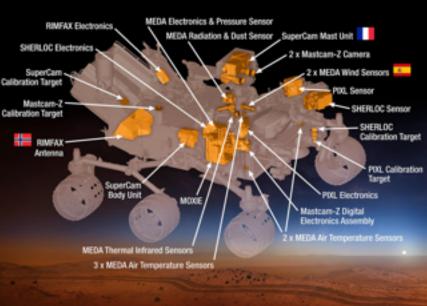


INTERNATIONAL COOPERATION

A Cornerstone of NASA's Activities



Mars 2020 Rover



























International Space Exploration Coordination Group











JOURNEY TO MARS



HUBBLE SPACE TELESCOPE

INTERNATIONAL SPACE STATION

SPACE LAUNCH SYSTEM

ORBITERS

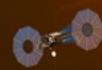
LANDERS

EXPL

ORATIC NO.

COMMERCIAL CARGO AND CREW

ORION CREWED SPACECRAFT



SOLAR ASTEROID
ELECTRIC REDIRECT
PROPULSION MISSION

DEIMOS PHOBOS

MARS TRANSFER HABITAT

MISSIONS: 6-12 MONTHS RETURN: HOURS

TECHNOLOGY

MISSIONS: 1-12 MONTHS RETURN: DAYS MISSIONS: 2-3 YEARS RETURN: MONTHS

EARTH RELIANT

PROVING GROUND

EARTH INDEPENDENT

16 Years of Human Habitation on the International Space Station (ISS)





INTERNATIONAL SPACE STATION

Public-Private Partnerships







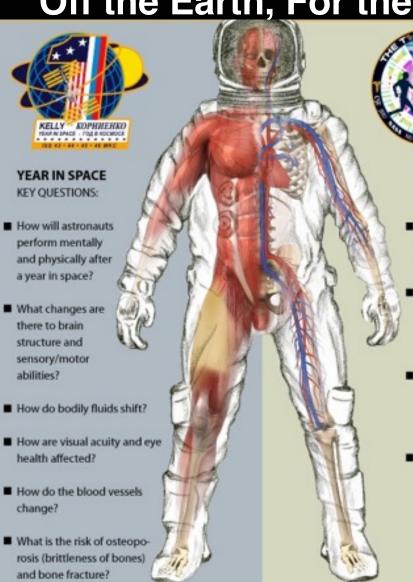


JAXA HTV

INTERNATIONAL SPACE STATION

Off the Earth, For the Earth





How do microorganisms within

the body change?

TWINS STUDY KEY QUESTIONS:

- Does space travel accelerate atherosclerosis?
- How do an individual's genes affect fluid shifts and vision degradation?
- How does space travel affect the genes, chromosomes, DNA and RNA?
- How does space travel affect the immune system?

ARTWORK: NATIONAL SPACE BIOMEDICAL RESEARCH INSTITUTE



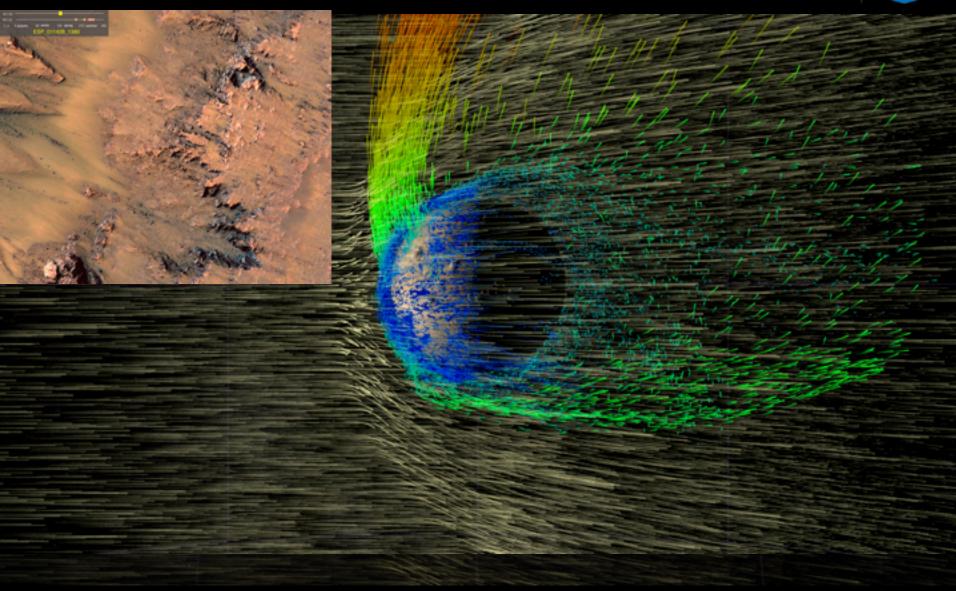
Space Launch System (SLS)





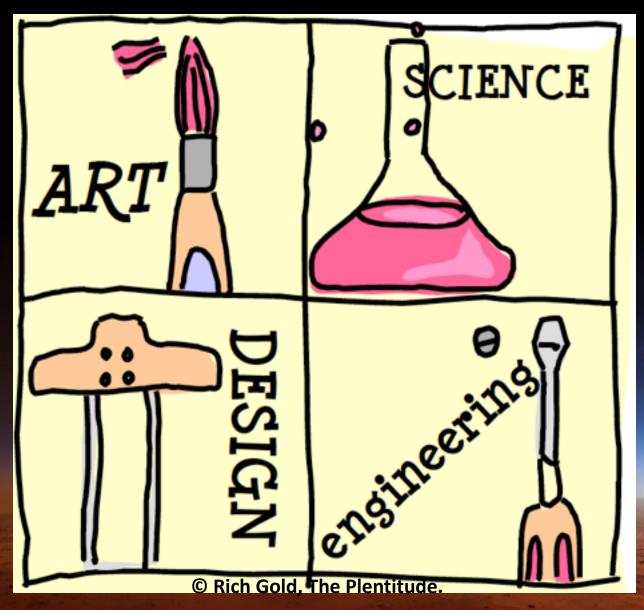
Mars: Flowing Water & Atmosphere Loss

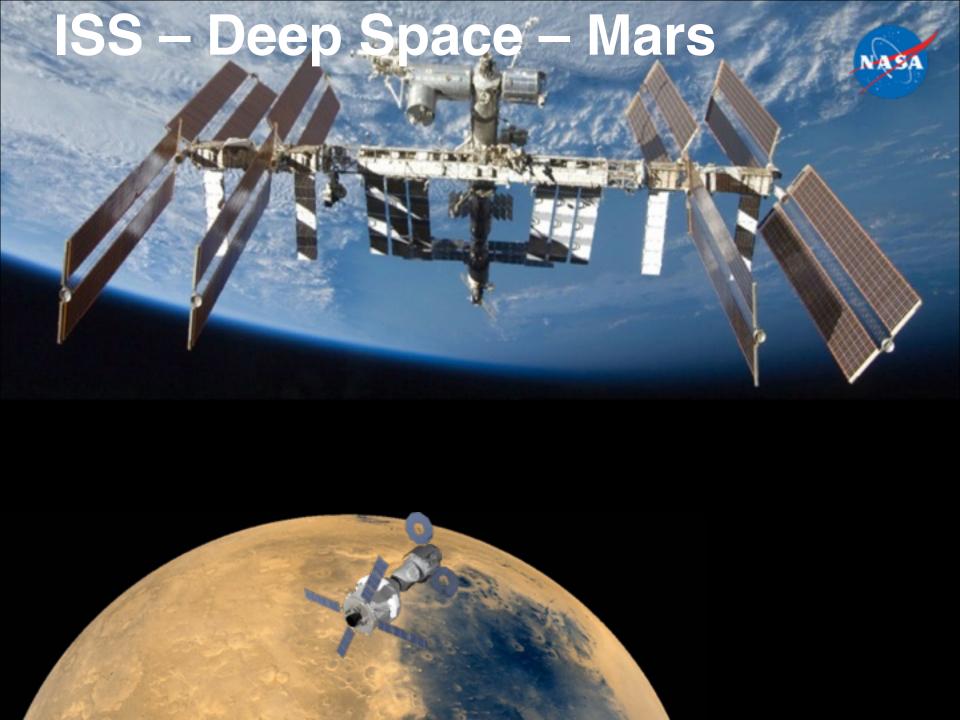




STEAMD







Spaceship Earth It's the Only One We Have!





Global Journey to Mars



