

2022 State of the Space Industrial Base Agenda

As of 19 May 2022
(Times in MST)

Agenda At a Glance

2022 State of the Space Industrial Base - Hotel Albuquerque				
Tuesday 31 May		Wednesday 1 June	Thursday 2 June	Friday 3 June
7:00		Breakfast - Arrive	Breakfast - Arrive	Breakfast - Arrive
8:00		Welcome - Opening	Welcome - Opening	SESSION 3: WGs 4-6
8:30		Keynote Presentations, Panels		
9:00				Break
9:30		Break		Welcome - Opening
10:00		Keynote Presentations, Panels	SESSION 1: WGs 4-6	Presentations, Panel & Working Group Outbriefs
10:30				
11:00		Lunch - Panel	Lunch - Panel	Closing Remarks
11:30		Presentations, panels	SESSION 2: WGs 1-3	Adjourn
12:00				
12:30		SESSION 1: WGs 1-3	SESSION 2: WGs 4-6	Plenary
1:00				
1:30		SESSION 3: WGs 1-3	SESSION 3: WGs 1-3	Working Groups - Parallel
2:00				
2:30		5:00-7:00, Hosted Dinner & Announcement NewSpace New Mexico LaunchPad, 2420 Alamo Ave. SE		Receptions
3:00	WG Chair Dry Runs			
3:30	Arrive - Check in			
4:00	4:00-6:00, Registration & Exhibitor Reception - Hotel Albuquerque			
4:30				
5:00				

Panels on Working Group Conference Topics:

1: Hybrid Space Communications: This working group will explore the progress made in securing funding for the future Space Internet and how to accelerate achieving the vision for transforming space systems into a 'space superhighway' that strengthens US leadership in commercial, civil and national security space. The discussion will include how to enable the space industrial base in delivering critical solutions across building hybrid space architecture, multi-path communications, SATCOM, Space Domain Awareness, weather observation sources and ground terminals. Hybrid space communications are foundational to enabling secure, authenticated, interoperable communication between satellites and much broader economic activity. Addressing where automation and autonomy are desirable and essential for transforming communications in space will also be covered.

2: In-Space Transportation & Logistics: This working group will explore how the U.S. and its allies should advance development on modular, serviceable, and reusable systems and sustainable in-space logistics infrastructure (both physical and digital) to support operations by leveraging commercial, civil, and national security space systems. This will include a discussion on implementing the Active Debris Removal Strategy (pending release) and In-Space Servicing, Assembly, and Manufacturing (ISAM) National Strategy.

3: Policy & Finance: This working group will discuss recent developments and actionable steps needed to modernize near- and mid-term licensing, trade, economic and financial policies and strategies to ensure the long-term competitiveness of the commercial space sector. This encompasses policies and strategies on how to engage allies and regional partners and address foreign ownership, control and influence (FOCI) while protecting our national security and supporting the U.S. space industrial base.

4: Next Generation Power and Propulsion: In the last year, the U.S. Government has laid out a National Strategy for Nuclear Power and Propulsion. Both the human missions themselves and the logistics missions that support them will require large quantities of propellant and highly efficient propulsion systems to achieve affordable routine missions. Systems such as high-power electric propulsion, nuclear thermal and nuclear electric propulsion, and Lunar-sourced propellant must all be developed to sustain the spaceflight ecosystem. This group will discuss progress made over the last year and challenges to be addressed to expand energy supplies more rapidly, including regulatory and licensing obstacles and a lack of testing facilities and nuclear disposal sites. Nuclear and solar power and propulsion, power beaming and alternative propellants will be among the innovative technologies explored and discussed

5: Remote Sensing & Traffic Management: This working group will review the current remote sensing and traffic management landscape and propose implementable recommendations needed to resolve undetermined aspects of operation in cislunar space, including spectrum allocation, space situational awareness, and earth observation (EO, IR, Hyperspectral, SAR, RF, others) with real time tracking from, to, and in space. This will include modernizing and overcoming barriers to commercial acquisition regulations to leverage the nation's growing commercial remote sensing industry to enhance our space domain awareness (SDA) architecture and continue expansion of LEO constellations.

6: Workforce, Education and STEM: A healthy space infrastructure supported by a STEM workforce must be put in place to capture a dominant share of the \$1.4 trillion in economic growth expected over the next decade. Success will require a highly educated workforce across all Science, Technology, Engineering and Mathematics (STEM) disciplines not only in design but skilled labor. However, workforce issues threaten the economic viability of space as well as the ability to maintain a strong national security space posture. This group will discuss progress in building the space workforce of the future and how to address talent gaps, such as preparing the workforce, increasing diversity, securing financial investments and retaining talent.

31 May 2022 – Tuesday

2:00 – 4:00 Leadership and Working Group Leaders Dry Run

3:00 – 6:00 Check in

4:00 – 6:00 Reception

1 June 2022 – Wednesday

7:00 – 8:00 Breakfast and Check In

8:00 – 10:00 Plenary: Opening Presentations and Panels

Welcome - New Mexico State

Opening Leadership Panel: State of the Space Industrial Base - Highlight achievements policy impacts and other developments. Gen John Olson, U.S. Space Force; Gen Steve (Bucky) Butow, Defense Innovation Unit, Col Eric Felt, Air Force Research Laboratory

Results of the DIU's Space Industrial Base Survey conducted in May 2021

Keynote Presentation - NASA Administrator Nelson (Virtual)

Keynote Presentation – NASA – Dr. Bhavia Lal, Associate Administrator for Technology, Policy, and Strategy and NASA Chief Technologist (Acting)

Keynote Presentation – Commerce

10:00 – 12:00 Plenary: Panels on Working Group Conference Topics:

1: Hybrid Space Communications

2: In-Space Transportation & Logistics

3: Policy & Finance

4: Next Generation Power and Propulsion

12:00 – 1:00 pm - Lunch – Industry Panel: The Ukraine conflict highlights the significance of the Information Domain and how commercial space capabilities have been used to counter propaganda and reveal the truth

1:00 – 2:30 pm Plenary: Panels on Working Group Conference Topics:

5: Remote Sensing & Traffic Management

6: Workforce, Education and STEM

Launch Working Group Out Brief

Kick off – Working Groups

2:30 – 3:00 pm - Industry Panel

Industry Panel: On-orbit Servicing, Assembly, and Manufacturing (OSAM); In-Space Servicing, Assembly, and Manufacturing (ISAM)

3:00 – 5:00 pm – Concurrent Working Group Breakouts - Topics 1-3, Session 1

1: Hybrid Space Communications

2: In-Space Transportation & Logistics

3: Policy & Finance

5:00-7:00, Hosted Reception-Dinner NewSpace New Mexico U&I LaunchPad

2 June 2022 – Thursday

7:00 – 8:00 Breakfast and Check In

8:00 – 9:30 Plenary: Opening Presentations and Panels

Welcome

Keynote Presentation - International space accomplishments and potential collaborations for US space activities

Keynote Presentation: Building a diverse STEM talent pipeline

Keynote Presentation: Atlantic Council - Strategy for Space Security; National Security Implications of Small Satellites; Space Traffic Management

10:00 am – 12:00 pm Concurrent Working Group Breakouts - Topics 4-6, Session 1

4: Next Generation Power and Propulsion

5: Remote Sensing & Traffic Management

6: Workforce, Education and STEM

12:00 – 1:00 Lunch – Industry Panel – Commercial Space Data as a Service

1:00 – 2:30 pm – Concurrent Working Group Breakouts - Topics 1-3, Session 2

1: Hybrid Space Communications

2: In-Space Transportation & Logistics

3: Policy & Finance

2:30 – 4:00 pm Concurrent Working Group Breakouts - Topics 4-6, Session 2

4: Next Generation Power and Propulsion

5: Remote Sensing & Traffic Management

6: Workforce, Education and STEM

4:00 - 5:30 pm – Concurrent Working Group Breakouts - Topics 1-3, Session 3

1: Hybrid Space Communications

2: In-Space Transportation & Logistics

3: Policy & Finance

3 June 2022 Friday

7:00 – 8:00 Breakfast and Check In

8:00 – 9:30 Concurrent Working Group Breakouts – Topics 4-6, Session 3

4: Next Generation Power and Propulsion

5: Remote Sensing & Traffic Management

6: Workforce, Education and STEM

10:00 – 1:00 Plenary: Presentations, Panel and Working Group Out Briefs

Welcome

Keynote: Fast Follower Strategy –Mike Brown - virtual

Panel: Venture Capital Investment & Successes from Industry

Working Group Out Briefs & Closing Remarks