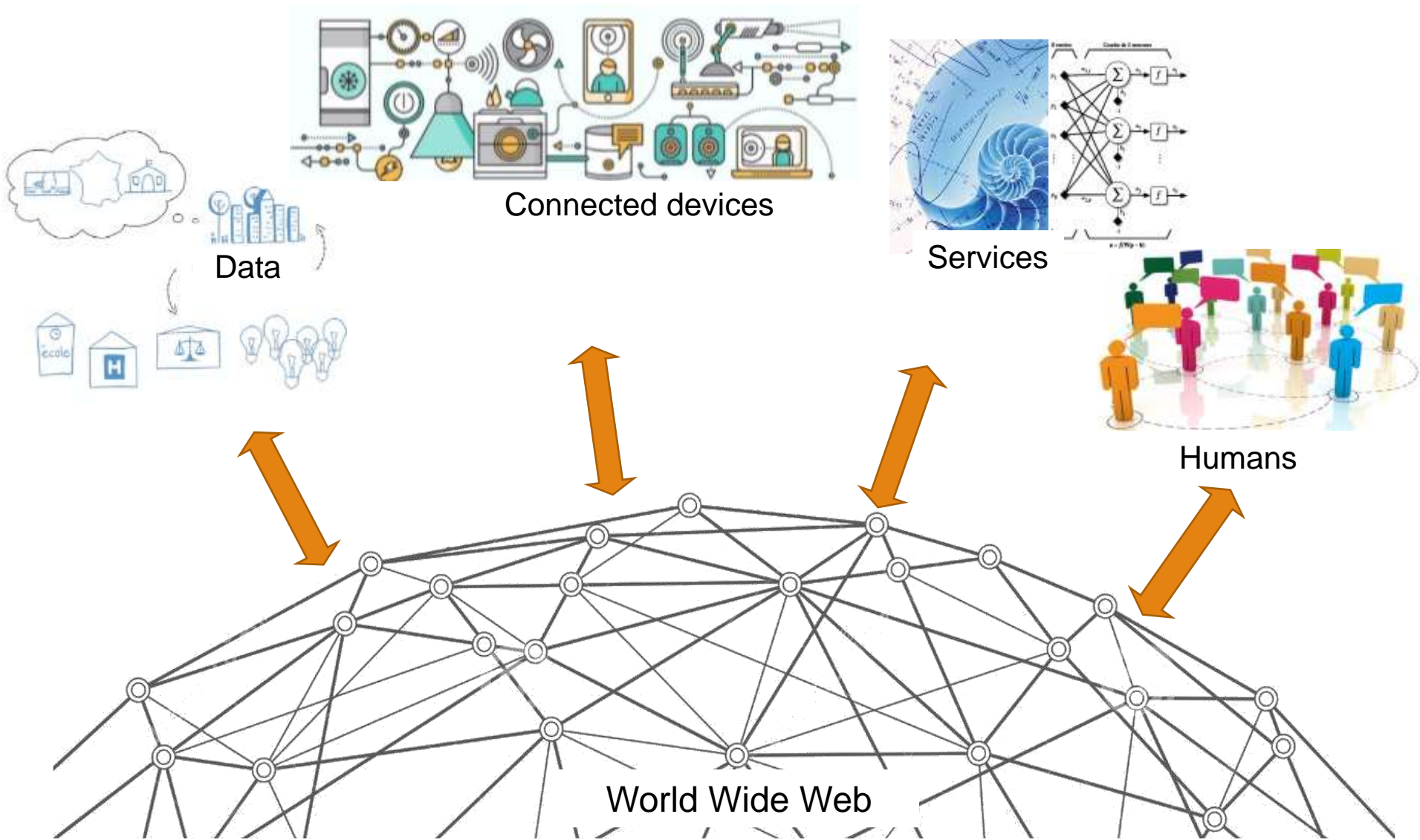


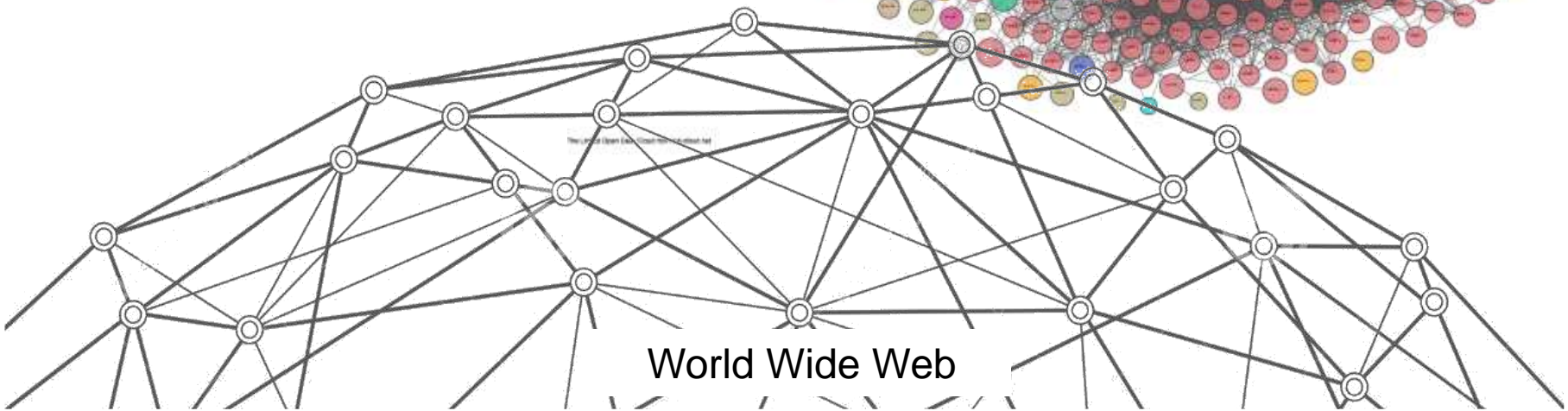
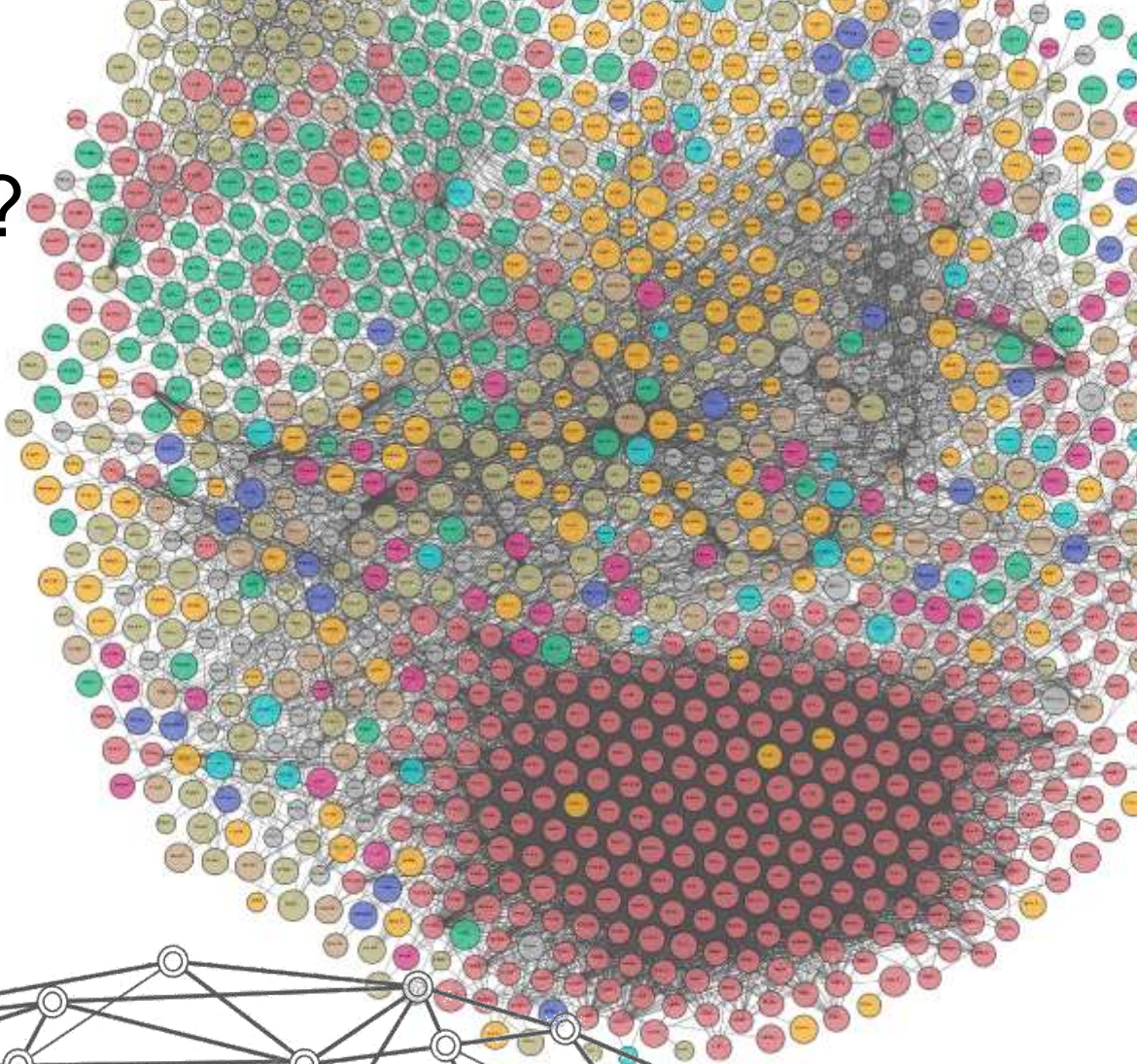
Tutorial ESWC 2018: From heterogeneous data to RDF graphs and back

[Olivier Corby](#), [Catherine Faron Zucker](#), [Maxime Lefrançois](#), [Antoine Zimmermann](#)





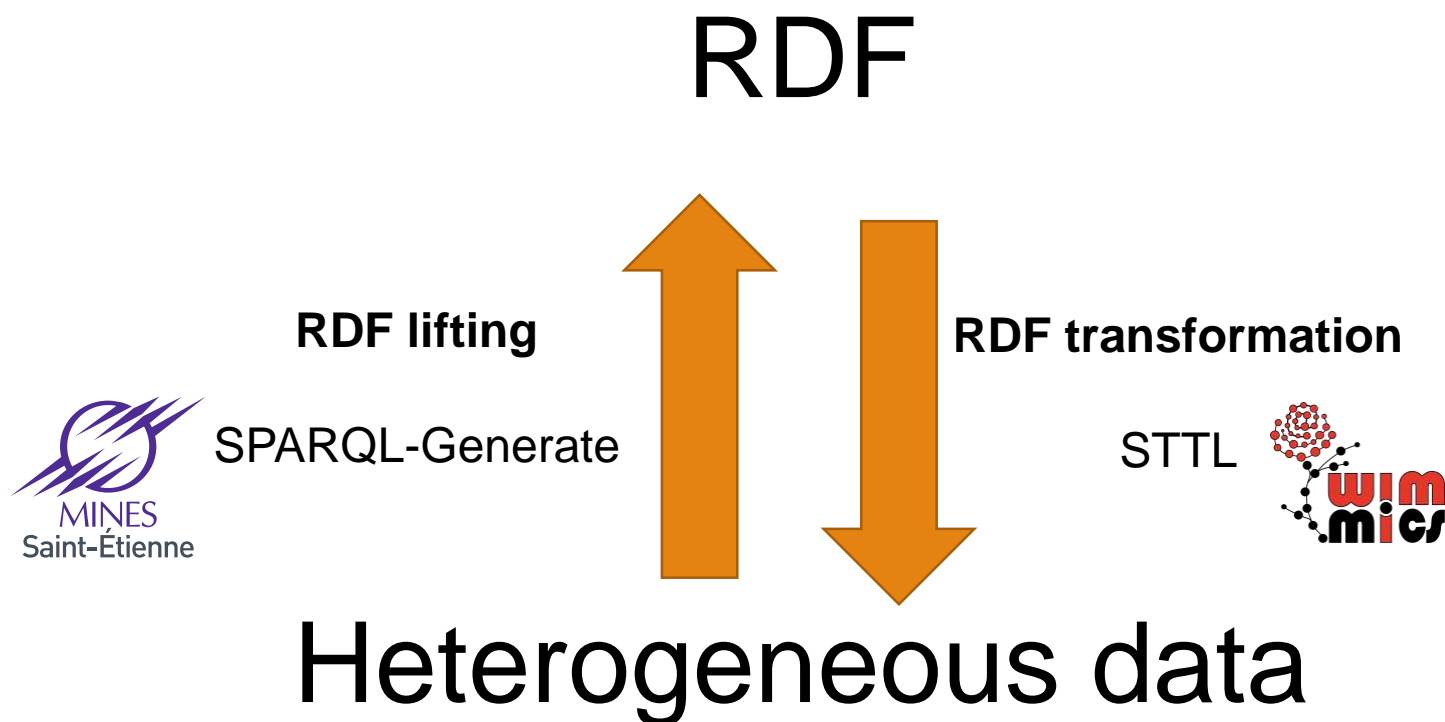
Where is RDF ?



World Wide Web

RDF as a lingua franca

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



Publications on STTL

Corby Olivier, Faron-Zucker Catherine and Gandon Fabien. *LDScript: a Linked Data Script Language*. International Semantic Web Conference. Springer, Cham, 2017.

Corby Olivier and Faron-Zucker Catherine. *STTL: a SPARQL-based transformation language for RDF*. International Conference on Web Information Systems and Technologies. 2015.

Publications on SPARQL-Generate

Lefrançois, Maxime; Zimmermann, Antoine; and Bakerally, Noorani. *A SPARQL extension for generating RDF from heterogeneous formats*. Extended Semantic Web Conference, ESWC, 2017.

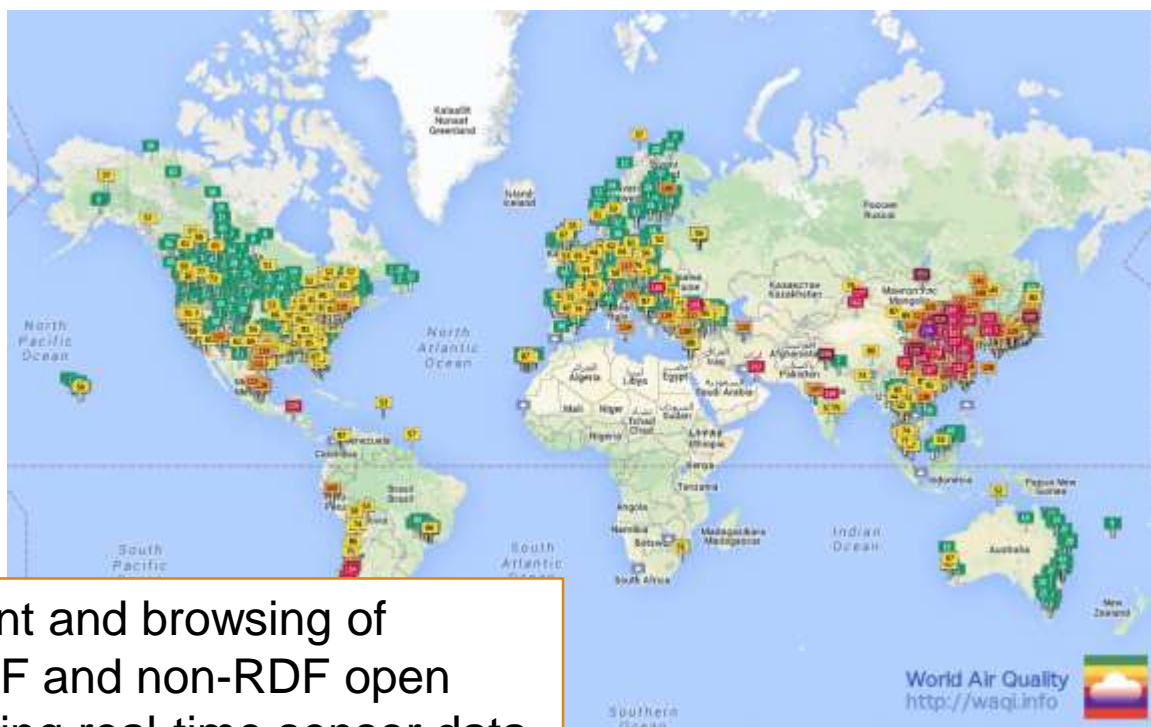
Lefrançois, Maxime; Zimmermann, Antoine; and Bakerally, Noorani. *Flexible RDF generation from RDF and heterogeneous data sources with SPARQL-Generate*. International Conference on Knowledge Engineering and Knowledge Management, 2016

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 (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 .
```