National Science Foundation champions research and education across all fields of science and engineering

Biological Sciences

Engineering

Mathematical & Physical Sciences

Computer and Information Science and Engineering

Geosciences

Integrative Activities

Education & Human Resources

Social, Behavioral & Economic Sciences

International Science and Engineering

By supporting...

✓ Fundamental Research
✓ Education and Training
✓ Research Resources
- Instrumentation
- Methods
- Infrastructure
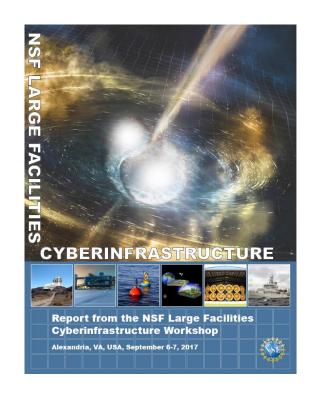 ↳ *Cyberinfrastructure*

Essential to tailor our efforts to the specific needs of each discipline, while promoting transdisciplinary practices

NSF supports cyberinfrastructure to catalyze data- and computation-intensive research

- Recent efforts target the needs of NSF major research infrastructures (e.g. http://www.facilitiesci.org/).

- Ensure a secure, reliable, and trustworthy research infrastructure ecosystem → NSF Cybersecurity Center of Excellence (trustedci.org/).

- Holistic investments in HPC, data infrastructure, workflow systems, and networking are enabling the new sciences such as multi-messenger astrophysics.

NSF LARGE FACILITIES

CYBERINFRASTRUCTURE

Report from the NSF Large Facilities Cyberinfrastructure Workshop
Alexandria, VA, USA, September 6-7, 2017

TRUSTED CI
THE NSF CYBERSECURITY
CENTER OF EXCELLENCE

Dissemination and Sharing of Research Results

- **NSF Public Access** aims to "accelerate the dissemination of fundamental research results that will advance the frontiers of knowledge and help ensure the nation's future prosperity" – F. Cordova
    - NSF online Public Access Repository (par.nsf.gov)
    - US Government-wide: As of Jan 2017, all relevant agencies posted public access plans.

- **NSF Data Sharing Policy.** (Proposal & Award Guide (PAPPG) Chapter XI.D.4). Investigators are expected to share with other researchers, at no more than incremental cost and within a reasonable time, the primary data, samples, physical collections and other supporting materials created or gathered in the course of work under NSF grants. Grantees are expected to encourage and facilitate such sharing.

- **NSF Data Management Plan Requirements.** (PAPPG Chapter II.C.2.j). Proposals must include a supplementary "Data Management Plan" (no more than 2 pages) describing how the proposal will conform to NSF policy on the dissemination and sharing of research results.
    - Program-specific requirements are tailored to disciplinary needs.