2022 Regular Session

The Florida Senate

COMMITTEE MEETING EXPANDED AGENDA

MILITARY AND VETERANS AFFAIRS, SPACE, AND DOMESTIC SECURITY Senator Wright, Chair Senator Harrell, Vice Chair

TIME:	Wednesday, September 22, 2021 10:15—11:15 a.m. <i>Pat Thomas Committee Room,</i> 412 Knott Building		
MEMBERS:	Senator Wright, Chair; Senator Harrell, Vice Chair; Senators Burgess, Cruz, Gibson, Rodriguez, and Torres		
	BILL DESCRIPTION and		

TAB	BILL NO. and INTRODUCER	SENATE COMMITTEE ACTIONS	COMMITTEE ACTION	
1	General, United States Space Force Co	e Force by Stephen "Birddog" Purdy, Jr., Brigadier mmander, Space Launch Delta 45 (SLD 45), and Launch and Range Operations (SSC/S3), Space	Presented	

2 Presentations by Frank DiBello - Space Florida President and Chief Executive Officer, Todd Presented Romberger - Space Florida Senior Vice President, Spaceports Business Unit, and Mark Bontrager - Vice President, Spaceport Operations, updates on Space Florida.

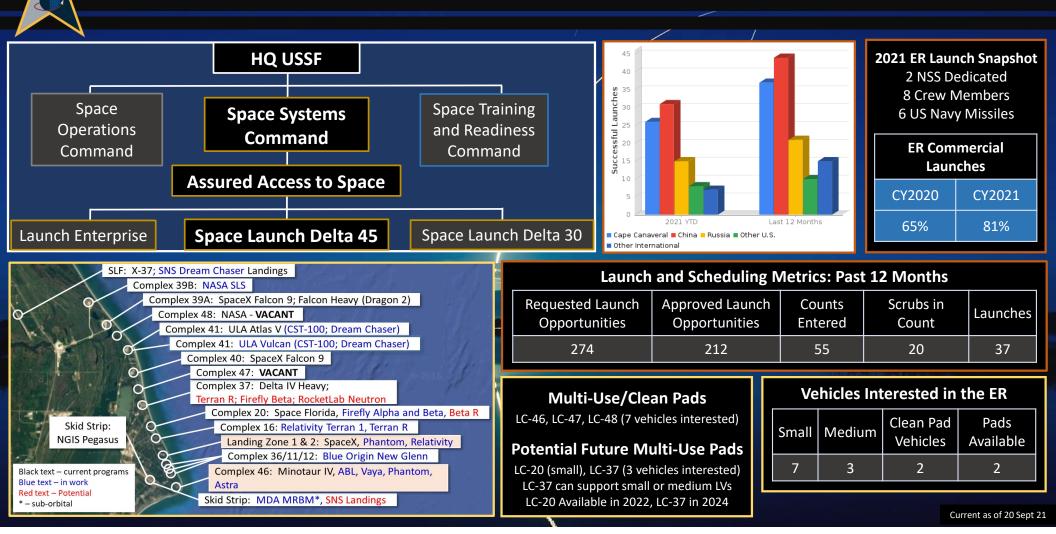
Other Related Meeting Documents

Space Launch Delta 45

Florida Senate Committee Military and Veterans Affairs, Space, and Domestic Security Presentation Sept 2021

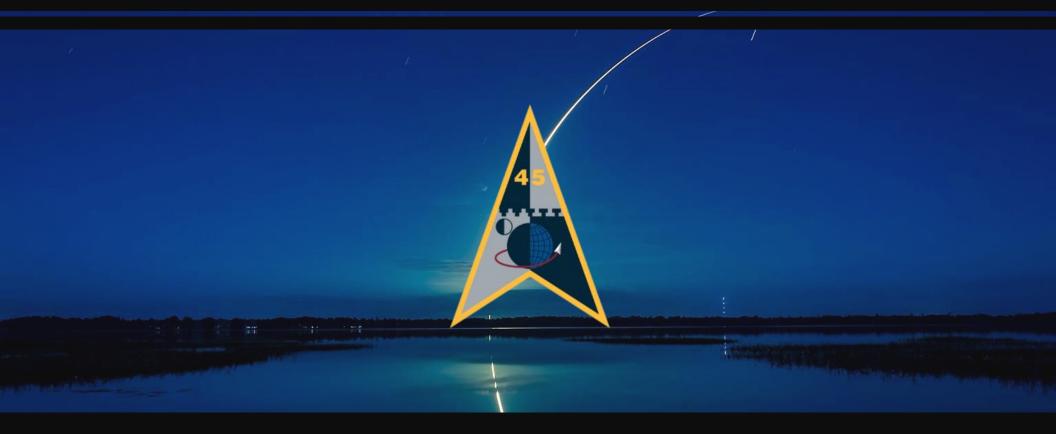
> Brig Gen Stephen G. Purdy Jr. Commander, SLD 45 Director, Eastern Range

SLD 45 Update



Achieving SLD 45 Vision Elements SLD 45 engaged w/ USN and FAA to General aviation CLSRB Lightning range rings Polar launch increase launch opportunities contour reductions from ER reduction Modifications **USG Lead** Accept 10x risk increase; Expanded weekly Rapid commercial 5nm to 4nm; Range (DoD & NASA) Launch opportunities increased by 80%; Cape Status w/ **Reduced work** Safety customer on-Saves SLD 45 ~1,100 hrs/yr; LSPs & partners stoppage time by 20% T-X work boarding Returns ~400 USN operating hrs/yr Range Hub: Enabled polar launch SLD 45 ROTF: Architecture Autonomous Flight SLD 45 has visited local **Ops** deconfliction while NSS flight hardware Implementation Safety/Monitoring airports with more Airport-Style was on the Cape process visits planned Quicker transition between Commodities for **Operations** Used to coordinate/implement approval for FAAmissions and/or simultaneous simultaneous and GREATER ORLANDO AVIATION AUTHORITY licensed launch - consistent with FAA 450 rules ops (driven by AFSS) high-flow ops Policy/Law: Change Change Needed: DOD **New CFO-type** Developed Next step: Develop Identified areas where SLD required to move to support to Commercial structure Cost Catalog 45 can possibly charge Spaceport Cost Model a Spaceport Model: Space activities will be to operate and sustain NATIONAL SPACE POLICY 44 based on based on Commercial and contractor **Change Commercial** charged/treated IAW historical data Space Launch Act definition the Eastern Range Space Act Title 51 DOD FMR Vol 11a Ch 12 support Dedicated Pad vs. COA 1 – Source Select COA 2 – Multi-Use Pad Concept Launch Complex LC-37 – Future 7 potential vehicles; 7 potential vehicles; allocation process for Multi-Use Pad True multi-use multi-use pad property distribution 1 selected per vacant pad Up to 7 selected Concept pads unlike Available in 2024 (3 med vehicles any before Maximize access to launch complexes by LC-46, LC-47, LC-48 LC-20 – Future multi-use pad; interested) multiple launch providers (7 vehicles interested) Available in 2022

Thank You



The World's Premier Gateway to Space

09.22.2021 Meeting Date Military Affairs Committee Name Brig Gen Stepher	APPEARANCE RECORD Deliver both copies of this form to Senate professional staff conducting the meeting	Amendment Barcode (if applicable)
Address <u>Street</u> <u>Patrick</u> <u>Space</u> <u>City</u> State	Email Force Base, FC	
Speaking: For Against	Information OR Waive Speaking:	🗌 In Support 🔲 Against
I am appearing without compensation or sponsorship.	PLEASE CHECK ONE OF THE FOLLOWING:	I am not a lobbyist, but received something of value for my appearance (travel, meals, lodging, etc.), sponsored by:

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S-001 (08/10/2021)

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Space Florida Update

September 22, 2021

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

Frank DiBello Todd Romberger Mark Bontrager President & CEO SVP, Spaceports Business Unit VP, Spaceport Operations





Growth Statistics ... 2015 – 2020

- Deal Log: Validated Opportunities
 - Doubled ... 40 avg. → 80+
- Balance Sheet Growth (Asset Value)
 \$144.1 M → \$320.8 M
- Value of Infrastructure Portfolio
 → \$2.7 B
- Pipeline of New Infrastructure
 - → \$2.87 B



- Number of New Contracts
 Opened / year
 76 → 314
- Number of Financial Transactions / year

272 → 838





Blue Origin – Cape Canaveral Spaceport, FL

735+ Total Direct Jobs\$1.035B Total Capital Investment



CAE Corporate – HQ in Tampa, FL

600-1000 Total Direct Jobs \$62M Total Capital Investment





AgustaWestland – Hangar, Equipment and Tooling in Milton, FL

50+ Total Direct Jobs \$35M Total Capital Investment



Redwire – HQ in Jacksonville, FL

100+ Total Direct Jobs Global Corporate Headquarters, Engineering, and Satellite Manufacturing **Space Industry Market Growth & Drivers**

Global Space Revenues -- \$450 Billion

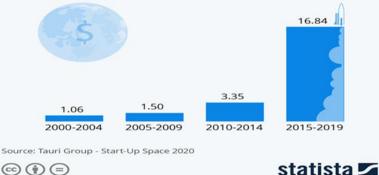
SPACE FLORIDA

- US 9% Growth in 2020
- Satellite Deployments Tripled in 2020
 - 50,000+ New Satellites by 2030
- Total Global Orbital Lunches 2020 ... 114
 - 31 of 38 US ... from Florida in 2020
 - YTD ... 25 from Cape Manifest: 45
- Unprecedented Capital Markets Focus
- Competition from Other States / Nations

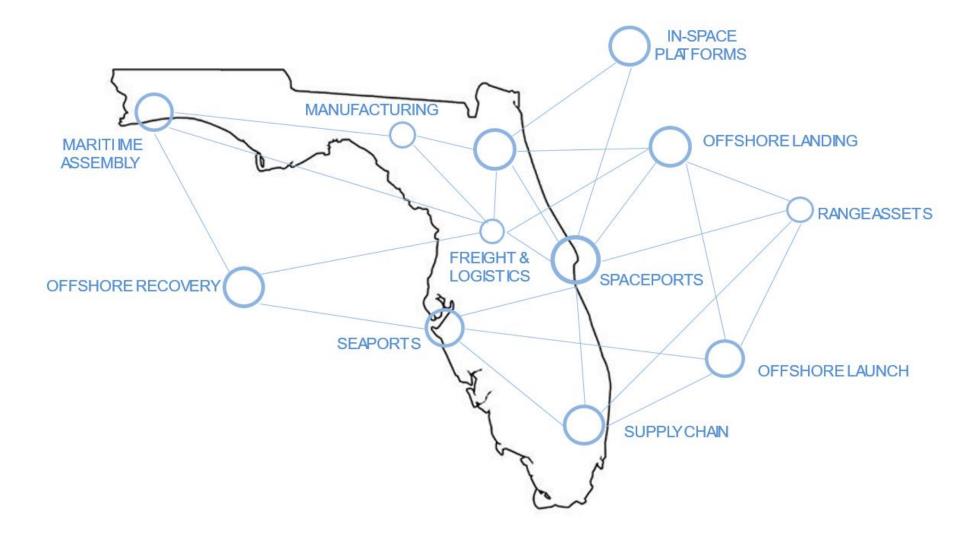
We Are Not Alone!



Investment in Space Blasts Off Total value of investments in space ventures over 5-year periods since 2000 (in billion USD)

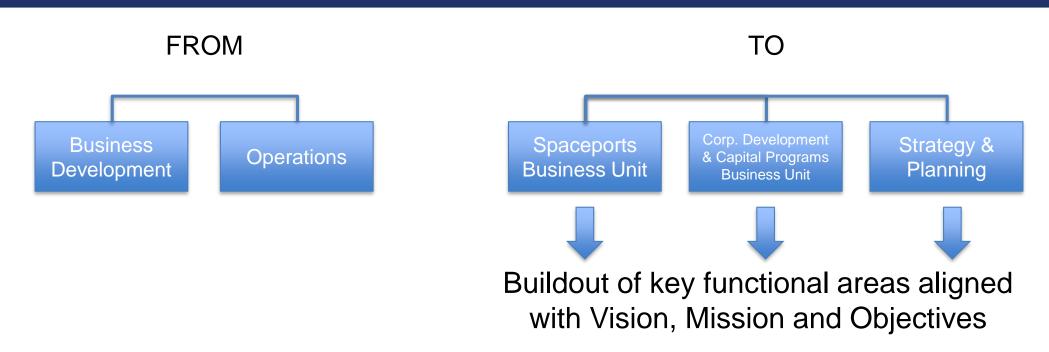






Organizational Realignment to Scale for Growth

SPACE FLORIDA



- Establishes two new Business Units with focused objectives + strategy & planning
- Better aligned with Space Florida's offering to the aerospace marketplace
- Start to Finish accountability / responsibility for project success
- Provides framework for growth in key functional areas to achieve objectives



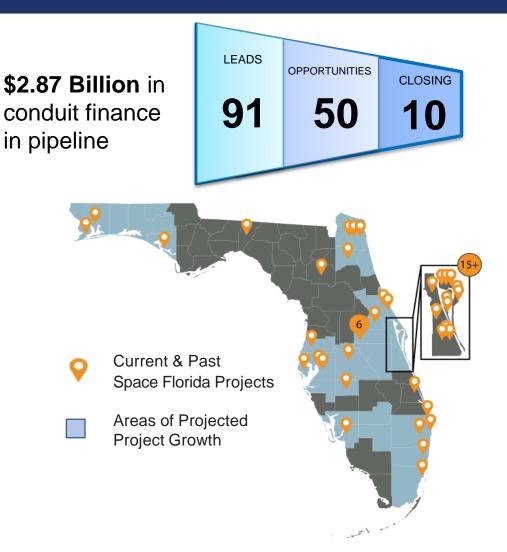
Spaceports Business Unit

Maximize Capacity and Capability of Florida's Spaceport System

- Sales
- Development
- Operations
- Facilities

Corporate Development & Capital Programs Business Unit

- Corporate Development Initiatives
- Expanding Capital Access
- Extending Statewide Reach
- Managing Portfolio





- 1. Grow Space Florida's Infrastructure / Investment Portfolio ... from \$2 B **\$10 B by 2030**.
- 2. Move Florida's Rank among States for Aerospace / Space Workforce ... from 7TH place to 4th on better.
- 3. Drive / Achieve both Market Perception and Reality of Florida ... as an Aerospace Capital Center

significantly Expanded Capital Base.

Increasing Capital Management / Investment Responsibilities

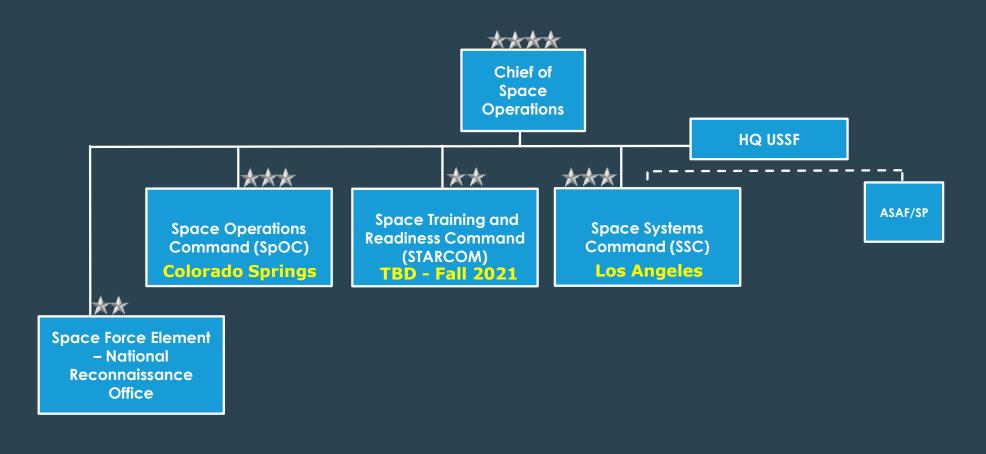


UNITED STATES SPACE FORCE

- SIXTH BRANCH OF US ARMED FORCES
- UNITED STATES SPACE FORCE SIGNED INTO LAW 20 DECEMBER 2019
- AS DESCRIBED IN THE UNITED STATES SPACE FORCE ACT, IT WILL BE ORGANIZED, TRAINED, AND EQUIPPED TO:
 - PROVIDE FREEDOM OF OPERATION FOR THE UNITED STATES IN, FROM, AND TO SPACE
 - **PROVIDE PROMPT AND SUSTAINED SPACE OPERATIONS**



USSF ORGANIZATIONAL CHART







MISSION

STARCOM will prepare the USSF to prevail in competition and conflict through innovative education, training, doctrine, and test

SUBORDINATE UNITS

Space Delta 1 – Training (Vandenberg Space Force Base, CA) Space Delta 10 – Doctrine & Wargaming (TBD) Space Delta 11 – Range & Aggressor(TBD) Space Delta 12 – Test & Evaluation (TBD) Space Delta 13 – Education (TBD)

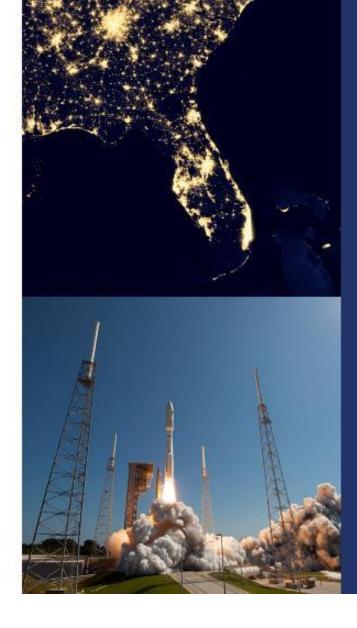
STRATEGIC BASING Headquarters and Delta locations Expected: Fall 2021

Florida Benefit: Focal Point for All Space Force Doctrine and Education



- Invited by Air Force / Space Force to propose criteria updates for future site selection evaluations
 - Summer 2021: Space Florida / Enterprise Florida trip to Washington
 - Innovative Commercial Air and Space Capacity as a Force Multiplier
 - Demonstrated Community Investment
 - Financing Optimization / Flexibility
 - Data Source Recommendations
 - Effective Evaluation for Greenfield Sites
- Engagement with General Services Administration Florida's Mission Focused Special Purpose Entity Concept
- Developing Statewide and Regional Statement of Capabilities in partnership with Enterprise Florida Military and Defense
- Fall 2021: Lead effort to secure STAR Command HQ and Deltas to FL





Thank You

9/22/21 Meeting Date Militory Herrons Affeirs Committee	The Florida Senate APPEARANCE RECORD Deliver both copies of this form to Senate professional staff conducting the meeting	Space Movida <u>presentation</u> Bill Number or Topic		
Name Frank PiBello	Phone <u>33</u>	Amendment Barcode (if applicable) 3-268-8282		
Address <u>505 Odyssey</u> WD <u>Street</u> <u>Gxp[_P3v1C P1</u> <u>City</u> State	<u>4</u> Email <u>1</u> <u>32953</u> Zip	ierce@spaceflorida.gov		
Speaking: 🗌 For 🗌 Against	Information OR Waive Speaking:	🗌 In Support 🔲 Against		
PLEASE CHECK ONE OF THE FOLLOWING:				
I am appearing without compensation or sponsorship.	l am a registered lobbyist, representing:	I am not a lobbyist, but received something of value for my appearance (travel, meals, lodging, etc.), sponsored by:		

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S-001 (08/10/2021)

9/22/21 Meeting Date MILITARY-VES AGAIRS	The Florida Senate APPEARANCE RECO Deliver both copies of this form to Senate professional staff conducting the meeti	Bill Number or Topic
Committee	Told RombergerPhone	Amendment Barcode (if applicable) 321 - 730 - 5301
Address <u>505</u> DDYSSS1 Street <u>EXPL</u> PK City	Image: Wight of the second s	tromberger@gpaceflanda.ga
Speaking: For Aga	inst Information OR Waive Spec	aking: In Support 🗌 Against
1	PLEASE CHECK ONE OF THE FOLLOW	/ING:
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:

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S-001 (08/10/2021)

The Florida Senate		SPACE	FLORIDA	
9/22/24 Meeting Date AFFAMS MUTTODYT VRIMMAN AFFAMS		SPACE FLOOLDA PRESENTATION Bill Number or Topic		
Committee Name MA2K BONTRAG	th	Phone 321	Amendment Barcod	de (if applicable)
Address 505 00 46554	MAY	Email mbont	rgar@ Space	eflonda.go
EXPL PK 1 City Stat	E 32953 re Zip	-		
Speaking: For Against	Information OR Wa	iive Speaking:	In Support 🗌 Agai	nst
	PLEASE CHECK ONE OF THE F	OLLOWING:		
I am appearing without compensation or sponsorship.	I am a registered lobbyist, representing:		I am not a lobbyist, b something of value f (travel, meals, lodgin sponsored by:	for my appearance

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S-001 (08/10/2021)

CourtSmart Tag Report

Room: KB 412 Case No.: -Type: Caption: Senate Military and Veterans Affairs, Space, and Domestic Security Committee Judge: Started: 9/22/2021 10:15:05 AM Ends: 9/22/2021 11:12:00 AM Length: 00:56:56 10:15:04 AM Meeting called to order by Chair Wright 10:15:19 AM Roll Call by CAA, Lois Graham 10:15:28 AM Quorum announced 10:15:33 AM Pledge of Allegiance led by Senator Torres 10:16:01 AM Chair Wright with opening comments 10:17:15 AM Tab 1 - Presentation on the United States Space Force 10:17:41 AM Brigadier General Stephen "Birddog" Purdy, Jr., U.S. Space Force Commander presents **10:34:24 AM** Senator Gibson with comments 10:34:39 AM Senator Harrell with guestion 10:34:49 AM General Purdy responds 10:37:01 AM Senator Harrell with follow-up 10:37:08 AM General Purdy responds 10:38:55 AM Chair Wright with question 10:39:02 AM General Purdy responds 10:40:32 AM Chair Wright with comments 10:40:36 AM General Purdy responds 10:40:56 AM Chair with comments 10:41:04 AM Senator Gibson with comments 10:42:02 AM Chair with comments 10:42:09 AM Tab 2 - Presentation by Space Florida 10:42:34 AM Mr. Frank DiBello, Space Florida President and Chief Executive Officer presents 10:52:36 AM Mr. Todd Romberger, Senior Vice-President, Spaceports Business Unit, presents 10:59:13 AM Mr. Mark Bontrager, Vice-President, Spaceport Operations presents 11:04:17 AM Senator Torres with comments 11:05:28 AM Senator Harrell with guestion 11:05:53 AM Mr. DiBello responds 11:10:45 AM Chair Wright with comments 11:10:59 AM Senator Harrell with comments 11:11:04 AM Chair Wright with comments **11:11:18 AM** Senator Burgess with comments 11:11:41 AM Senator Rodriguez moves to adjourn 11:11:48 AM Meeting adjourned