



High Speed Aerospace Transportation 2025 HSAT AIAA Workshop 8th Edition Midland, Texas, USA

Wednesday, November 12th , Afternoon

Thursday, November 14th Full-Day

Friday, November 15th Morning

Funding the *High Speed Aerospace Transportation* Industry,
Leading the Technology Development, Flight Demonstrations,
Human Factors, Certification, Technologies Advancement, High-
Altitude and Speed Aerospace Medicine, Space Weather,
Promoting the Market and Economics, Policy and much more.



Photo Courtesy NASA Hypersonic Technology Project





Sponsored by:

AIAA
InterFlight Global Europe (IFG-Europe)
RS&H
Starfighters Space
Titusville Space Coast Airport Authority

Hosted by:

Midland Development Corporation (MDC)
Midland International Air & Space Port
The University of Texas System (UT), Permian Basin (UTPB)-College of Engineering
Center for Energy and Economic Diversification (CEED)
InterFlight Global Corporation (IFG)
InterFlight Global Capital (IFG Cap)
High Speed Flight (HSF)

Collaborators, Memberships, Supporters and Partners:

American Institute of Aeronautics and Astronautics (AIAA)
Global Spaceport Alliance (GSA)
Commercial Spaceflight Federation (CSF)
FAA/FAA Office of Commercial Space Transportation (AST)
The MITRE Corporation
ASTM International-SAE
Joint Hypersonics Defense Office - University Consortium for Applied Hypersonics (JHTO-UCAH)
United States Space Force Association (SFA)
United States Transportation Command (USTRANSCOM)
Defense Innovation Unit (DIU)

Organizers reserve the right to change and modify this program as needed.



8th HSAT–AIAA Workshop

Welcome Message from the Chairman

Friday, September 12, 2025



Dear colleagues, friends, stakeholders, and investors in the High-Speed Aerospace Transportation (HSAT) industry, The countdown to the 8th Edition of HSAT in Midland, TX has begun—T-minus 3 months and counting.

Before long, I'll be welcoming you in person at Midland International Air & Space Port, adjacent to the UTP College of Engineering:

“Welcome back on board for the 8th High-Speed Aerospace Transportation Workshop (HSAT)!”

As you know, this one-of-a-kind aerospace industry event is action-packed, interactive, insightful, and results-driven for the High-Speed Flight (HSF) sector.

This year, the HSAT industry is benefiting from what I believe are the strongest **tailwinds** in more than six decades. And when we have tailwinds like these, the only throttle setting is **FUEL RICH**—and fuel rich means **FUNDED RICH**.

In the 8th Edition, alongside our extensive work matrix, we will deliberately, intensely, and fully focus on what it takes to **fully fund the HSAT industry—once and for all**.

Over the past seven editions, we've all become crystal clear: the industry will not truly take off until more than **\$100 billion** is committed to deployment—without interruption—for at least the next decade.

As we strive to fly faster, we will fund faster. Expect a full room of financial stakeholders—more than



we've ever hosted before. They know the policy, regulatory, standards, and market tailwinds for high-speed flight. They're flush with trillions in capital—and ready to talk business.

That's why I'm setting **MAX THRUST** and challenging us all with one bold objective: **secure \$100+ billion in HSAT funding by 2030**. That's right—\$100 billion in just half a decade. The clock starts **NOW**.

Sign up today:

(<https://hsat.highspeedflight.com/>) for the most impactful HSAT edition yet—including an extra half-day to collaborate, share insights, network, and, of course, enjoy some genuine Texas hospitality in the evenings. Stay tuned for updates on our countdown milestones, facilitators, keynote speakers, special guests, and more via our website, social media channels, and those of our strategic partners.



See you in Midland, Texas, America's High Speed Flight hub.

Oscar S. Garcia, Chairman & CEO
InterFlight Global Corporation
High Speed Flight-Fast Forward Group
oscargarcia@interflightglobal.com

HSAT 2025-8TH EDITION WORKSHOP PROGRAM HIGHLIGHTS , TASKS AND TOPICS MATRIX





Day 1-Wednesday, Nov 12th 13:00-18:00

- **Welcome to the Workshop-Welcome Remarks and Workshop Objectives-Presenters include but not limited to:**
 - **Oscar S. Garcia, Chairman, IFG-HSF**
 - **Jim Sherman, Natalia Larrea-Brito, AIAA**
 - **Dr. George Nield, GSA**
 - **David Cavossa, Commercial Spaceflight Federation**
 - **Dr. Sandra Woodley, UTPB**
- **State of the Art- High Speed Aerospace Transportation (HSAT) Industry 2025**
 - **High Speed Transonic**
 - **Supersonic**
 - **Hypersonic**
 - **Suborbital**
- **High Speed Flight (HSF) AIAA Task Force Report 2025 Focus Areas**
-

Day 2-Thursday, Nov 13th 08:00-17:30

- **Morning Session HSF Tracks-PRO-SST & Finance**
 - **Policy**
 - **Regulations**
 - **Operations**
 - **Standards**
 - **Safety**
 - **Technology**
- **Afternoon Session- FINANCE-8TH EDITION MAIN FOCUS**
 - **Funding HSF-\$100B+ by 2030**
 - **Markets and Economics**
 - **Financing and Funding-Past, Present and Future**
 - **Private, Public and Hybrid Funds-Capital Sources and Deployment**

Day 3-Friday, Nov 14th

- **HSF Emerging Focus Areas**
 - **Human Factors**
 - **Airspace Development**
 - **International Standards**
 - **NEW AREAS FROM WORKSHOP INPUTS**
- **HSAT ACTION PLANS**
 - **ROADMAPS-Terms**
 - **Short 2025-2026**
 - **Medium 2025-2030**
 - **Long 2025-2050**
 - **Tasks and Actions-Deliverables areas-Across All Speed Segments (PRO-SST & Finance)**
 - **Policy**
 - **Regulations**
 - **Operations**
 - **Standards**
 - **Safety Technology**
 - **Finance**

HSAT General Programming

- **Networking Coffee Breaks**
- **Full catering and refreshments**
- **Side meeting areas, one on one and group conference rooms available**
- **Midland Air and Spaceport, Airspace Corridors, Land and Ground infrastructure, Facilities, Altitude Chambers and much more. On demand visits, request one!**
- **For programming Details Contact:**
 - **Yvette Garcia –**
yvettegarcia@interflightglobal.com



High Speed Flight- Work Areas Matrix 2025

YELLOW CELLS SHOW DISCUSSION AREAS-ACTION ITEMS FOR 2025		NEW AREAS 2025							
HIGH SPEED AEROSPACE TRANSPORTATION WORKSHOP MATRIX AREAS INDUSTRY AREAS OF INTEREST AND DEVELOPMENT		SPEED SEGMENTS TRACKS	HSAT 2025 MASTER AREAS OF INTEREST	HSAT 2025 DISCUSSIONS-PARTICIPANTS	< MACH 1.0 TRANSONIC	MACH 1.0- 4.0 SUPERSONIC	MACH 5.0-10.0 HYPERSONIC	MACH 10.0+ SUBORBITAL	MACH 20.0+ ORBITAL
1	RESEARCH & DEVELOPMENT	1.1 CONOPS							
		1.2 MISSIONS							
2	DESIGN & ENGINEERING-INNOVATION-TECHNOLOGY	2.1 AERO/SPACE DYNAMICS							
		2.2 STRUCTURES							
		2.3 PROPULSION							
		2.4 GUIDANCE							
		2.5 SAFETY SYSTEMS							
		2.6 SYSTEMS-INTEGRATION							
		2.7 AI, ML, QUANTUM COMPUTING ET AL							
3	MANUFACTURING & ASSEMBLY	3.1 MATERIALS							
		3.2 SUPPLY CHAIN							
		3.3 CERTIFICATION							
4	OPERATIONS	4.1 FLIGHT OPS							
		4.2 GROUND OPS							
		4.3 PERIPHERAL OPS							
		4.4 INTEGRATION (NAS)							
5	HUMAN FACTORS-OPERATIONS	5.1 CREW							
		5.2 OCCUPANTS/PAX							
		5.3 TRAINING							
		5.3 TRAFFIC MGMT							
6	HUMAN FACTORS-AEROSPACE MEDICINE	6.1 FLIGHT CREW							
		6.2 GROUND CREW							
		6.3 OCCUPANTS/PASSENGERS							
		6.4 PUBLIC							
7	SAFETY & COMPLIANCE	7.1 LICENSING							
		7.2 CERTIFICATION							
		7.3 STANDARDS							
		7.4 SAFETY MANAGEMENT							
8	LEGAL-LEGISLATION-INSURANCE	8.1 ENVIRONMENTAL-SUSTAINABILITY							
		8.2 LEGAL							
		8.3 INTERNATIONAL							
		8.4 INSURANCE-LEGAL							
		8.5 POLICY-REGULATORY INTERFACES							
9	FINANCIAL,ECONOMIC, MARKETS & BUSINESS	9.1 FUNDING							
		9.2 MARKETS							
		9.3 BUSINESS/MISSION CASE							
		9.4 PUBLIC DEMAND AND ADVOCACY							
10	INFRASTRUCTURE-POWERPLANTS	9.1 AIR/SPACEPORTS							
		9.2 AIRSPACE							
		9.3 PROPELLANTS-FUELS AND POWER							
11	HUMAN RESOURCES-PERSONNEL-EDUCATION	10.1 INNOVATION							
		10.2 EDUCATION							
		10.3 TRAINING							
		10.4 CERTIFICATION							
		10.5 MARKETING AND OUTREACH -PR							
12	WEATHER AND NATURAL PHENOMENA	12.1 HIGH ALTITUDE ATMOSPHERIC WEATHER							
		12.2 SPACE WEATHER							
13	HSF MARKETS, ECONOMICS, FINANCING, FUNDING	13.1 BUSINESS MODELS							
		13.2 MARKETS							
		13.3 FINANCIAL AND ECONOMICS							
		13.4 FUNDING AND FINANCING							

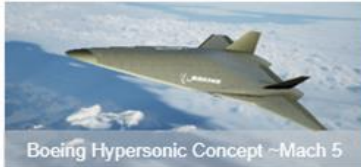


2025 High Speed Flight- Aerospace Transportation Programs of Record and Analysis-Include but are not Limited to:

Atmospheric (< Karman Line - 100KM)



Boom Overture – Mach 1.7



Boeing Hypersonic Concept – Mach 5



Lockheed Concept – Mach 1.8



Destinus Hydrogen – Mach 5



Virgin Galactic – Mach 3



Spike Diplomat – Mach 1.6



Hypersonix Delta-Velos – Mach 5+



Aerion AS2 – Mach 1.4 (cancelled)



Exosonic Supersonic Jet – Mach 1.8 (cancelled)



NASA X-59 – Mach 1.4



JAXA Concept – Mach 5



Hermeus Halcyon – ~Mach 5



SpaceWorks SST 2040 – Mach 4



Venus – Mach 4



New Frontier Aerospace – Mach 5+

Sub-orbital (> Karman Line - 100KM)



Space Engine Systems-
HELLO1/2 –Mach 10+



SpaceX Starship-Mach 20+



Polaris Spaceplane –Mach 15+



Radian Aerospace
Mach 20+



Hyperion – Mach 10+



Dawn Aero-Aurora MKIII-
Mach 5+



Eon Aerospace – Mach 1.9



Reaction Engines-Skylon
Mach 15+ (cancelled)

7

(All Images taken from each companies Internet website)

AMERICAN INSTITUTE OF AERONAUTICS AND ASTRONAUTICS | AIAA.ORG





HSAT Workshop-Deliverables 2024-2025. Participation will yield tangible results for the HSF Industry in 2026. Join the conversation, enable the industry.

AREAS OF INTEREST HSAT 2024-2025 WORKSHOP TRANS-T, SUPER-S, HYPER-H, ORBITAL-O									
				T	S	H	O	2024 TASKS	ACTIONS-RESULTS
	IN PRIORITY ORDER								
1	REGULATIONS-SAFETY-COMPLIANCE			X	X	X		SET-UP STANDARDS DEV COMMITTEE FOR SUPERSONIC AND HYPERSONIC	SAE-SAGS, AIAA HSF-PARTICIPATION-REPORTS
2	REGULATIONS-ENVIRONMENTAL			X	X	X		SET-UP SUSTAINABILITY WORKING GROUP	FAA ASCENT/ICAO CAEP-PARTICIPATION
2	SOCIETAL-HUMANITIES-RELEVANCE			X	X	X	X	SET-UP MESSAGING AND EDUCATION WORKING GROUP	AIAA-AVIATION/ASCEND-HSF TASK FORCE PARTICIPATION- REPORTS
3	INFRASTRUCTURE AIR/SPACEPORT			X	X	X		UPDATE AND PROMOTE GSA SPACEPORT	GSA- HSF P2P WG-AIRSPACE,
4	INFRASTRUCTURE/AIRSPACE			X	X	X		INCLUDE AIRSPACE FUNDING IN INFRASTRUCTURE REQUESTS	FAA HR 3935, CSF-STIM GRANTS/ASTRO, ETC PARTICIPATION-LOBBYING
5	BUSINESS-MODELS AND IMPACTS			X	X	X	X	INCLUDE ECONOMIC DEVELOPMENT IMPACT FROM P2P HSAT	REQUESTED GLOBAL INVESTMENT BANKS REPORT UPDATES
6	OPERATIONS-CONOPS				X	X		WG-ISSUE S2S AIRSPACE CORRIDORS WHITE PAPER	STARTED INTERNATIONAL WHITE PAPER AIRSPACE DEVELOPMENT, GSA
7	BUSINESS-MARKET MIX			X	X	X		DEFINE MULTI MARKET BUSINESS CASE: COMMERCIAL, CIVIL AND DEFENSE	CRADAS USTRANSCOM-AFRL-USSF ROCKET CARGO-PARTICIPATION
8	REGULATIONS-ITAR-SECURITY-INTEROPERABILITY			X	X	X		PARTAKE IN "SECURITY" INCL CYBER (IE FBI-FAA AST PLAN)	GPS-GNSS ITAR TO EAR TRANSFER-CONVERSATIONS IN PROGRESS
9	HUMAN FACTORS, AERO MEDICAL, PHYSIO/PSYCHOLOGY			X	X			OUTLINE HUMAN FACTORS/AERO-MEDICAL/WITH FAA, ACADEMIA AND NON PROFITS/INDUSTRY	CONVERSATIONS FAA-CAMI AND PRIVATE RESEARCH- HRP PROGRAM PARTICIPATION

