

# Belmont Forum

## E-INFRASTRUCTURES & DATA MANAGEMENT

Collaborative Research Action

### Future Earth

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Scoping Workshop

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# PROJECT DESCRIPTION

“Future Earth” is a Global Environmental Change research platform with the aim of providing knowledge and support to accelerate transformations to a sustainable world.

- Dynamic Planet,
- Global Sustainable
- Development and Transformations to Sustainability



Global Mountain Biodiversity



Integrated History and  
Future of People on Earth  
(IHOPE)

# PROJECT DESCRIPTION

Current “Future Earth” research activities:

1) *Integrating previous IGBP research programmes into Future Earth*

2) *Launching new initiatives (Knowledge - Action Networks)*



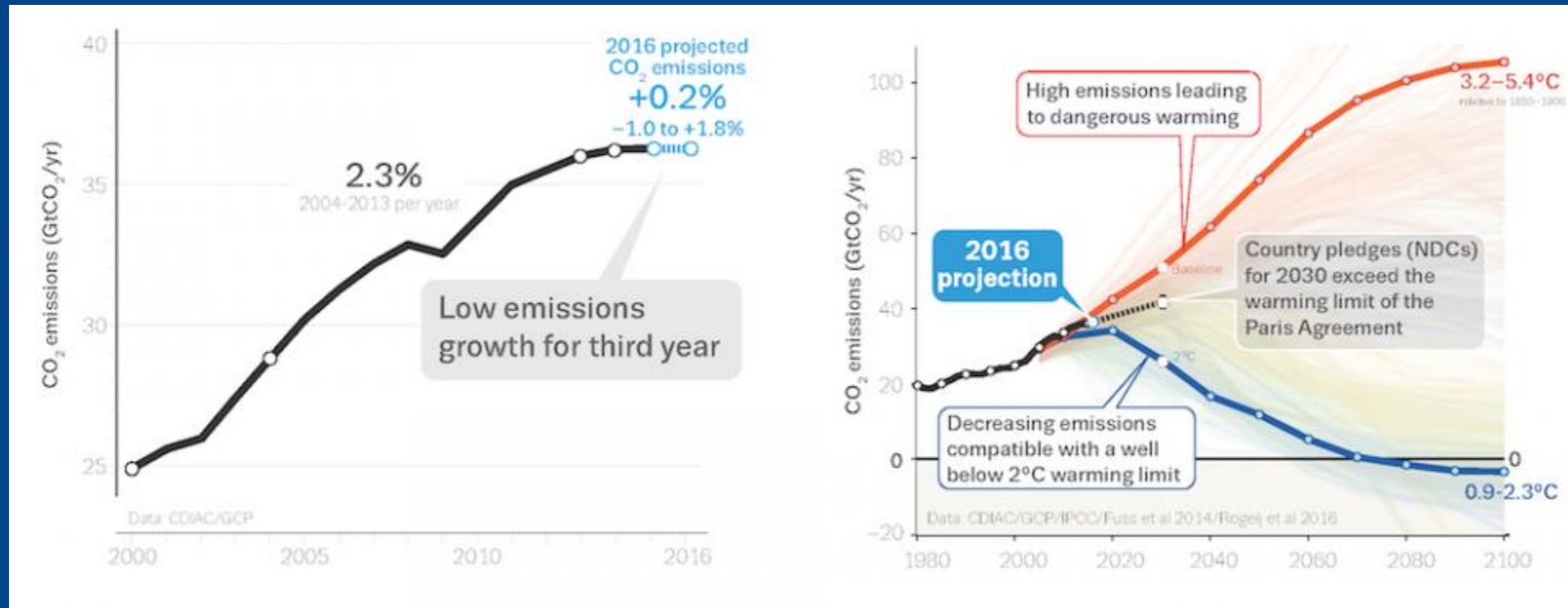
ecoServices



Global Carbon

# GLOBAL CARBON PROJECT

Low growth in global carbon emissions continues for third successive year







# E-INFRASTRUCTURE AND DATA MANAGEMENT ISSUES (CORE PROJECTS)

(1) Data relevant to the research topic are available within various databases and as part of different initiatives, but data platforms differ in their implementation, ontology, meta-data, requirements, output, infrastructure, access policy, legal constraints, audience, etc. Consequently these databases are largely incompatible, exploited by community fragments only, and even redundant.

# E-INFRASTRUCTURE AND DATA MANAGEMENT ISSUES (CORE PROJECTS)

**(2) Need to** incorporate information from other disciplines (e.g., climate, land use, demography, economy, etc.).

Data infrastructures and repositories exist in all of these fields (most of which face identical challenges as under (1))

Accordingly, existing data and data platforms are underuse in view of the potential they represent for inter and transdisciplinary research.



# E-INFRASTRUCTURE AND DATA MANAGEMENT ISSUES (BENEFICIAL FOR ALL CORE PROJECTS)

(3) **Recommendation:** There is a need for an initiative to align existing resources (including access policies, ontology, meta-data, structure, etc.) and connect them in a manner that allows inter- and transdisciplinary research.

# FUTURE EARTH

**Making DATA accesible, understandable and usable to all stakeholders will significantly facilitate the participation of different scientific disciplines and all stakeholders**

**Data as the “glue-ware”**

# FUTURE EARTH

The logo for Future Earth, featuring the word "futureearth" in a lowercase, blue, sans-serif font. The letter "e" in "earth" is stylized with a circular arrow around it, suggesting a cycle or a global perspective. The logo is centered within a white rectangular box.

Selected CORE projects will enormously benefit if “data expertise” is sponsored in order to facilitate the integration of socio-economic data

# EXPECTATIONS FROM E-I&DM CALL

## Reinforce existing international efforts



Group on Earth Observations



Arctic Futures Initiative



# EXPECTATIONS FROM E-I&DM CALL

Research to identify best practices and “data guidelines” for all BF sponsored project(s) and for Future Earth





# EXPECTATIONS FROM E-I&DM CALL

Interdisciplinary data integration is required for the SDGs

Can we undertake research to identify “CORE Datasets” for the SDGs?

What is already available ? What is missing?

