

Opportunities for Integration

DIGITIZATION INITIATIVES!

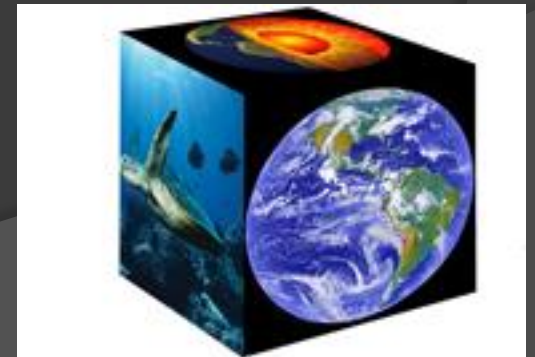
Timing is Everything!

Be a squeaky wheel!

- ⦿ Policy
- ⦿ Funding
- ⦿ Implementation
- ⦿ Products

Policy

- ⦿ Network Integrated Biocollections Alliance (NIBA)
<http://www.aibs.org/public-policy/biocollections.html>
- ⦿ Detelon, Earth Life Transitions, Etc.
www.paleosoc.org
- ⦿ STEPPE (through GSA)
www.steppe.org
- ⦿ NSF- EarthCube Initiatives – RCNs & More
<http://earthcube.ning.com/groups?page=3>



EarthCube RCN: Cyberinfrastructure for Paleobioscience

Challenge: Many informatic efforts, little coordination or interoperability among efforts

Neotoma

PBDB

VertNet

Morpho-bank

Digimorph

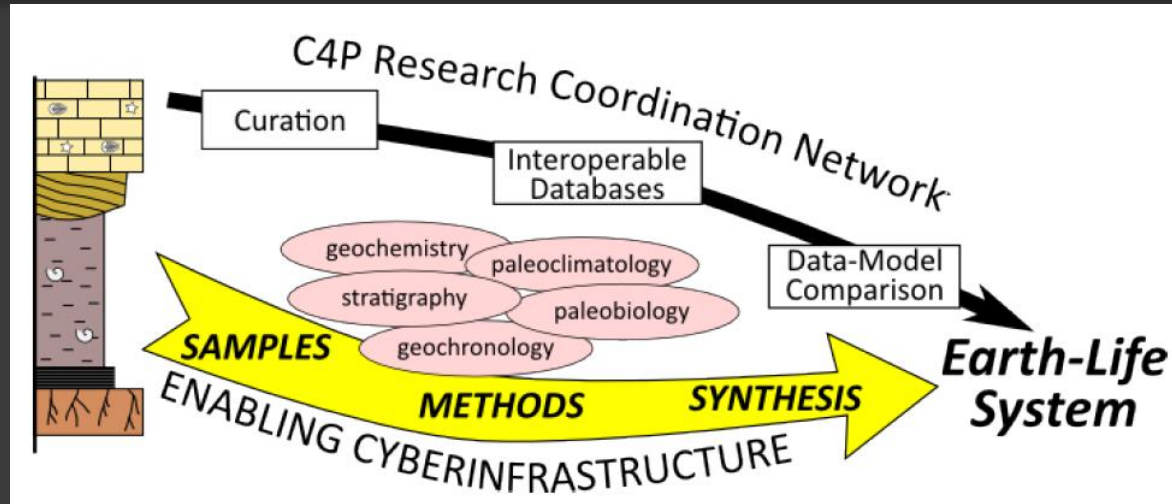
IEDA

MacroStrat

iDigBio

Tree of Life

EarthCube RCN: Cyberinfrastructure for Paleobioscience



Goals

- Build new partnerships and collaborations among geoscientists and technologists
- Survey and catalog existing resources
- Share news of the latest advances in cyberscience and paleogeoinformatics
- Facilitate development of common standards and semantic frameworks

Planned RCN Activities

1. Cataloging existing cyberinfrastructure resources in the paleobiological sciences
2. Workshops: Paleobioinformatics & Geochronology
3. Webinar series featuring other EarthCube projects and related geo- & bioinformatic activities
4. Town Halls & Symposia at GSA, AGU, ESIP
5. Social Media: Twitter, EarthCube Ning Website, etc.

Funding!

- ◎ NSF – multiple venues
- ◎ IMLS – Institute of Museum and Library Sciences
- ◎ Partner with government agencies
 - Federal Collections – more later!
- ◎ Private Organizations

Partnerships for Funding

- Advancing Digitization of Biological Collections – TCN and PENs
- Many Paleo and Bio Projects

Implementation & Tools

- iDigBio - Workflows
- TDWG – Bioinformatics Standards
<http://www.tdwg.org/>
- GeoLocate = Mapping
<http://www.museum.tulane.edu/geolocate/>
- SESAR –System for Earth Sample Registration
<http://www.geosamples.org/>
- Notes from Nature – citizen science!
<http://www.notesfromnature.org/>

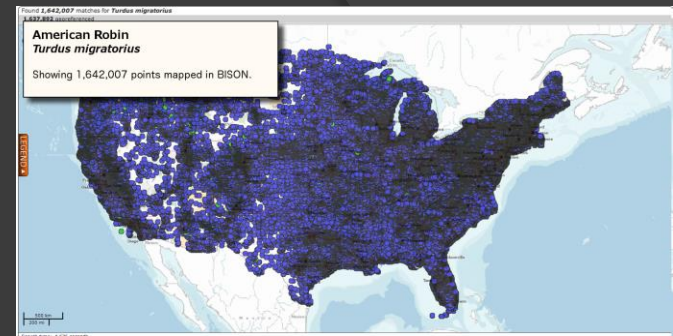


Products

- Encyclopedia of Life
eol.org/
- GBIF – Global Biodiversity Information Facility
www.gbif.org/
- Bison – USGS
bison.usgs.ornl.gov/
- InvertNet and VertNet
[Invertnet.org](http://invertnet.org) and vertnet.org
- Neotoma & Faunmap
<http://www.neotomadb.org/>

- PaleoPortal => iDigPaleo
<http://www.paleoportal.org/>

- IEDA – Integrated Earth Data Applications
 - Rock Samples, Core and Geochem Data
<http://www.iedadata.org/>



And so much more...

- Resources here!

- Let's talk!

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We are an awesome community of collaborators!