

# ISS 25 EXPLORER



Created by

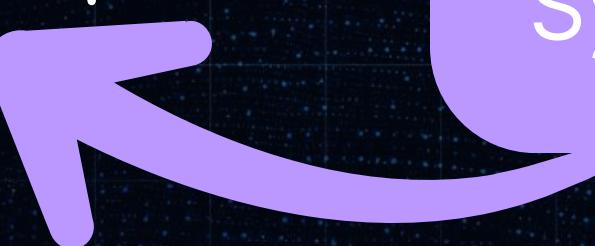
**EXPLORER\_BD**



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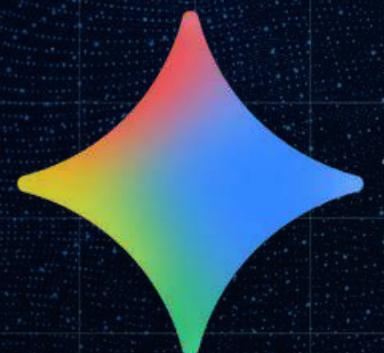
R e s e a r c h e r

# List of AI tool

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Chat-GPT( Deep Research )



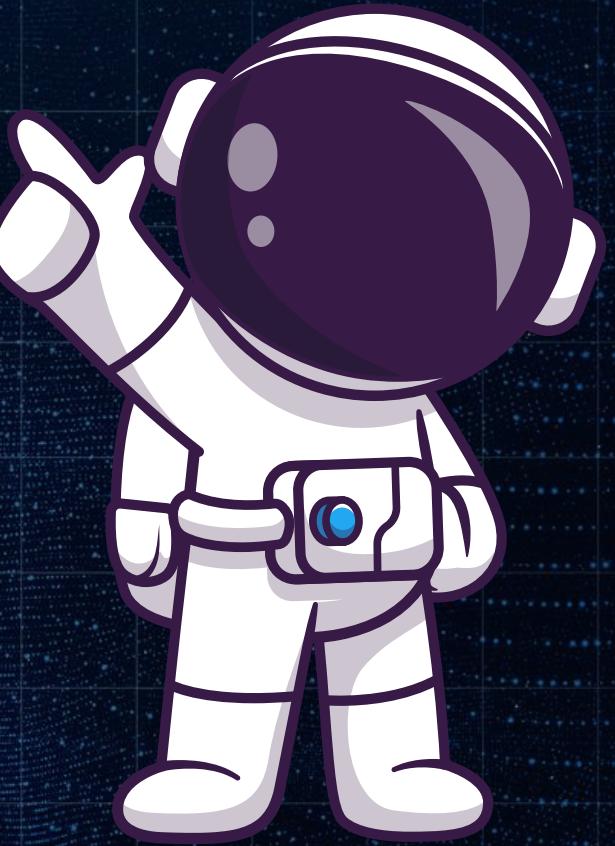
Gemini ( Visuals )



Bolt.new ( Coding )

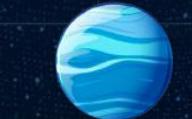
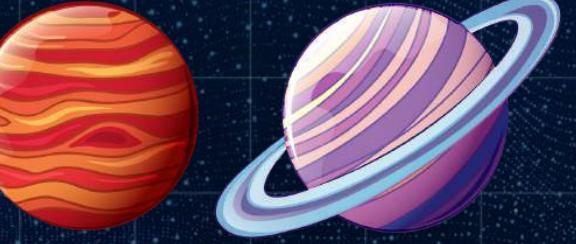
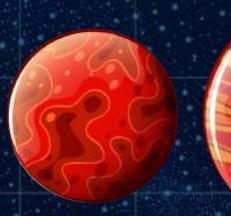
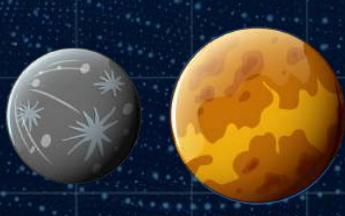
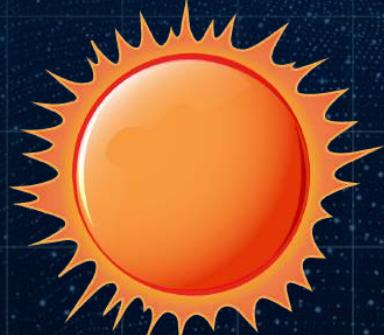


ElevenLabs ( professional narration )



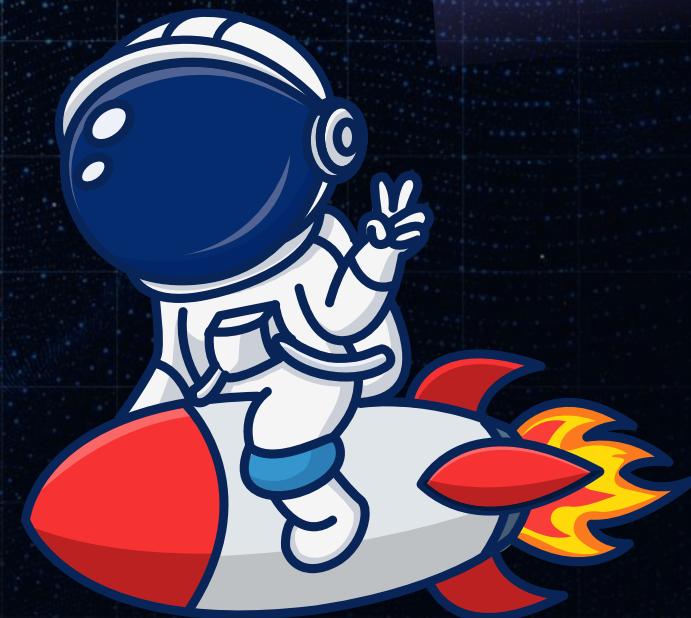
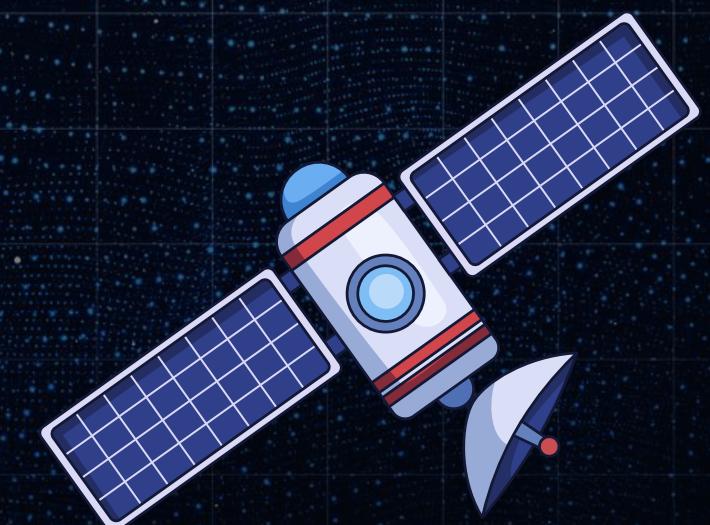
Students and the public struggle  
to imagine what life on the ISS is  
truly like!!

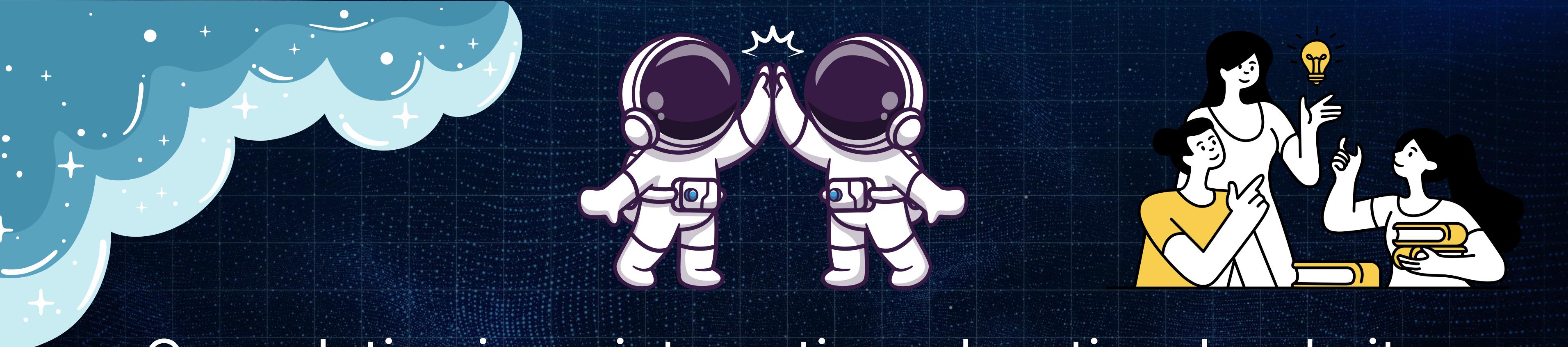




Imagine floating above Earth, continents moving beneath you, or training underwater for hours just to simulate one hour in space.

Astronauts live this, but for most of us, it remains out of reach.





Our solution is an interactive educational website  
that transforms astronaut perspectives into  
immersive learning.



<http://> ↗



# Project Brief

# ★ Features ★

Learn About the ISS

Education Hub

Space Gallery

Cupola

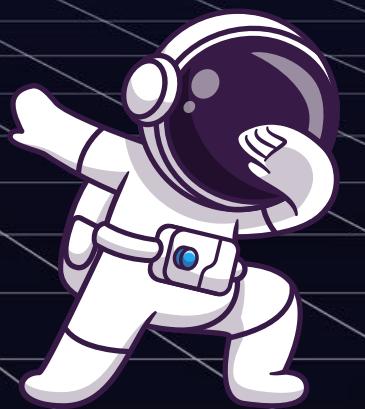
NLB

Physics Modules

Gaming Zone

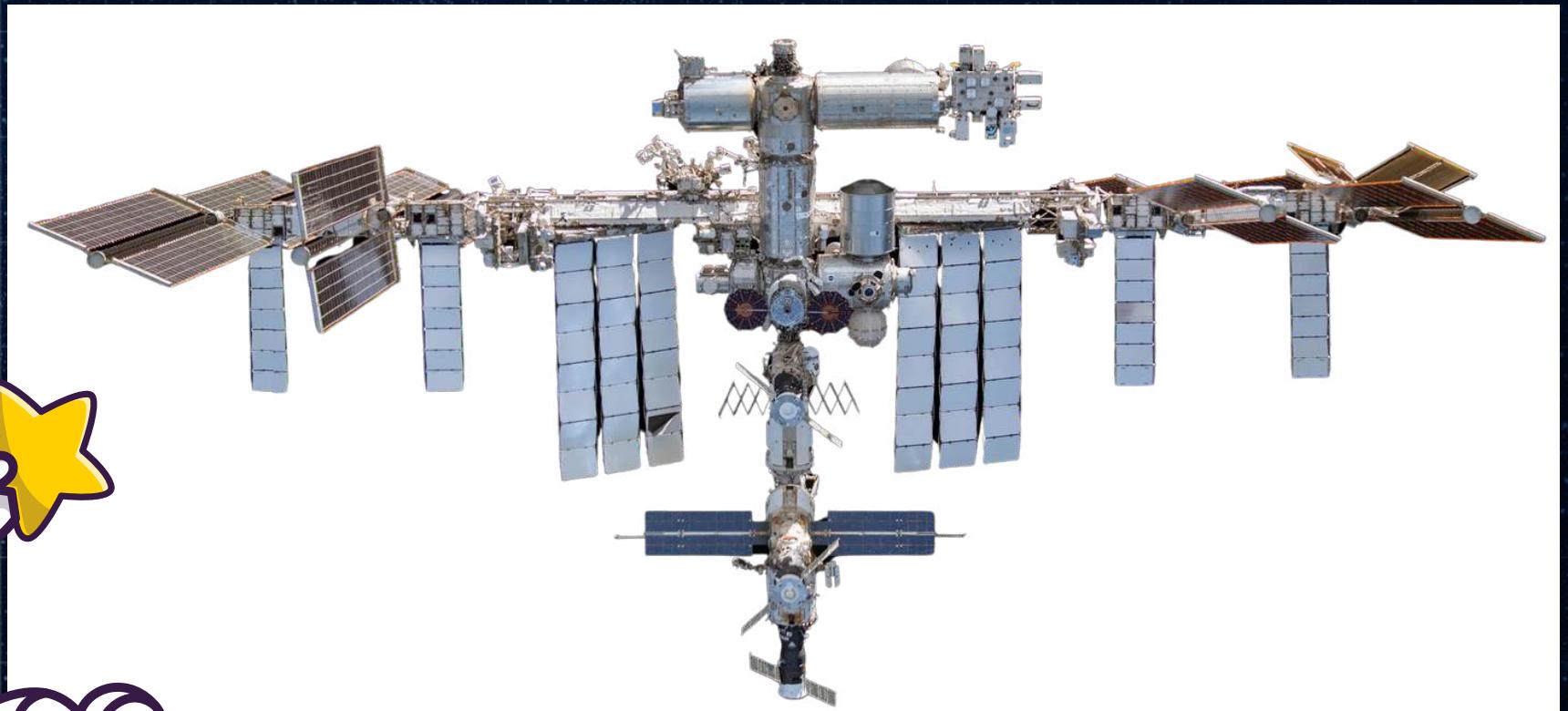
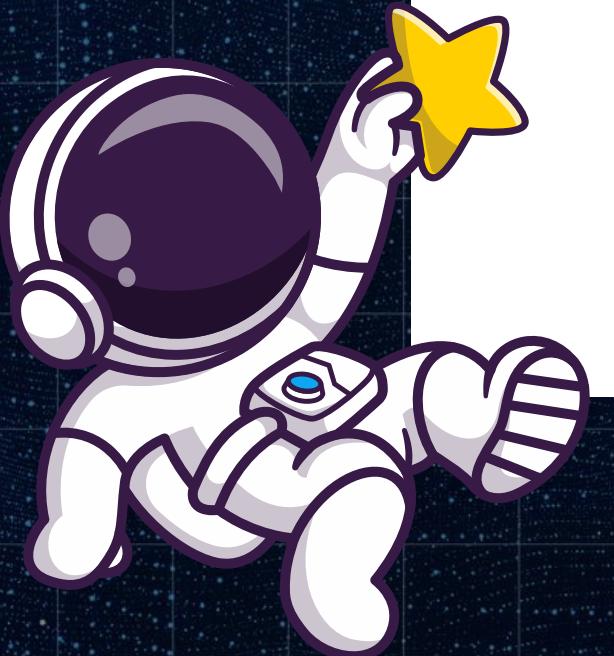
Community

AI Assistant



# Learn About the ISS

- Overview
- ISS Live Stream
- History
- Science
- Life in Space
- Future

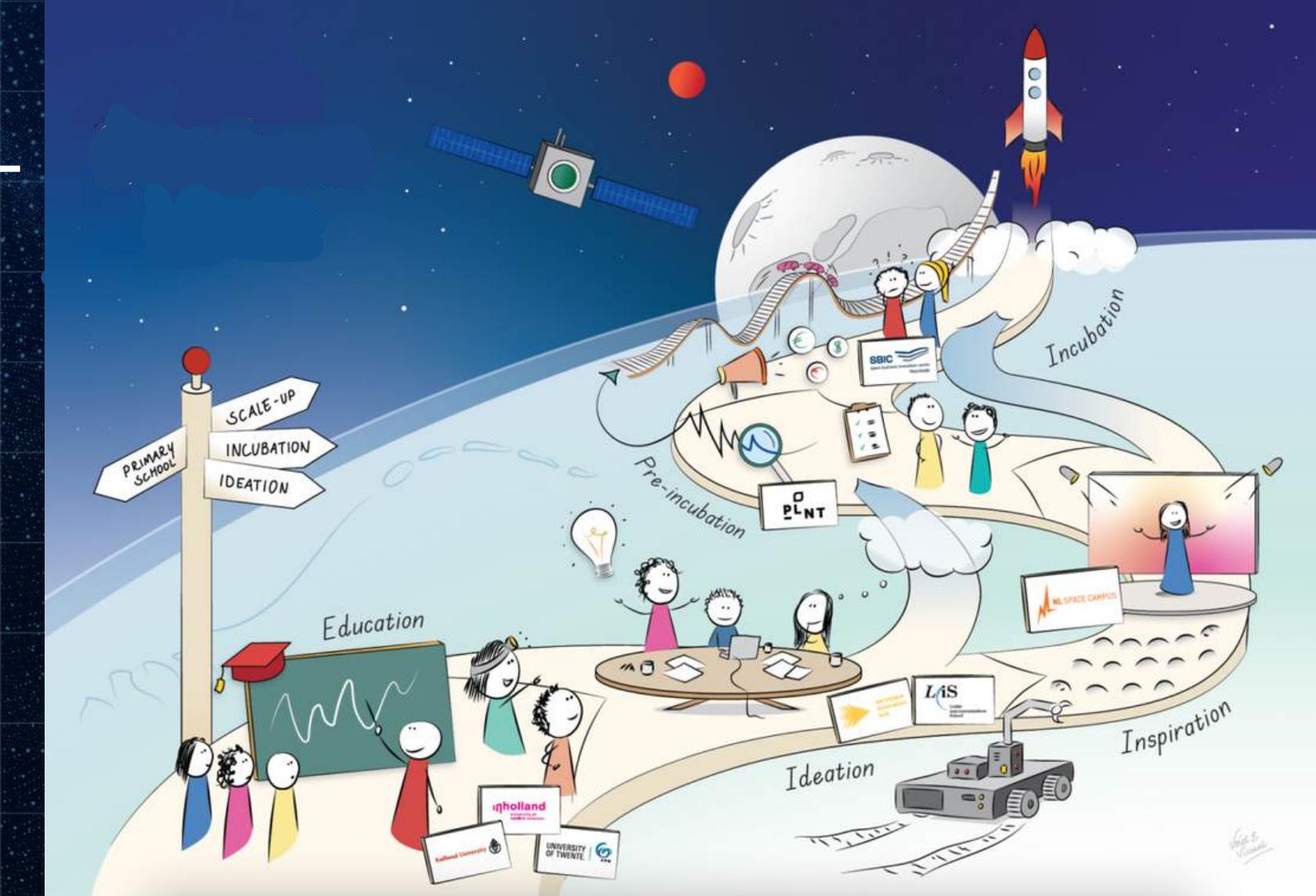


link: <https://www.nasa.gov/international-space-station/>

Discover the incredible story of humanity's greatest achievement in space - the International Space Station.  
From concept to reality: The incredible journey of building humanity's home in space (25 Years of ISS History)  
Over 3,000 experiments conducted, advancing human knowledge and technology (Scientific Research on the ISS)  
Discover how astronauts live, work, and thrive in the unique environment of space (Life Aboard the ISS)  
Looking ahead: The next chapter of human space exploration (Future of the ISS)

# Education Hub

- Interactive Lessons
- 25 Years Timeline
- Astronaut Interview
- Resources

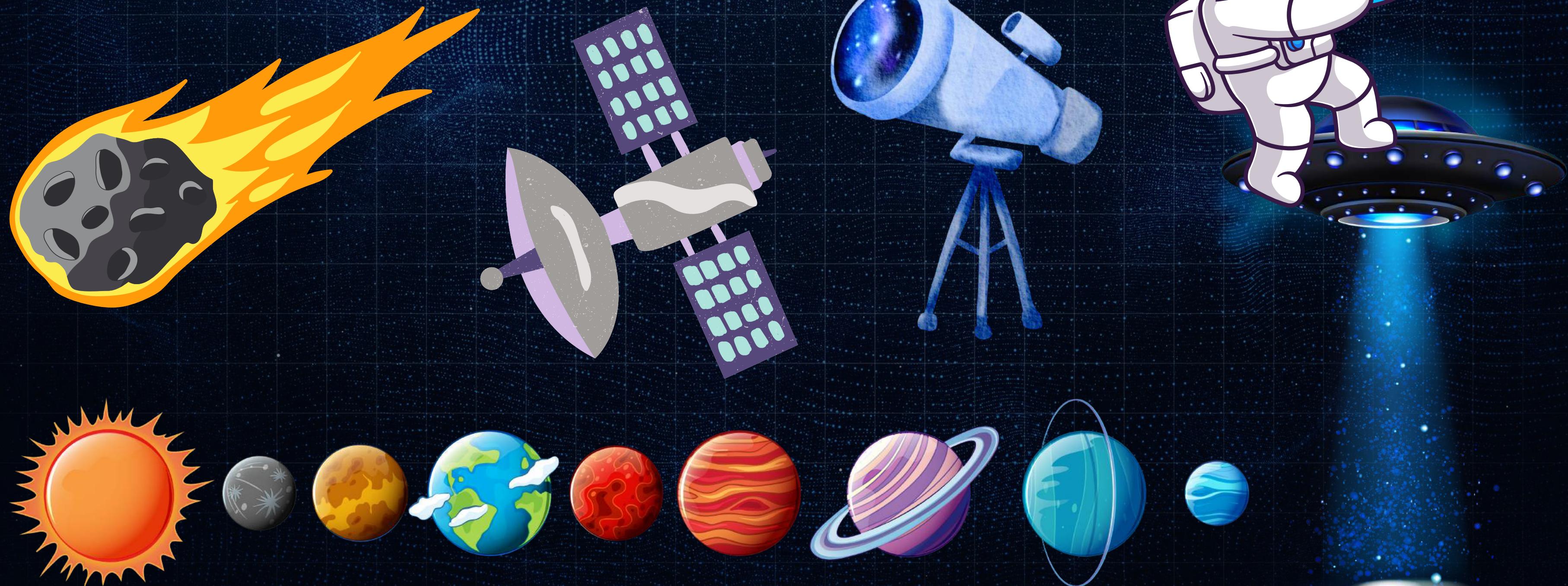


link: <https://www.nlspacetcampus.eu/wp-content/uploads/2024/03/osh3-1536x1082.png>

Discover the wonders of the International Space Station through interactive lessons, historical timelines, and exclusive astronaut interviews  
Journey through the major milestones of the International Space Station  
Learn from the experiences of real astronauts who lived and worked on the ISS  
Official NASA resources for deep learning and exploration

# Space Gallery

Explore 56+ stunning images from NASA showcasing the beauty of space exploration and the International Space Station



# Cupola

- Cupola Observatory
- Orbital Simulation
- ISS Tracker
- Space Missions
- Earth Changes
- VR/360° Cupola Experience

## Demo (but functional)

If we want to have a real-time Cupola experience, we need high-quality technologies.



-  1. Live Data & Imaging Technology
  - NASA Earth Observation APIs (for real-time Earth imagery)
  - ISS Live Stream Feeds (to show the actual Earth view from Cupola)
  - Satellite Data Integration (to track ISS position and show correct Earth region)

-  2. Real-Time Processing & Networking
  - High-speed cloud servers (e.g., AWS, Google Cloud, Azure)
  - Low-latency data streaming (WebRTC, RTSP)
  - Real-time telemetry APIs (for ISS location, orbit path, etc.)

-  3. Immersive Visualization
  - 3D Rendering Engines (like Unity or Unreal Engine)
  - WebGL / Three.js (for interactive 3D experience on browsers)
  - Virtual Reality (VR) Headsets (for immersive Cupola view)
  - Augmented Reality (AR) tools (to overlay ISS data or constellations)

# Neutral Buoyancy Lab (NLB)

- Mission Control
- Astronaut Setup
- NLB Training
- Knowledge Base
- Mission Log

## Demo (but functional)

If we want to have a real-time Cupola experience, we need high-quality technologies.

⚙ 1. 3D Simulation & Physics Engines:

- Unity / Unreal Engine
- Fluid dynamics simulation
- Motion physics systems

💻 2. Real-Time Visualization:

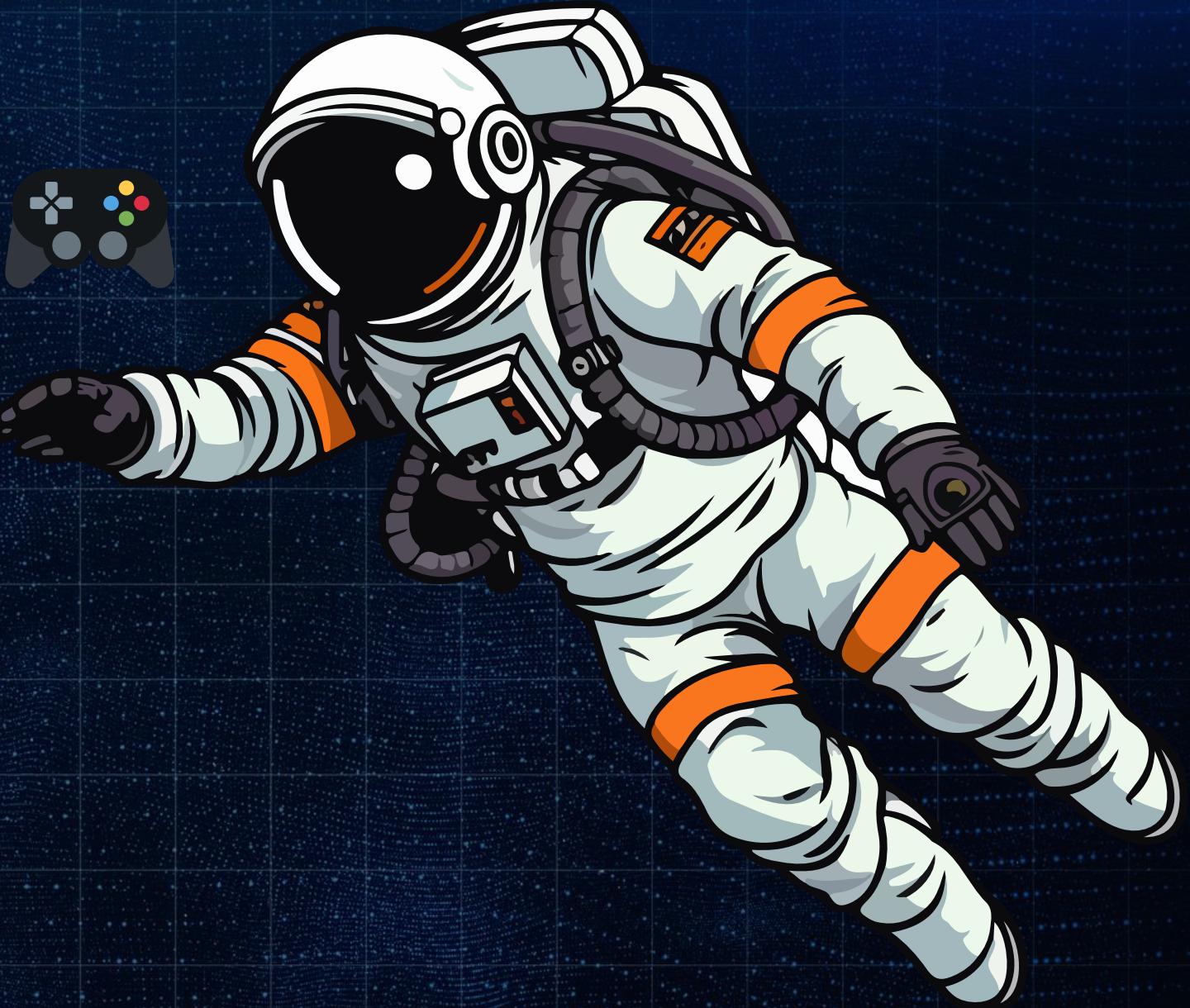
- WebGL / Three.js
- High-resolution 360° cameras
- Photogrammetry / LiDAR scanning

‣ 3. Immersive Experience (VR/AR/MR):

- Virtual Reality (VR) headsets (like Oculus Quest, HTC Vive)
- Augmented Reality (AR)
- Mixed Reality (MR)
- Photogrammetry / LiDAR scanning



# Space Gaming Zone



- Space Snake
- 3D Space Shooter
- ISS Docking Simulator
- Space Memory

Challenge yourself with space-themed games that teach real space science concepts.

“Engage in space-themed games designed to teach authentic space science concepts through play.”

“Turn curiosity into discovery — play, explore, and learn real space science through exciting space-themed games!”



#Play. Learn. Explore. Space made fun



# Global Space Community

- Community Feed
- NASA Challenges
- NASA Event
- LeaderBoard



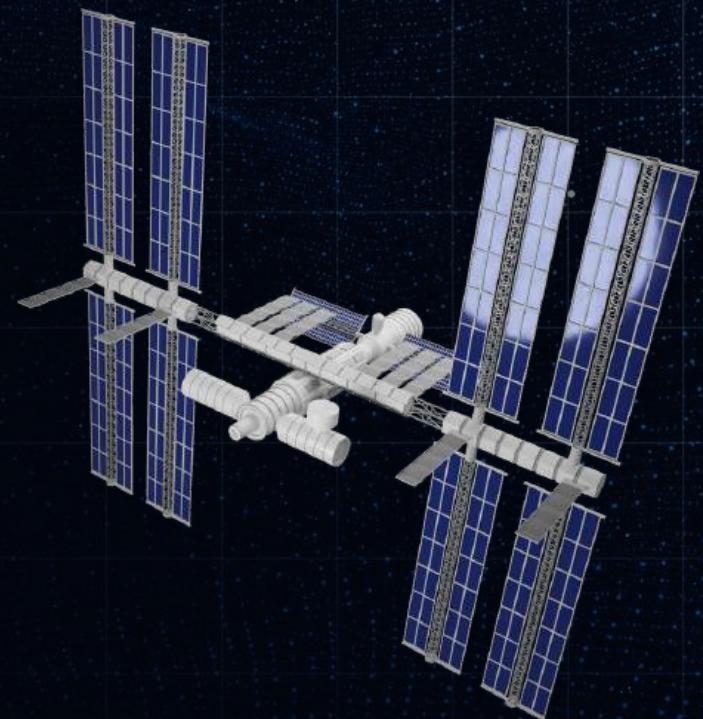
link: <https://limacharlienews.com/space/the-space-foundation/>



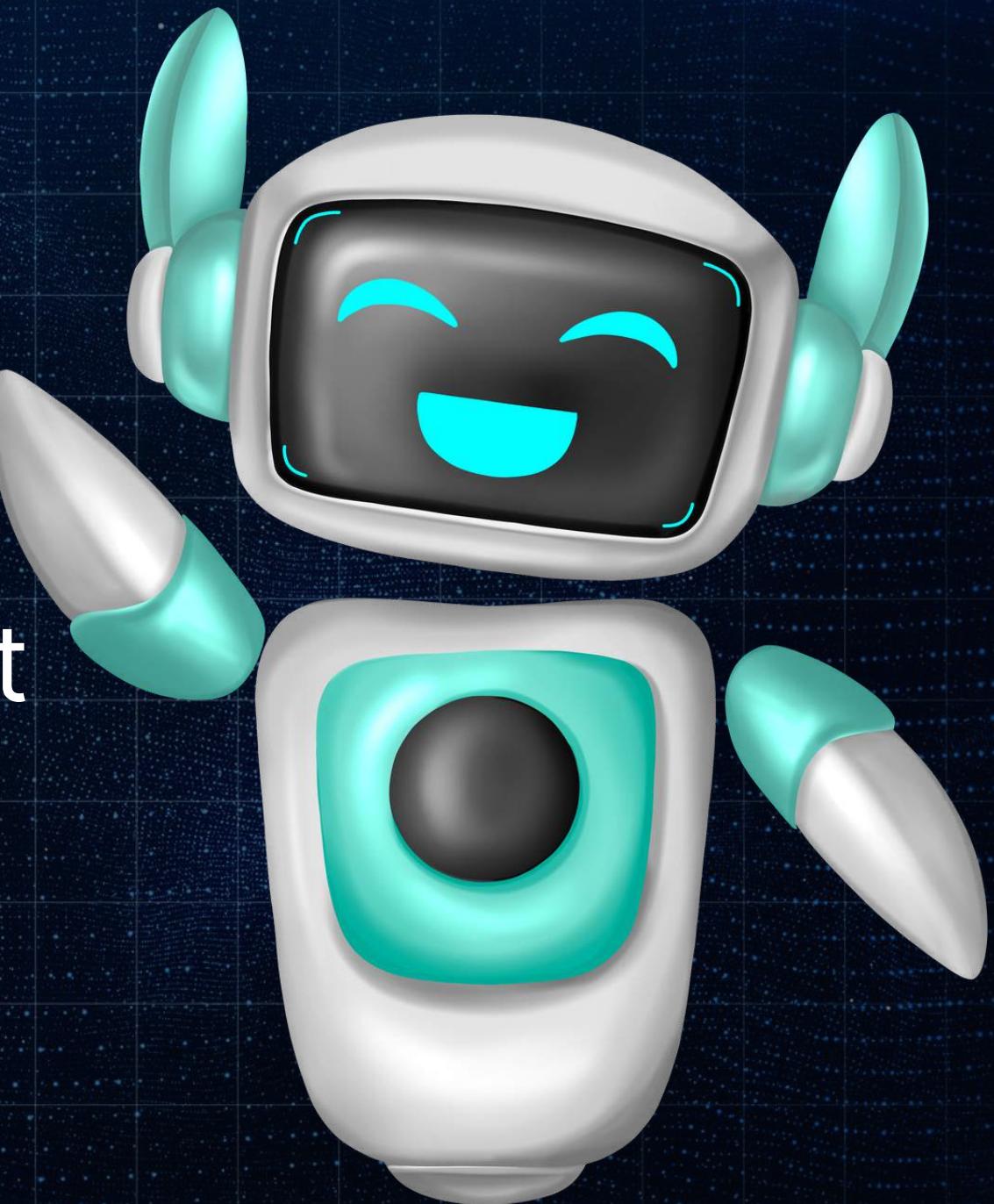
Connect with space enthusiasts worldwide, participate in NASA-based challenges, and share your passion for space exploration.

# AI Space Assistant

Your intelligent companion for space exploration knowledge. Ask this AI Assistant anything about the ISS, NASA, astronauts, and space science!



NASA



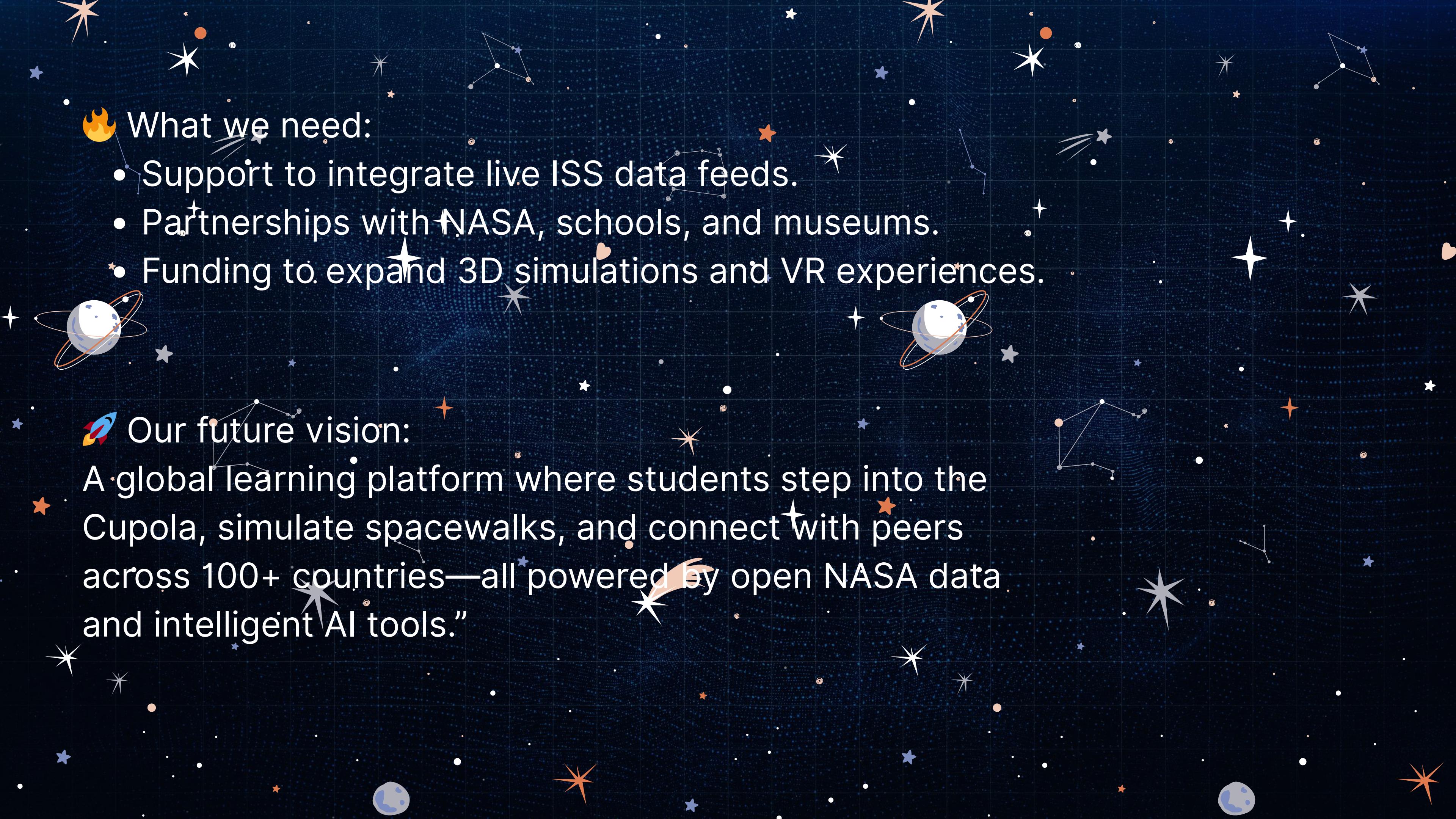
Our impact?

🌐 STEM Education Revolution: Making space science hands-on for millions.

🚀 Inspiration: Empowering future astronauts, scientists, and innovators.

⚡️ Equity in Access: Any student, anywhere, can explore the ISS through just a browser.





## • What we need:

- Support to integrate live ISS data feeds.
- Partnerships with NASA, schools, and museums.
- Funding to expand 3D simulations and VR experiences.

## • Our future vision:

A global learning platform where students step into the Cupola, simulate spacewalks, and connect with peers across 100+ countries—all powered by open NASA data and intelligent AI tools.”



Our mission is clear:  
To bring space  
down to Earth.





# Preview (Website)

Link: <https://iss-25-explorer-nasa-ol5u.bolt.host/>

START

Direct to website  
(Iss 25 explorer)

click the button



# THANK YOU

See You Next Time



<https://iss-25-explorer-nasa-ol5u.bolt.host/>

