



# Imagine Our Connected Earth

P R E S E N T A T I O N

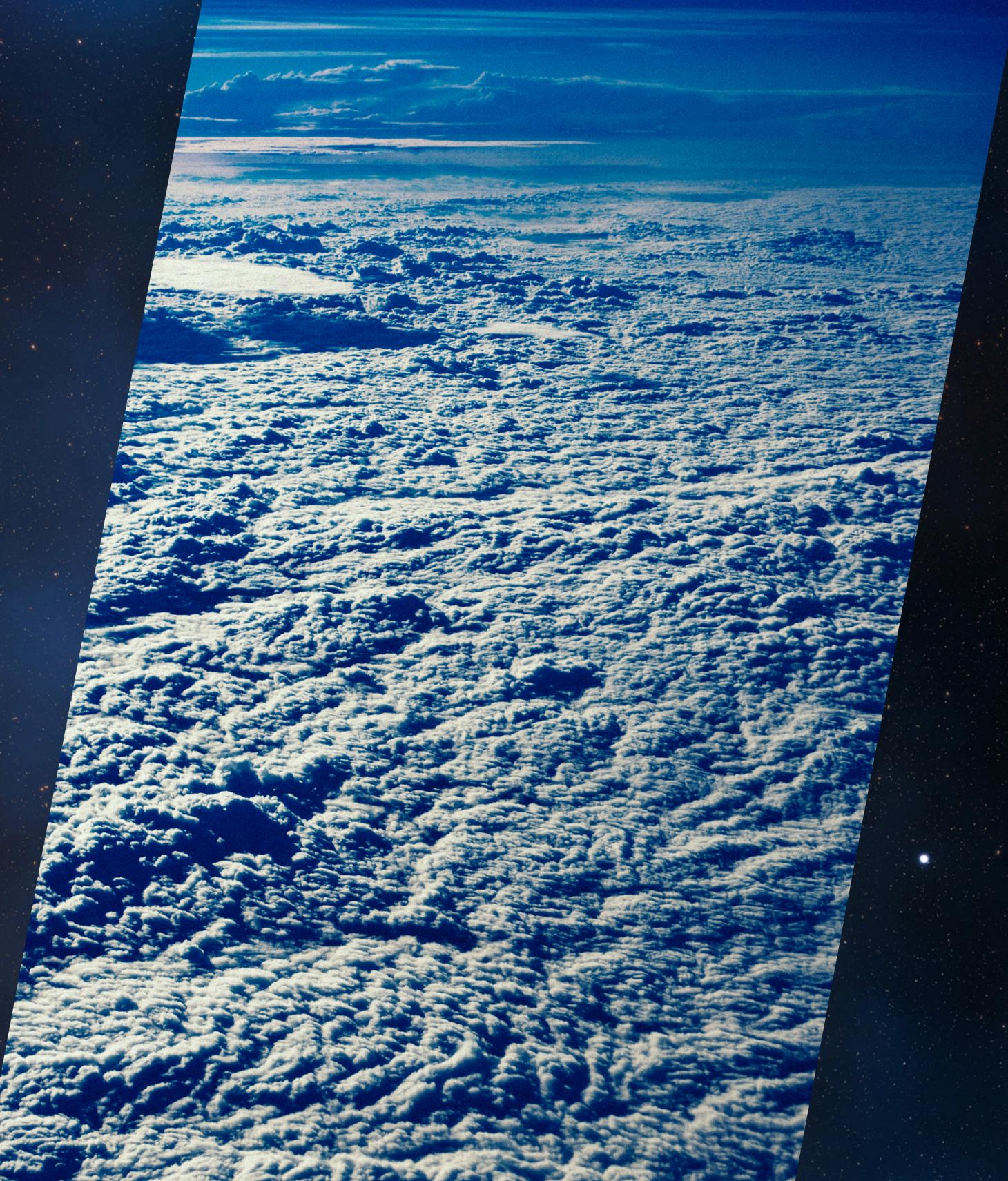
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# UNDERSTANDING EARTH SYSTEM INTERCONNECTEDNESS CHALLENGE

**Complex Interaction :**Earth's systems are intricately connected, yet traditional data visualization tools fail to effectively demonstrate these complex interdependencies and relationships.

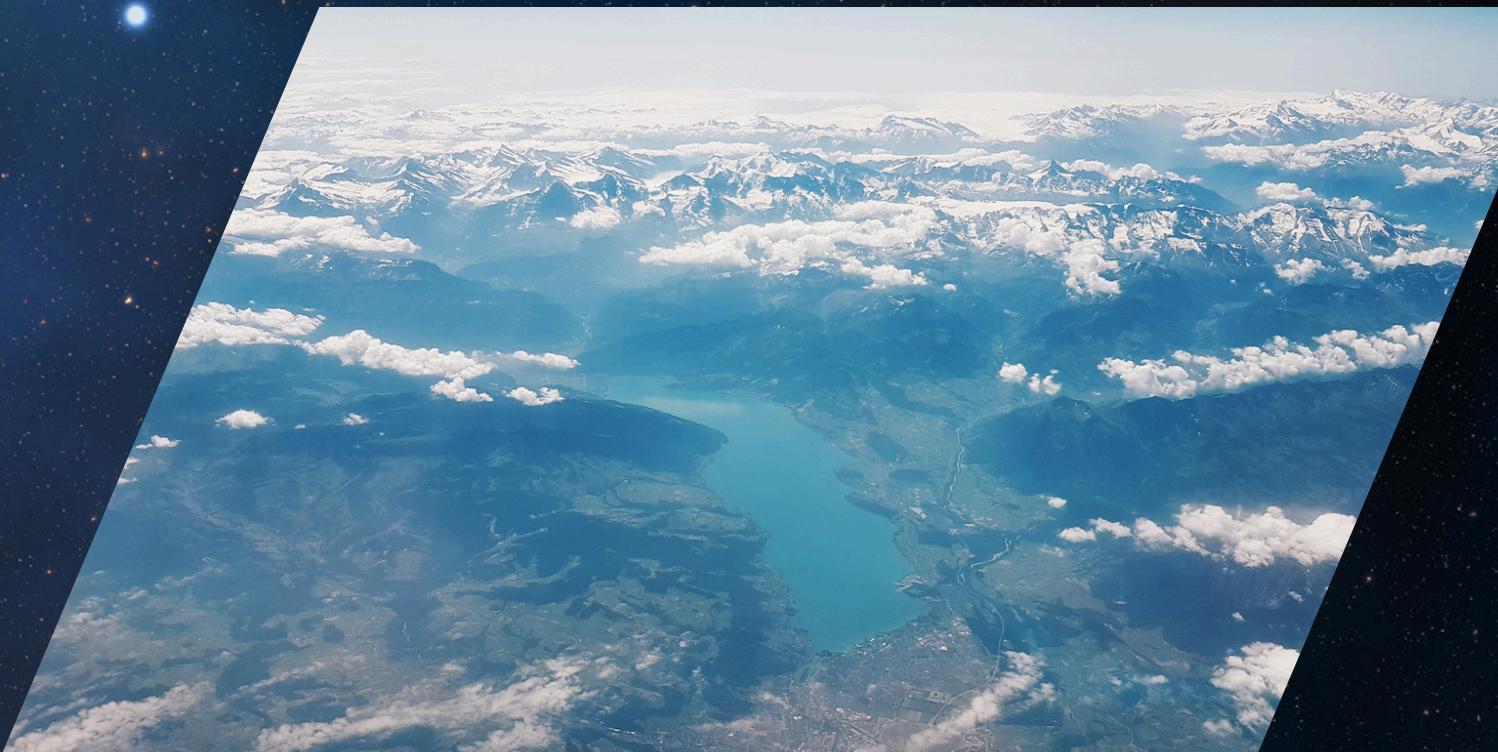
**Data Accessibility:**NASA's vast Earth observation datasets remain underutilized due to barriers in accessibility and visualization tools.

A large, semi-transparent rectangular overlay on the left side of the slide shows a photograph taken from space, looking down at Earth's atmosphere. The image is dominated by various shades of blue and white, representing different cloud formations and atmospheric layers against the dark void of space.

# PLATFORM OVERVIEW

Our innovative web platform leverages HTML5, CSS3, JavaScript, and Leaflet mapping library to create immersive visualizations of NASA Earth observation data, enabling users to explore real-time planetary system interactions and understand environmental interconnectedness through interactive digital experiences.

# TECHNOLOGY USED



- HTML
- CSS
- JS
- LEAFLET JS
- NASA API

# NASA DATA INTEGRATION

- APIs for Dynamic Data: Use NASA APIs (e.g., Earthdata, GIBS) to fetch up-to-date environmental information for interactive visualizations.
- Geospatial Mapping: Overlay datasets on interactive maps using Leaflet to visualize spatial relationships between Earth systems.
- NASA Satellite Data: Incorporate real-time and historical datasets on Earth systems, such as climate, vegetation, water resources, air quality, and wildfires.

# KEY FEATURES

- Interactive Web Maps: Visualize Earth system data using Leaflet, with zoom, pan, and layer controls.
- User-driven Interaction: Select locations, timeframes, and data layers to create personalized insights.
- Real-time & Historical Data: Integrate NASA satellite datasets and APIs to show current and past conditions.



THANK  
YOU