

## **W3C LBD Community Group Minutes - Call 18/05/2021**

### **1st Focus Group Workshop**

#### **Attendees:**

- Karl Hammar (Jönköping University)
- Anna Wagner (Individual affiliated to PROSTEP)
- Katja Breitenfelder (Fraunhofer IBP, TU Munich)
- Mathias Bonduel (KU Leuven & Neanex Technologies)
- María Poveda Villalón (Universidad Politécnica de Madrid)
- Alex Donkers (Eindhoven University of Technology)
- Jeroen Werbrouck (UGent / RWTH Aachen)
- Richard Pinka (Uniklima design HVAC company)
- Joel Bender (Cornell University)
- Madhumitha Senthilvel (RWTH Aachen University)
- Philipp Hagedorn (Ruhr University Bochum)
- Pouya Zangeneh (University of Toronto/ Hatch)
- Christian Kreyenschmidt (Jade University of Applied Science, Oldenburg)
- Salvatore Cataldi (BELIMO Automation AG)
- Conor Shaw (University College Dublin)
- Pierre Bourreau (Nobatek)
- Hervé Pruvost (Fraunhofer IIS)

#### **Presentation slides**

- <https://docs.google.com/presentation/d/1oVWGFaITVrgcmLZczaYVLOqtRCxcvEiSBq4slubMSF8/edit#slide=id.p>

#### **Date and time**

- 18/05/2021, Tuesday, 15:00-16:30@UTC/ 17:00-18:30@CEST/ 08:00-09:30@PST

#### **Moderators**

1. Katja Breitenfelder
2. Mathias Bonduel

#### **Agenda**

1. Introduction
2. Prepared pitches
3. Spontaneous pitches

#### 4. General discussion

## Minutes

### 1. Introduction

#### a. New members

- i. Conor Shaw -- University College Dublin, PhD candidate, studying semantic web tech use in facilities management.
- ii. Christian Kreyenschmidt -- PhD student at Jade University of Applied Sciences Oldenburg and RWTH Aachen. Ontologies for damages in timber structures.
- iii. Richard Pinka -- previous member, now back to pitch some ideas and discuss.

#### b. Introduction to focus group workshops plan/goals -- see slides.

### 2. Prepared pitches

#### a. Pouya Zangeneh

- i. **Uniform Project Ontology**
- ii. Output of PhD project, hoping to build community/group to continue development.
- iii. Being used in industry at Hatch construction engineering company
- iv. Used in EITI (Extractive Industries Transparency Initiative) to describe contracts/payments
- v. Q&A:
  1. Q (Karl): What other ontologies exist and how does UPonto differentiate? A (Pouya): IFC extensions exist, ICMS schema (account codes/cost items, etc). UPonto contribution: modelling risks associated w/ projects (mgmt risks, scheduling risks, sociotechnical risks, etc). Other contribution: cost and subcomponents of cost.
  2. Q (Mathias): Was UPonto tested outside of Canadian engineering context? A (Karl): who was taking the notes missed answer, mea culpa.
  3. Q (Mathias): Any challenges to using ontologies in this context, release of industry data, policy stakeholders, etc.? A (Pouya): Yes, huge issue to describe what semantics/ontology is. But as soon as you show good examples of what is possible (e.g., querying in a simple query summarization of costs/royalties, etc) they are sold on the idea.

#### b. Jeroen Werbrouck

- i. **Federated data management**
- ii. Federated Common Data Environment -- not a separate place to upload shared data, but rather a way of harnessing the technologies we already have for disambiguating and describing data/concepts/graphs online.

- iii. Solid initiative: separate data from services, allows data owners to hold their own data “pods” with their data, to be accessible by others (when granted)
- iv. Challenges: non-RDF data (imagery, files, geometries, point clouds, spreadsheets, etc). Integrating these and hosting them. Resource hosting standardisation, container standardisation, ...
- v. Also challenge: services that operate on said data, both headless and GUI-based ones, without showing the end-user the underlying complexity, how to integrate microservices, ...
- vi. Q&A:
  - 1. Q (Karl): How to apply analytics in a decentralised data space? A (Jeroen): There are probably things you cannot do in this type of system architecture that are easier now. On the other hand maybe standardisation like this supports better analytics on that partial data that one owns.
  - 2. Q (Pouya): I think the idea of "federated data management" will be an essential part of 5G/Edge computing debate too. A (Jeroen): Speed is a major bottleneck in several federated querying scenarios, so 5G will possibly help reduce this bottleneck and make such querying more palatable.
  - 3. Q (Mathias): How does Solid solve the availability issue (e.g., many SPARQL endpoints have low uptime)? A (Jeroen): A private endpoint can be up quite a lot. The federated stakeholder network is private or semi-private, so this can work. Also SPARQL probably won't be used, rather “good old” JSON APIs. Making use of Triple Pattern Fragments.

#### c. Richard Pinka

- i. **HVAC tabular product data FCU unit Design/Operation parameters**
- ii. Purpose: simplify the selection of equipment in a project based on their characteristics
- iii. [https://research.richardpinka.eu/services\\_details\\_use-case2.html](https://research.richardpinka.eu/services_details_use-case2.html)
- iv. Q&A:
  - 1. Q (Mathias): What is the gap in existing ontologies? A (Richard): Have not found a suitable ontology to reuse yet, but have not done exhaustive search.
  - 2. (Alex) working on similar topics. Suggestion: Brick and/or Project Haystack could be useful.
  - 3. (Joel) working on similar topics on behalf of ASHRAE, open to collaborate.

### 3. Spontaneous pitches

#### a. Conor Shaw

- i. **Graph-based building information enrichment for FM services**
- ii. PhD candidate, University College Dublin, CBIM (Cloud BIM) project

- iii. Research “Democratising participation in FM services through graph-based building information enrichment”, interesting in exchanging on information enrichment
- iv. Possibly working with Schiphol.
- v. Q&A:
  - 1. Recommendation (Alex):  
<https://www.based.co.nl/voor-wie/schiphol>. Anouk van Otterlo (<https://nl.linkedin.com/in/anouk-van-otterlo>) graduated on BIM at schiphol and should still be working there.
  - 2. Recommendation (Jeroen)  
<https://ruben.verborgh.org/blog/2018/12/28/designing-a-linked-data-developer-experience/>
- 4. General discussion
  - a. The **Focus Group Discussion** on interests & expectations of CG participants is postponed to the follow-up **2nd ‘Focus Group Workshop’** scheduled during the regular LBD CG on 1st June 2021.

## Next Call

- 01/06/2021, Tuesday, 15:00-16:30@UTC/ 17:00-18:30@CEST/ 08:00-09:30@PST

### Agenda: **2nd “Focus Group Workshop”**

We are interested in getting suggestions from the community about potential agenda items and **Elevator Pitches** for the following calls. Please send your suggestions to the chairs or to [internal-lbd@w3.org](mailto:internal-lbd@w3.org), whether you have a short presentation to bootstrap the discussion, and an approximate duration you think the discussion will last.

## Previous minutes

<https://www.w3.org/community/lbd/meeting-minutes/>