

WORKSHOP

SEMANTIC TECHNOLOGIES AND SEMANTIC WEB:
STRUCTURING DATA FOR STI POLICY ANALYSIS

SESSION 2 USING SEMANTIC TECHNOLOGIES AND SEMANTIC WEB TO STRUCTURE THE STI POLICY FIELD

Brussels, 19 June 2017 – Alina DENIAU



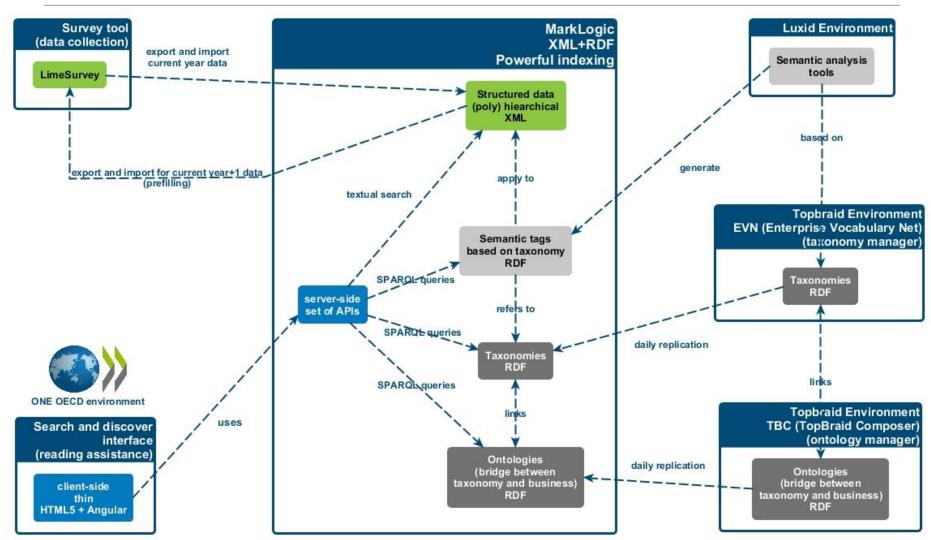


REITER WP3 -- Modelling

- Experimental Taxonomy
 - Concepts & Relations (Synonyms, Inclusion) reuse IPP
 - XML Model structuring the dataset STIO2014
- Building Taxonomies / Ontology
 - Specific relations between concepts
- Workshops
 - Internal Workshops with OECD Experts
 - External Workshops with DG RTD Brussels, 19 June 2017
 - External Workshops with international group of experts
- Network
 - Expert Advisory Group
- Releases: 1 (November 2017) & 2 (April2018)



REITER - WP3 -- Architecture



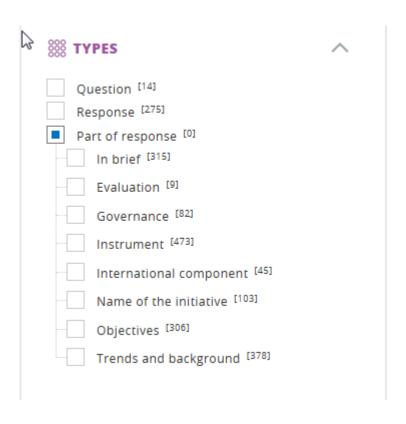


First Model – Data 2014

- Experimental model
 - Ingest the old dataset from 2014 (curated) in MarkLogic®
- XML model based on the Questionnaire 2014
 - − 1 question − 1 answer
 - 1 answer has several parts: Objective, Budget, Background, Responsible organisation, etc.
- Model useful
 - Validate the "Refining" functionalities
- Reuse of the IPP taxonomy
 - Tagging unstructured text



"Refine" in the 1st experimental version



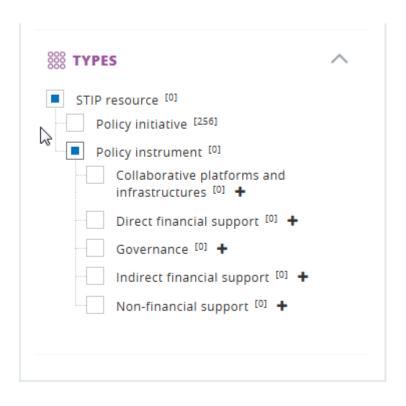


Second Model – "STIP ecosystem"

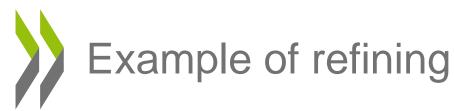
- Ontology modelling the area of policy
 - Policy initiative
 - Policy instrument
- Taxonomies refining + dashboards
 - Target groups
 - Budget ranges
 - Countries (part of the existing OECD taxonomy)
 - Themes = The Questionnaire itself
- Curated data 2016



"Refine" in the second model







US-ITALY FULBRIGHT COMMISSION STIP COUNTRY STIP policy initiatives and instruments (2016) | Policy initiative The Fulbright Program was established in 1946 under legislation introduced by the late Senator J. William Fulbright, to promote the peace process through cultural exchanges **STIP THEMES** between the United States and the other countries of the world. lifelong learning social sciences and humanities arts Italy **YEARLY BUDGET** United States + Show more details **STIP TARGET GROUPS** DATES © 2017 OECD Omega O.N.E Sight About | FAQ | Videos | OECD Taxonomy 1900s [1] + 1920s [1] + 1930s [1] + 1940s [1] 1948 [1] 1950s [2] + 1970s [1] + 1980s [8] + 1990s [15] + 2000s [154] + 2010s [412] +



Workshop session 2

Presenters

- Thierry Vebr (OECD)
- Diana Maynard (Univ. Sheffield, UK)
- Cinzia Daraio (Univ. Roma Sapienza, Italy)

Discussants

- Frédérique Sachwald (OST, France)
- Abdullah Gök (Univ. Manchester, UK)