Belmont Forum and the e-Infrastructures & Data Management Project

2018 Plenary Report

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Coordination Officer
A Place to Stand: e-Infrastructures and Data Management for Global Change Research

Belmont Forum e-Infrastructures & Data Management Community Strategy and Implementation Plan

"Give me a place to stand, and I will move the world" — Archimedes

Steering Committee, Belmont Forum e-Infrastructures and Data Management Collaborative Research Action
Lee Allison, Arizona Geological Survey (Co-Chair) Robert Gurney OBE, University of Reading (Co-Chair)

Belmont Forum Plenary approved e-I&DM Project October 2015
Belmont Forum Open Data Policy & Principles October 2015

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 Member Data Policies

Funders with written policies for open data

- Yes: 16
- No: 2
- In development: 2

Funders requiring a Data Management Plan (at any stage)

- Yes: 12
- No: 3
- In development: 1
- Conditionally, based on project: 22
e-I&DM Implementation

Belmont Forum Coordinated Research Actions (CRAS)
Data Planning and Policy

Data and Digital Outputs Management Plan (DDOMP)

- Life cycle of funded project
- Required of all Belmont Forum pre/full proposals and awards
- Continuous process improvement (Revised May 2018)
  - Input from GPCs, grantees, science publishers, data science community

Data Accessibility Statement (DAS)

- Developed in collaboration with science publishers
- Designed to harmonize data access information from beginning to end of project
Science-driven e-Infrastructures Innovation (SEI) CRA

Brazil, Chinese Taipei, France, Japan, United States

▪ 9 eligible proposals received from 5 countries

▪ Panel of Experts (PoE): Robert Gurney (UK), Chair; Lesley Wyborn (AUS), Co-Chair; other members: Netherlands, Japan, Chinese Taipei and United States

▪ Timeline: PoE meeting on November 26; GPC meeting on November 27 - both at ANR in Paris

▪ Proposal topics:
  - Big Data/image curation
  - agro-biodiversity
  - climate change adaptation
  - socio-economic
  - urban
E-Infrastructures

Key SEI CRA features: implementation

- SEI CRA Knowledge Hub
  - Methods, softwares, tools, best practices, data and training gaps

- Selected projects
  - Kick-off workshop
  - Steering projects Workshop
  - Steering projects Workshop
  - Final Workshop

- SEI CRA Task Force
  - 2018
    - CRA TPO
    - Projects’ LPIs
    - e-I&DM (e.g. AT3, AT2, AT4)
    - External experts
  - 2019
    - Key initiatives representatives:
      - RDA related WGs
      - ICS/CODATA
      - GEO/GEOST
      - FutureEarth
      - GoFair & AGU/FAIR
      - Related groups:
        - EC EOSC, ExDCI, BDEC

- Related information:
  - https://bfgo.org/
Capacity Building

Dr. Wade Bishop appointed Capacity Building Lead (July 2018)
Assoc. Professor, School of Information Sciences, Univ. of Tennessee

Priorities
- Prioritize upskilling needs
- Inventory Belmont Forum data skills training resources
- Create toolkit to assist grantees in meeting DDOMP requirements
- Deliver data management workshop for GPCs/grantees

Coordination
- Collaborating with ESIP and CODATA to identify data skills resources
- Integrated transdisciplinary training module - START, ISC, FutureEarth and IAI
Coordination, Communication & Collaboration (C3O)

Maximizing coordination of e-I&DM Action Themes

- GPC/SCG (ANR, JST, MoST, NERC, NSF) bi-weekly teleconferences
- Partnership with Belmont Forum Secretariat
- Consultation with Belmont Forum (Data Liaisons) & grantees

Locus communications, outreach & engagement

- Oversight Committee (CODATA, FE, GEO, ISC, RDA, WDS)
- Integration/collaboration with global data science organizations/initiatives, including:
  - AGU Enabling FAIR Data
  - ESIP Data Management Training Clearinghouse
  - RDA Map of the Landscape, Publishing Standards IG

Website: www.bfe-inf.org
Priorities November 2018-February 2019

- Further integrate DDOMP into emerging CRAs
- Administer SEI CRA; develop SEI CRA Task Force
- Prepare next revision of DDOMP
- Deliver data skills training toolkit and workshop(s)
- Publicize/present online introduction to TD and DDOMP
- Continue collaboration with data science community
- Expand adoption of DAS across funder, publisher and research communities
- Develop metrics/criteria to evaluate DDOMPs & implementation
- Contribute to evaluation of BF Open Data efforts
Post-February 2019: Achieving the Open Data Policy and Principles

To maintain the momentum toward fulfilling the objectives of the Open Data Policy and Principles, and to continue its global leadership in the open data movement, will require the Belmont Forum to continue investing energy and resources to:

- Fully **integrate DDOMP** into CRA process; acculturate data management across Belmont Forum agencies
- Continuously **refine DDOMP** based on “user experience” and evaluation of implementation
- Expand data **skills training** for future CRA proposers and GPCs
- Continue/expand **collaborations** with global open data movement
- Increase focus on **data reuse** to achieve transdisciplinary objectives (i.e., repositories, synthesis centers, science publishers)