



***e-Infrastructures
and Data
Management***

BELMONT
FORUM

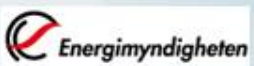
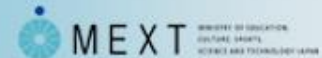


***Added value
of multi-national funding
of inter and transdisciplinary science***



科技部
Ministry of Science and Technology





Research at the nexus of funding, research, and stakeholder interest



Coastal Vulnerability

*Arctic Observing and Science
for Sustainability*



Freshwater Security

Mountains as Sentinels of Change



Food Security and Land Use Change

*Climate Predictability and
Inter-regional Linkages*



Biodiversity and Ecosystem Services

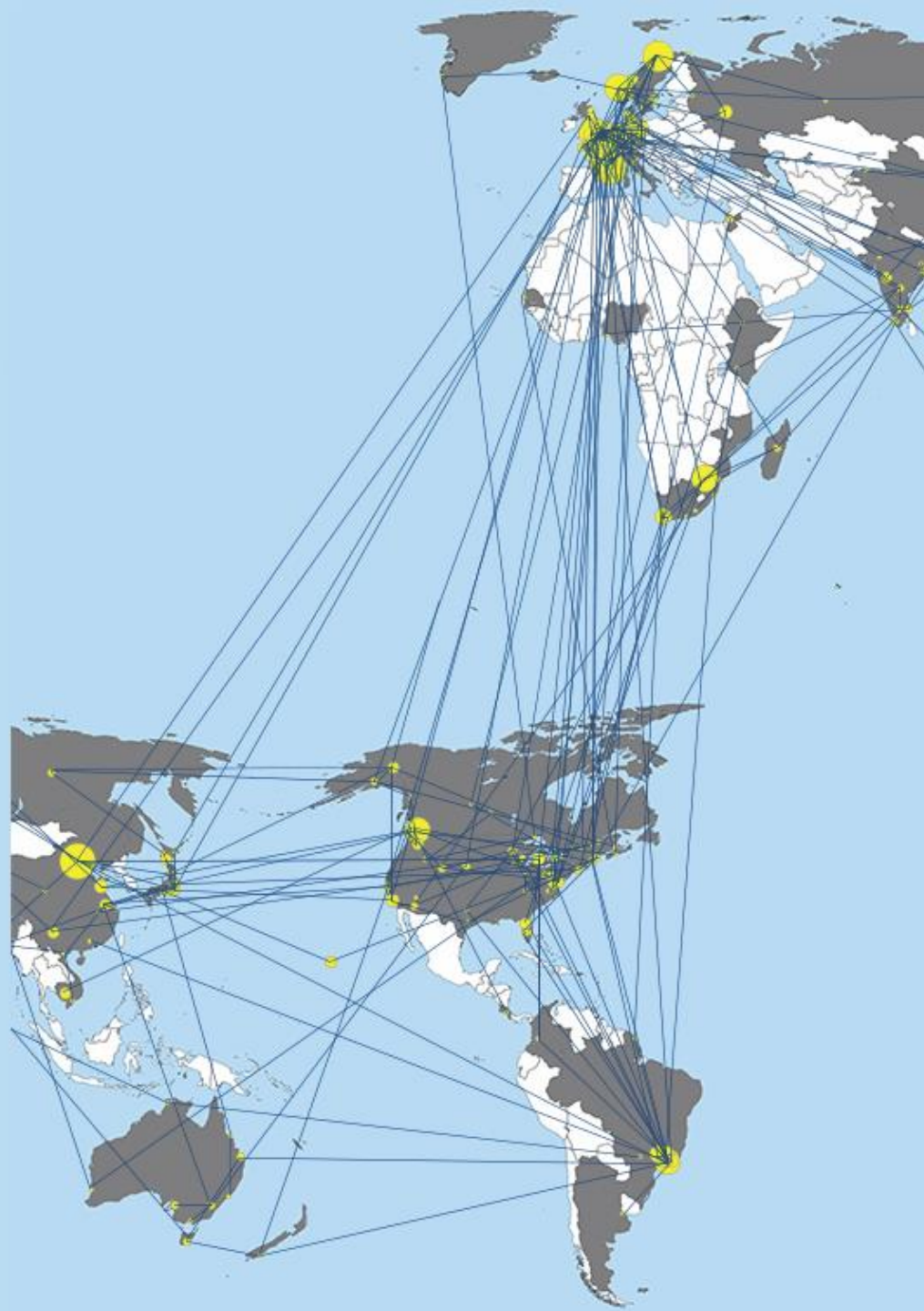
Food-Water-Energy Nexus



Transformations to Sustainability

Building a global transdisciplinary culture

- ▶ Co-advancement of science and society
- ▶ Developing transboundary capacity to address common needs
- ▶ Creating an expectation of transparency
 - Between sectors, including industry
 - In products and communication



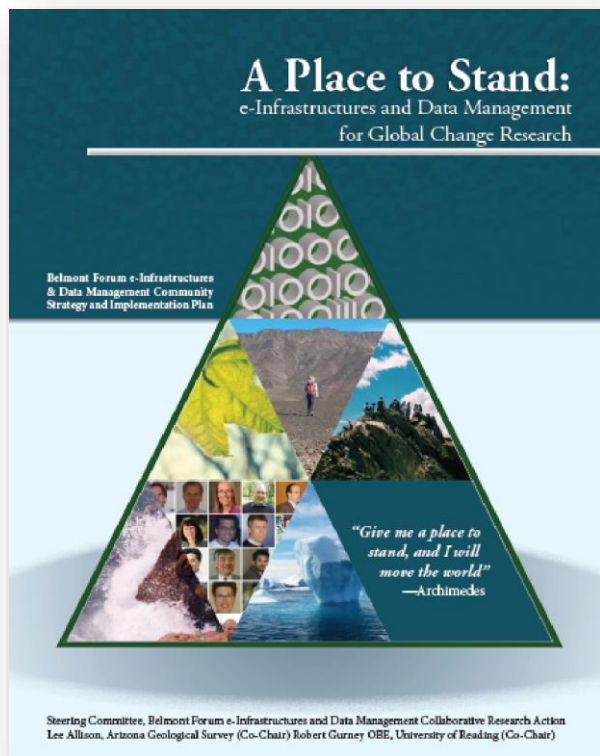
E-INFRASTRUCTURES AND DATA MANAGEMENT CRA

“...the need to address global environmental challenges requires a more coordinated approach to the planning, implementation, and management of data, analytics and e-Infrastructures” through international collaboration.

- Belmont Forum, New Delhi, February
2013



COMMUNITY STRATEGY AND IMPLEMENTATION PLAN



CSIP delivered June 2015

Belmont Forum adopted
Data Principles and Policy
October 2015



BELMONT FORUM DATA POLICY AND PRINCIPLES



Data should be:

Discoverable through catalogues and search engines

Accessible as open data by default, and made available with minimum time delay

Understandable in a way that allows researchers—including those outside the discipline of origin—to use them

Manageable and protected from loss for future use in sustainable, trustworthy repositories

The Belmont Forum and its members will support and promote this data policy and principles with the intent of making these data principles enforceable over time.



BELMONT FORUM DATA POLICY AND PRINCIPLES

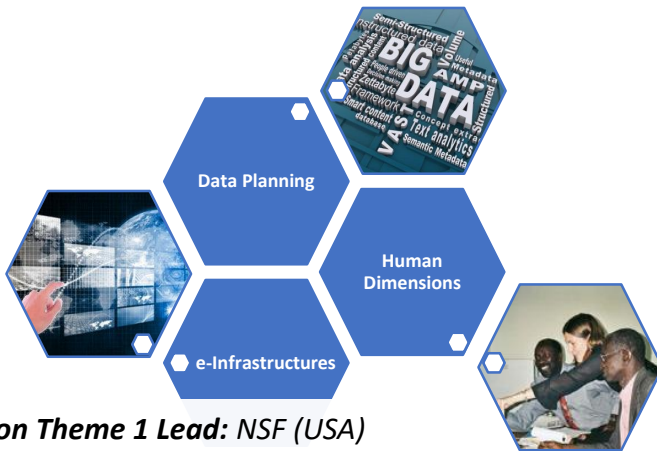


The Belmont Forum adopts this data policy and the following principles to:

- widen access to data and promote its long-term preservation in global change research;
- help improve data management and exploitation;
- coordinate and integrate disparate organizational and technical elements;
- fill critical global e-infrastructure gaps;
- share best practices; and
- foster new data literacy.

PHASE 2: IMPLEMENTATION





Action Theme 1 Lead: NSF (USA)
Co-leads: JST (Japan), MoST (Taiwan)
C3O staff:
 Robert Samors (Coordination Officer)
 Rowena Davis (U of A)
 Tina Lee (current PI) (U of A) P/T
 Scientific co-lead (U of A: vacant)

Current priorities:

- Fostering communication, collaboration, and coordination across the project
- Seeking synergies with GEO, CODATA, ICSU- WDS, OECD, RDA, Association of Commonwealth Universities
- Continuing to map the data and e-infrastructures landscape

- Incorporate Data Management language into call text (October 2016)
- Establish process for review and monitoring data management plans (GEO/CODATA/RDA/WDS/Exemplars) (Spring 2017)
- Summarize data policies of all BF funders (Summer 2017)
- Establish Security Advisory Board (RDA) (Spring 2017)
- Establish Data Policy Advisory Board (CODATA/WDS) (Spring 2017)
- Establish Publishing Liaison Board (RDA/CODATA/ICSU/SCMA/COPDESS) (Summer 2017)
- Develop methods for certifying openness (CODATA/WDS) (Autumn 2017)



Action Theme 2 Leads: NSF (USA), JST (Japan), NERC (UK)

Staff:

- Mark Thorley (NERC) P/T
- Carrie Seltzer, Data Information Officer (NSF)



Action Theme 3 Leads: ANR (France), JST (Japan), European Commission, MoST (Taiwan)

Staff:

- Mark Asch (U Picardie, Fr) P/T
- Jean-Pierre Vilotte (IGP, France) P/T

- Conduct workshop on interdisciplinary use-cases re: barriers to open data sharing (Paris, Nov 2016)
- Provide foundation for CRA call (Spring 2017) to show best practice and address problems, with annual evaluation of progress
- Inform metrics and reporting requirements for CRAs (Spring 2017)
- Inform data and e-Infrastructures policy with case-proven best practices (Winter 2017)

- List recommended training activities relevant to data intensive research
- Clarify intended training targets and needs: Survey followed by skills gap analysis, liaise with CODATA/WDS/GEO/RDA, others (February 2017)
- Hold curricula scoping workshop, EGU (April 2017)
- Investigate 'Belmont Certification' (Summer 2017)
- Present finalized curricula and recommendations (Winter 2017)
- Decision at 2017 Meeting of Principals on way forward

**Action Theme 4 Lead:**

NERC UK

Staff:

- Vicky Lucas (IEA, UK)
P/T
- Fiona Murphy (IEA,
UK) P/T



Questions/Comments?