

*In addition to thinking about the following questions you should come prepared with inquiries of your own that you would like to propose to the class for peer review.*

*We will start by having Veronica Ann and Andy briefly give a summary of the reading. Then we will discuss, as a class, the pros and cons of space exploration and the policies that have shaped the architecture of exploration to the Moon, Mars and beyond.*

### **Powerpoint Presentation: Exploration Strategy and Architecture**

*Key vocabulary and concepts*

- Innovative technologies
- Hostile planetary environment
- ISRU

Question 1: If you could change this strategy, what would you change?

Question 2: Do you think that this plan will survive in the new Presidency? Why or why not?

### **Air & Space: The Real Reasons We Explore Space**

*Key vocabulary and concepts*

- Public policy circles
- Charles Lindberg
- Ansari X-Prize
- Sergei Korolev
- National Security
- 95% of the Universe

Question 1: Do you understand the goal for exploring the Solar System and beyond?

Question 2: How does terrestrial science and planetary science compliment themselves?

### **NASA Office of Public Affairs: Global Exploration Strategy and Lunar Architecture**

*Key vocabulary and concepts*

- Global Exploration Strategy
- Lunar Architecture Study
- Shackleton Crater
- LRO
- 2020

Question 1: Do you believe that we need to have a more permanent presence in space? Is so, do you feel that returning to the Moon is the fastest and most cost effective path to Mars?

Question 2: After reading Andy's paper, do you believe that we need to certify sample collection and protection protocols on the Moon with exposure to lunar dust and polar volatiles?

Question 3: Do you believe that returning to the Moon has a far better chance of sustained political support than does a far more costly, start from scratch (Mars) program?

Question 4: If you have been interested in human and robotic space exploration and want to see it succeed, what have you done to help?