



Haute Ecole d'Ingénierie
Hochschule für Ingenieurwissenschaften



Welcome @ HEI/Valais/Switzerland

The background of the image is a scenic view of a snowy mountain range. In the foreground, a person is standing on a rocky outcrop, looking out over the landscape. The sky is a mix of blue and purple, suggesting a sunset or sunrise. The overall mood is serene and majestic.

THIS IS HOW WE GET TO SCHOOL IN VALAIS



Engineers, for a safer and sustainable world

- Our planet and environment
- Our Safety
- Progress
- Our quality of life

***Strongly depend of science
and engineering***

Societal Impact of space activities



source of commercial applications, scientific benefits, and philosophical implications.

Discovery: solar system and the exotic universe

Services: navigation, positioning, timing and telecommunications

Earth observation: monitoring of our planet provides crucial information

Innovation: space technologies are already being used in healthcare products, water recovery and waste management.

Satellite applications

Our society increasingly depends on information provided by space-based infrastructures



Positioning, navigation and timing

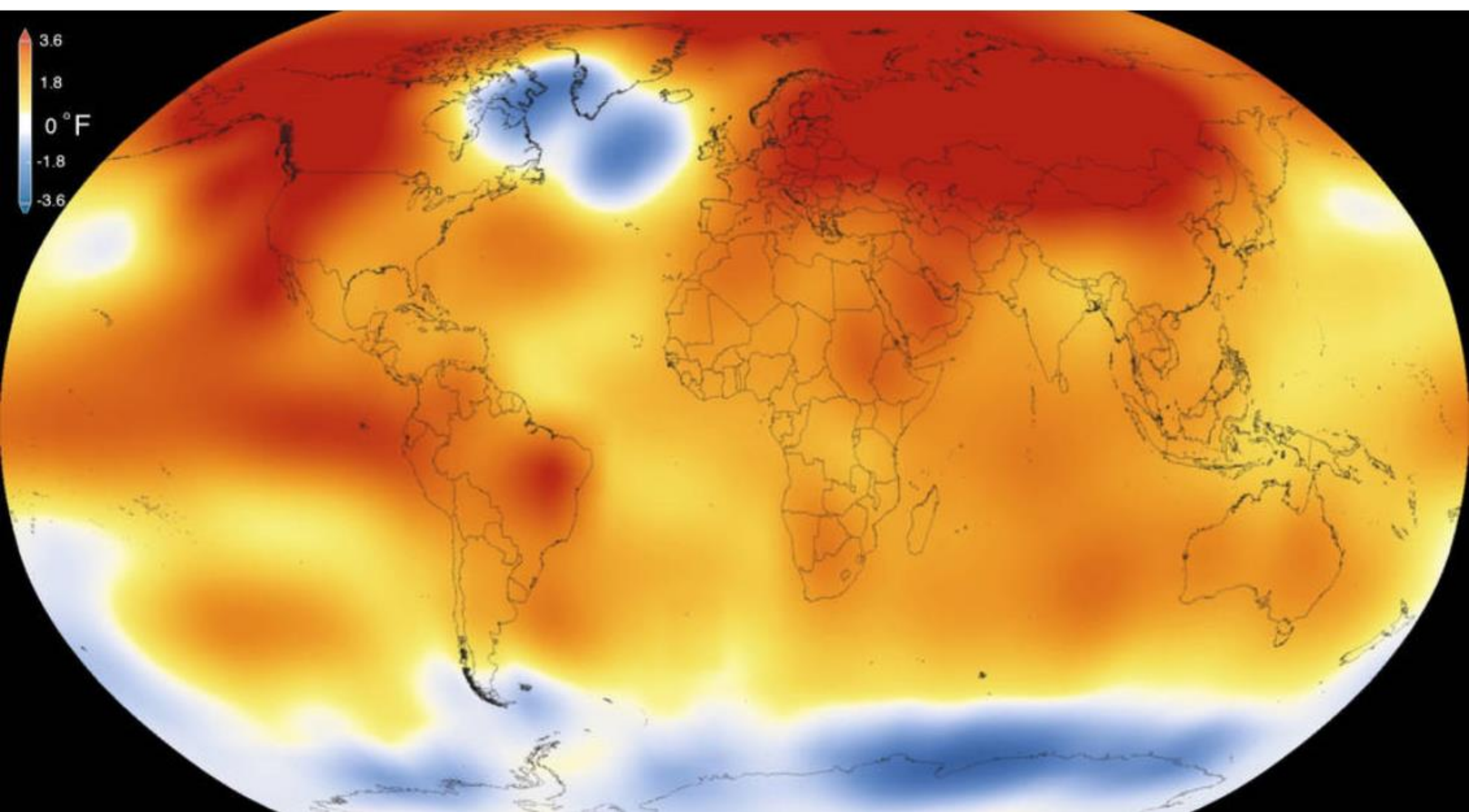
Communications : satellites are used for television, telephone, radio, internet, and military applications

Autonomous driving - Precision agriculture or satellite farming

Human health

From Weather today : Harvey strengthening in Gulf of Mexico





12'000 Syrian refugees at Jordanian border:



Challenges

Beyond the obvious challenges that every mission has, there are two global challenges that space actors should face

Space as a global business

Regulation, Policy, etc.

Trend of small standardized satellites with “custom off the shelf” components

Space as a «cleaner» sector

To reduce environmental impacts of space activities both in Space and on Earth



Space technology projects / Web page HES-SO
<https://www.hes-so.ch/fr/space-technology-projects-8898.html>

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