

CDI Citizen Science Working Group

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2011-08-18 CDI 2011 Workshop - Group Kick-off -----

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Sky Bristol Core Science Systems
Kelly Lotts, Montana State University, project coordinator Butterflies and Moths of North America
(www.butterfliesandmoths.org)
Dave Govoni
Derek Masaki
Eric Wolf National Geospatial Program
Barbara Poore National Geospatial Program
Megan Hines University of Wisconsin
Sue Hazlitt

~~Since I'll need to be in a break-out group while you are meeting, please allow me to get my initial 2-cents in -- Dave Govoni:~~

Some immediately obvious close CDI inter-community linkages:

CDI-CS (Citizen Science) <--> TSWG-MAD (Mobile Apps Development) *
<--> DMWG (Data Management) **
<--> ... ?

* Immediate linkage for FY12 might be explicit partnership/focus on citizen-science apps development as "first-out-of-box" project, especially if MAD adopts sponsorship of crowdsourcing approaches to speed up apps development (e.g., "code-a-thons" and/or Apps development "contest") as part of its activities. (Example, proposed "Citizen Science Observation Platform") ... presumes that there is some level of coordination with identified internal CS requirements or use cases that these apps would support.

** [Model] standards, protocols, workflows (e.g., for QA/QC) for CS-sourced data, both structured and unstructured, including ...

Consideration of potential legal/policy impediments will be necessary -- e.g., OMB survey policies, collection and handling of potentially sensitive locational and other data (e.g., cave entrances, endangered species), collection/handling of participant PII. ... Explore solutions, lessons learned (e.g., NPN, Bird Banding data preservation at Patuxent, TMN/OpenStreetMap feature classification CDI) and restrictions (e.g., certain types of CS interaction might not be possible within current regulatory bounds).

Powell center proposal need a grand challenge. Tie to other science disciplines
Megan has talked to Jake Weltzen about Data One public participation charter. Maybe can be a starting point for group
Fred suggested a lot of stuff is there in defense community

Mobile discussion: should we have a framework for the development of this?

Mobil Application Development group

Regulatory framework may preclude some projects

different levels of crowdsourcing. Citizens collect, agreements with other groups (Audubon) (Ducks Unlimited)

cooperative agreements

CDI can raise visibility of this stuff at bureau level

Specific issues:

can we do this? OMB approval? Volunteer forms

Regulatory framework and PII

look around at others volunteers

Pautuxent has bird banding?

tackle sticky issues right away

perception of scientific data

Phaedrea Ponds--Fort Collins

Action: blog post about issues, start conversation around these issues

OMB/PII/paperwork reduction/

Fred Collins ties to European developments

Question: Can we legitimately do what we want do with crowdsourcing?

What are burdens

Govt Paperwork reduction act can't unduly burden public, controlled by OMB

We are where Data Management group was last year

do an exploration: look at education, regulatory framework, best practices

outcome? White paper? checklist

Start up on confluence website

active versus passive model. (user identified active models)

what could passive crowdsourcing

Only DOI has NOT signed itunes/app agreement.

Some applications are strictly internal. Others we could benefit from outside input.

Need Bootcamps for education. Hackathons for rapid development.

Pitch -

Marcia McNutt suggested Puerto Rico use citizen sensors for stream gaging.

Cornell Citizen Science Center has Bibliography

Small workshop in USGS for Citizen Science

2:30 - 5 Slides

Who's Who/Community for CS (inside and outside USGS)

- * Citizen Science Workshop

- The National Map Corps (OSMCP)

- Encyclopedia of Life

- eBird

- Audobon Christmas Bird Count

- Butterflies and Moths of North America (I'm adding our project, but perhaps folks don't think it is "big" enough...? We have 340,000+ individual sighting records in the database, and more than 5,600 registered submitters have signed up in the last 7 months.)

Best Practices

- What's happened in existing projects
- How to capture and generalize education
- How to QA/QC data?
 - User QA/QC vs. Expert QA/QC
 - Cross-check (multiple entries)
 - Motivations
 - IBM Blue Card - managing user qualifications
- Gamification
-

Regulatory/Organizational Issues

- OMB
- Authority
- Quality
- Legal agreements (app contests, iTunes agreement)

Technical Issues

- Data mining tools for passive crowd sourcing
- Mobile applications for active crowd sourcing

Education

- Presentations for Outside
 - ESA, GSA, AGU, AAG, Esri, etc.
- Bootcamps (unconference), Code Sprints, Hackathons
 - Pre/Post big conferences
- Bibliography

Kelly QA/QC can use professionals

Blue Card: IBM: qualifications "adopt a quad"

EOL = encyclopedia of life

competitions important

another deliverable: describe qu qc method from other group -- solicit other groups to describe or provide documentation

Knowledge bases:

Data sources -- current projects

QA/QC methods

Experts network (for QA/QC)

"Regulatory boundaries"

Best practices

Workshop -- USGS Citizen Science Practitioners - lessons learned, project ideas, use cases, issues

Learning -- Speakers