



# Lone Star UAS Center of Excellence & Innovation

## Corpus Christi City Council Meeting

July 16, 2019



# Background

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- This test event is the culmination of a five-year effort by NASA to develop and test for the creation of an Unmanned Aerial System (UAS) Urban Traffic Management (UTM) system.
- Lone Star UAS is one of two sites selected from seven FAA-designated test sites to test the behavior of UAS in complex, urban environments.
- The goal of this event is to combine the complex technologies of UTM hardware and software to ensure their safe use in avoiding collisions and landing among existing structures and modes of transportation present in cities.
- **This test event and success of the Lone Star UAS would not have been possible without the support of the City of Corpus Christi and Type A funds**
- We hosted a public forum on July 13<sup>th</sup> to gather questions and concerns from the public.

# Events

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- **Who:** Lone Star UAS Center of Excellence at Texas A&M University-Corpus Christi and NASA's UTM team
- **What:** Complete five flight test scenarios in downtown Corpus Christi to assess UAS Traffic Management capabilities in an urban environment
- **When:**
  - Full rehearsal July 25-26 & 29-31, 2019
  - Test event: August 12-16, August 19-23 (if needed)
  - 8:30 am to 3:30 pm with test flights from 10:00 am to 2:00 pm
- **Where:** Uptown & Bayfront, Corpus Christi, Texas
- **How:** Conduct flights with up to 10 live Unmanned Aircraft Systems in the air and up to 15 simulated systems simultaneously in a series of controlled environment events along pre-determined paths

# Impact

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- We respectfully request the City's partnership with us in this endeavor.
- An event of this scale and national importance requires the support and cooperation of several City departments, as well as community leaders and business owners in the downtown area.
- The test scenarios will require some re-routing of roadways and sidewalks in the uptown area during flights and usage of some park space in the downtown area.
- Corpus Christi Police and Fire Departments will be involved in the test events
  - As test scenario participants with their unique roles within public safety.
  - As support for traffic management.

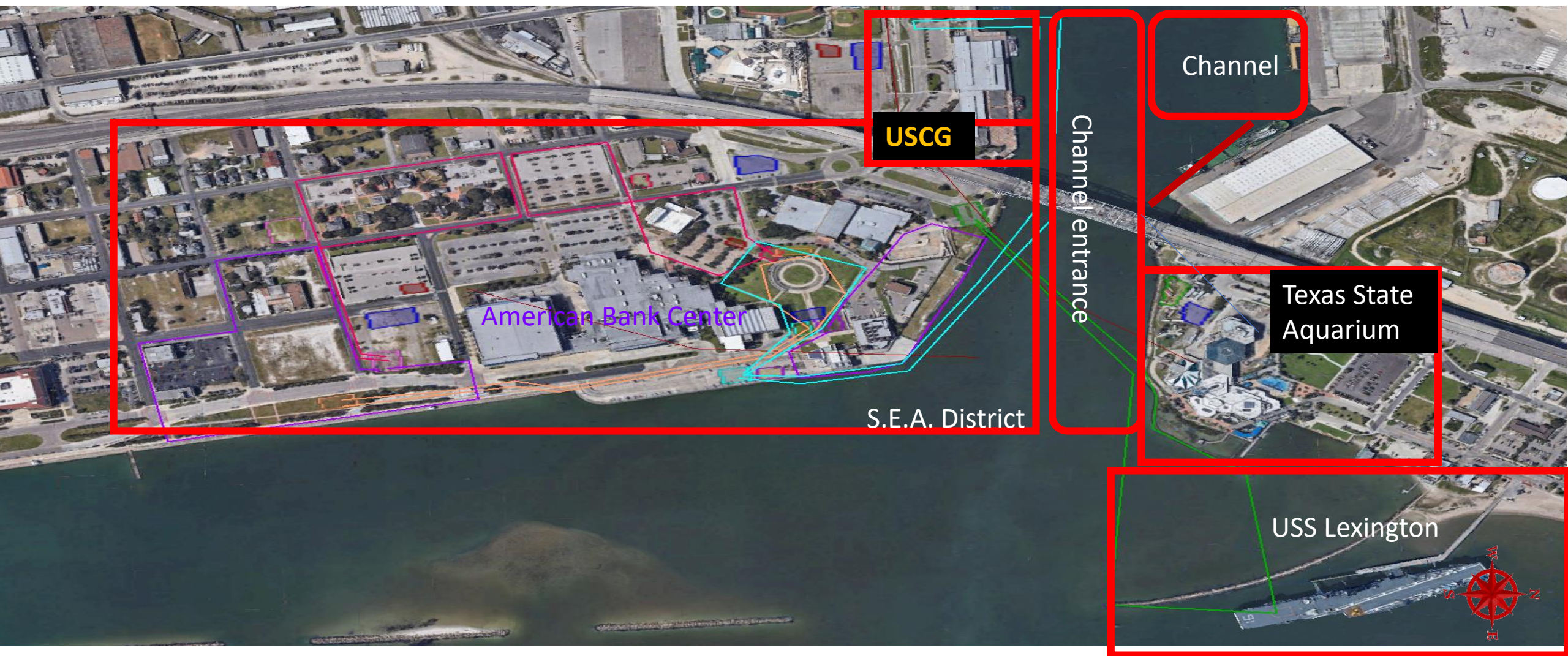


# Scenario 1



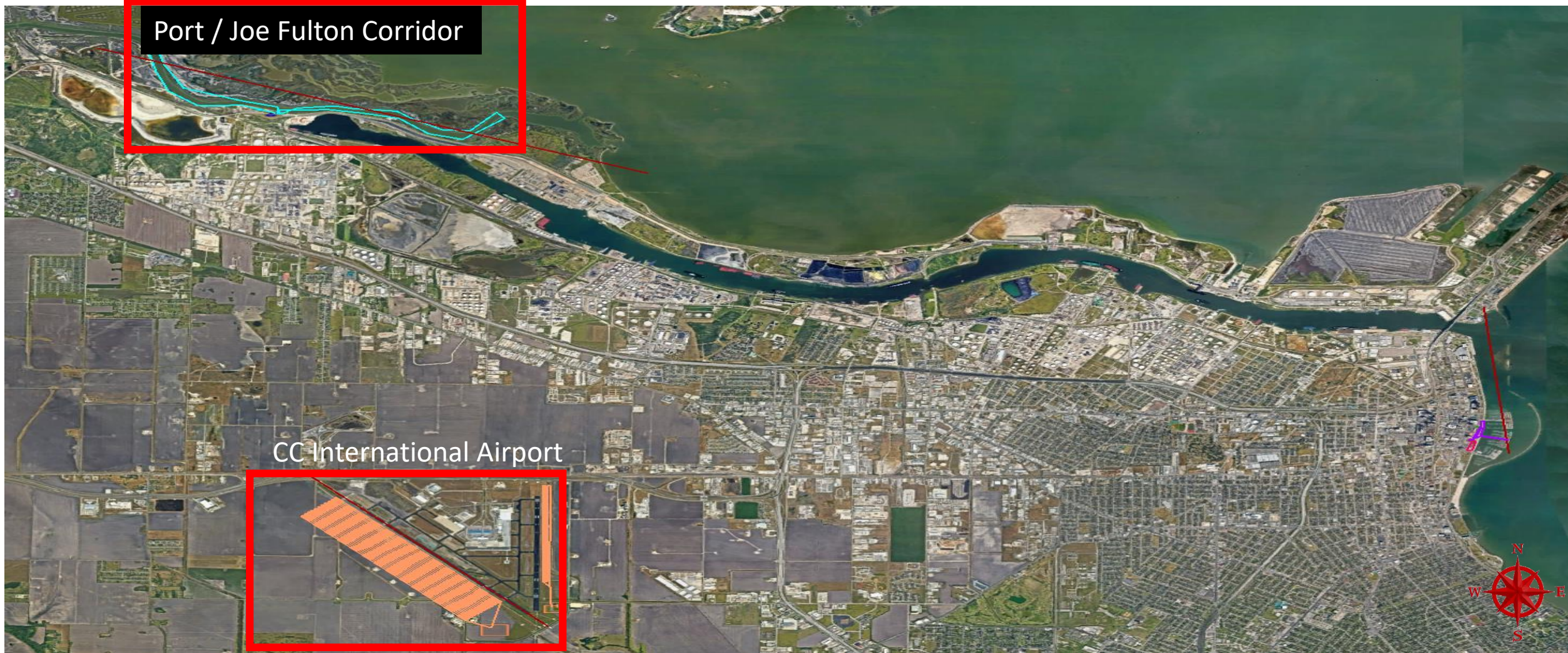


# Scenario 2





# Scenario 3-Port & CCIA





# Scenario 4





# Scenario 5





# Actions

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- We invite the public to observe the tests as they are conducted to learn more about the future of UAS technologies.
- We will host NASA/TAMU-CC Media Day Aug 15 at the American Bank Center.