



Electronic Government Agency (Public Organization) (EGA)  
สำนักงานรัฐบาลอิเล็กทรอนิกส์ (องค์การมหาชน) (สโร.)



# Congratulations

# Thank you

2016 Asia Pacific Open Data Summit  
Peter Arzberger  
UCSD



# Open, Accessible, and Discoverable Data

## *Critical to Government and Science*

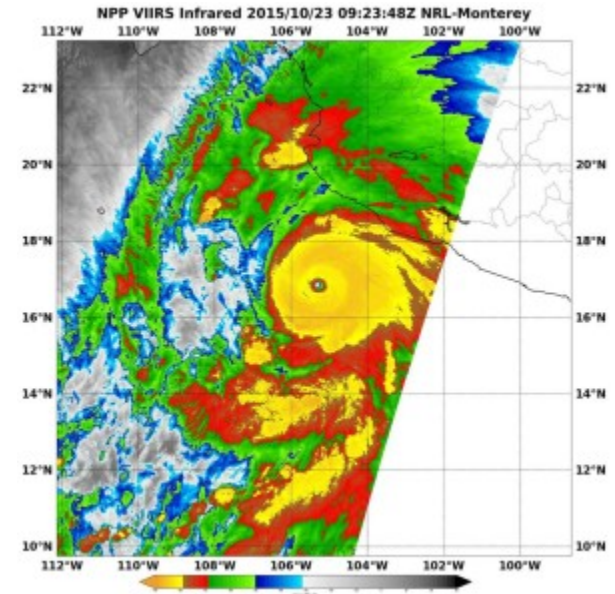
## *Opportunity for Collaboration*



**Smart & Connected  
Communities**



**Environmental  
Quality**



**Disaster Management**



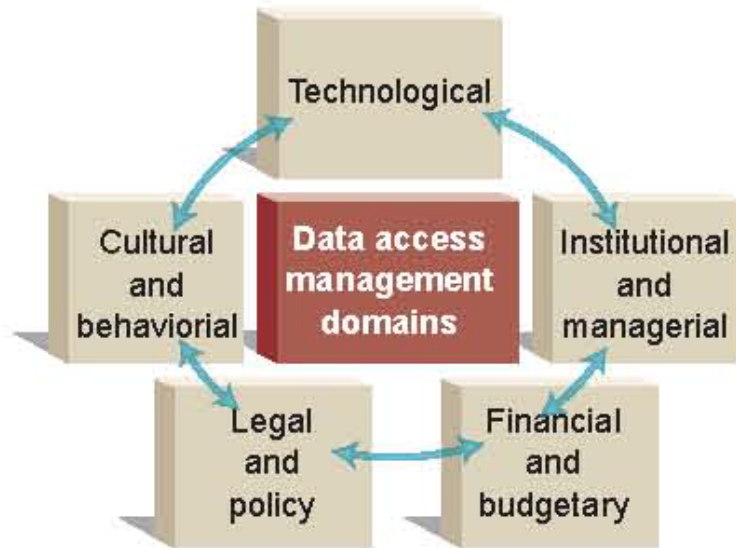
**Biodiversity and  
Habitat**



**Agriculture**



# Open Access / Public Access Policy, Technology, People



**Domains of a data access regime.**



- build the social, technical bridges that enable open sharing of data
- “grass roots”, “bottom-up” community effort towards global data sharing
- NSF funding

Science 2004 March 19,

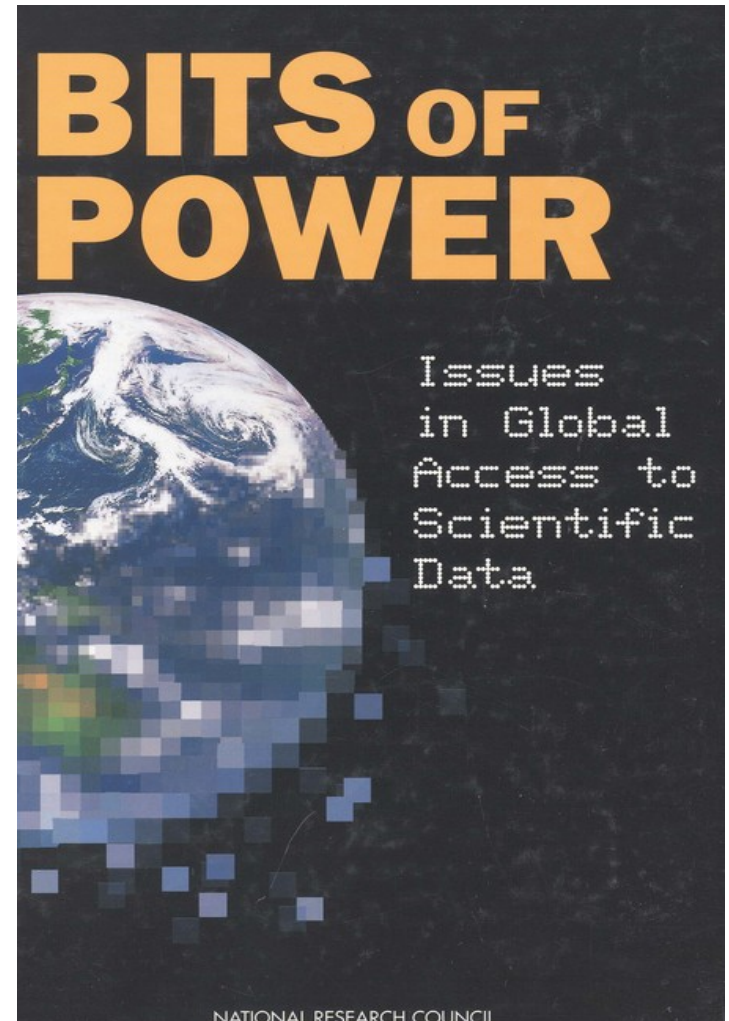
[NSF] “continues its commitment to expand public access to the results of its funded research. Public access is intended to accelerate the dissemination of fundamental research results that will advance the frontiers of knowledge and help ensure the nation’s future prosperity” *F. Cordova, Director, NSF, 3/18/15*



# **“The value of data lie in their use.”**

Bits of Power: Issues in Global Access to Scientific Data. NAP. 1997

- *Full and open access to scientific data should be adopted as the international norm for the exchange of scientific data derived from publicly funded research.*
  - *The public good interests in the full and open access to and use of scientific data need to be balanced against legitimate concerns for the protection of national security, individual privacy, and intellectual property.*
- *An integrative research, infrastructure, education, policy and governance approach is required*
  - *All components!*
  - *Internationally!*

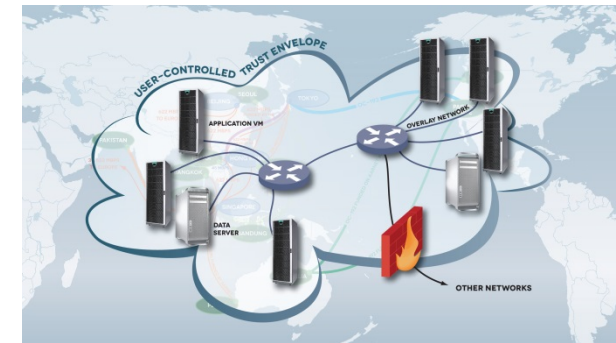
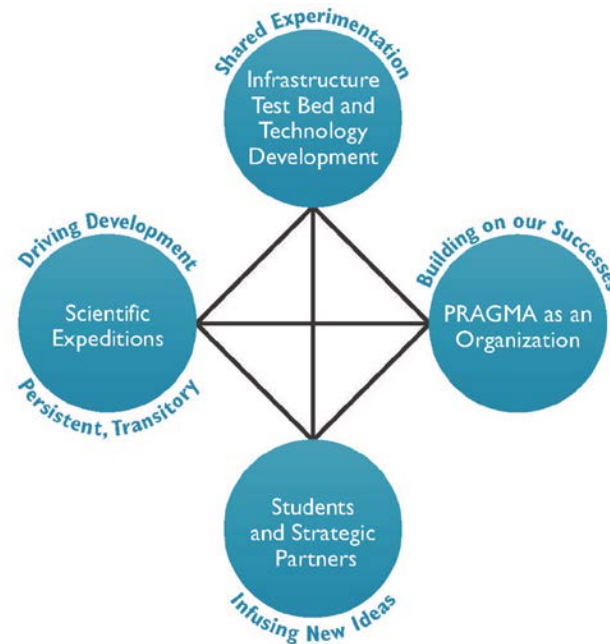


# PRAGMA: A Community of Practice

## Enabling the Long Tail of *Team Science*



Virtual Scientific Expeditions



Trust Envelop



PRAGMA Students



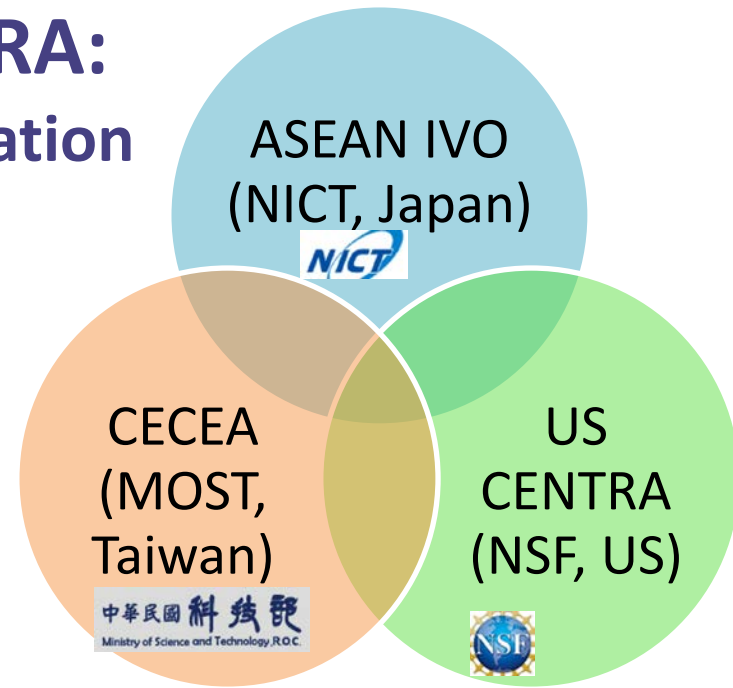
PRAGMA Member Sites



PRAGMA Community

# PRAGMA and CENTRA: Frameworks for Collaboration

- CENTRA: Collaborations to Enable Transnational Cyberinfrastructure Applications
- CENTRA's key goals:
  - Promotes scientific advances at the intersection of
    - Applications: smart and connected communities, environmental monitoring, disaster management
    - Cyberinfrastructure: software-defined systems for data-sharing, middleware interoperability, coordination ...
  - Build next generation of collaboration networks of people



# **PRAGMA and CENTRA: Marketplaces of Ideas**

**We Welcome  
Your Participation in and  
Collaboration with  
PRAGMA 31!**

**Thank You**



# EXTRA SLIDES



# NSF Public Access



## US Office of Science and Technology Policy:

directs federal agencies to develop plans to make *publicly available* to the “greatest extent and with the fewest constraints possible and consistent with law” *the “direct results of federally funded scientific research.”* (2013)



NSF'S PUBLIC ACCESS PLAN:

NSF15052

## Today's Data, Tomorrow's Discoveries

Increasing Access to the Results of Research Funded by the  
National Science Foundation

March 18 2015

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F. Cordova, Director, NSF, 3/18/15

[https://www.nsf.gov/news/special\\_reports/public\\_access/](https://www.nsf.gov/news/special_reports/public_access/)

# NSF Provides the Foundation of Knowledge for Smart & Connected Communities



# Why smart & connected communities, environment and disaster management?

- Inherently international and dependent on IT
- Technically challenging with dynamic requirements
- Intersecting and important to huge populations



Graphic from postscapes.com



<http://www.claimsjournal.com/news/international/2015/10/23/266570.htm>

