developed to increase resiliency.

Through a series of presentations (recorded and live), followed by Q&A sessions when possible, with experts from the national level, state level and Tampa Bay regions, participants will explore regional approaches (on-going and future) for addressing the resilience and adaptations of coastal cities to climate change and evaluate regional efforts in the context of national efforts. Participants will contribute to a survey-based SWOT analysis to evaluate current practices in regard to resilience.

Overall scope of this workshop includes exploration of the role and effects of technology on marginalization and/or equity and how marginalized communities are benefiting from technological tools and solutions being developed to increase resiliency. **Specific questions to be addressed include: How can/do we use tech to examine and understand climate problems and resiliency issues, how can/do we use tech to identify these problems, and how can we use tech to deal with/solve these problems?**

For example, during extreme weather events, a smartphone app for bus services to assist evacuation process or near real-time information on shelter capacity and opening can be helpful for marginalized communities who don't have vehicles or resources to leave town, but the app will not be useful if people don't have smartphones.



Technologies to be discussed at the workshop include GIS, remote sensing, GPS, spatially integrated models, geotagged social networks (e.g. data mined from twitter), standalone Web applications as well as integrated with a smartphone (such as SeeClickFix) and smart transit.

Workshop Objectives: This workshop will emphasize scholarly work on key topics and explore the following questions:

- ✓ The role of technology in adaptation planning of infrastructure in the context of climate-related hazards
 - How does development and use of technologies promote understanding of climate problems and resiliency issues,
 - How can/do we use tech to identify these problems, and how can we use tech to deal with / solve these problems?
 - What are the communication challenges for the adoption and use of technologies to foster resiliency?
- ✓ The role of technology in modeling and predicting climate change-related hazards such as sea-level rise, coastal flooding, extreme weather events
- ✓ The role of technology in fostering equity and reducing marginalization
- ✓ Strategies for overcoming lack of access to technologies for resilience in marginalized communities
- ✓ Effective strategies for communication that foster the adoption of new smart technologies for equitable resilience

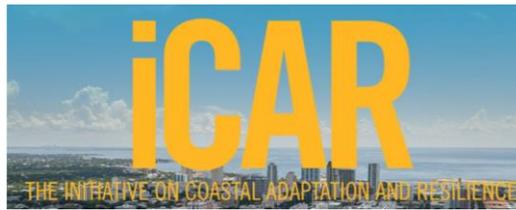
Workshop Topics:

1. The role of technology in short-term and long-term disaster planning and mitigation and community resiliency
2. Opportunities for and barriers to the use of technologies before, during and after a climate-related disaster in fostering resiliency
3. Opportunities, barriers and the practical challenges associated with the broader adoption of technologies even in cities that have smart city infrastructures to foster equitable resiliency
4. Role of Social Media in resiliency and disaster
5. Digital Inclusion/Inequity: Reliance on technology and ensuring access
6. Technology-enhanced community engagement and data viewing tools strategies
7. Role of systematic crowd sourced data in increased public participation

Who Should Attend:

- ✓ Citizens, and Representatives from Homeowners Associations, Neighborhood Civic organizations
- ✓ Businesses including but not limited to: Insurance industry, real estate, consulting firms, Energy providers
- ✓ NGOs (including those interested in environmental and social justice) and social service providers (religious organizations, affinity organizations)
- ✓ Students, faculty & researchers
- ✓ Elected officials & government administrators
- ✓ Professionals involved in coastal resilience: Transportation and urban planners, floodplain managers, emergency managers, public works, health professionals, natural resource managers, engineers & scientists.





Benefits:

- ✓ Learn from speakers (in real-time or from recorded sessions) chosen based on their academic and professional credentials and proven expertise in their fields
- ✓ Learn about cutting edge information (opportunities and barriers) regarding the role of technologies in promoting resiliency and reducing marginalization
- ✓ Exposure to new tools and technologies that are available for coastal resilience planning throughout Florida and beyond
- ✓ Shape research agendas and future climate adaptation efforts in the Tampa Bay region and beyond and for iCAR's community-driven research agenda.

To learn more about iCAR and past workshops please Visit our website at <https://www.stpetersburg.usf.edu/resources/icar/index.aspx>

