An Introduction to a Linked Data Demonstrator
29 November 2017
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Today

- What is social architecture?
- An example...
- Where is it up to?

Source: [http://csiro.au](http://csiro.au)
What is social architecture

- **Where does it come from?**
- Why is it important?
- How does it work?

- Anyone want to guess?

Source: [http://reply-mc.com](http://reply-mc.com)
What is social architecture

- Where does it come from?
- Why is it important?
- How does it work?

But also:

- Social media
- Open Source Software
- Open Knowledge
What is social architecture

- Where does it come from?
- Why is it important?
- How does it work?

“...it is the conscious design of a social environment that encourages a range of behaviors leading toward a goal or set of goals”

“SA was devised as a response to the fear of neglect in the planning, designing, and growing of social networks IRL”

By Claudia Gatsby

Source: huffpost.com/claudia_gatsby
What is social architecture

- Where does it come from?
- Why is it important?
- How does it work?


Social (governance, organisational roles and culture, collaborations)

Comm (BoM/GA)  Other (Citizen Science)  State/Territory

Technical (data, information systems, and tools)

Source: http://www.neii.gov.au
What is social architecture

- Where does it come from?
- Why is it important?
- How does it work?

“As the majority of resources (i.e. information, technology, human capital) from which the NEII will be assembled, are owned and managed within numerous enterprises, management based approaches which imply direct control over resources, cannot be used” – Box, P & Lemon, D

Source: http://www.neii.gov.au
What is social architecture

- Where does it come from?
- Why is it important?
- **How does it work?**

**Context:** Jurisdictional & domain legislative, policy & standards

**Governance:** a framework of ‘authority structures’ for negotiation and decision making – often virtual organisations.

**Agreement framework:** “processes for smoothing governance and participation”

What is social architecture

- Where does it come from?
- Why is it important?
- How does it work?

PARTICIPATION

- Common agenda/vision
- Common metrics
- Mutually reinforcing activities – participant incentives must be geared toward this!
- Continuous communication
- Sustainable economics
- Strong leadership

Source: http://www.neii.gov.au
Image: http://emsaal.itcilo.org
The Linked Data Demonstrator

- Why?
- What is it?
- Who are the participants?
- What are their incentives?
- What’s working?
- What’s not working?

- CRCSI Programs 2 and 3 publish Towards a SKI in March 2017.
- Espouses the publication of Linked Data

Source: http://www.crcsi.com.au
The Linked Data Demonstrator

- Why?
- What is it?
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- What’s not working?

Evaluation of barriers to utilisation undertaken shortly thereafter.

Priority Areas for Investment

Bootstrapping a SKI

Given the fundamental dependency of the CRCSI program 3 research model on some form of SKI being accepted by the potential adopters, it is critical to get a functioning SKI into a state where it supports, rather than detracts from, stakeholder perceptions of viability. The SKI needs these components:

- Data in “production” relevant to a Use Case scenario
- Social architecture
- Technical architecture
- Initial implementations of “linking” capabilities and transactions

Source: http://www.crcsi.com.au
The Linked Data Demonstrator

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Source: [http://www.exlibrisgroup.com](http://www.exlibrisgroup.com)
The Linked Data Demonstrator

- Why?
- What is it?
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The Linked Data Demonstrator

- Why?
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- Data Providers: Test hypothesis for publishing Linked Data
- Hosting/Service Providers: Demonstrate capability of hosting and services
- Demonstrator developers – Demonstrate value of research
- Experts: Demonstrate and solidify capability and expertise
The Linked Data Demonstrator

- Why?
- What is it?
- Who are the participants?
- What are their incentives?
- What’s working?
- What’s not working?

- Common agenda/vision (Workshopped)
- Common metrics (who’s using it)
- Mutual reinforcing activities:
  - Organisational support is quite strong
  - Volunteerism is extremely high (people and systems)
  - High reuse of existing technologies
- Strong leadership (shared but solid)
The Linked Data Demonstrator

- Why?
- What is it?
- Who are the participants?
- What are their incentives?
- What’s working?
- What’s not working?

BARRIERS TO CONTINUOUS COMMUNICATION

- “Get stuff done?” OR
- “Talk about it!”
The Linked Data Demonstrator

- Why?
- What is it?
- Who are the participants?
- What are their incentives?
- What’s working?
- What’s not working?

BARRIERS TO SUSTAINABLE ECONOMICS

- Started after budgets were set
Status?

- Where is it up to?
- What’s next?

1. Identify and establish governance (ISO 19135)
2. Identified minimum viable product (G-NAF, Localities, LGAs, ASGS Main Structure)
3. Identify tools and hosting/service providers
4. Obtain access to licenses and systems
5. Extend where necessary
6. Identify relevant vocabularies and ontologies (revisit governance)
7. Create missing vocabularies and ontologies
8. Identify URI patterns
9. Establish agreements
10. Publish data
11. Demonstrate to developers
1. Complete current work items
2. Handover to demonstrator developers
3. Document problem and solution patterns for reuse
4. Provide feedback to W3C SDW Interest Group on best practices
5. Extend activity to NZ
6. Work through other backlog items
   - Tackle derived datasets
   - Deal with historical publication
   - Deal with multi-resolution geometries
Recap

- What is social architecture?
- An example...
- Where is it up to?
Get involved:
Australian Government Linked Data Working Group

Explore:
http://linked.data.gov.au

Engage:
agldwg-all@lists.csiro.au