SparqlExtension: Linking Data

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SparqlExtension - Logo?

Figure: The web on caffeine (NASA)
What do we do at TUDelft E&I?

▶ modelling and simulation
▶ data analysis
▶ economic forecasting
▶ focus: big industry, infrastructure and energy
▶ current projects: energy sector in the Netherlands, port of Rotterdam
Modelling

- creating computer representation of the real world for analysis and forecasting
- extremely data intensive!
Data

- question: how to manage data better?
- answer (social): open, connect and collaborate
- answer (technical): mediawiki + semantic web
Semantic Web

- wikipedia - dbpedia
- governments: US, UK, Department of Energy (US)
- healthcare: Malaria research, Johnson&Johnson, Merck
- research institutions: NASA, MIT, Max Planck Institute, ETH Zürich
great!

- problem: scalability (what about millions of data points?)
- problem: semantic standards (ask?)
- problem: linking data (how do we connect and link beyond the wiki?)
- problem: halo - great, but over-engineered, not flexible, closed-source!
SparqlExtension

- integrates Semantic Mediawiki with semantic data store
- query the local and remote data
- present results in variety of formats (tables, templates, charts)
- uses the linked data and links the local data back to the linked-data cloud
- open-source
A little less conversation, a little more action please! (Elvis)

Figure: Enipedia.Tudelft.nl
TODOs and worries

- integrate SparqlExtension with SMW better
- data stored in 3 locations
- output format integration with Semantic Result Formats
Perspectives for SMW

- leverage off the growing semantic data pool
- use as an semantic data manager & report engine
- top research institutions already excited
Thank You For Listening

Questions, comments?
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