A view of Earth from the International Space Station at night. The Earth's surface is covered in a dense pattern of yellow and orange lights, representing city lights. The station's solar panels are visible in the foreground, extending from the right side towards the center. The background is the dark, blackness of space.

Let's take a moment to see Earth from the International Space Station

Why COIL Matters Now More Than Ever

From Exchange to Co-Creation

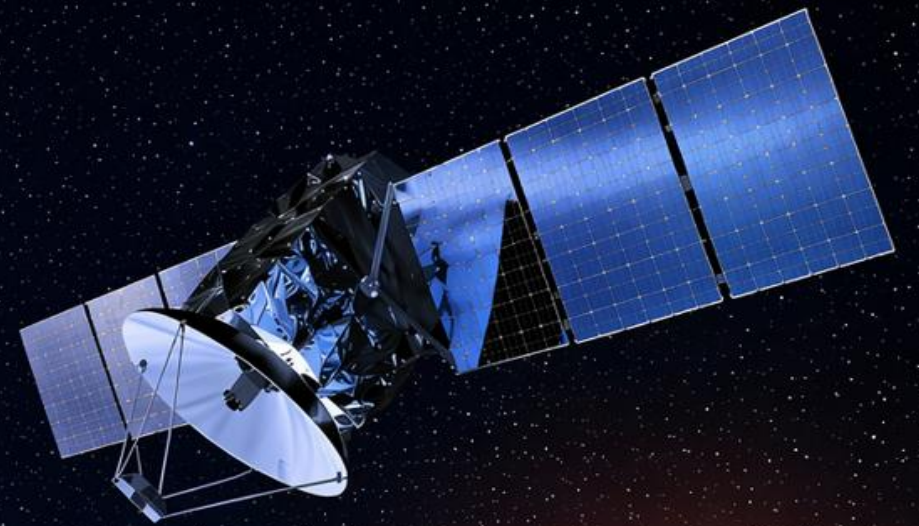
Collaborative Online International Learning
in a Time of Global Complexity

UNICOIL 2026 SYMPOSIUM

Sheffield Hallam University | 23 April 2026

Larisa Schelkin, MS PE & MS CS

UNITAR | Next Generation Global Collaboratory (NGGC)



The World Has Changed



Interconnected challenges

Climate. Health. Security.
No issue is isolated.



Distributed collaboration

Across time zones, cultures
and systems.



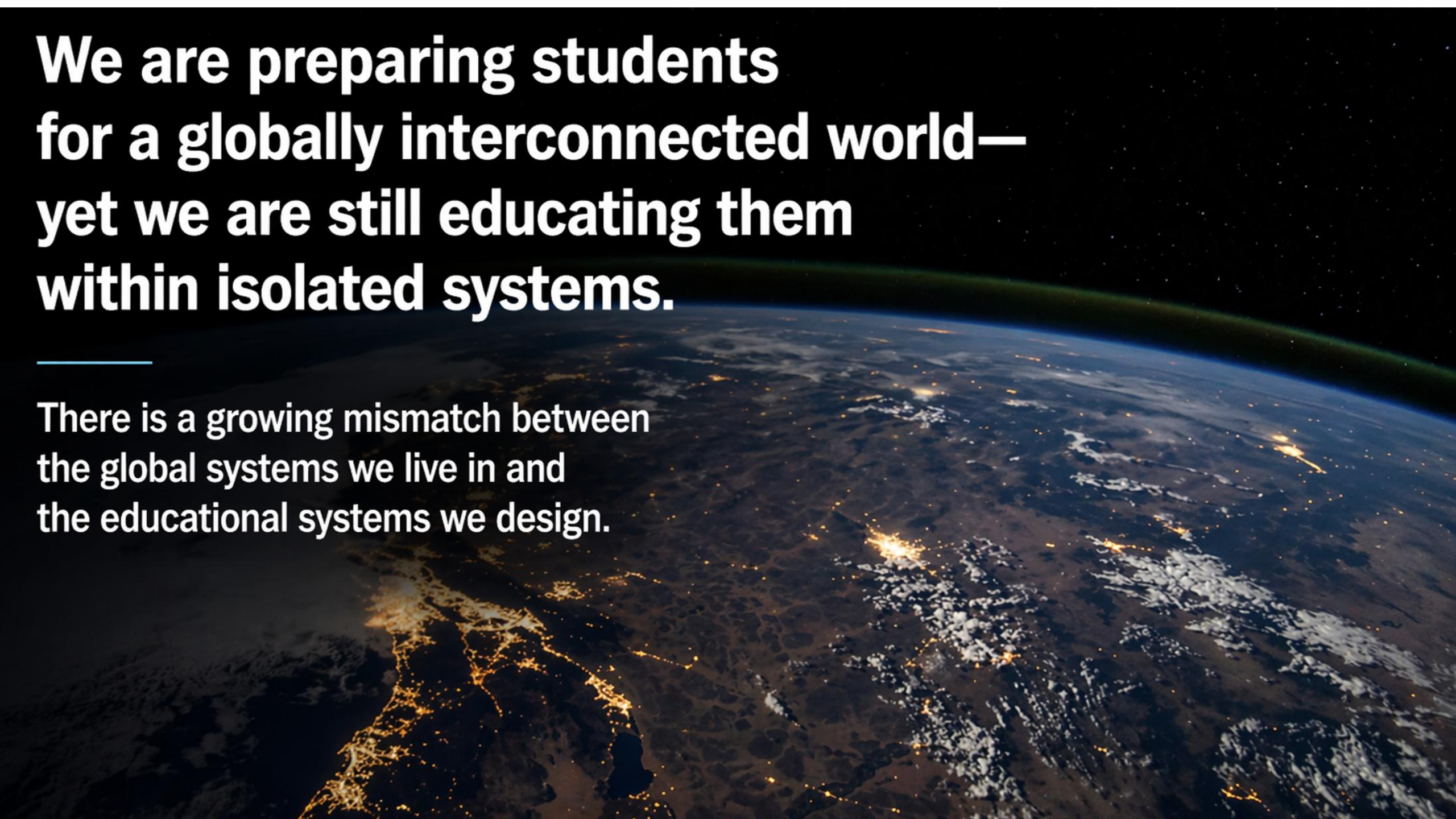
Global-native students

Already living, learning and
connecting in a global system.



**We are preparing students
for a globally interconnected world—
yet we are still educating them
within isolated systems.**

There is a growing mismatch between
the global systems we live in and
the educational systems we design.



The Disconnect



A globally connected world
but largely local educational
models



Collaboration is essential
but rarely practiced in classrooms



Students live globally
but learn in silos



COIL in the Age of AI

**AI is not replacing
collaboration—
it is amplifying it**



Real-time global interaction



Shared data and insight



New forms of co-creation



What this means for COIL?



COIL prepares students for real-world systems
Developing global competence and workforce readiness



COIL enables global collaboration at scale
Across institutions, cultures, and disciplines



COIL supports science diplomacy in practice
Building trust, communication, and shared understanding



COIL belongs in the core curriculum
Starting early - from elementary through higher educations



A Changing World



Interconnected systems



Shared global challenges



Accelerating complexity

*The world our students are entering has changed—
faster than our models of collaboration.*

The Boeing Extended Global Supply Chain

783 million parts are procured in one year



737

400
thousand parts



767

3.1
million parts



787

2.3
million parts



777

3
million parts



747-8

6
million parts

\$28 Billion spend • **5,400** factories • **500,000** people



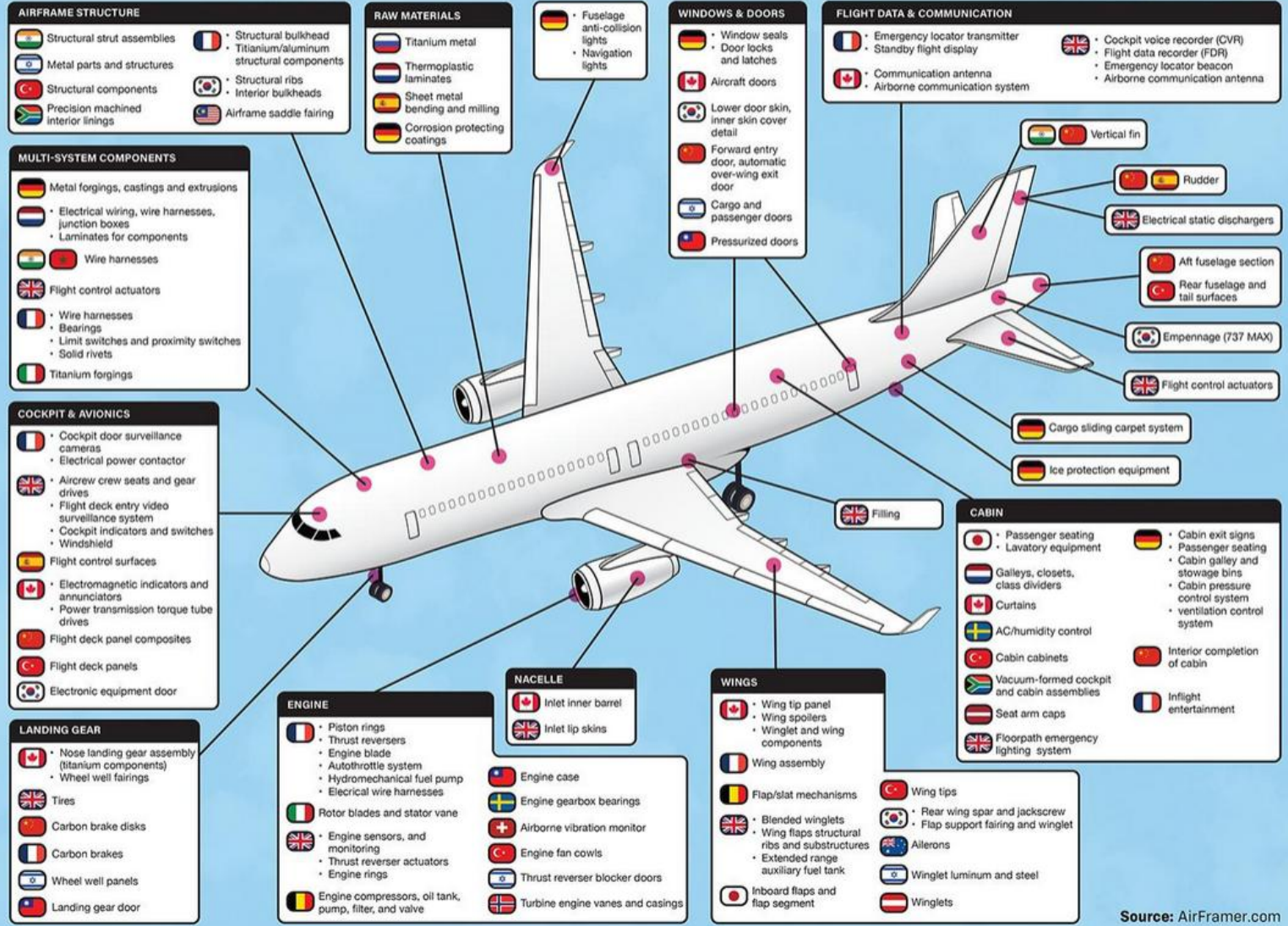
The Boeing 737: **MADE IN AMERICA BUT GLOBALLY SOURCED**

The global supply chain for American aircraft manufacturing is complex, with many parts imported from around the world.

While Boeing airplanes are assembled in the United States, they are built from thousands of components sourced from at least two dozen countries.

From raw materials to passenger seating and flight deck avionics, the entire plane is a global collaboration that relies on international partnerships.

- | | |
|--|---|
| NORTH AMERICA
Canada | AFRICA / MIDDLE EAST
Morocco
South Africa
Türkiye
Israel |
| EUROPE
Austria
Belgium
France
Germany
Italy
Latvia
Netherlands
Norway
Spain
Sweden
Switzerland
UK | ASIA
Russia
India
China
Japan
South Korea
Malaysia |
| | OCEANIA
Australia |



All engine components listed are for CFM56 engines only.
 Diagram does not include design software, tools, handling and testing, installation equipment, technical manuals, measuring and inspection, engineering design services, personnel and training, simulators, technical consulting, paint application, and optional system upgrades.



Global Diplomacy Fellowship Program

GLOBE is a Human-Powered Earth System Observatory, and NASA's Eyes and Ears on the Ground



GLOBE contributes valuable *in situ* environmental observations that bridge data gaps, while preparing a skilled workforce



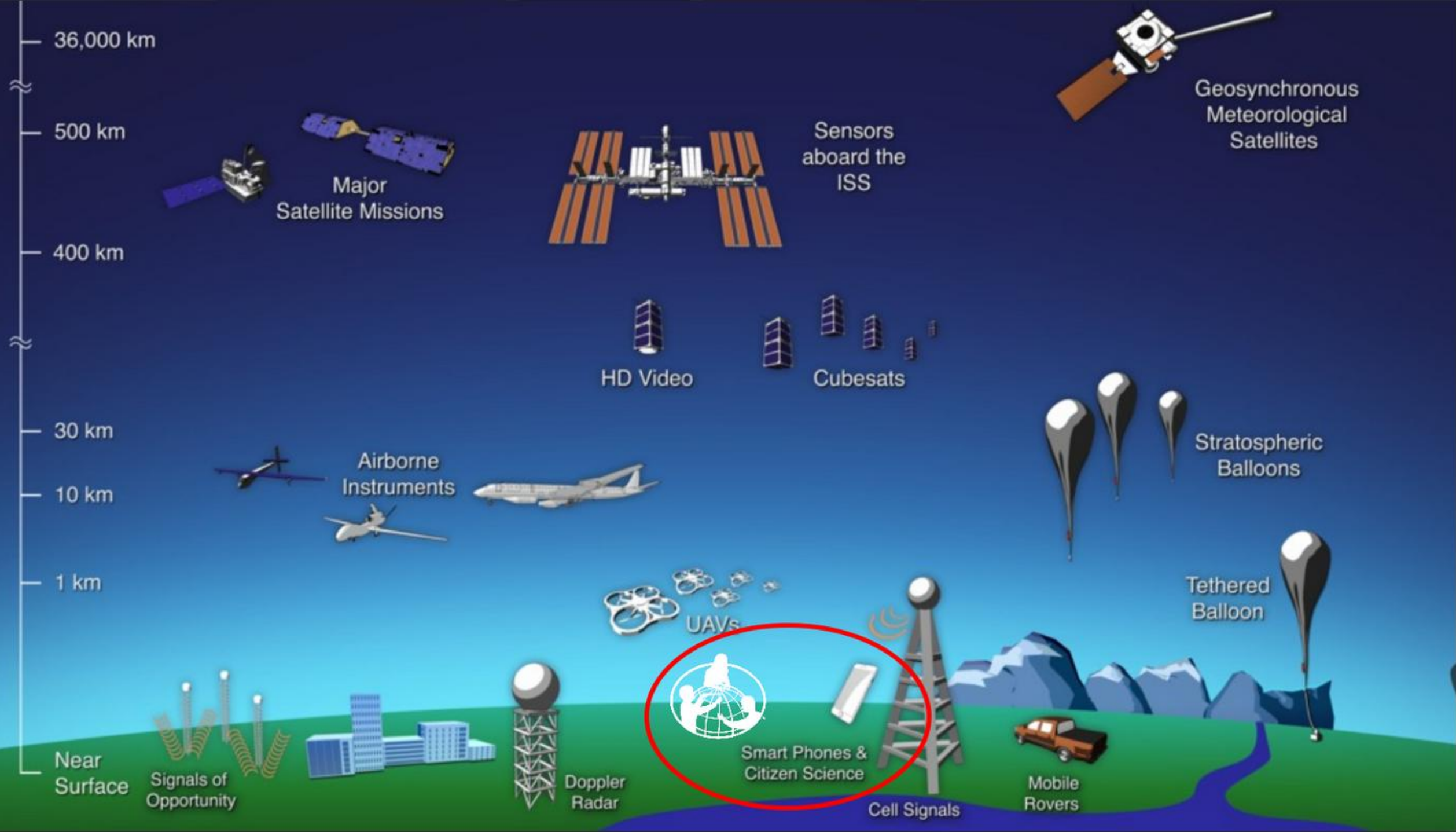
THE GLOBE PROGRAM



The GLOBE Program PARTICIPATING COUNTRIES

-  **AFRICA**
-  **ASIA and PACIFIC**
-  **EUROPE and EURASIA**
-  **LATIN AMERICA and CARIBBEAN**
-  **NEAR EAST and NORTH AFRICA**
-  **NORTH AMERICA**





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Empowering the Next Generation of Citizen Scientists

Unlocking the Power of Data for Everyone, Everywhere .

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A global platform for collaboration,
data, science diplomacy and workforce development

Bridging science, education, and diplomacy through
AI, sensing technologies, and open data

Global Collaboration
Data Democratization
Workforce & AI

NEXTGENGLOBE.ORG

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WHY COIL MATTERS NOW MORE THAN EVER

Because the world already works globally

Students must learn to collaborate across borders,
disciplines, and digital environments

Global workforce • Digital collaboration • Cross-cultural
competence • Interdisciplinary problem-solving

THANK YOU

Thank you for your commitment
to global collaboration, education,
and COIL.



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