Is data sharing the privilege of a few?
Bringing Linked Data to those without the Web

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Because

1) it describes an outrageous situation we created

2) requires a radical shift in our mindset and technologies
On building great data sharing technology for us only ...
Linked Data publication/consumption =

Data center + Infrastructure + (mobile) web browser
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No Web = No Linked Data
The Web is out of reach for the majority!

4.5B people don't have access to it

Main problems:
- No infrastructures
- Costly access

Digital divide
They would benefit from Linked Data
  • but they can not use it!
• And we don't want a new divide, do we?
Our reaction?

OR
Our reaction?

Come back when you have the Web!

OR
Our reaction?

Come back when you have the Web!

OR

Let's share this technology now
For doing “Web-less” Linked Data

We just need two things:
We need to change our mindset ...

Data sharing platform =
- Cloud hosted server
- Web app to consume
- Web forms to publish
1) think de-centralised

Instead: chunks of data served by different peers
Take example on microgrids

De-centralised model for energy production and consumption
2) think small, think micro-servers

Not designed for developing countries

Multi-core fast CPU
Gigabytes of RAM
Terabytes of disk

Designed for developing countries

433Mhz x86 CPU
256MB of RAM
1GB of flash storage

- Can be solar powered
- Dust proof
- Affordable
3) think vocal

Because not everyone can read and write
... and we need to adapt our technologies too
Challenges

- Dereferencability: get a route to access data?

- Consistency: mint non-colliding URIs?

- Reliability: get content from devices not always on?

- Security: ensure legitimacy without central authority?

- Accessibility: voice interfaces to Linked Data?
It's possible! we're on it
• Provide vocal interfaces to Linked Data
SemanticXO

- Deploy Linked Data on the XO from OLPC
Let's bring Linked Data to everyone now!

http://semweb4u.wordpress.com/category/semanticxo/

PS: and help us by funding SemanticXO if you can :-)
Illustrations credits


“nchenga”, http://www.flickr.com/photos/chiperoni/105408601/

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