NASA's Game Changing Technology Industry Day June 29-30, 2016 National Aeronautics and Space Administration



IDEAS: Integrated Display and Environmental Awareness System

Presented by Allan Villorin (NASA)

TECHNOLOGY DRIVES EXPLORATION

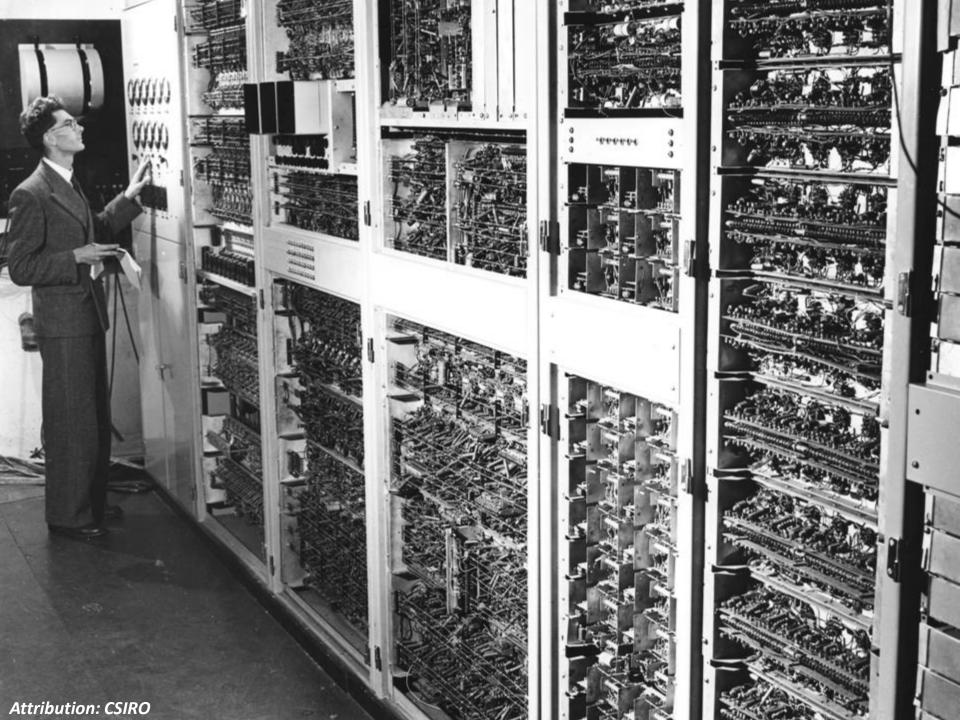


Early 20th Century Vision Of Lunar Exploration

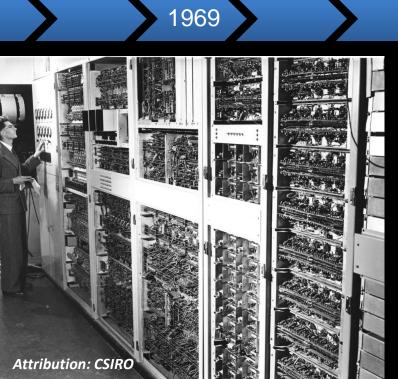


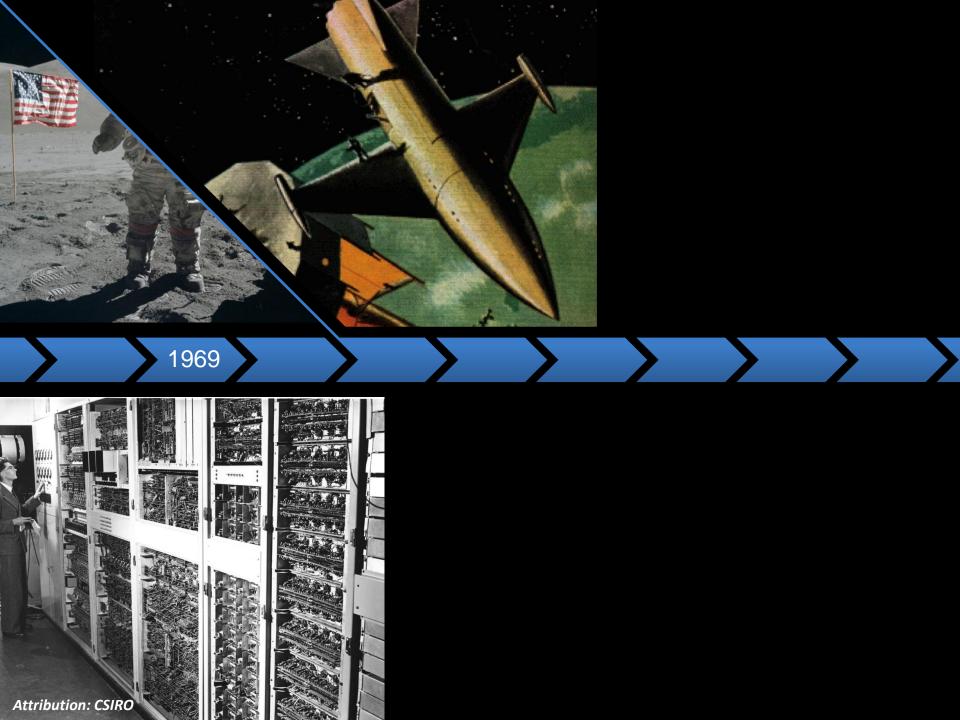


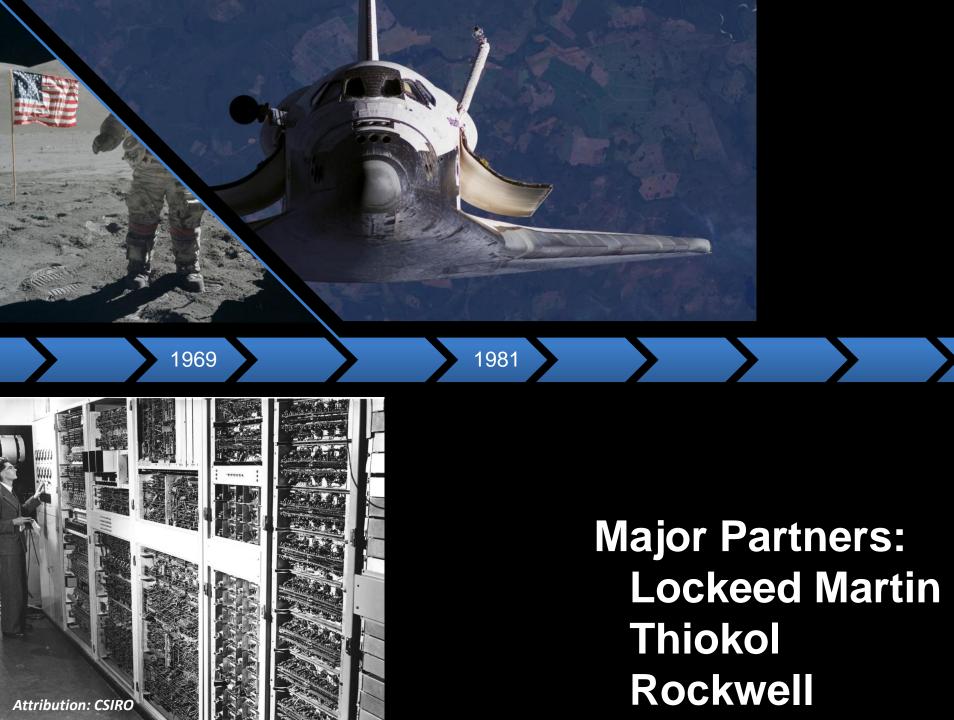
Major Industry Partners: IBM Boeing Douglas Aircraft Grumman Aircraft North American Aviation

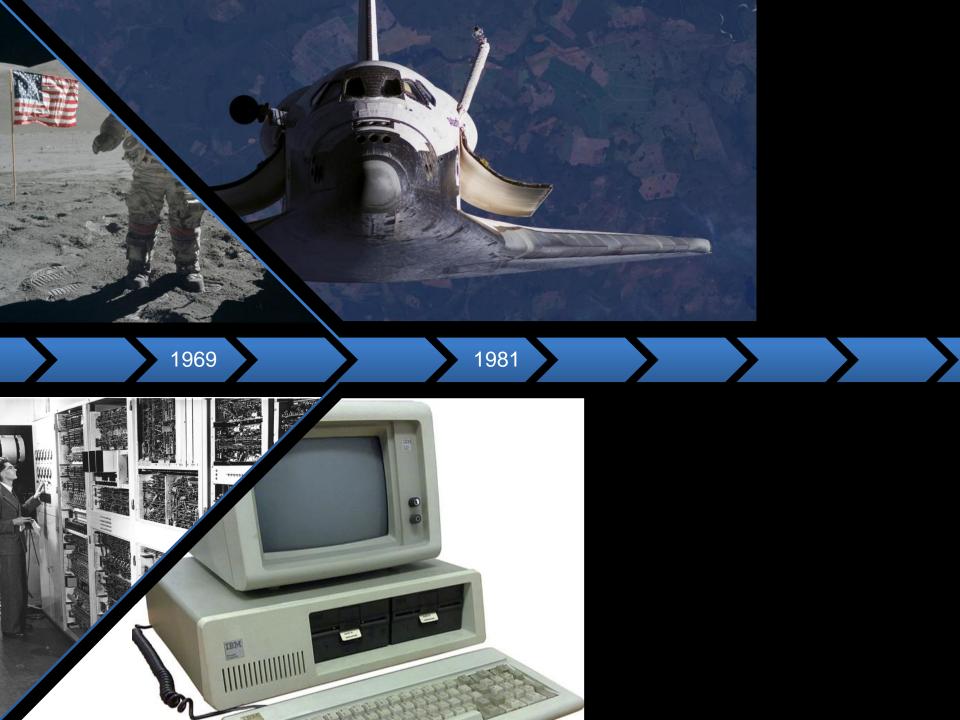








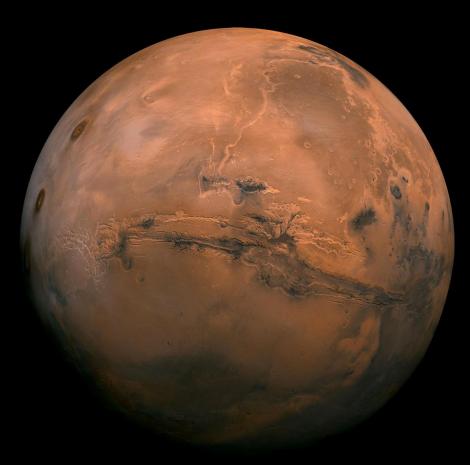












Mars: 21st Century Destination







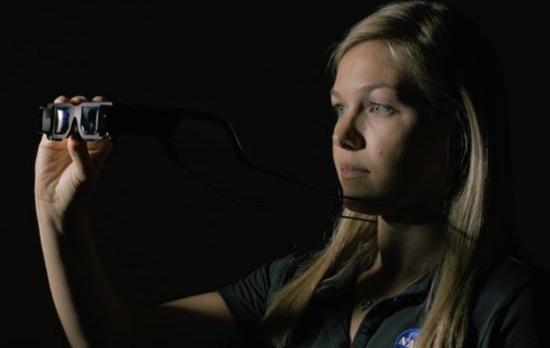


What is it?

- > Head-mounted display for users on Earth and in Space.
- Provides visual communication and augmented reality information to its user.

What is it for?

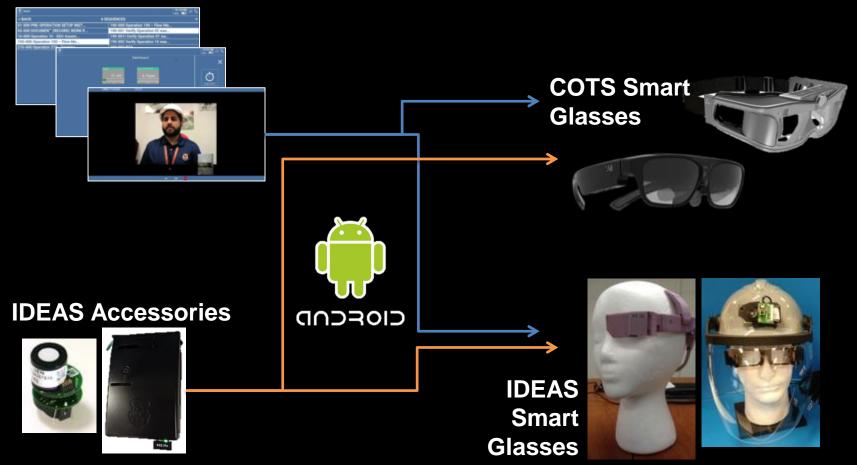
Improving situational awareness, safety and efficiency of the user.



IDEAS Components



IDEAS Software





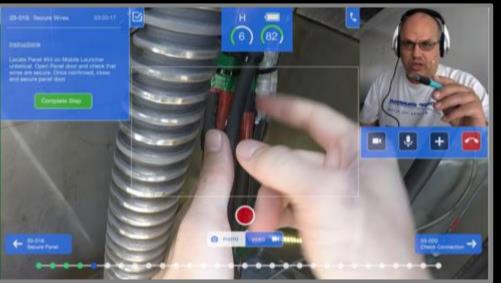
IDEAS Components – Procedures





IDEAS Components – Camera Tools



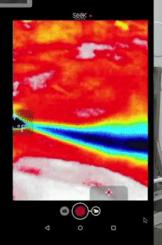


Remote RGB/IR Camera





Head-mounted IR Camera Attachment







IDEAS Components – Sensors



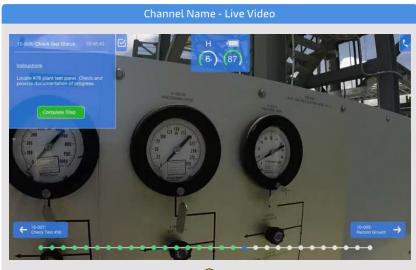


Sensor Accessories

IDEAS Components - Console



IDEAS Console



Video Feed: 😑 David Miranda



Users							
Channel	Users	Safety Clear	Oxygen	Ammonia	Carbon Monoxide	Temp.	Active Step
ı (Request	🔵 David Miranda		18% 🔺	18%	18% 🔺	70	005-005 Step Description Here
Request	Paul Hilt	A	21% 🔻	21% 🔻	21% 🔻	71	005-002 Step Description Here
	Jake Hochstadt		23% 🔻	23% 🔻	23% 🔻	70	005-008 Step Description Here
	Allan Villorin		25% 🔺	25%	25% 🔺	71	005-004 Step Description Here









Attribution: Andyminicooper









Major Partners: You 

IDEAS Contact Info



For more information about this technology or to discuss potential collaboration efforts:





David J. Miranda <u>Email</u>: david.j.miranda@nasa.gov <u>Phone</u>: 321-867-5219

We are open to partnerships:

- to help us develop our tech further
- bring your technology into our system

We have the tools to:

- build agreements
- protect your intellectual property