Data

Connected devices

Services

Humans

World Wide Web
Where is RDF?

World Wide Web
RDF as a lingua franca

- to reach semantic interoperability
- integration and querying of data having heterogeneous formats
Publications on STTL


Publications on SPARQL-Generate


Lefrançois, Maxime; Zimmermann, Antoine; and Bakerally, Noorani. *Flexible RDF generation from RDF and heterogeneous data sources with SPARQL-Generate*. International Conference on Knowledge Engineering and Knowledge Management, 2016

Maxime Lefrançois, Antoine Zimmermann, Noorani Bakerally. *Génération de RDF à partir de sources de données aux formats hétérogènes*, Actes de la 17ème conférence Extraction et Gestion des Connaissances, EGC, Jan 2017, Grenoble, France
Agenda

Before the break: SPARQL-Generate
After the break: STTL

Management and browsing of existing RDF and non-RDF open data, including real-time sensor data
We will use (1/2)
We will use (2/2)
The Unified Code for Units of Measure in RDF – cdt:ucum and other UCUM Datatypes

“UCUM is a code system intended to include all units of measures being contemporarily used in international sciences, engineering, and business.”

@prefix cdt: <http://w3id.org/lindt/custom_datatypes#>.

<room> ex:area "102 m2"^^cdt:ucum .
<room> ex:temperature "21.0 Cel"^^cdt:ucum .
<wall> ex:thermalConductivity "0.27 W/(m2.K)"^^cdt:ucum.
<car> ex:speed "26.3 [mi_i]/h"^^cdt:ucum .