

The Florida Senate
COMMITTEE MEETING EXPANDED AGENDA
MILITARY AND VETERANS AFFAIRS, SPACE, AND
DOMESTIC SECURITY
Senator Wright, Chair
Senator Collins, Vice Chair

MEETING DATE: Tuesday, February 11, 2025
TIME: 1:45—3:45 p.m.
PLACE: 301 Senate Building

MEMBERS: Senator Wright, Chair; Senator Collins, Vice Chair; Senators Burgess, Sharief, Thompson, and Truenow

TAB	BILL NO. and INTRODUCER	BILL DESCRIPTION and SENATE COMMITTEE ACTIONS	COMMITTEE ACTION
1	Presentation by SpaceX on Activities and Spaceport Operations		Presented
2	Presentation by Nuview on Commercial Satellite LiDAR Mapping		Presented
3	Presentation by Space Florida on Space Florida's Strategic Update of the Aerospace Industry in Florida		Presented
4	Presentation by the National Aeronautics and Space Administration on Activities and Spaceport Operations		Presented
Other Related Meeting Documents			



SPACEX

KIKO DONTCHEV
VP, LAUNCH

February 11, 2025



SpaceX

- The world's leading space launch and space services provider
 - **Launch: 440+** successful launches to orbit and beyond, for the U.S. Government, global commercial customers, and Starlink
 - **Reusability: 400+** rocket landings and **375+** re-flights
 - **Human Spaceflight: 9** successful NASA crewed missions to orbit since May 2020 (+1 underway today – Crew-9), and **5** private orbital crewed flights – all from Florida
 - **Going to Mars: 7** completed integrated flight tests on Starship, the most powerful rocket and spacecraft in history
- Designing, manufacturing, launching, and operating **Starlink**, providing high-speed, low-latency satellite broadband across Florida, the United States, and around the world



Florida

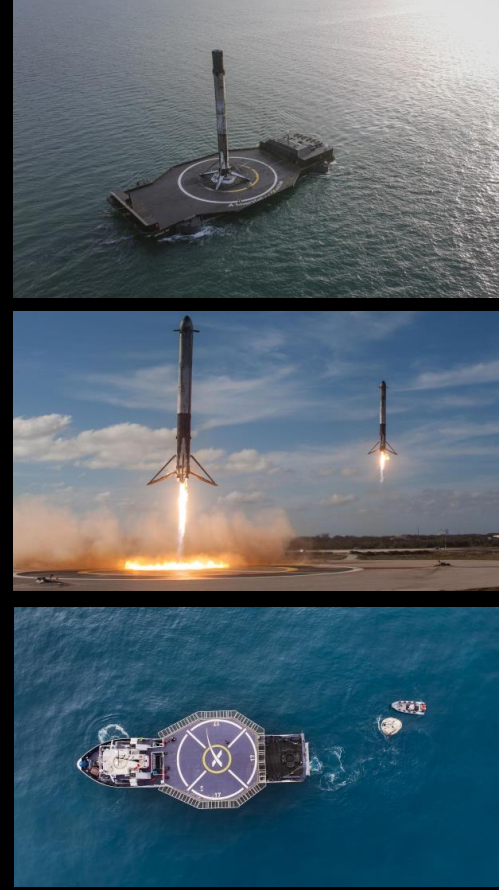
Launch Complex 39A



Launch Complex 40



Recovery

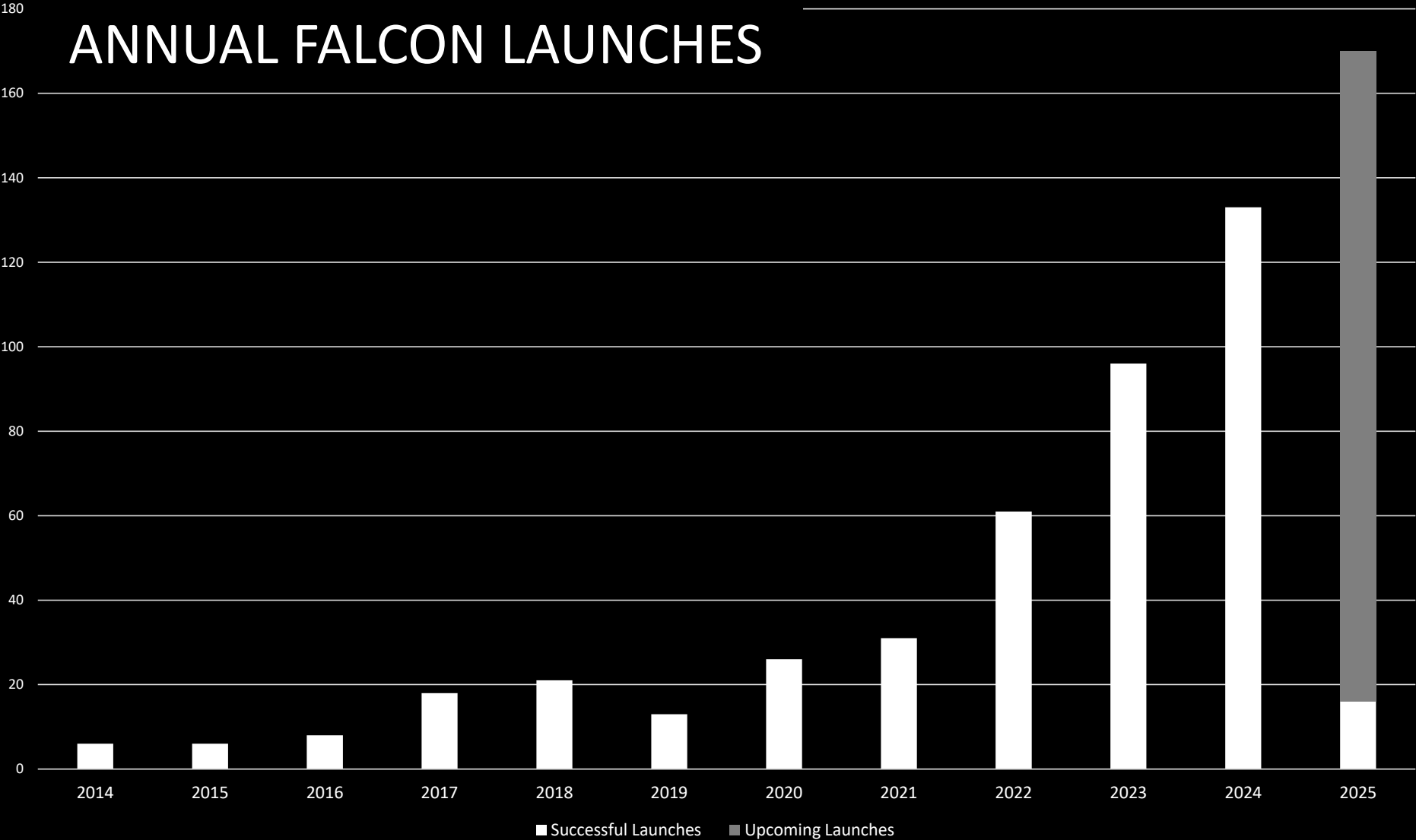


Processing





ANNUAL FALCON LAUNCHES



HUMAN SPACEFLIGHT

A close-up, high-angle view of the SpaceX Dragon spacecraft in orbit. The white, metallic exterior of the capsule is visible, with the American flag and the word 'SPACEX' clearly marked. The circular hatch is open, revealing the interior of the cabin. The background is the deep black of space.

48

TOTAL SUCCESSFUL
LAUNCHES

This includes cargo missions for ISS
resupply, human spaceflight missions
to the ISS and Earth orbit

45

VISITS TO THE ISS

We work with NASA and other
partners to provide access to the
International Space Station

27

TOTAL
REFLIGHTS

Dragon is reusable, with seven
operational spacecraft supporting Crew
and Cargo missions to orbit—all
processed in Florida



STARLINK

SERVING MORE THAN 4.6 MILLION HOUSEHOLDS GLOBALLY
IN OVER 120 MARKETS, ON ALL 7 CONTINENTS
7,000+ SATELLITES LAUNCHED
DIRECT TO CELL CAPABILITY
100% COVERAGE IN FLORIDA – OVER 100,000 HOUSEHOLDS TODAY
SUPPORTING DISASTER RELIEF AND RECOVERY OPERATIONS



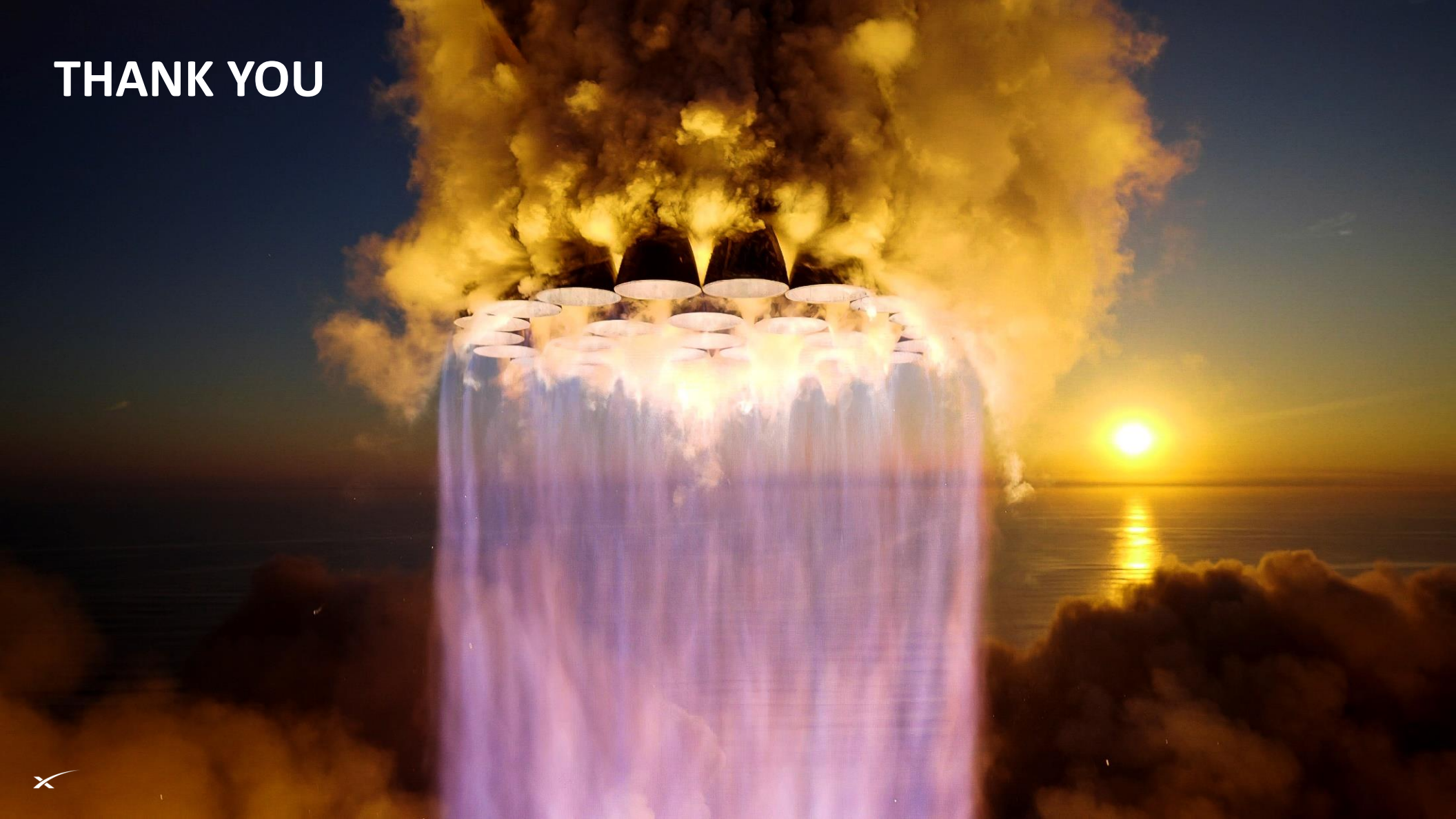
STARSHIP



HIGH RATE OPERATIONS



THANK YOU



The Florida Senate

APPEARANCE RECORD

SPACEY

2/11/25

Meeting Date

Military Affairs, Defense Space

Committee

Deliver both copies of this form to

Senate professional staff conducting the meeting

Bill Number or Topic

Amendment Barcode (if applicable)

Name

Kiko Datchev

Phone

738-218 3829

Address

1 Beech Road

Email

kiko@spacey.com

Street

Hawthorne CA

City

State

Zip

Speaking:

☒

For

☐

Against

☒

Information

OR

Waive Speaking:

☐

In Support

☐

Against

PLEASE CHECK ONE OF THE FOLLOWING:

☒

I am appearing without compensation or sponsorship.

☐

I am a registered lobbyist, representing:

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This form is part of the public record for this meeting.

S-001 (08/10/2021)



Measure.Analyze.Understand.



Core Values



THE FUTURE IS HERE

Our Products



Our Vision



Mission

We will be the global market-maker in LiDAR.

FLORIDA GROWN

Highlighting the roots and local focus of our business.



FLORIDA OWNED



FLORIDA MADE



**ORLANDO
HEADQUARTERS**

LAKE NONA[®]





FLORIDA OWNED



FLORIDA MADE



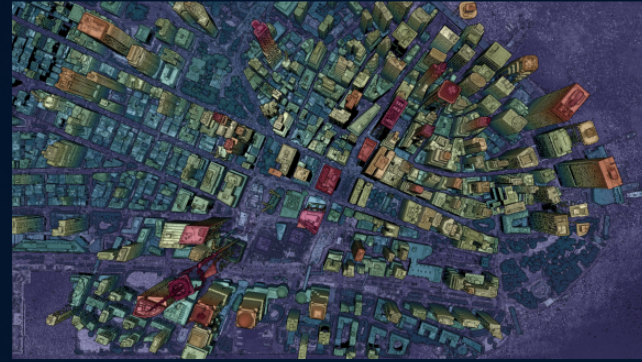
ORLANDO HEADQUARTERS

LAKE NONA®





3D INSIGHTS



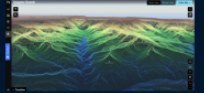
SATELLITES



SENSORS

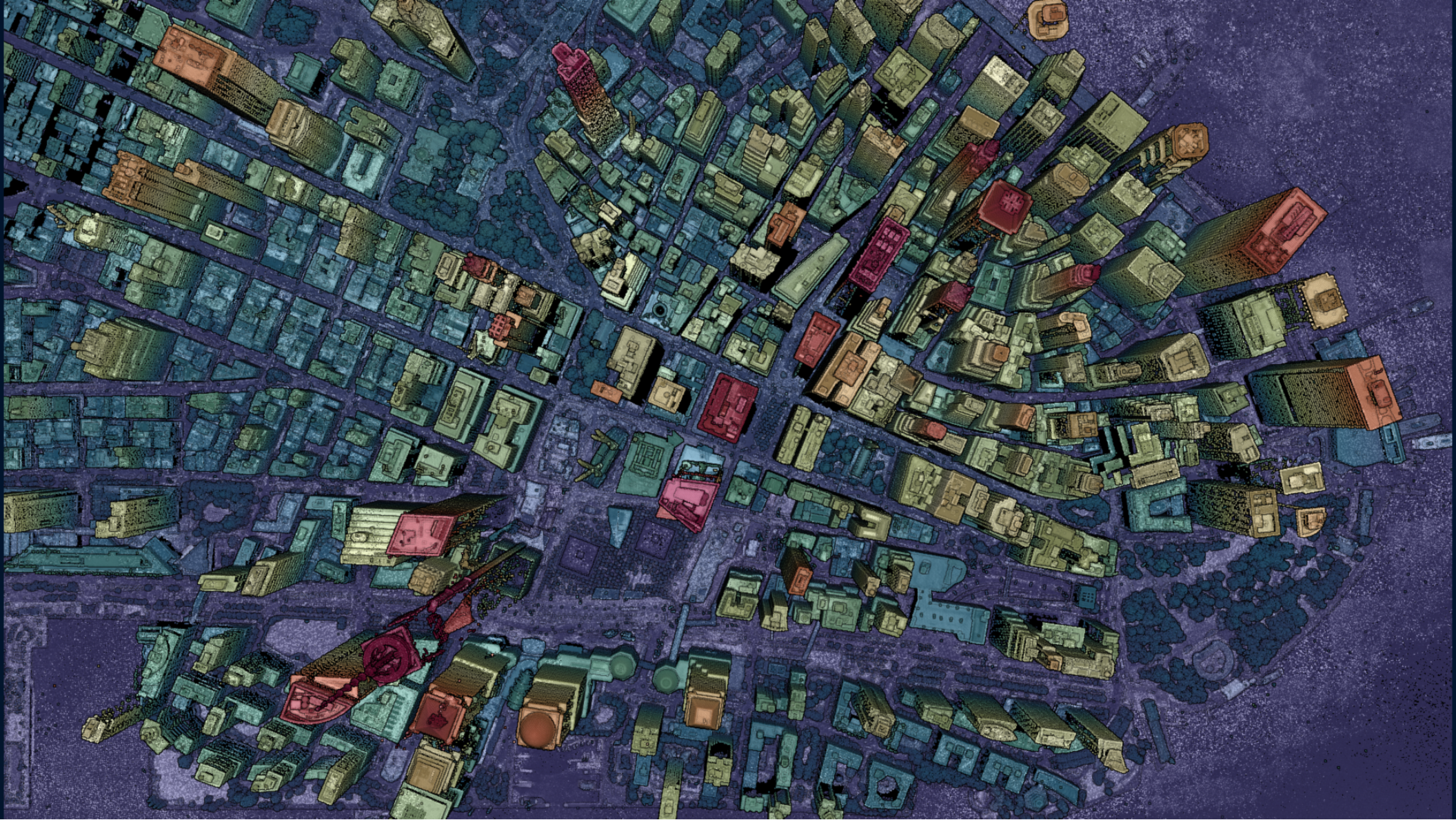


SOFTWARE
SOLUTIONS



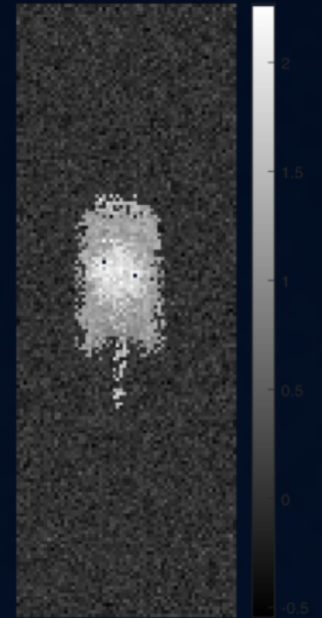
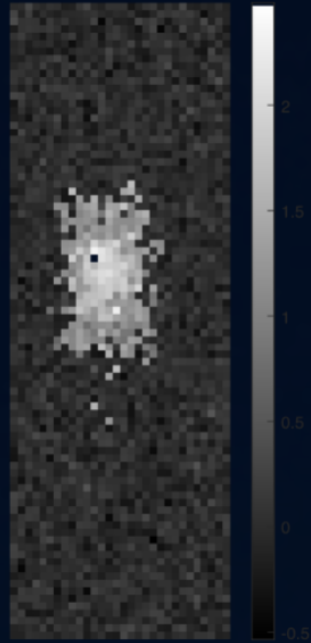
UNPRECEDENTED
DETAIL

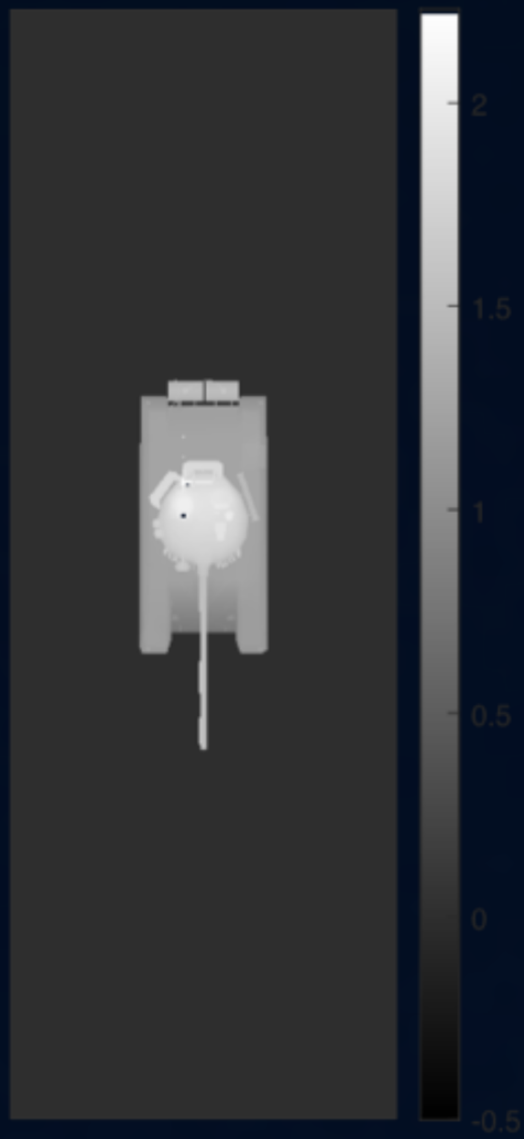


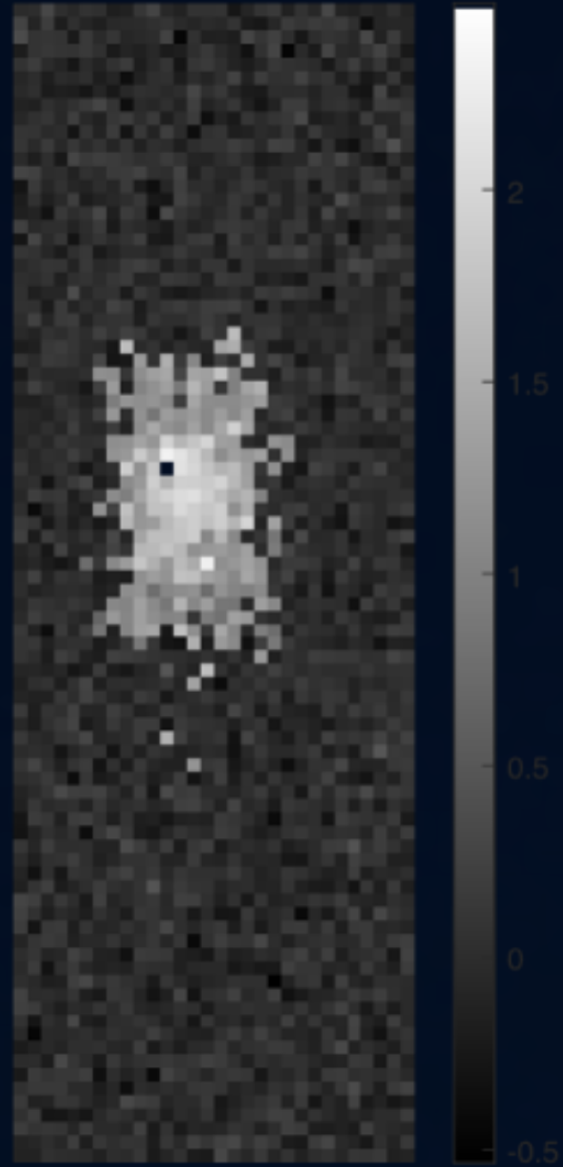


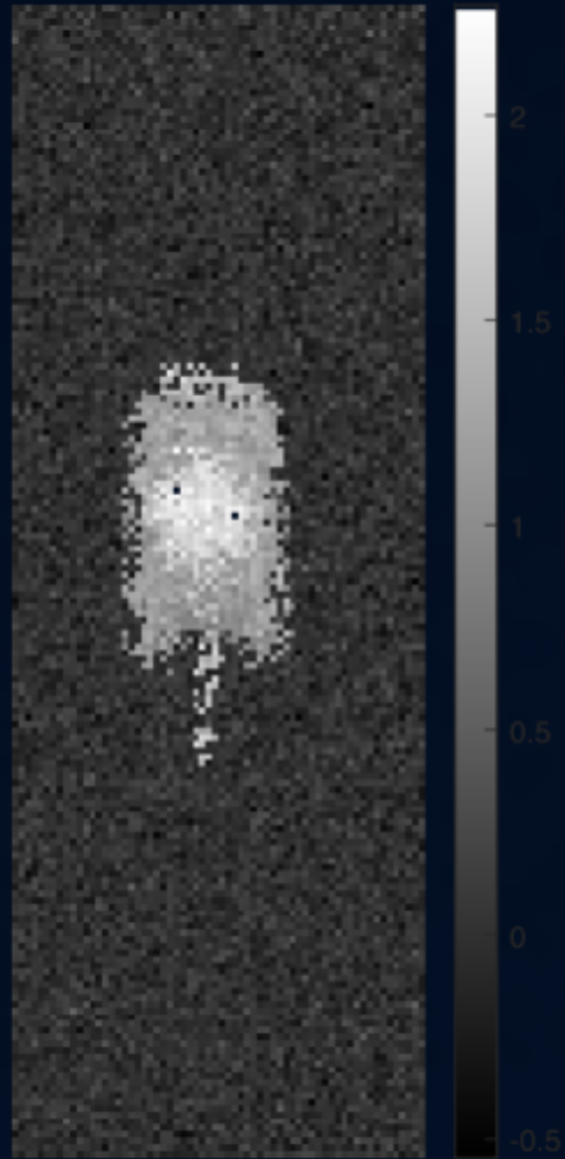


Step Change to ISR – Identification of a T72 Tank

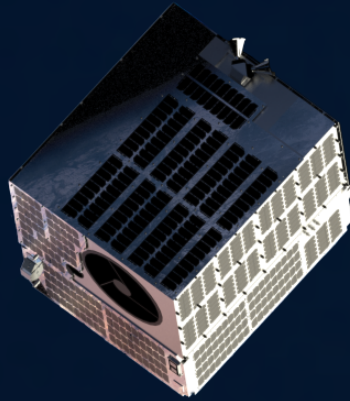








SATELLITES

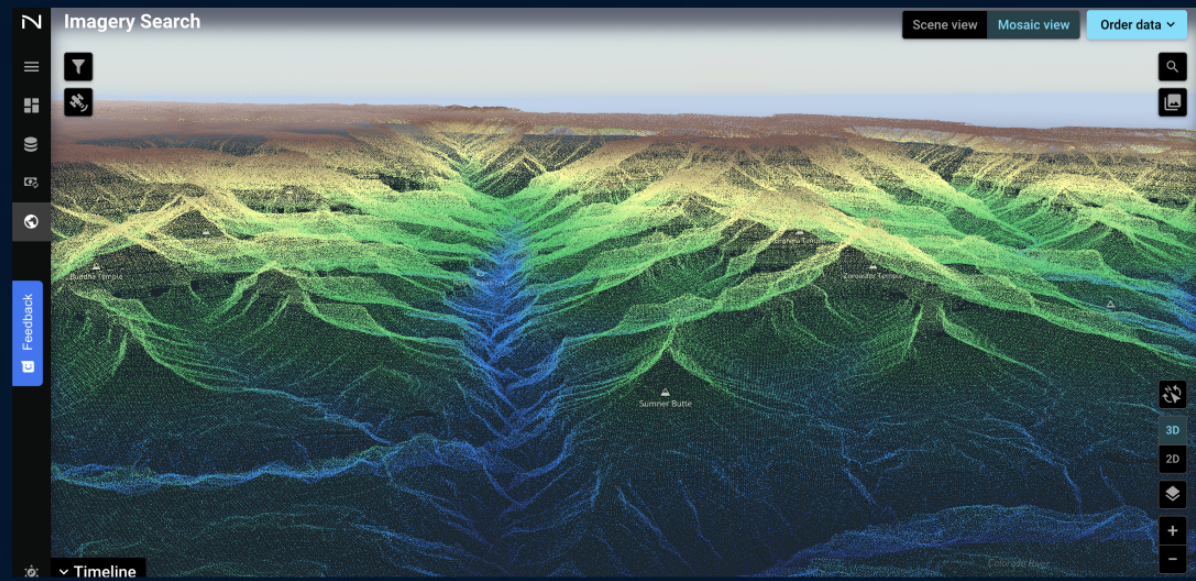


SENSORS

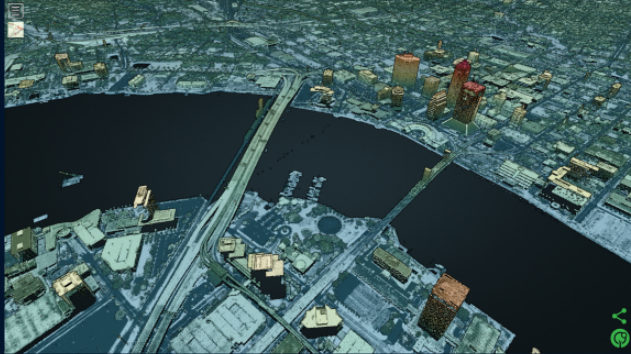


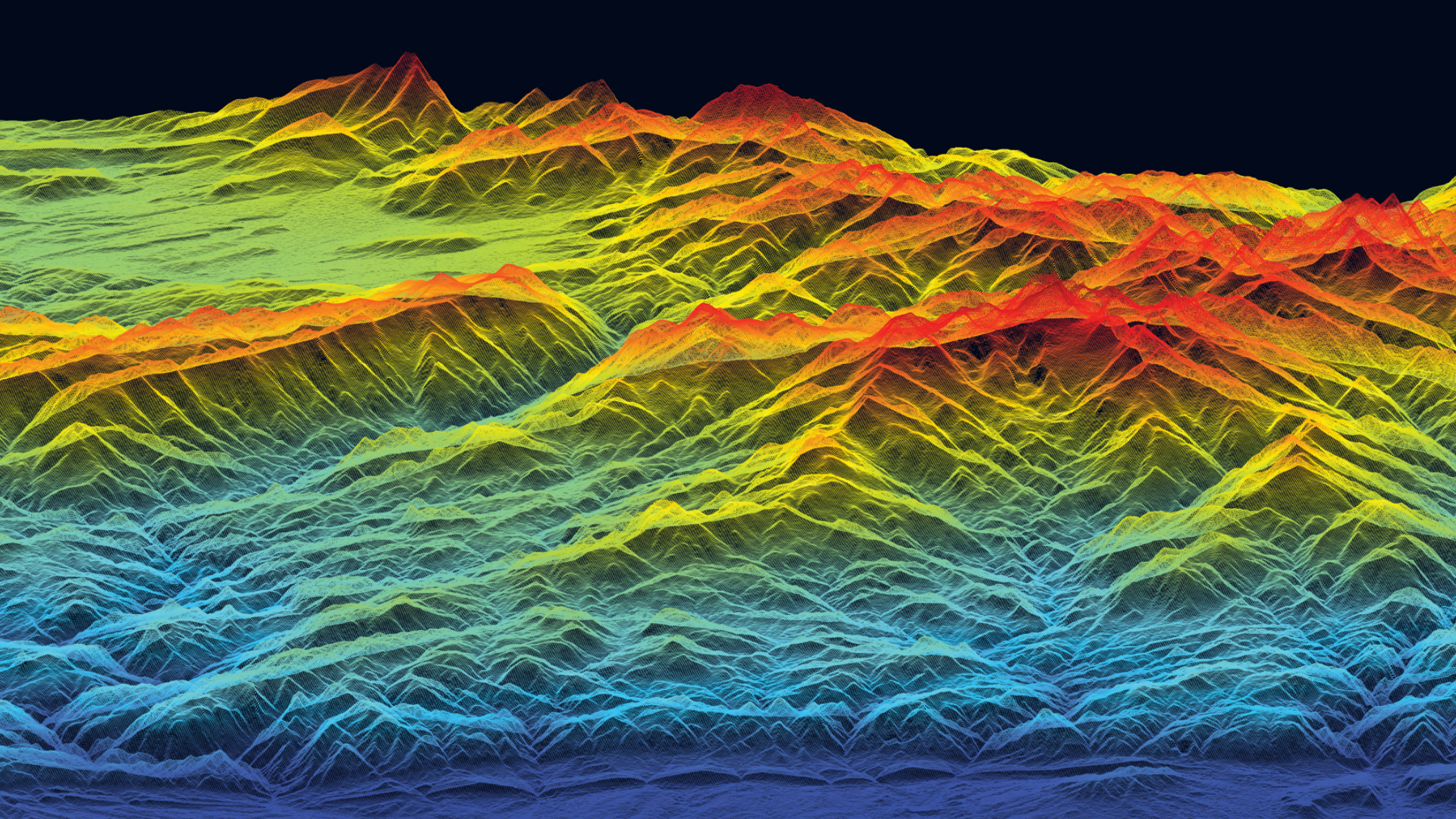


SOFTWARE SOLUTIONS

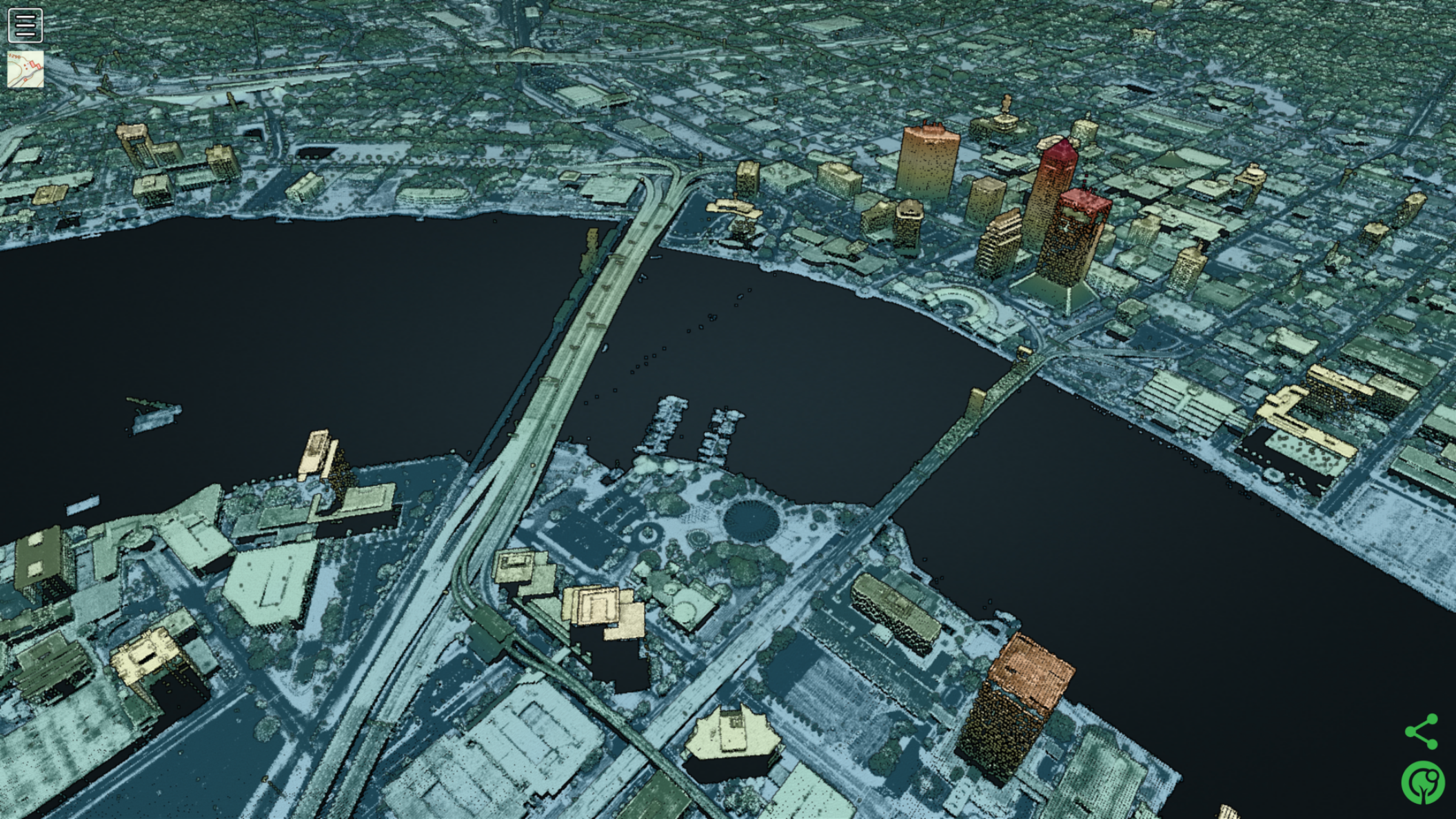


UNPRECEDENTED DETAIL





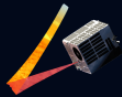




LASER EARTH IMAGING

Advanced space lasers provide precise 3D models of our planet.

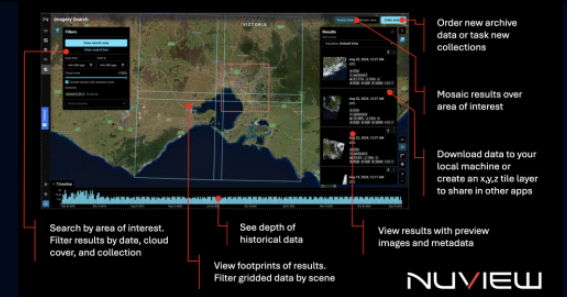
SPACE LASERS



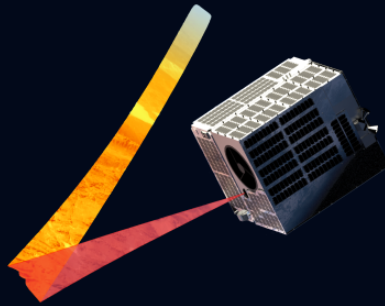
NEW PHENOMENOLOGY



INSANELY FAST RENDERING



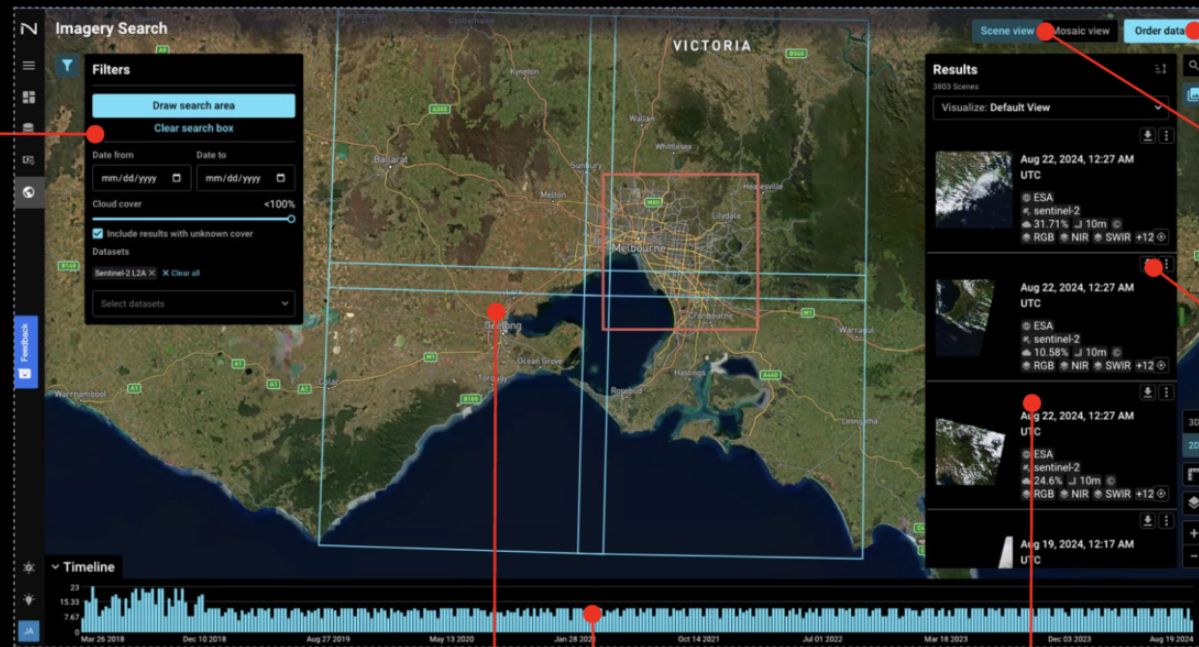
SPACE LASERS



NEW PHENOMENOLOGY



INSANELY FAST RENDERING



Search by area of interest.
Filter results by date, cloud
cover, and collection

See depth of
historical data

View footprints of results.
Filter gridded data by scene

Order new archive
data or task new
collections

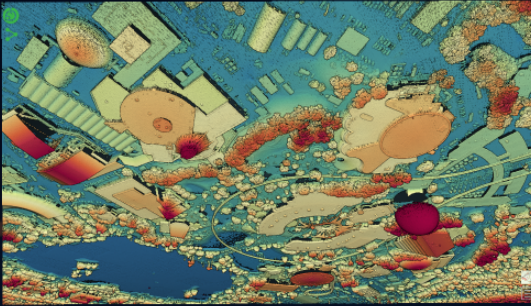
Mosaic results over
area of interest

Download data to your
local machine or
create an x,y,z tile layer
to share in other apps

View results with preview
images and metadata

NUVIEW

Our Vision



DATA ACCESSIBILITY

Empowering industry and government with accurate data for informed decision making

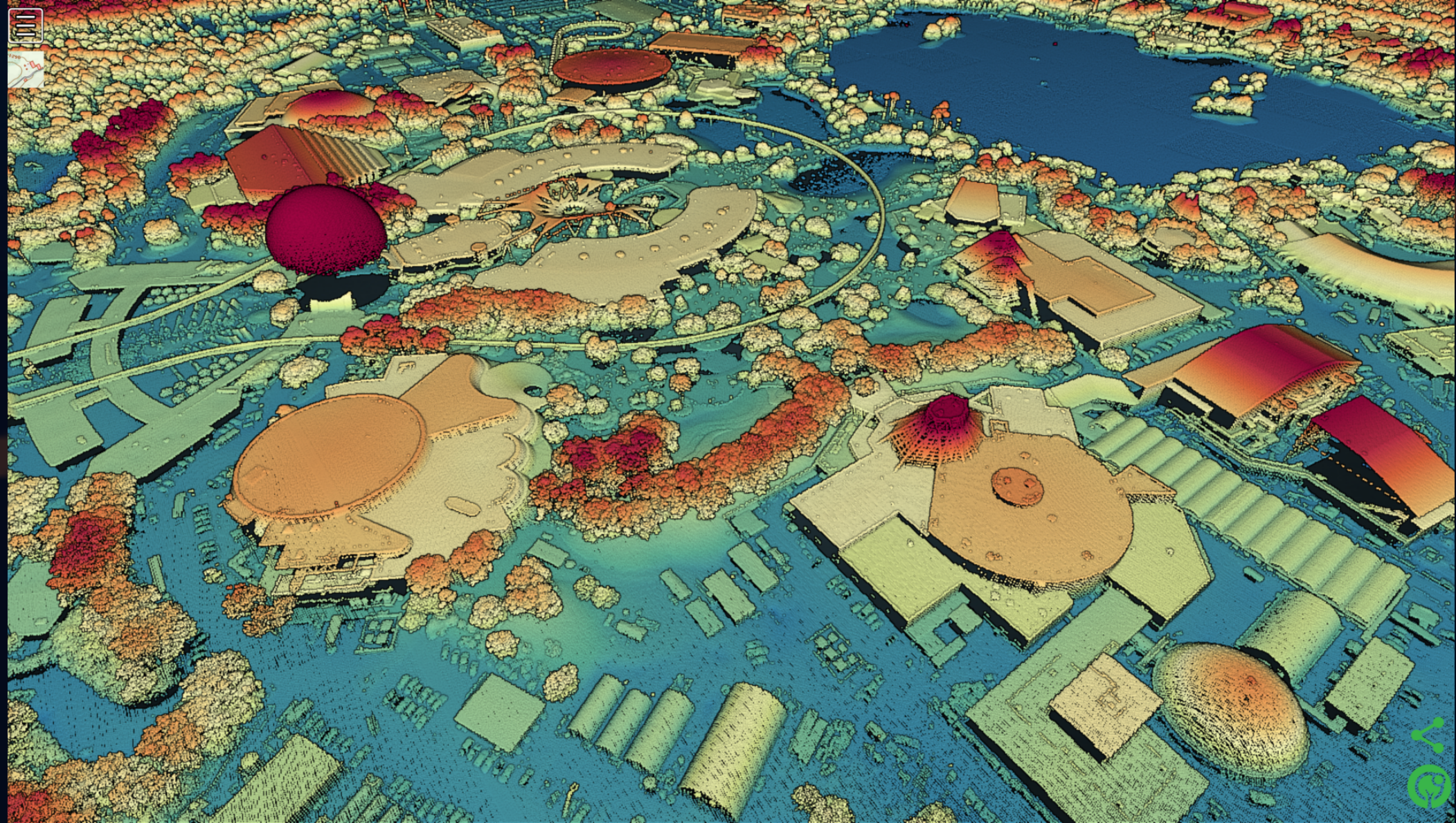
ADVANCING
TECHNOLOGY

ENGINEERING
PRECISELY

INFORMING
DECISIONS

ENHANCING
RESILIENCE





DATA ACCESSIBILITY

Equipping industry and government with accurate data for informed decision-making.



**ADVANCING
TECHNOLOGY**



**ENGINEERING
PRECISELY**



**INFORMING
DECISIONS**



**ENHANCING
RESILIENCE**

DATA EMPOWERMENT



MEASURE



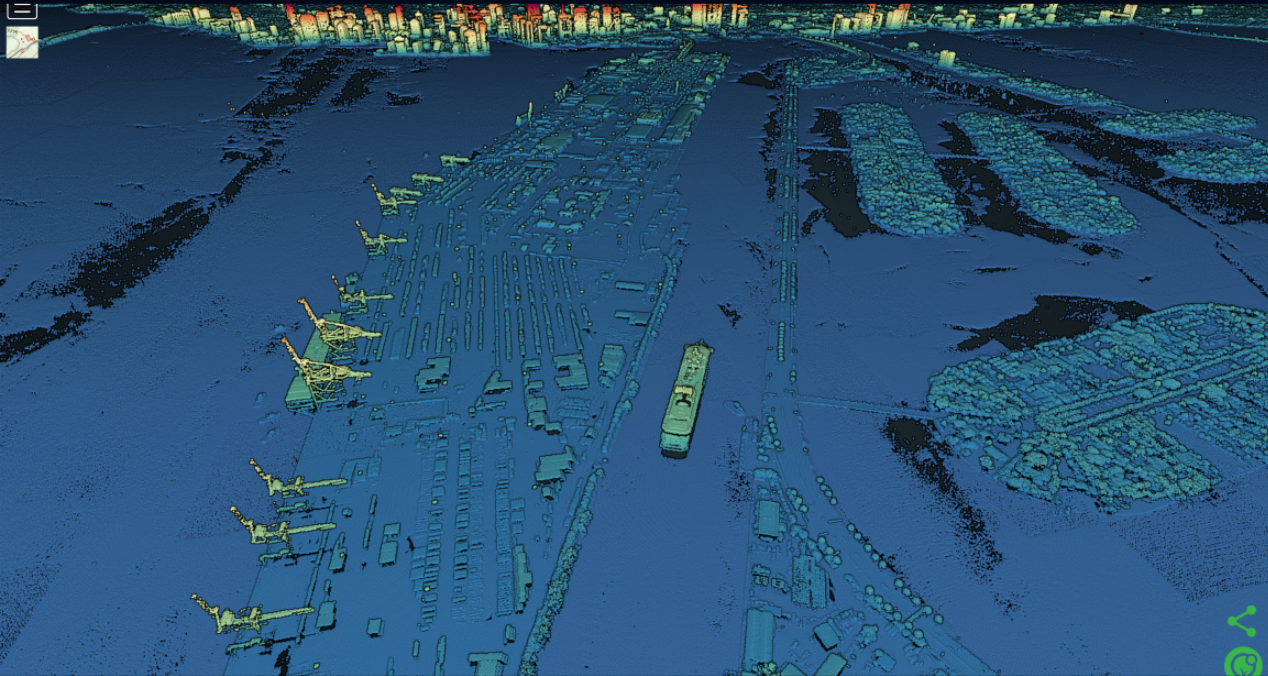
ANALYZE

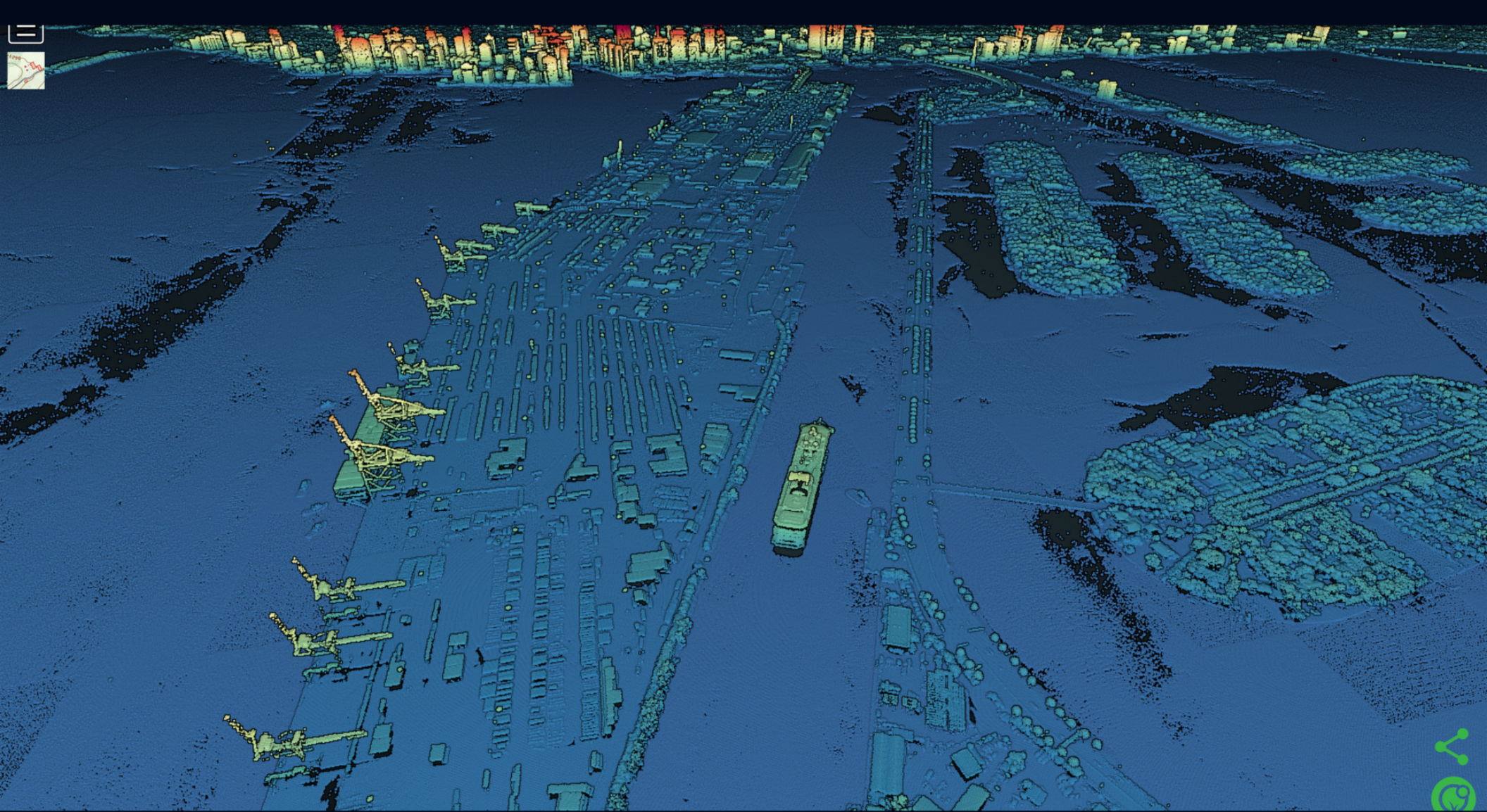


UNDERSTAND

THE FUTURE IS HERE

VISION





VISION



**INNOVATIVE
TECHNOLOGIES**



**STRATEGIC
PARTNERSHIPS**



**OPERATIONAL
EXCELLENCE**



**INNOVATIVE
TECHNOLOGIES**



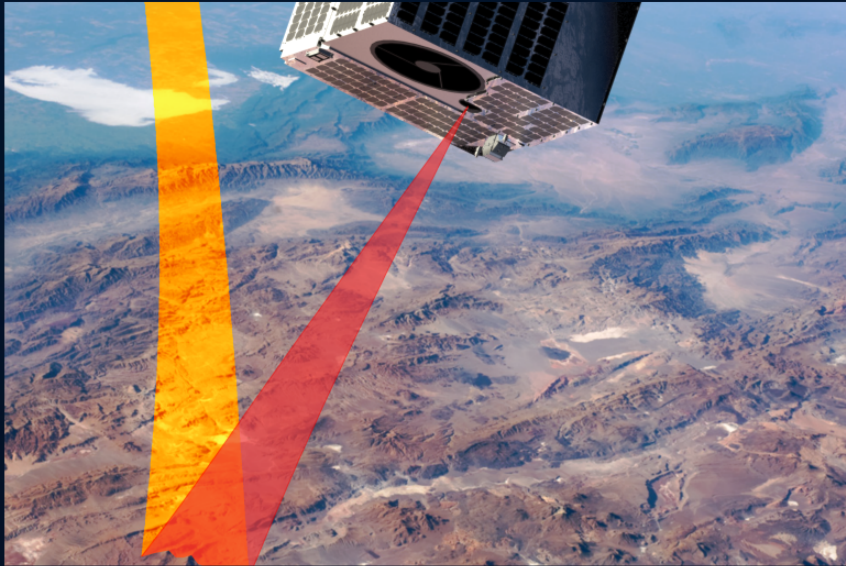
STRATEGIC PARTNERSHIPS



**OPERATIONAL
EXCELLENCE**

Mission

We will be the global market-maker in LiDAR.



ON THE HORIZON

Roadmap

Spacecraft, Software, Revenue and Users.



LAUNCH MR. SPoC



Multi-User
Platform
Experience



Second Generation
Satellites



50,000
PLATFORM
USERS



International
Space
Station



Next Stop:
The Moon

Roadmap

Spacecraft, Software, Revenue and Users.



LAUNCH MR. SPoC



**Multi-User
Platform
Experience**



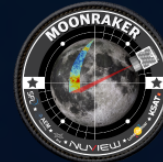
**Second Generation
Satellites**



**50,000
PLATFORM
USERS**



**International
Space
Station**



**Next Stop:
The Moon**



LAUNCH MR. SPoC



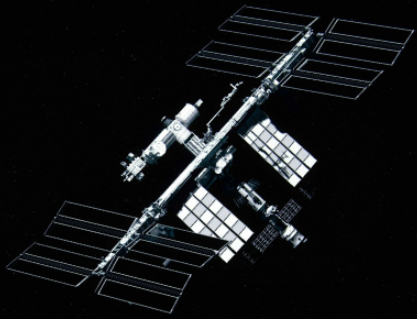
Multi-User Platform Experience



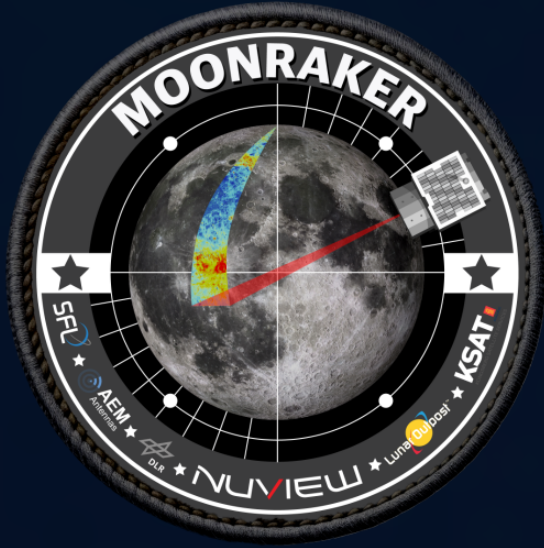
Second Generation Satellites



**50,000
PLATFORM
USERS**



International Space Station



Next Stop: The Moon

NUVIEW

Measure.Analyze.Understand.



3D INSIGHTS



THE FUTURE IS HERE

Our Vision



Mission

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The Florida Senate

APPEARANCE RECORD

Deliver both copies of this form to
Senate professional staff conducting the meeting

Bill Number or Topic

Amendment Barcode (if applicable)

Feb 11, 2025

Meeting Date

Space, Military, Vet Affairs

Committee

Name Clint Graumann

Phone 407 843 8880

Address 6876 Marwick Lane, ste 300

Street

Email info@nuview.space

Orlando

City

FL

State

32827

Zip

Speaking: ☐ For ☐ Against ☒ Information

OR

Waive Speaking: ☐ In Support ☐ Against

PLEASE CHECK ONE OF THE FOLLOWING:

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S-001 (08/10/2021)

SPACEFLORIDA

BE WHERE NEW IDEAS TAKE OFF™

February 11 , 2025

Military and Veterans Affairs, Space, and
Domestic Security

WWW.SPACEFLORIDA.GOV

WHO WE ARE + WHAT WE DO

Space Florida is the Florida's **aerospace** finance and development authority. In 2006 a unique state statute was enacted that would open the door to more creative financing options and infrastructure access – making aerospace ventures much easier to launch.

As a spaceport authority, Space Florida develops critical infrastructure, leads statewide planning, and is responsible for building, owning, leasing, and operating key facilities, while also managing aerospace projects statewide using a diverse financial toolkit that includes capital programs, structures providing financial and tax efficiencies, infrastructure investments, and conduit financing. Space Florida's business development role simplifies treasury, tax, and intercompany issues, enabling more agile and efficient aerospace ventures.

Today, Space Florida offers leading aerospace companies **unrivaled experience, unmatched financial tools**, and **an unbeatable location** for their new initiatives.

Space Florida: Be Where New Ideas Take Off™



PORTFOLIO + BUSINESS AREAS



From spaceport authority operations and business development roles, **Space Florida brings finance, business, and industry experts** who have proven they know exactly what it takes to launch successful, groundbreaking aerospace initiatives.

Spaceport Authority

- Develop Infrastructure
- Statewide Planning
- Build, Own, Lease, & Operate
 - Launch Complex 46 and 20
 - Exploration Park
 - Launch & Landing Facility



Business Development

- Statewide aerospace projects
- Diverse financial toolkit of capital programs, structure providing financial and tax efficiencies, infrastructure investment, conduit financing
- Simplify treasury, tax, and intercompany issues

Our Mission

Build the World's Leading Interplanetary Aerospace Commerce Hub

Strategic Objectives

- Increase investment and economic growth in Florida's aerospace economy
- Maximize the capacity of Florida's space infrastructure
- Sustained efficient business operations



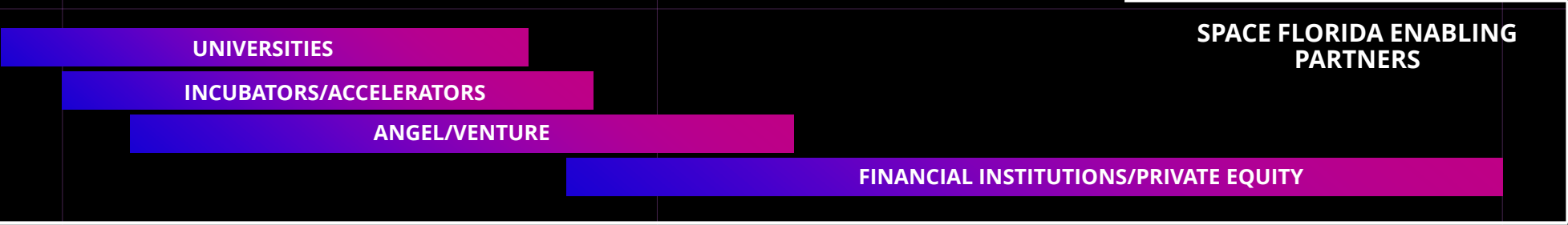
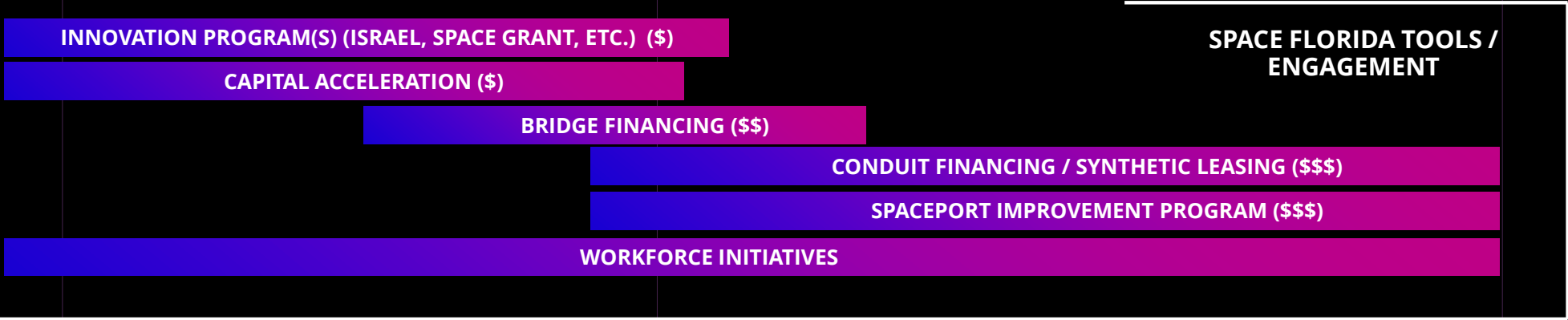


"AEROSPACE" DEFINED IN FLORIDA STATUTE

"Aerospace" means the technology and industry related to the design, manufacture, maintenance, repair, and operation of aircraft or any other device intended to be used or designed for flight or reentry, including rockets, missiles, spacecraft, satellites, space vehicles, space stations, space and aircraft facilities or components thereof, and related equipment, systems, facilities, simulators, programs, and activities, including, but not limited to, the application of aerospace and aviation technologies in air-based, land-based, space-based, and sea-based platforms for commercial, civil, and defense purposes.



BUSINESS GROWTH PHASE



OUR STATEWIDE CAPITAL PROJECT PIPELINE

Southeast: 20 Projects

Southwest: 6 Projects

Central Florida: 26 Projects

Space Coast: 51 Projects

Tampa Bay: 16 Projects

Northeast: 6 Projects

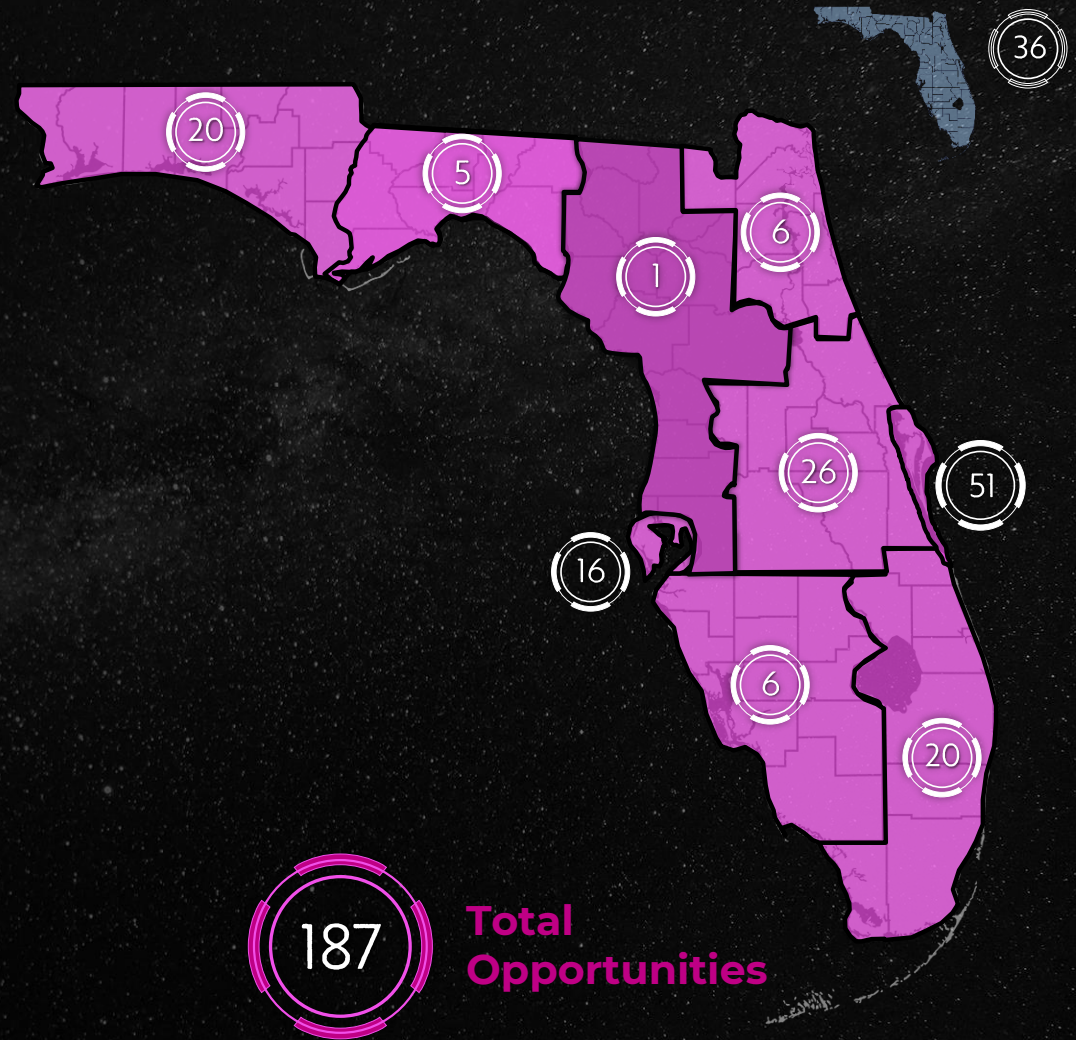
West Central: 1 Project

Big Bend: 5 Projects

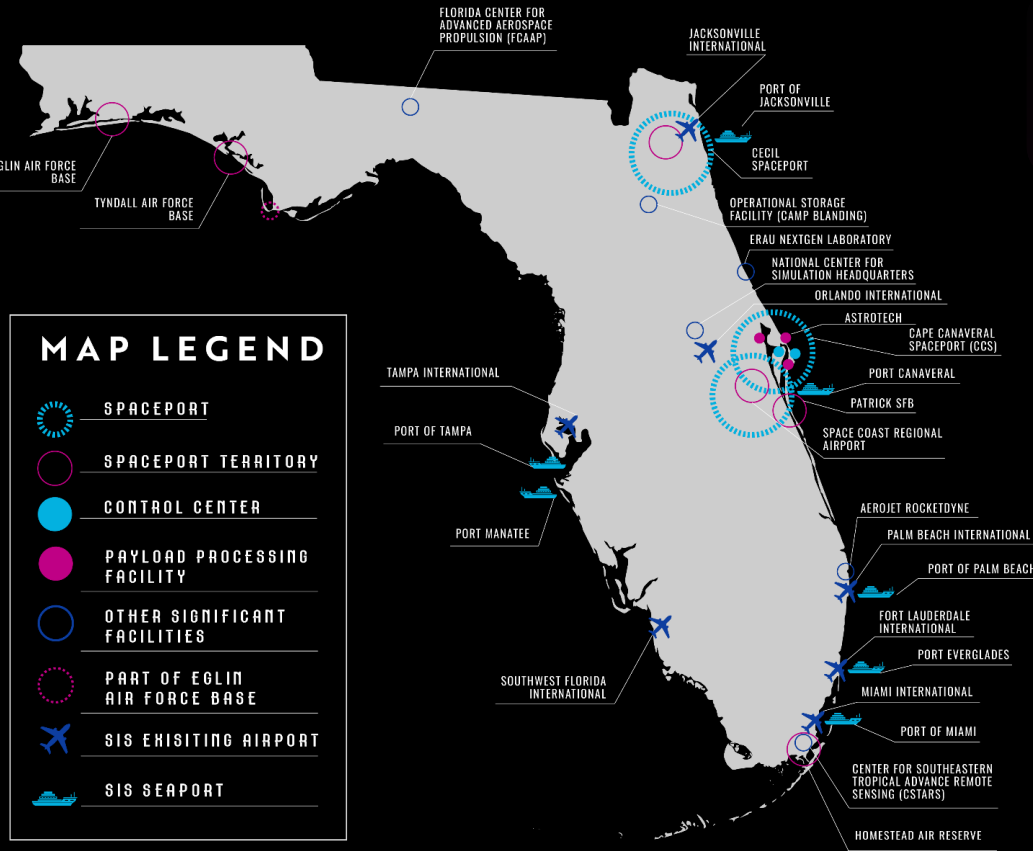
Northwest: 20 Projects

No Specific Region Selected: 36 Projects

114 Leads, 69 Opportunities, 4 Closing



FLORIDA'S SPACEPORT SYSTEM



SPACEPORT IMPROVEMENT PROGRAM

Space Florida and FDOT work together to enable the development of space transportation infrastructure in the state through the Spaceport Improvement Program, which invests in space transportation projects statewide to increase capacity and capability of Florida's Spaceport System.

\$504M

Total Program Investment since 2012

\$254.14 Million Active (19 projects)
\$250.05 Million Closed (29 projects)

\$1.94B

Total Industry Investment since 2012

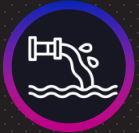
4.5 : 1 Leverage of State investment

5,000+

Direct Jobs Created

+ additional indirect and induced effects

CAPE CANAVERAL SPACEPORT INFRASTRUCTURE CONSTRAINTS



WASTEWATER



WETLANDS



MARITIME SUPPORT



ROADS & BRIDGES



POWER



LIQUID NATURAL GAS

The “Big Six” Infrastructure Challenges

Unprecedented commercial growth at the Cape Canaveral Spaceport is straining federally-managed infrastructure beyond capacity.



SUPPORTING INNOVATION

CAPITAL ACCELERATORS



23 events, \$800M+ investments/exits

Notable Participants



INNOVATION PROGRAMS



12th cycle started
46 Awards since 2013



Notable Participants





2023/2024 FISCAL YEAR HIGHLIGHTS

\$5.6 BILLION
CAPITAL INVESTMENT

7,968

HIGH-QUALITY JOBS
RECRUITED & RETAINED

161 PROJECTS IN
PIPELINE

15 STATE STRATEGIES
IMPLEMENTED

32 FLORIDA COUNTIES
SUPPORTING
PROJECTS

101.9 MILLION
IN FUNDING TO SUPPORT 30 RESEARCH
PROJECTS, PARTNERSHIPS, AND GRANTS

SPACE FLORIDA ACADEMY PROGRAM

The **Space Florida Academy Program** is a **dynamic initiative that** fosters the next generation of aerospace job seekers by offering students hands-on exposure to skills not often thought of as part of the “aerospace job market.” To date, 23 school districts have signed MOUs adopting the program within their districts.



Unique Experiences

- Connect classroom knowledge to real-world space challenges
- Bridging education with the broader needs of the aerospace industry, outside of traditional aerospace jobs



Reframe the Narrative

- Industry leaders, Florida DOE, Florida Commerce, the REACH Office, and CareerSource Florida, we reframed what an aerospace job is and targeted these workforce areas to meet industry demand: Aviation/Aerospace, Advanced Manufacturing, Construction, Cybersecurity/IT, Logistics, and Semiconductors

"AEROSPACE" TARGET MARKETS

\$68 Billion

Global advanced air
mobility market by 2032

\$421 Billion

Global MRO market by
2030

\$7 Billion

Global flight simulator
market by 2030

\$642 Billion

Aircraft manufacturing
market by 2033

\$23 Billion

Global satellite
manufacturing &
launch systems market



FUTURE GROWTH AREAS

Aviation

- Advanced Air Mobility: Infrastructure, Manufacturing, & MRO

Space Infrastructure

- In-Space Manufacturing
- Satellites
- Logistics & Servicing Hubs
- Return

Meet the Pace of Industry

- Tax Exempt Bonds
- Streamline Processes
- Expand R&D/Incubator activities

Florida is the **global & interplanetary center** for aerospace commerce.





SPACEFLORIDA

BE WHERE NEW IDEAS TAKE OFF™

THANK YOU

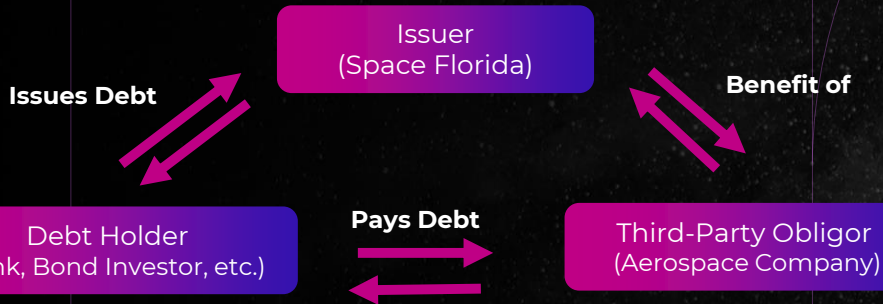
Contact Us

Lindsay Pierce, Director of Government
Relations and External Affairs
lpierce@spaceflorida.gov

WWW.SPACEFLORIDA.GOV

CONDUIT DEBT OBLIGATION

Conduit financing is a means for private companies, nonprofit organizations, and public entities to raise capital via municipal bonds to fund large-scale projects that typically benefit the public.



Attributes

- Construction or acquisition of the capital asset is financed with the proceeds from the Conduit Debt Obligation.
- Issuer retains title to capital assets from arrangement beginning.
- Third-party obligor lease payments to cover the debt service payments.
- Payment schedule coincides with debt service schedule.

REPRESENTATIVE DEALS



PROJECT UPGRADE I & II

CAE USA Inc. - \$70 Million + \$12 Million Training/HQ (Tampa Bay)



PROJECT BEVERLY

SIMCOM - \$110 Million Flight Simulator Leasing
\$35 Million Add-on (Central Florida)



PROJECT POSEIDON

BAE Systems - \$200 Million Shiplift Installation (Northeast)



AMAZON'S PROJECT KUIPER

\$120 million satellite processing facility Launch and Landing Facility (Space Coast)






The Florida Senate

APPEARANCE RECORD

Feb 11

Meeting Date

Military, Veterans, Space

Committee

Deliver both copies of this form to
Senate professional staff conducting the meeting

Bill Number or Topic

Amendment Barcode (if applicable)

Name

Rob Long

Phone

321-730-5301

Address

505 Odyssey Way

Email

rlonga@spaceflorida.gov

Street

Meritt Island

State

FL

Zip

32953

City

Speaking:

☐

For

☐

Against

☒

Information

OR

Waive Speaking:

☐

In Support

☐

Against

PLEASE CHECK ONE OF THE FOLLOWING:

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compensation or sponsorship.

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S-001 (08/10/2021)

Kelvin Manning

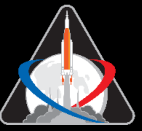
Acting Director

Kennedy Space Center

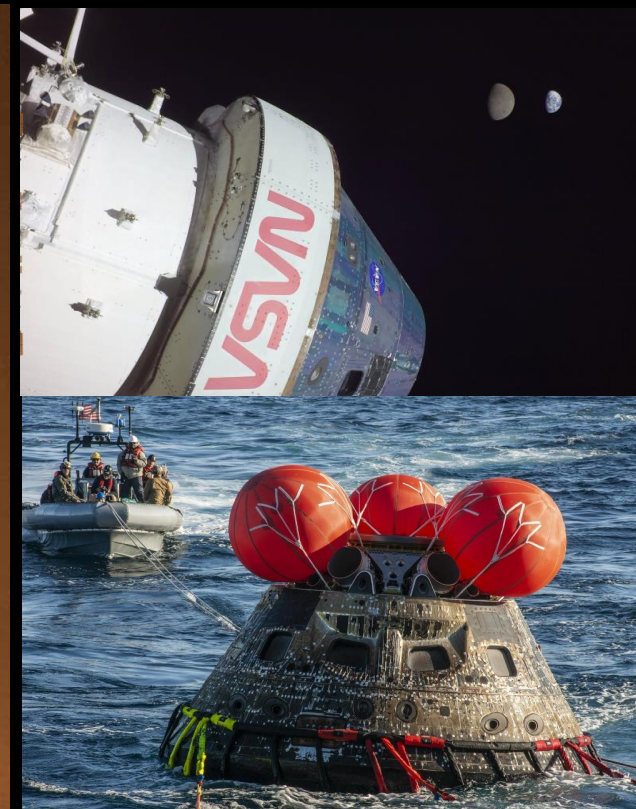


EARTH'S PREMIER SPACEPORT

SUCCESSFUL ARTEMIS I MISSION



Launched Nov. 16, 2022



Splashdown Dec. 9, 2022

Solid Rocket Boosters
in NASA's RSPF



Orion Mated to the
European Service
Module



Integrated Validation
and Verification
Testing





Launch Activity at KSC and CCSFS



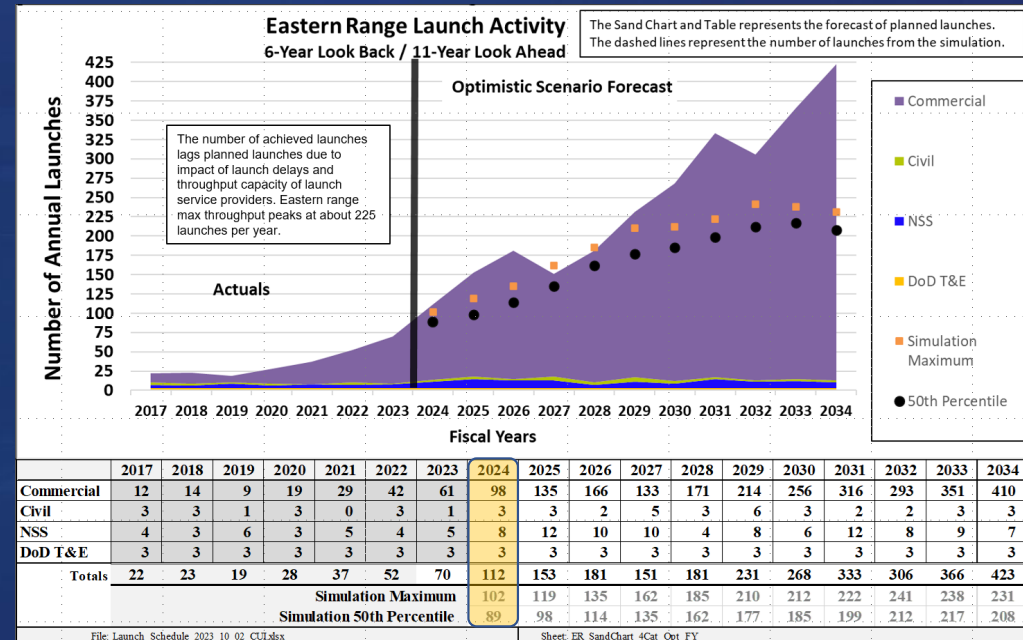
72 launches in **CY23**
(134 major operations)

93 launches in **CY24**
(123 major operations)

CY25: More than 160
launches manifested

KSC supports every launch and major milestone operation (e.g., Tanking Test, Wet Dress Rehearsal, Static Fire) that occurs from Cape Canaveral Space Force Station (CCSFS) and KSC.

- Gaseous Nitrogen (GN2) and Gaseous Helium (GHe)
- Tropospheric Doppler Radar Wind Profiler
- Protective Services
- Emergency Operations Center
- Emergency Response (if necessary)



EARTH'S PREMIER SPACEPORT



Kennedy Space Center Overview

Kennedy Space Center, Earth's premier multiuser spaceport, has various users that directly support NASA mission directorates, other government agencies, and commercial providers.

Florida Power
and Light
(Commercial)



Blue Origin
(Commercial, DoD,
ESDMD, SOMD)

Delaware
North
(Commercial)

Space Florida
(Commercial)

Space Florida
(Commercial)

Amazon
(Commercial)

Boeing
(DoD)

Boeing
(SOMD)

Boeing
(Commercial-ESDMD)

EGS Program
(ESDMD)

SpaceX
(Commercial, DoD,
ESDMD, SOMD)

Sierra
(Commercial, SOMD)

SpaceX
(Commercial, DoD,
ESDMD, SOMD)



MSFC
(ESDMD)



Lockheed Martin
(Commercial - ESDMD)



SSPF
(Commercial, STMD,
SOMD, ESDMD)



EGS Program
(ESDMD)



Launch Service
Program
(SOMD)



Not all users shown

STATE ECONOMIC IMPACT

FLORIDA

NASA Center: Kennedy Space Center – Merritt Island, FL

National Aeronautics and
Space Administration



NASA AGENCYWIDE⁽¹⁾

State Impact

35,685 Jobs Supported

\$8.2B Economic Output

\$286.6M State Tax Revenue

MOON TO MARS CAMPAIGN

State Impact

13,123 Jobs Supported

\$3B Economic Output

\$94.1M State Tax Revenue



⁽¹⁾ For more information, please visit <https://www.nasa.gov/value-of-nasa/>

⁽²⁾ Climate Change Research and Technology (R&T) Investments

Florida University Space Research Consortium



MOU Signed
Jan. 6, 2025



EARTH'S PREMIER SPACEPORT

KENNEDY SPACE CENTER
LAUNCHING HUMANITY'S FUTURE



Kelvin Manning

Acting Director

Kennedy Space Center



EARTH'S PREMIER SPACEPORT

The Florida Senate

APPEARANCE RECORD

Deliver both copies of this form to
Senate professional staff conducting the meeting

2-11-25

Meeting Date

MS

Bill Number or Topic

Committee

Amendment Barcode (if applicable)

Name

Kelvin Manning

Phone

408 321-867-7246

Address

2857 Aloma Lake Run

Email

kelvin.m.manning@
nasa.gov

Street

Oviedo, FL 32765

City

State

Zip

Speaking:

☐

For

☐

Against

☐

Information

OR

Waive Speaking:

☐

In Support

☐

Against

PLEASE CHECK ONE OF THE FOLLOWING:

☐

I am appearing without
compensation or sponsorship.

☐

I am a registered lobbyist,
representing:

☐

I am not a lobbyist, but received
something of value for my appearance
(travel, meals, lodging, etc.),
sponsored by:

While it is a tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this hearing. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard. If you have questions about registering to lobby please see Fla. Stat. §11.045 and Joint Rule 1. [2020-2022 Joint Rules.pdf \(flsenate.gov\)](#)

This form is part of the public record for this meeting.

S-001 (08/10/2021)



THE FLORIDA SENATE

Tallahassee, Florida 32399-1100

COMMITTEES:

Appropriations Committee on Pre-K - 12 Education,
Vice Chair
Education Postsecondary
Education Pre-K - 12
Fiscal Policy
Judiciary
Military and Veterans Affairs, Space, and
Domestic Security
Rules

**SENATOR GERALDINE F. "GERI"
THOMPSON**
15th District

January 15, 2025

The Honorable Chair Wright
Chairman
404 South Monroe Street
Tallahassee, FL 32399

Dear Chair Wright,

I am writing to formally request a leave of absence due to a medical condition from the Committee on Military and Veterans Affairs, Space, and Domestic Security during the interim committee meetings scheduled from January 13 through February 21, 2025. While I regret being unable to actively participate in Senate proceedings during this period, this temporary leave is essential to enable me to return to my duties fully restored.

I greatly appreciate your understanding and support during this time. If additional documentation or details are needed, please let me know.

Thank you for your attention to this matter.

Sincerely,

A handwritten signature in cursive script that reads "Geraldine F. Thompson".

Senator Geraldine F. Thompson
FL Senate District 15

Cc: Tim Proctor, Staff Director
Lois Graham, Committee Administrative Assistant
Maggie Gerson, Staff Director

REPLY TO:

- ☐ 511 W. South Street, Suite 205, Orlando, Florida 32805 (407) 245-0194
- ☐ 205 Senate Building, 404 South Monroe Street, Tallahassee, Florida 32399-1100 (850) 487-5015

Senate's Website: www.flsenate.gov

BEN ALBRITTON
President of the Senate

JASON BRODEUR
President Pro Tempore

CourtSmart Tag Report

Room: SB 301

Case No.:

Type:

Caption: Senate Committee on Military and Veterans Affairs, Space, and Domestic Security

Judge:

Started: 2/11/2025 1:46:52 PM

Ends: 2/11/2025 2:53:33 PM **Length:** 01:06:42

1:46:51 PM Chair Wright Calls the Meeting to Order

1:46:52 PM

1:47:12 PM Roll Call

1:47:16 PM Quorum Present

1:47:18 PM Pledge of Allegiance

1:47:21 PM Opening Remarks

1:47:37 PM Tab 1 Presentation - SpaceX on Activities and Spaceport Operations by Kiko Dontchev

1:53:17 PM Video of Launch Playing in Background

1:53:37 PM Kiko Dontchev

2:01:19 PM Chair Wright

2:01:34 PM Questions

2:01:37 PM Senator Truenow

2:01:48 PM Kiko Dontchev

2:02:26 PM Senator Sharief

2:02:59 PM Kiko Dontchev

2:03:51 PM Senator Sharief

2:03:57 PM Kiko Dontchev

2:04:24 PM Vice Chair Collins

2:05:26 PM Kiko Dontchev

2:05:35 PM Senator Burgess

2:06:14 PM Kiko Dontchev

2:07:25 PM Chair Wright -Presentation for Commander Dennis O. Baker

2:11:38 PM Chair Wright Remarks

2:12:43 PM Tab 2 Presentation on Nuview on Commercial Satellite LiDAR Mapping by Clint Graumann

2:23:40 PM Chair Wright

2:24:48 PM Chair turned over to Vice Chair Collins

2:25:01 PM Tab 3 Presentation on Space Florida's Strategic Update of the Aerospace Industry in Florida by Colonel Robert Long

2:37:39 PM Chair Collins

2:38:58 PM Tab 4 Presentation on NASA on Activities and Spaceport Operations by Kelvin Manning

2:50:34 PM Chair Collins with comments

2:52:44 PM Senator Burgess moves to adjourn

2:52:53 PM Meeting Adjourned