



TetherlessWorld

of Semantically-Enabled Multiple Web Platforms: and Experiences

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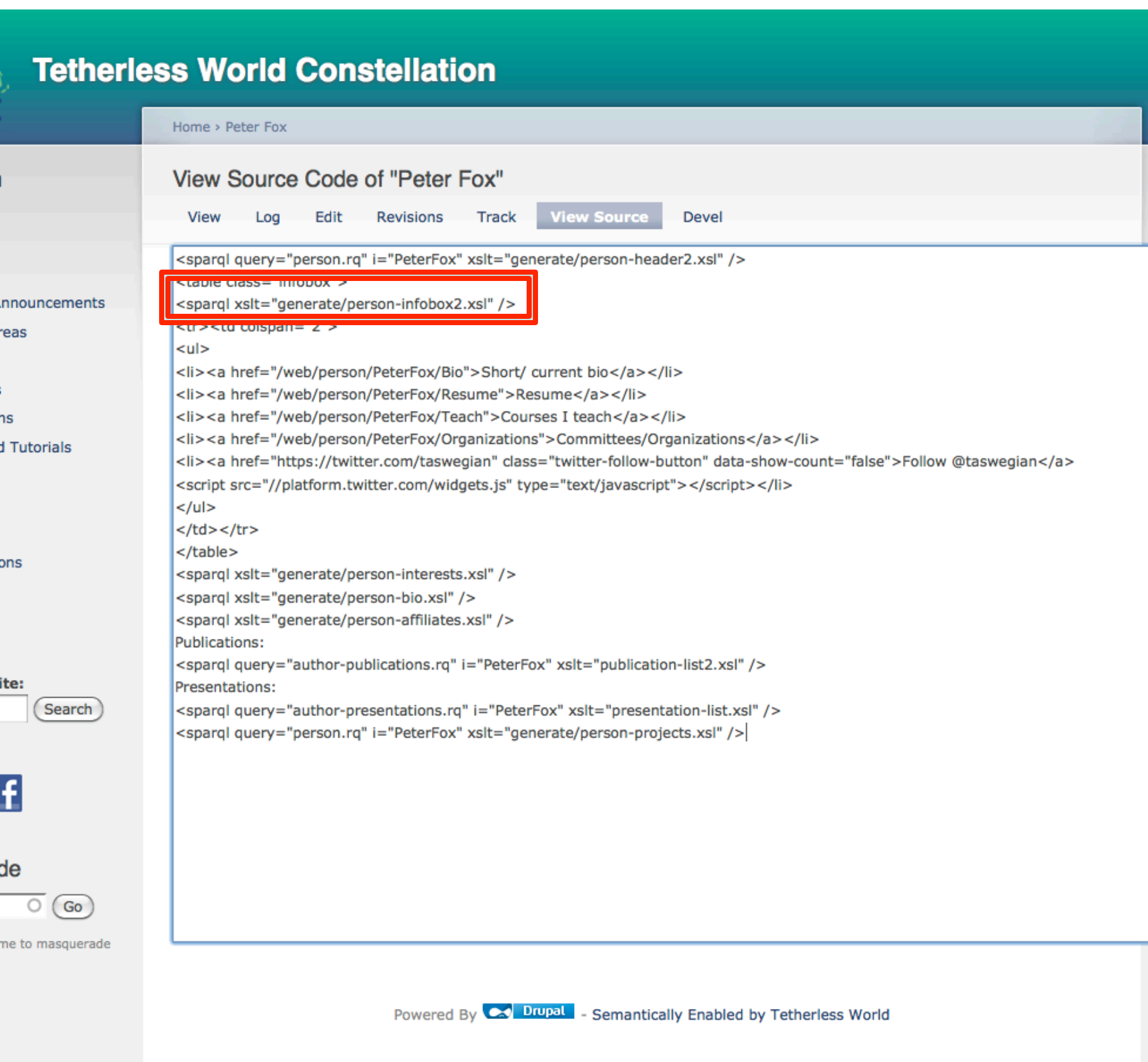
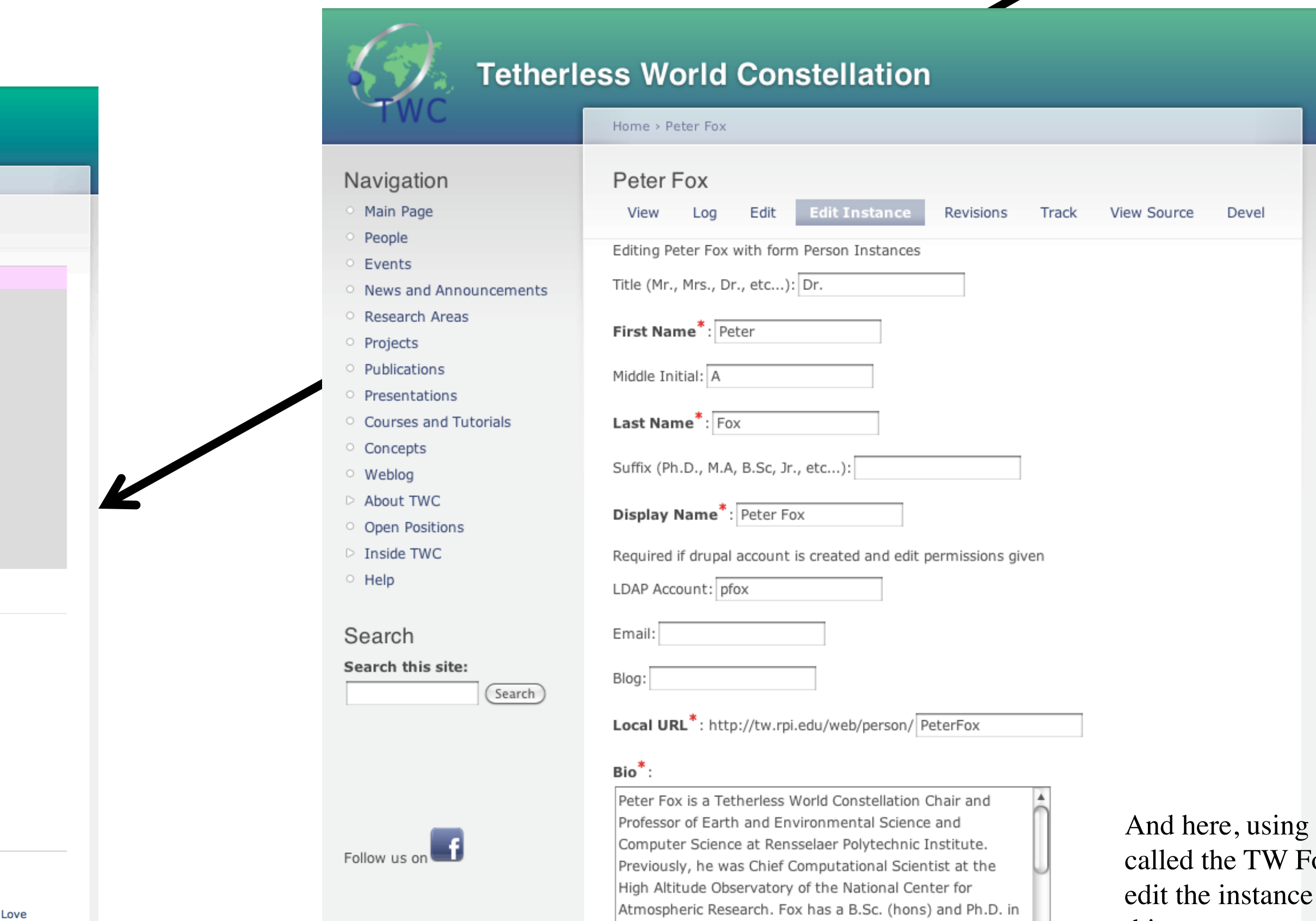
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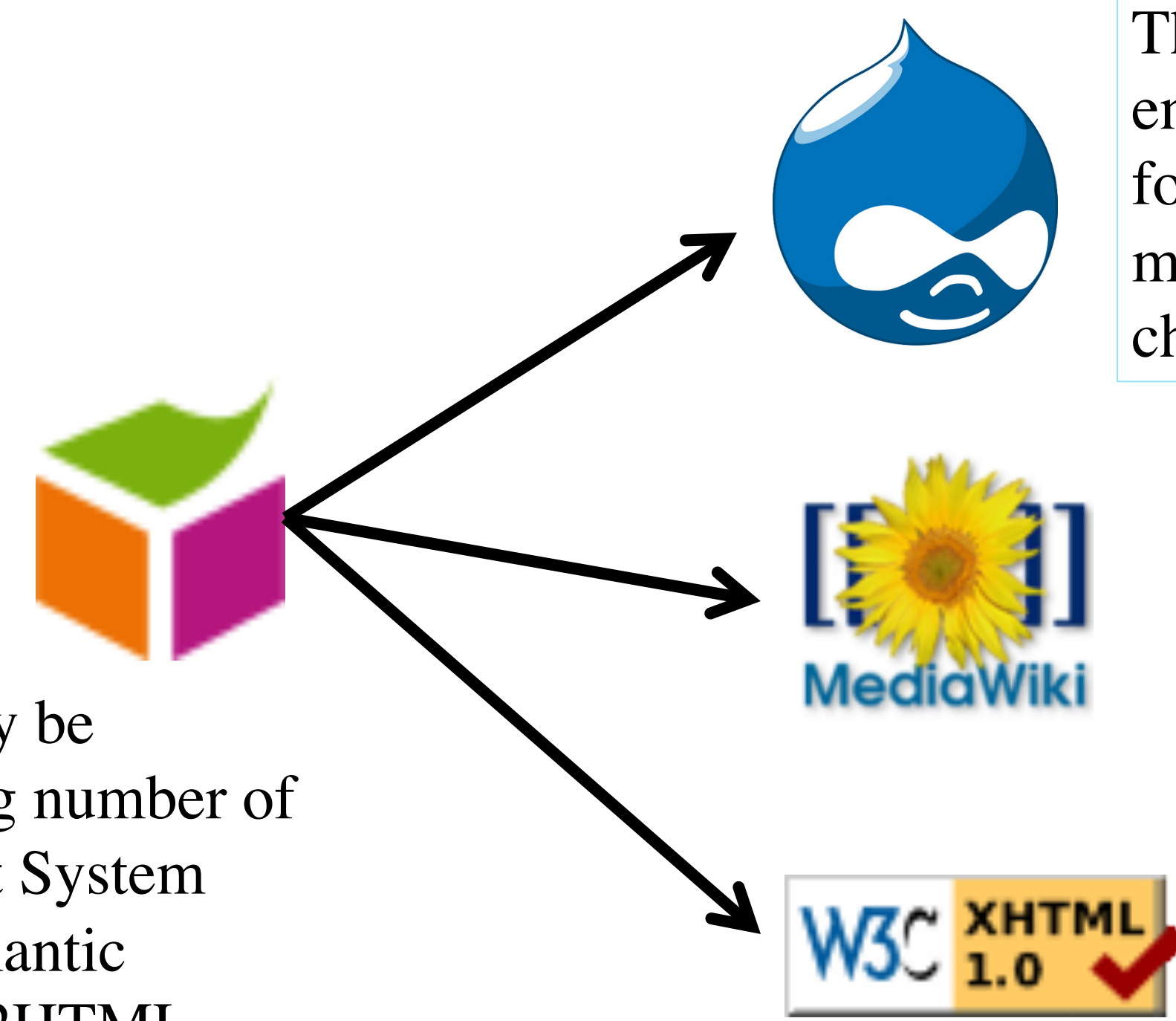
we present a number of real-world collections of semantically-
world RDF2HTML system as structured data and presented and
different domains (oceanography and solar sciences) are
al, MediaWiki, and a custom web portal written in Java, to
In addition, a single domain dataset is shared between two
system to offer distributed access and modification of content
vements to this and other systems will evolve distributed,
s multiple research groups.

software and services, we utilize shared modular ontologies
referencing and rules provided by triple stores and SPARQL
domain as well as shared terms into HTML will be presented to
and support reuse of existing terminologies. Custom forms
ces and edit existing instances to help with curation of

and editing of Semantic within a CMS



Linking Data between Data Portals, Faceted Browsing Services, and Content



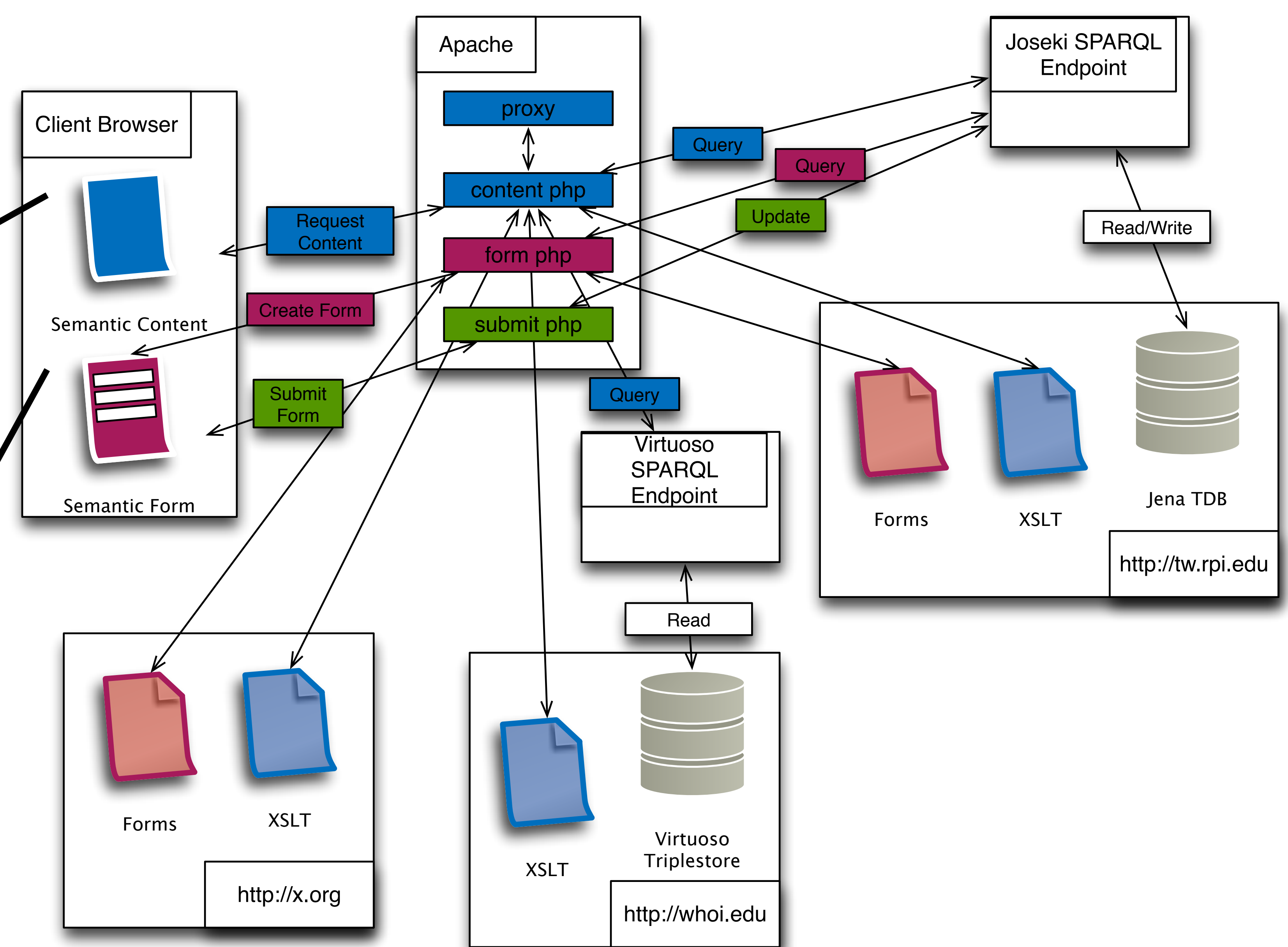
Semantic content may be
displayed in a varying number of
Content Management System
(CMS) using our semantic
technologies in RDF2HTML.

The Tetherless World Constellation web site, <http://tw.rpi.edu>, is created within
environment, as are some of our research projects. By writing three separate D
for creating and editing semantic content, one for displaying the semantic con
managing our semantic information for documents (Publications, presentation
chapters, journal entires, and more)

TWC collaborates with many different scientific communities, such as t
Atmospheric Regions (CEDAR – <http://cedarweb.hao.ucar.edu>). CEDA
provide services for their Solar Terrestrial Community. Included in this
of semantic content. This content is also available for the data access po
Observatory – <http://www.vsto.org>.

VSTO 3.0 – <http://www.vsto.org>, is being developed as a simple v
services, outside of any content management system. RDF2HTML
provide the visualization of semantic content related to the discov

From this diagram we can see the



And here, using another drupal module
called the TW Forms Module, we can
edit the instance data used to generate
this page.

Acknowledgments:

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Glossary:

- RPI/TWC – Rensselaer Polytechnic Institute / Tetherless World Constellation
- CMS – Content Management System
- XSL – Extensible Stylesheet Language
- RDFs – Resource Description Framework Schema
- RDFa – Resource Description Framework Attributes
- OWL – Web Ontology Language