

2012 Directorate Goals

- Utilize ISS such that ISS shows the economic benefit of space-based research to commercial and private companies
- Increase public awareness of the marvels associated with ISS, including world-class research/technology advancements and tangible daily benefits to humanity
- Use the ISS international partnerships and the International Space Exploration Coordination Group to develop a global vision for human exploration
- Establish viable commercial cargo transportation for ISS
- Utilize ISS for: basic research; proving new insights into problems affecting people on the Earth; and understanding and developing the systems and protocols necessary for humans to venture beyond low Earth orbit for extended durations.
- Articulate meaningful, exciting and viable missions and uses for SLS and Orion MPCV as part of a capability-driven approach to multi-destination human spaceflight exploration
- Engage the public and Congress in understanding the reasons for exploration in a way that is exciting to young people
 - Explain the challenges and risks associated with operating at the frontier of research and technology
 - Show the potential benefits of accepting the risks inherent in operating at the frontier
 - Articulate this in a manner so that people can understand why we explore despite the challenges
- Grow the effectiveness of the directorate and make it a place where people want to work by continuing to technically develop, challenge, and inspire all ages of our civil servant technical workforce
- Build a solid budget and directorate level plan within an extremely tight fiscal environment
- Work legislation changes needed to allow Russian support for ISS



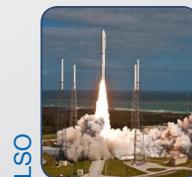
ISS



ESD



CSD



LSO



SSP



SCaN



SLPSRA



HSC



AES

Human Exploration & Operations Online

Beyond Earth: www.nasa.gov/exploration

A topic page linked directly from the NASA.gov home page, this “Beyond Earth” section educates and informs the general public on the future of human spaceflight at NASA; it is the main point of entry to current news, features, images and video produced by HEO programs.

HEO Mission Directorate: www.nasa.gov/directorates/heo

The HEO directorate section is intended for informed audiences and gathers organizational information about divisions of the directorate as well as public documents, briefings and reports.

2012 Division Goals



International Space Station

- Utilize the ISS such that it shows the economic benefit of space-based research to commercial and private companies
- Effectively and creatively utilize the ISS for space-based research and technology demonstration across major NASA-funded research disciplines: U.S. National Laboratory commercial, non-profit, and other U.S. Government agency sectors; and international partner research programs
- Ensure that the facility is supported in a manner that increases the research potential
- Communicate the findings and daily life on the ISS
- Maximize leveraging of the ISS for STEM educational outreach



Exploration Systems (SLS, MPCV, GSDO)

- Finalize/definitize contracts for SLS and MPCV
- Understand the requirements for the core to support multiple booster configurations
- Award the advanced booster development/demonstration contract
- Complete planned steps to prepare a sustainable launch site for SLS as well as commercial programs
- Establish a sound budget and technical requirements for the programs
- Deliver Orion MPCV flight test article core structure to KSC, initiate subsystem installation
- Complete SLS and GSDO system definition reviews.



Commercial Space Development

- Implement a commercial space program that ensures availability of, and access to, agency capabilities and assets in the pursuit of enabling commercial space flight endeavors
- Establish viable commercial cargo transportation for the ISS
- Develop strategy for and award next round of crew space acts
- Prepare for debut of cargo flight capability
- Develop plans to operate in a very constrained budget environment



Launch Services

- Safely fly the launches planned this year
- Establish a plan with the Science Mission Directorate for launching several medium class missions in the future
- Investigate creative and effective ways to certify new launch vehicles



SSP Transition and Retirement

Safe, secure, and disposition Shuttle assets



Space Communications & Navigation

- Complete and launch TDRSS K
- Establish a creditable plan for upgrade of the TDRSS ground terminal at White Sands
- Effectively manage the SN, NEN, and DSN
- Accelerate the milestones to combine the space network (SN), near-Earth network (NEN), and deep-space network (DSN) into an efficient, cost-effective, and internet-worked integrated network (IN) for the user community
- Push new technology—optical communication, DTN, uplink array technology, and advanced wireless technologies for spacecraft and suits



Space Life & Physical Sciences Research and Applications

- Continue and expand research opportunities within tight budget constraints
- Develop strategies to ensure research is focused toward current and future operational problems and lends itself to expanding human exploration beyond low Earth orbit
- Look for creative ways to respond to the decadal survey
- Enable CASIS to be effective



Human Spaceflight Capabilities

- Implement creative ways to reduce facilities costs at MAF and WSTF by bringing in other users
- Facilitate the use of agency-unique capabilities and assets in the pursuit of enabling commercial space development and utilization
- Consolidate rocket propulsion and test facilities
- Ensure the selection of a new astronaut class brings the talent needed for the future



Advanced Exploration Systems

- Evaluate and prioritize the portfolio needed to maintain focus on advancements that are tangibly relevant to the agency's evolving long-term goals in human-robotic space exploration
- Leverage innovative new approaches to affordably develop needed capabilities for sustained human exploration.