

USERS' ADVISORY GROUP

OF THE

NATIONAL SPACE COUNCIL

Mary Lynne Dittmar

Eric Stallmer

Dave Thompson

Opening Remarks

- Relationships with:
 - The National Space Council (NSpC): Tasking and Initiative
 - National Aeronautics and Space Administration: Administrative
 - The UAG itself: Executive Committee, Subject Area Committees, Advisors, Member Inputs
 - Other Entities: NASA, DoD, Industry, Scientific Community (ALL Users)
 - Outreach Efforts: Existing Venues (NSS, IAC, AIAA, USRA, etc.)
- There are NO Issues that are off limits
- Chairman Convenes With NSpC if UAG Does Not

Users' Advisory Group Charter: Description of Duties

The UAG's duties shall include, but are not limited to:

- o Seek to ensure that the interests of industry, other non-Federal entities and other persons involved in aeronautical and space activities are adequately represented on the National Space Council;*
- o Provide subject matter expertise to the council;*
- o Submit reports with findings and recommendations to the Council;*
- o Conduct studies, reviews, and evaluations, as requested by the Council; and*
- o Submit and annual report to the Council on its activities, as requested by the Council.*

Organizational Construct

- *Subcommittees:*
 - *Exploration and Discovery: Les Lyles, Chair*
 - *National Security Space: Jim Ellis, Chair*
 - *Economic Development/Industrial Base: Mary Lynne Dittmar and Eric Stallmer, Co-Chairs*
 - *Technology and Innovation: Pam Melroy, Chair*
 - *Outreach and Education: Eileen Collins, Chair*
 - *Space Policy and International Engagement: David Wolf, Chair*
- *Executive Committee: Subcommittee Chairs*

Brief Discussion of Three of the Subcommittees

- Exploration and Discovery
- Economic Development and Industrial Base
- Technology and Innovation

Exploration & Discovery *Membership*

- Chair: General Lester Lyles (USAF, ret.)
- DFO: Brandon Eden
- Members:
 - Tony Bruno
 - Wes Bush
 - Mary Lynne Dittmar
 - Marilyn Hewson
 - The Honorable Kay Ivey
 - Dennis Muilenburg
 - Fatih Ozmen
 - Gwynne Shotwell
 - Eric Stallmer
 - Dave Thompson
 - Pam Vaughan
 - Stuart Witt

Exploration & Discovery *Topics of Focus*

1. *There is a need for a resilient “space architecture” that is safe/fast/sustainable - for the entire Exploration Mission (Lunar to Mars).*

DISCUSSION: Need to examine/discuss alternative architectures for early Lunar exploration with flexible utilization of existing systems and approaches for future Martian missions.

Exploration & Discovery *Topics of Focus*

2. *Need to ensure a balance between Exploration and Discovery in future Space Missions, including how Exploration can enable Science (vice versa).*

DISCUSSION: Ongoing detailed discussions already underway with UAG members and NAE/NAC.

Economic Development and Industrial Base *Membership*

- Co-Chairs: Mary Lynne Dittmar and Eric Stallmer
- DFO: Nate McIntyre
- Members:
 - Tory Bruno
 - Steve Crisafulli
 - Tim Ellis
 - The Honorable Kay Ivey
 - Fred Klipsch
 - Gwynne Shotwell
 - Bob Smith
 - David Thompson
 - Stuart Witt

Economic Development & Industrial Base

Topics of Focus

- *Develop recommendations for accelerating the economic development of Low Earth Orbit (LEO) and cislunar space**
- *Develop a framework for understanding and applying different contracting mechanisms to include public-private partnerships, other transaction agreements (OTA), space act agreements (SAA), cost-plus contracts, etc.*
- *Develop recommendations for strengthening and expanding the overall U.S. industrial base and infrastructure*

**This topic is expected to address International Space Station planning*

Technology and Innovation Subcommittee

Membership

- Chair: Col Pamela A. Melroy (USAF, ret)
- DFO: Mr. Nate McIntyre
- Members:
 - Mr. Wes Bush
 - Mr. Dean Cheng
 - Mr. Tim Ellis
 - The Hon. Kay Ivey (*Governor of Alabama*)
 - Mr. Fred Klipsch
 - Gen Lester Lyles (USAF, ret)
 - Mr. Fatih Ozmen
 - Dr. Bud Peterson
 - Dr. Harrison “Jack” Schmitt
 - Dr. David Wolf

Technology and Innovation Subcommittee

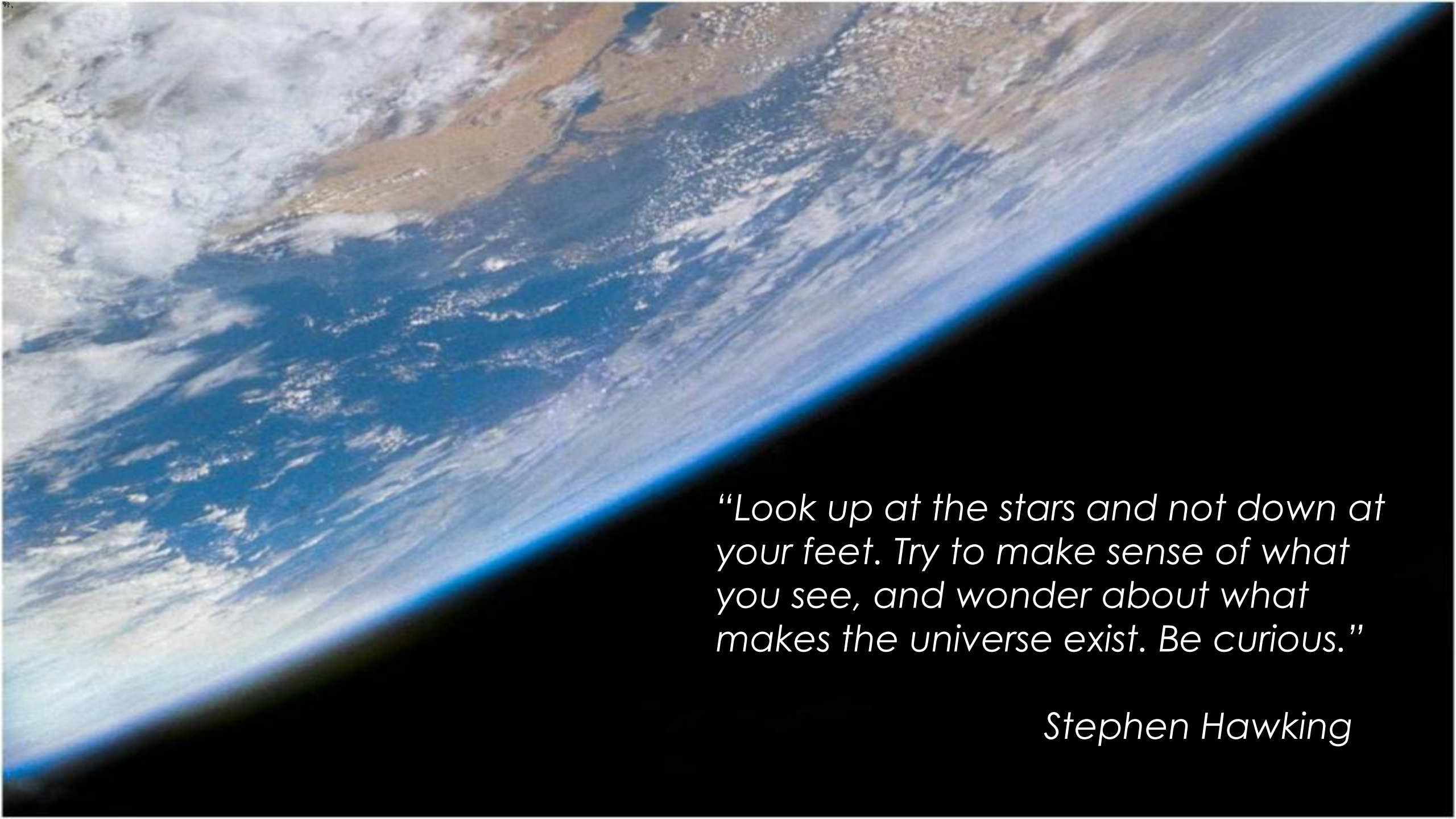
Summary of Activities

- Held 2 administrative/preparatory telecons to develop Terms of Reference and identify focus areas. Two areas of high interest were identified:
 1. Space technology roadmap review
 2. Space data as a US government capability vs buying as a service

- Additional topics of interest to be pursued:
 1. Balancing performance-based regulations that encourage innovation with necessary commonality/standardization
 2. Developing a list of game-changing technologies

We want to hear from you!

- ***We want to know what you think –***
 - What you think we should know....
 - What your concerns are....
 - What your thoughts are...
 - What you think we should be considering, or paying attention to
- ***Questions? Comments? Thoughts? - the mics are open!***
 - Also can submit comments, questions, white papers at:
 - hq-uag@mail.nasa.gov (Please note: All submissions are open – do not submit proprietary or confidential information)
 - More info about the UAG may be found at:
 - <https://www.nasa.gov/content/national-space-council-users-advisory-group>



“Look up at the stars and not down at your feet. Try to make sense of what you see, and wonder about what makes the universe exist. Be curious.”

Stephen Hawking