

# **NSF EarthCube Initiative: DESC**

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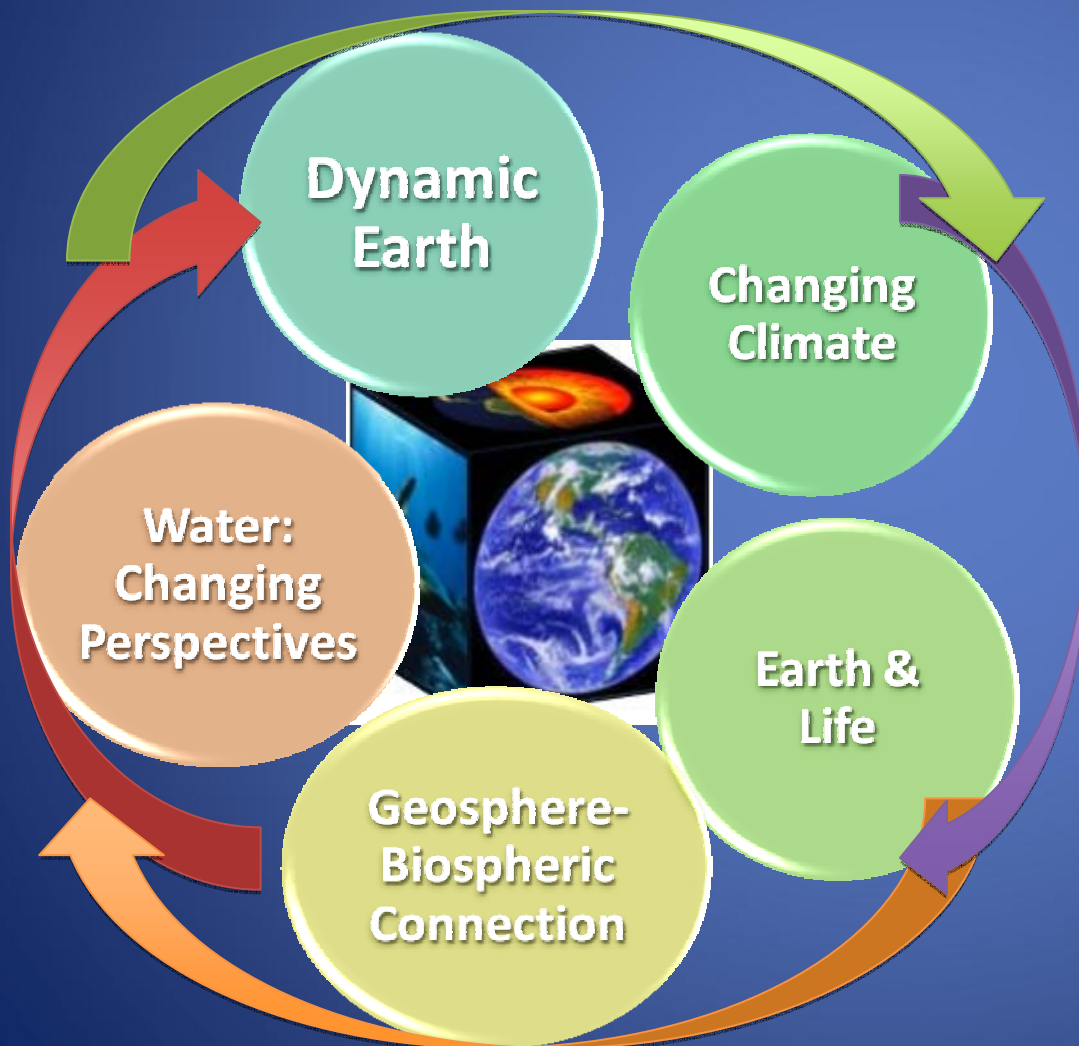
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**National Science Foundation**

**Directorate for Geosciences**



# What Is EarthCube?



- **Transform the conduct of data-enabled geoscience-related research.**
- **Create effective community-driven cyberinfrastructure.**
- **Allow global data discovery and knowledge management.**
- **Achieve interoperability and data integration across disciplines.**

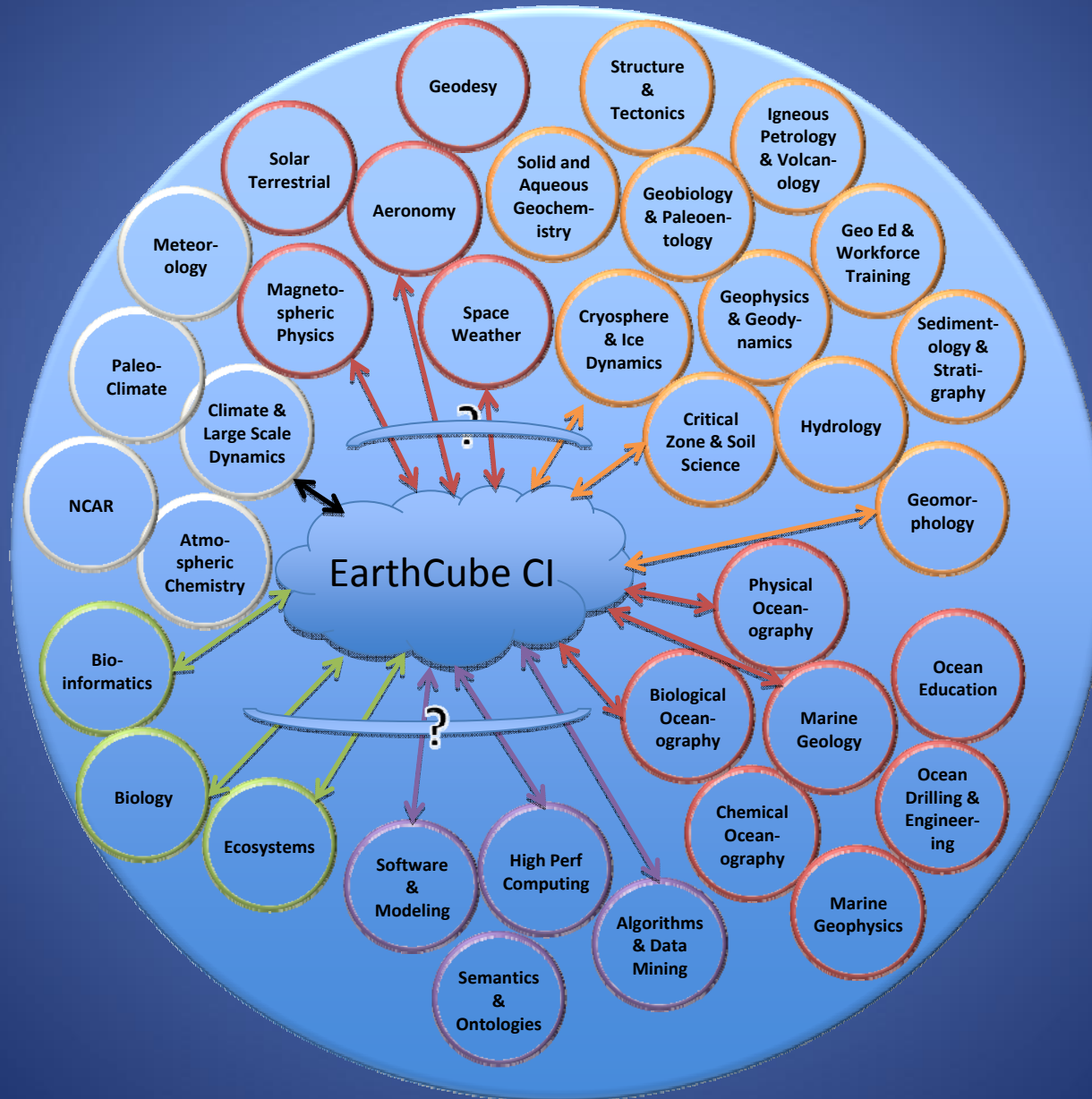


# Why EarthCube?

- Nature does not recognize separate disciplines.
- EarthCube will democratize access to data.
- EarthCube will increase research time by reducing time needed to find, access, and analyze data.
- EarthCube will enable more interdisciplinary research and the pursuit of new questions.
- EarthCube will accelerate the pace of discovery.
- EarthCube will give all scientists the same chance of making major contributions regardless of institution size or institutional endowment.



# Who Is EarthCube? You Are!







# It's All About the Connections

## The EarthCube Vision



You have the power to shape what EarthCube will become, if you engage in the process.



# Blue Skying the EarthCube Future

## Imagine:

- A world without laptops and WiFi - 22 yrs ago
- A world without cell phones – 20 yrs ago
- A world without digital cameras - 11 yrs ago
- A world without GPS - 8 yrs ago
- A world without iPhones - 5 yrs ago
- A world without iPads – 2.5 yrs ago

**Think of how much you depend on these tools!**

## Imagine:

- What would your life/science be without them?
- What the next advance will make possible!



# Blue Skying the EarthCube Future

## Now:

- Imagine a world with easy, unlimited access to scientific data from any field.
- Imagine a world where you can easily plot data of interest and display it any way you want.
- Imagine a world where you can easily model your results and explore any ideas you have.

**What science would you do?**

**What discoveries would you make?**

