



# HLG-MOS 2022 Workshop

**Proposal 5: Linking and Querying Statistical Classifications through the Semantic Web Standards**

*Geneva, 22/11/2022*

# A practical use case

I use NACE activities and I want to add the corresponding ISIC activity codes.

Step 1: Download the correspondence table ISIC - NACE

Code to Code mapping

- TXT File (UNSD website) or XLS file (Eurostat web site)

Step 2: Integrate ISIC classification in my information system

I need to access the context of the codes (labels, notes)

Alternative: I can also query the classifications in RDF

- NACE in EU Vocabularies website
- ISIC in the FAO Caliper Platform

My Information System is not yet ready for consuming LOD

I'm not an expert with SPARQL Language

# Federated Search Engine

## Linking

Classifications + correspondences  
(UN, EU, national level)

- Standardised in [XKOS](#)
- Available in **RDF**
  - remotely in different **Triple Stores**
- Maintained by the group members

## Querying

### One single access

- **SPARQL-queries** (pre-defined)
  - Querying the **Triple Stores** remotely
- Aggregated search results in an interface
- Human-readable
  - contextual information, links to the classification items
- Machine-readable

# Timeline

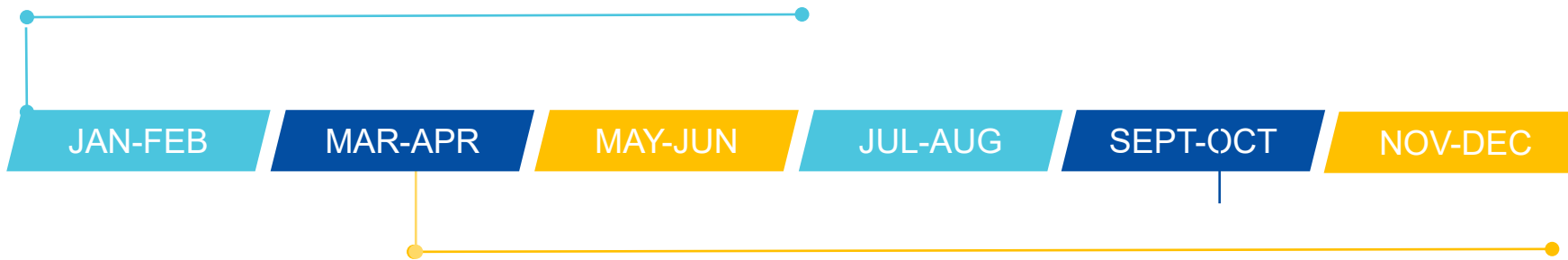
## LINKING

### Phase 1 project set-up



**WP 1.1** - Identifying the relevant classifications + correspondences

**WP 1.2** - XKOS/RDF datasets



## QUERYING

### Phase 2 Implementation



**WP 2.1** - SPARQL queries (specifications)

**WP 2.2** - Federated Search interface

**WP 2.3** - Documentation



**WP 3** - project management

# Benefits

Demonstrate the usefulness of Linked Open Data

- Improving accessibility, interoperability and reuse of statistical classifications

Better aligned to the need of the LOD community

Without interoperability, NSOs will continue

- Implementing solutions on their own (representation, formats)
  - Not being interoperable or reusable

Organisations committed

Eurostat, Hungarian Central Statistical Office, INSEE (France), Statistics Canada, ILO (International Labour Organization), CSO (Ireland)

# Thank you



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