

Open Knowledge Network

3rd Workshop on an Open Knowledge Network: Enabling the Community to Build the Network

October 3, 2017 - October 4, 2017
National Institutes of Health (NIH)

Agenda

Day 1

8:30-8:45 **Welcome**

8:45-9:45 **Morning Plenaries:** Overview, vision, context. A recap of the vision and background, and discussion of new capabilities and new applications that could be enabled by such an infrastructure. Including an NSF perspective.

9:45-10:45 **Presentation of related work:** DARPA, NASA, NIH, and NIST provide brief overviews on tools and R&D activities that they have funded in related areas.

10:45-11:15 **Break**

11:15 – 12:50 **Presentations by Practitioners:** Content, state of the art and standards in the practice. Examples of the use of knowledge graphs in distinct domains/fields, to make the case for an Open Knowledge Network (OKN). This will include coverage of existing proximate formal and/or informal standards in those knowledge domains – such as ontologies, representations, etc.

- The Horizontals
- Practice: Geosciences
- Practice: Biomedicine
- Practice: Finance
- Practice: Manufacturing

12:50 – 2:00 **Lunch and networking**

2:00-5:00 **Breakouts:** Participants are divided into the topic areas listed above and each will discuss how an OKN would affect their particular domain including the discussion of the following areas:

- Bootstrapping/First Step. Which part of the OKN pipeline should be the first area for progress (perhaps by knowledge domain)—Data Extraction, Standards/Reconciliation, Content Acquisition, Infrastructure needed, Content Serving, etc.

- Project Plan. How exactly would we bootstrap and build out the OKN? This includes 12-month; 3 years; 5-year project plans; overall structure of project activities, ordering of activities; infrastructure requirements; etc.
- A coordinated community effort has the potential for getting this activity started without requiring large amounts of funding at the very beginning.
- Mobilizing the Community. How can the activity be scaled up to include more segments of the community, and accommodate organic growth?
 - Coordination and governance. What are the coordination mechanisms and community structures; what structures should be put into place to support rapid but coordinated progress; agile development; maximum collaboration; and minimum bureaucratic overhead?
 - Competitions. Is it possible to devise competitions to engage more of the community, and help the community efforts move forward? Kaggle has offered to help in vetting competition ideas, and their formats; and to host competitions.

5:30-7:00 Reception sponsored by Carnegie Mellon University

Day 2

09:00-10:00 **Breakouts** meet to prepare report.

10:00-11:30 **Reports of Breakout Groups** (Webcast)

11:30-12:15 **Lunch**

12:15-2:00 **Structuring for Continued Progress**

- What are the essential elements of increasing participation?
- How do we, the Organizing Group, continue this progress?
- Structuring for Progress – Steering? Role, frequencies, etc.

2:00-2:35 **Outcome Action Items and Next Steps**

2:35-2:45 **Closing**