

RESOLUTIONS, AWARDS AND PRESENTATIONS
E-ITEM 4.



AGENDA REPORT
February 26, 2019

Resolution to Support Space Florida Proposal for INFRA Grant

SUBJECT:

Board resolution to support Space Florida proposal for Cape Canaveral Spaceport Indian River Bridge Replacement/Space Commerce Way Connector Infrastructure for Rebuilding America (INFRA) Program.

FISCAL IMPACT:

None

DEPT/OFFICE:

Public Safety Office

REQUESTED ACTION:

It is requested that the Board of County Commissioners authorize a resolution to support the Space Florida INFRA Grant proposal. Resolution will be included in the Grant submission to USDOT.

SUMMARY EXPLANATION and BACKGROUND:

Space Florida is leading an effort to secure a USDOT INFRA Grant to enable replacement of NASA's 1964 Indian River Bridge and construction of improvements to the connecting Space Commerce Way. Both components of this Project are essential to the economic vitality of 21st Century space commerce and its benefits to both our Nation and Florida's Space Coast. Indian River Bridge is near its end-of-life and will soon be unable to support the transport of space bound or returning freight (e.g. satellites, rocket components, trucked supplies/commodities) due to age; the Space Commerce Way connector serves Exploration Park's growing workforce and manufacturing/research activities.

To win this grant opportunity, Space Florida requests letters of support from those organizations that support the Cape Canaveral Spaceport.

CLERK TO THE BOARD INSTRUCTIONS:

Return fully executed Resolution to the Public Safety Director.

ATTACHMENTS:**Description**

- ☐ [1\) Resolution](#)
- ☐ [2\) Letter of Support for Space Florida INFRA Grant](#)
- ☐ [3\) IRB-SCW INFRA Grant Support Request](#)
- ☐ [4\) INFRA Project Information](#)

REVIEWERS:**Department****Reviewer**

No Reviewers Available

CLERK TO THE BOARD INSTRUCTIONS:

Return fully executed Resolution and Chair signed letter to the Public Safety Group.

ATTACHMENTS:

Description

- ▢ **1) Resolution**
- ▢ **2) Letter of Support for Space Florida INFRA Grant**
- ▢ **3) IRB-SCW INFRA Grant Support Request**
- ▢ **4) INFRA project Information**



Tammy Rowe, Clerk to the Board, 400 South Street • P.O. Box 999, Titusville, Florida 32781-0999

Telephone: (321) 637-2001
Fax: (321) 264-6972
Tammy.Rowe@brevardclerk.us

February 27, 2019

MEMORANDUM

TO: Matthew Wallace, Public Safety Director

RE: Item F.15., Resolution and Letter Supporting Space Florida's INFRA Grant Proposal

The Board of County Commissioners, in regular session on February 26, 2019, adopted Resolution No. 19-024; and authorized the Chair to execute a Letter supporting Space Florida's INFRA Grant proposal. Enclosed are fully-executed Resolution and Letter.

Your continued cooperation is always appreciated.

Sincerely,

BOARD OF COUNTY COMMISSIONERS
SCOTT ELLIS, CLERK

Tammy Rowe

Tammy Rowe, Deputy Clerk

Encls. (2)

RESOLUTION 2019- 024

Resolution in support of Space Florida's application for the Cape Canaveral Spaceport Indian River Bridge and Space Commerce Way Connector INFRA Grant Proposal.

WHEREAS, Cape Canaveral Spaceport and Florida's Space Coast have witnessed an extraordinary transformation since the economically devastating retirement of NASA's Space Shuttle Program in 2011. In recent years, a growing fleet of privately operated commercial launch systems active at the Cape have reemployed thousands of space workers, and recaptured the majority share of the international market for commercial space transportation services; and

WHEREAS, the weakening of the 1964 bridge over the Indian River and constrained capacity of the Space Commerce Way connector highway will severely impede freight mobility and workforce access, putting at risk the economic vitality of our space industry, commercial support of critical government missions, and continued economic recovery of the hard-hit Space Coast; and

WHEREAS, the Indian River Bridge is near its end-of-life and will soon be unable to support the transport of space bound or returning freight (e.g. satellites, rocket components, trucked supplies/commodities) due to age. The Space Commerce Way connector serves Exploration Park's growing workforce and manufacturing/research activities and will enable increased traffic flow for hurricane evacuation. Also, added to these traffic loads is the recent relocation of the entrance to the KSC Visitor Complex which must accommodate over 1.5 million visitors annually; and

WHEREAS, Space Florida, in conjunction with NASA, FDOT and the Space Coast Transportation Planning Organization (TPO) is seeking grant funds for the "Cape Canaveral Spaceport Indian River Bridge Replacement/Space Commerce Way Connector Infrastructure for Rebuilding America (INFRA) Program" (Project) through the Department of Transportation's Nationally Significant Freight and Highway Projects (INFRA Grants) for Fiscal Year 2019; and

WHEREAS, this Project will help ensure sustainable and growth-enabling connection of this one-of-a-kind intermodal spaceport to the National Highway Freight Network and National Highway System, and will directly support SpaceX, Blue Origin, Astrotech, ULA, Sierra Nevada, NASA, the DoD and all other operators, users suppliers and visitors to the Cape Canaveral Spaceport; and

WHEREAS, Brevard County supports the enabling and ensuring of freight mobility and workforce access to the Cape's intermodal spaceport through the Cape Canaveral Spaceport Indian

River Bridge Replacement/Space Commerce Way Connector Project and supports the Project objectives to:

1. Replace NASA's obsolete and rapidly weakening 1964 bridge;
2. Expand capacity of the connecting highway serving a growing space commerce park;
3. Transfer asset life-cycle responsibilities and ownership liabilities from a federal to state entity; and

WHEREAS, Brevard County finds that this Project will be beneficial to the community.

NOW, THEREFORE the Board of County Commissioners of Brevard County, Florida hereby resolves;

1. The foregoing recitals are hereby incorporated herein.
2. The Board of County Commissioners fully supports Space Florida's application for grant funds for the Cape Canaveral Spaceport Indian River Bridge Replacement/Space Commerce Way Connector Infrastructure for Rebuilding America (INFRA) Program (Project) through the Department of Transportation's Nationally Significant Freight and Highway Projects (INFRA Grants) for Fiscal Year 2019;
3. The Board of County Commissioners directs staff to provide a copy of this resolution to Space Florida for inclusion in the grant application to the US Department of Transportation.

DONE, ORDERED AND ADOPTED in regular session this 26th day of February, 2019.

ATTEST:



Scott Ellis, Clerk

BOARD OF COUNTY COMMISSIONERS
BREVARD COUNTY, FLORIDA



Kristine Isnardi,
Chair

As Approved by the Board on February 26, 2019



BOARD OF COUNTY COMMISSIONERS

KRISTINE ISNARDI, COMMISSIONER, DISTRICT 5

490 Centre Lake Dr. NE
Suite 175
Palm Bay, FL 32907
Phone: 321.253.6611
Fax: 321.253.6620
D5.Commissioner@brevardfl.gov

Danielle Stern, Chief of Staff
Vic Luebker, Community Affairs Director
Janette Roig, Legislative Aide

February 26, 2019

The Honorable Elaine L. Chao
Secretary of Transportation
US Department of Transportation, Office of the Secretary
1200 New Jersey Avenue, SE
Washington DC 20590

Subject: INFRA Grant Funding Application for the Cape Canaveral Spaceport Indian River Bridge Replacement and Space Commerce Way Connector Project

The Honorable Ms. Chao:

As Florida's Spaceport Authority, Space Florida is leading an effort in cooperation with NASA, and with the assistance of FDOT and the Space Coast TPO, to secure a USDOT INFRA Grant to replace the Indian River Bridge (also known as the NASA Causeway Bridge) and complete Space Commerce Way to 4 lanes.

Cape Canaveral Spaceport and Florida's Space Coast have witnessed an extraordinary transformation since the economically-devastating retirement of NASA's Space Shuttle Program in 2011. A growing fleet of privately-operated commercial launch systems active at the Cape have re-employed thousands of space workers, and recaptured the majority share of the international market for commercial space transportation services.

This Project is the bridge to our nation's future in space – a future as a global leader in a space economy projected to have an annual value of \$600 billion by the time the Project is fully completed in 2024. It is necessary to sustain and grow America's 21st Century leadership in commercial space transportation. It will enable a young but maturing industry that is increasingly vital to our economic growth, our national security, and our destiny to pioneer exploration and resource development beyond our atmosphere.

This critical \$165M project will replace NASA's obsolete 1964 bridge, expand capacity of Space Commerce Way connector highway, and transfer asset life-cycle responsibilities from NASA to Space Florida. The Indian River Bridge is near its end-of-life and will soon be unable to support the transport of space bound or returning freight (e.g. satellites, rocket components, trucked supplies / commodities) due to age; the Space Commerce Way connector serves Exploration Park's growing workforce and manufacturing/research activities and will enable increase traffic flow for hurricane evacuation. Added to these traffic loads is the recent relocation of the entrance to the KSC Visitor Complex, which must accommodate over 1.5 million visitors annually.

FLS
CVR

In the next year, SpaceX and Boeing will test fly new commercial capsules and soon thereafter offer NASA astronaut crews and others transport to the International Space Station. The industry expects an expanding market for commercial human spaceflight from the Cape along with a dramatically growing launch tempo for satellites and other types of space cargo. The U.S. Air Force 45th Space Wing is ramping up to support 48 launches per year over the next few years. The Cape's launch tempo could reach well over 100 per year to satisfy a space cargo demand of 1600 metric tons per year by 2025.

More than any other Project the Department is likely to consider, this Project will build an asset significant for the nation's future, in place of a current and future federal liability. It exemplifies the INFRA Program's key objectives, most dramatically as an infrastructure project that supports economic vitality at the national and regional level.

The Brevard County Board of Commissioners unanimously supports the Space Florida effort to lead this project to the benefit of the nation and the Florida's Space Coast as per resolution done, ordered and adopted in regular session, 26 February, 2019.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Kristine Isnardi', written in a cursive style.

Kristine Isnardi, Chair
Brevard County Board of County Commissioners

As approved by Board 2/26/19



Cape Canaveral Spaceport Indian River Bridge & Space Commerce Way Connector

A project to facilitate 21st century multi-modal freight mobility for space commerce at the world's premiere spaceport

A team effort: To address a Space Coast issue of critical importance to its vitality and future growth as the leader of global space commerce, and our nation's most capable spaceport for supporting civil space exploration as well as national defense on earth and in space.

2019 USDOT Funding Opportunity: Published on Dec. 21, 2018, this funding opportunity by U.S. Transportation Department expects to award about \$900 million for nationally significant freight and highway projects that support economic vitality. Selected projects of merit are eligible for up to 80% in federal funds, including 60% of future costs from USDOT INFRA Grant. Space Florida is identifying an innovative financing and user participation approach for the non-federal match requirement of at least 20%.

What will the Project Achieve? Replace NASA's obsolete 1964 bridge, expand capacity of Space Commerce Way connector highway, and transfer asset life-cycle responsibilities from NASA to Space Florida, Florida's space transportation authority. The objective is to facilitate 21st century multi-modal freight mobility and workforce access for space commerce at the world's premiere spaceport. It will ensure sustainable and growth-enabling connection of this one-of-a-kind intermodal spaceport to the National Highway Freight Network and National Highway System. It will directly support SpaceX, Blue Origin, Astrotech, ULA, Sierra Nevada, NASA, the DoD, and all operators, users, suppliers, and visitors to the Cape Canaveral Spaceport.

Why is the Project needed? Indian River Bridge is near its end-of-life and will soon be unable to support the transport of space bound or returning freight (e.g. satellites, rocket components, trucked supplies/commodities) due to age; the Space Commerce Way connector serves Exploration Park's growing workforce and manufacturing/research activities. Added to these traffic loads is the recent relocation of the entrance to the KSC Visitor Complex, which must accommodate over 1.5 million visitors annually.

What will the Project Cost? The Project is estimated to cost \$165 million, including the extended maintenance costs over future years. That estimate covers replacement of the bridge and the widening of Space Commerce Way to expand its capacity to move freight, workers, and public

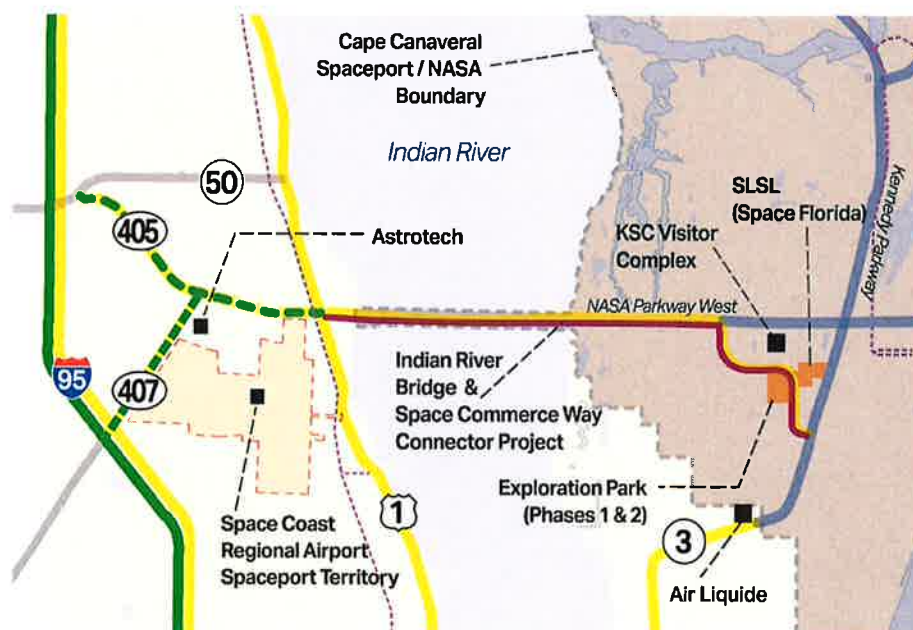
users. Project costs will be proposed to be covered up to 80% from federal sources, and at least 20% from Space Florida-facilitated sources using its financing tools for up-front capital costs and its commitment to the long range maintenance costs for those transportation assets.

Partners & Roles: Space Florida is leading the INFRA Grant effort as an eligible special purpose district. Participating agencies partnering in this effort to secure the INFRA Grant, and their Project roles are:

- Space Florida - Lead applicant and Project Sponsor, grant administration, Project execution, responsible entity for completion and future operations/maintenance.
Proposed that NASA transfer ownership/asset operation & maintenance of NASA Causeway/Indian River Bridge and Space Commerce Way to Space Florida with those assets remaining infrastructure elements of the intermodal Cape Canaveral Spaceport.
- NASA - Co-funding federal partner; implement by property transfers to Space Florida
- FDOT - Support to Space Florida under existing cooperative programs; technical support and advice
- FDOT District 5 – Performance of project definition & environmental analysis; preliminary and final design; assist project implementation in collaboration with Space Florida
- Space Coast TPO – Technical assistance in support of grant application; no funding role

Schedule Milestones: Deadline for application is March 4, 2019. Awarded Project expected to be under construction within 18 months of funds being obligated by USDOT.

Work in Progress: Necessary environmental analysis is either completed or well underway. FDOT in cooperation with and funded by NASA is planning to complete Indian River Bridge PD&E by March 2020, with final design on selected alternative targeted for 2021 to enable construction soon after. Permitting to facilitate widening of Space Commerce Way is in work by Space Florida. Project components will be “shovel ready” well within Grant timelines.





February 12, 2019

Parties Interested in the Replacement of the Indian River Bridge
and/or Widening of Space Commerce Way

Subject: Request for Letter of Support for Cape Canaveral Spaceport Indian River Bridge & Space
Commerce Way Connector INFRA Grant Proposal

As Florida's Spaceport Authority, Space Florida is leading an effort in cooperation with NASA, and with the assistance of FDOT and the Space Coast TPO, to secure a USDOT INFRA Grant to replace the Indian River Bridge (also known as the NASA Causeway Bridge) and complete Space Commerce Way to 4 lanes. This Project is the bridge to our nation's future in space – a future as a global leader in a space economy projected to have an annual value of \$600 billion by the time the Project is fully completed in 2024. It is necessary to sustain and grow America's 21st Century leadership in commercial space transportation. It will enable a young but maturing industry that is increasingly vital to our economic growth, our national security, and our destiny to pioneer exploration and resource development beyond our atmosphere.

This critical \$165M project will replace NASA's obsolete 1964 bridge, expand capacity of Space Commerce Way connector highway, and transfer asset life-cycle responsibilities from NASA to Space Florida. The Indian River Bridge is near its end-of-life and will soon be unable to support the transport of space bound or returning freight (e.g. satellites, rocket components, trucked supplies / commodities) due to age; the Space Commerce Way connector serves Exploration Park's growing workforce and manufacturing/research activities and will enable increase traffic flow for hurricane evacuation. Added to these traffic loads is the recent relocation of the entrance to the KSC Visitor Complex, which must accommodate over 1.5 million visitors annually.

The objective of the project is to facilitate 21st century multi-modal freight mobility and workforce access for space commerce at the world's premiere spaceport. It will ensure sustainable and growth-enabling connection of this one-of-a-kind intermodal spaceport to the National Highway Freight Network and National Highway System. It will directly support SpaceX, Blue Origin, Astrotech, ULA, Sierra Nevada, NASA, the DoD, and all operators, users, suppliers, and visitors to the Cape Canaveral Spaceport.

By February 22, 2019, we request a letter of support from your organization to be included in the grant application package. The letter should be addressed to:

The Honorable Elaine L. Chao
Secretary of Transportation
US Department of Transportation, Office of the Secretary
1200 New Jersey Avenue, SE
Washington DC 20590

Subject: INFRA Grant Funding Application for the Cape Canaveral Spaceport Indian
River Bridge Replacement and Space Commerce Way Connector Project
Please forward the completed letter as a .pdf file to ecody@spaceflorida.gov or
mbontrager@spaceflorida.gov.

505 ODYSSEY WAY, SUITE 300, EXPLORATION PARK, FL 32953
T 321.730.5301 • SPACEFLORIDA.GOV

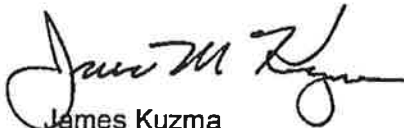
Correspondence ID# 10236

The very first USDOT criterion for evaluating merits of the application is "Support for National or Regional Economic Vitality." We would suggest that you consider the following key points to include in your letter of support:

- Cape Canaveral Spaceport and Florida's Space Coast have witnessed an extraordinary transformation since the economically-devastating retirement of NASA's Space Shuttle Program in 2011. A growing fleet of privately-operated commercial launch systems active at the Cape have re-employed thousands of space workers, and recaptured the majority share of the international market for commercial space transportation services.
- Most dramatically, the manufacturing of both spacecraft and rockets have taken up residence at the Cape for the first time in its history, with Space Florida's Exploration Park becoming home to over 900,000 square feet of manufacturing floor space and hundreds of jobs.
- In the next year, SpaceX and Boeing will test fly new commercial capsules and soon thereafter offer NASA astronaut crews and others transport to the International Space Station. The industry expects an expanding market for commercial human spaceflight from the Cape along with a dramatically growing launch tempo for satellites and other types of space cargo. The U.S. Air Force 45th Space Wing is ramping up to support 48 launches per year over the next few years. The Cape's launch tempo could reach well over 100 per year to satisfy a space cargo demand of 1600 metric tons per year by 2025.
- The Cape's capacity and fleet diversity are the envy of the world's space-faring countries – a new standard to compete towards. Those characteristics also make it an essential component for assured space access for our national security.
- But the weakening 1964 bridge over the Indian River and constrained capacity of the connector highway will severely impede freight mobility and workforce access, putting at risk the economic vitality of our space industry, commercial support of critical Government missions, and continued economic recovery of the hard-hit Space Coast.
- More than any other Project the Department is likely to consider, this Project will build an asset significant for the nation's future, in place of a current and future federal liability. It exemplifies the INFRA Program's key objectives, most dramatically as an infrastructure project that supports economic vitality at the national and regional level.

My point of contact is Mark Bontrager at 321-730-5301, x235 or mbontrager@spaceflorida.gov.
Thank you for your continued support of Space Transportation in Florida!

Sincerely,



James Kuzma
Senior Vice President & General Manager, Space Florida

Attachment: Cape Canaveral Spaceport Indian River Bridge & Space Commerce Way Connector