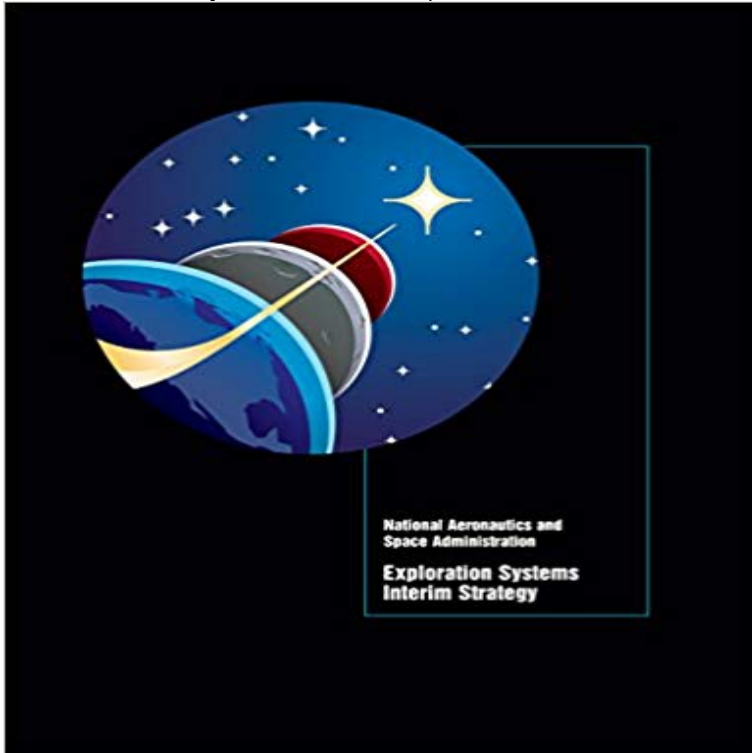


NASA Exploration Systems Interim Strategy



The Exploration Systems Mission Directorate is a new organization within NASA dedicated to creating a constellation of new capabilities, supporting technologies, and foundational research that enables sustained and affordable human and robotic exploration. Our strategy for creating these new capabilities, supporting technologies, and foundational research flows from four overarching principles. Those principles are: Corporate Focus - Advancing the Vision for Space Exploration in tandem with NASA's Aeronautics Research, Science, and Space Operations Mission Directorates Focused, Prioritized Requirements - Targeted to demonstrate sustainable and affordable success in human and robotic exploration Spiral Transformation - Developing capabilities in stages (spirals) with evolving, modular components. Maturing technologies for inclusion in future spirals research and technology that will transform spirals without placing program execution at risk Management Rigor - Emphasizing time-phased priorities, cost performance, and personnel development. Supported by a sound acquisition strategy that promotes innovation Based on these principles, we derive specific program tasks targeted to build new capabilities, and engage in essential research and development. This process of flowing from our strategy to program tasks is iterative. Like our overall efforts, the strategy-to-task process is spiral in nature in that, through repeated analysis of costs, performance options, trends, and results including progress in developing specific capabilities and progress in maturing essential technologies we spiral towards the deployment of new, transformational capabilities in a manner that is effective and affordable. Specific capabilities and supporting research and technology development will evolve over time. Presently, our organization has been tasked

with developing a Crew Exploration Vehicle that will be used by astronauts to travel in space. We are also developing nuclear technologies that will enable long-duration space travel and evaluating plans for a new capability that may service, repair, and eventually de-orbit the Hubble Space Telescope. We are conducting research to ensure the health and safety of astronauts during long-duration space exploration far from Earth. We are actively engaged in promoting new approaches that will substantially involve industry and universities in these efforts. Our Centennial Challenges Program, which offers prizes to stimulate innovation, is one example of a novel approach. We are now in the process of melding our programs with those previously managed by NASA's Office of Biological and Physical Research, including research and development efforts focused on crew health and life-support systems, countermeasures, and radiation protection. By merging our organizations, we will work together to address strategic technical challenges and minimize the health and safety risks for the crew of any space vehicle. Also, the Agency will be developing an updated Agencywide Strategic Plan. We will update our plans as our organization matures. Contents include the following: 1. The Exploration Systems Mission Directorate within NASA. Enabling the Vision for Space Exploration. The Role of the Directorate. 2. Strategic Context and Approach. Corporate Focus. Focused, Prioritized Requirements. Spiral Transformation. Management Rigor. 3. Achieving Directorate Objectives. Strategy to Task Process. Capability Development. Research and Technology Development. 4. Beyond the Horizon. Appendices. 87 pages. Dozens of full-color photographs, drawings, illustrations and charts. This is a Print Replica that maintains the formatting and layout of the original edition and offers many of the advantages of standard Kindle books.

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