

MURIC Natalie

Public Procurement Data Coordinator, Publications Office of the European Union

CREATION OF A SEMANTIC BASE FOR EUROPEAN PUBLIC PROCUREMENT

eProcurement Ontology and Reference data

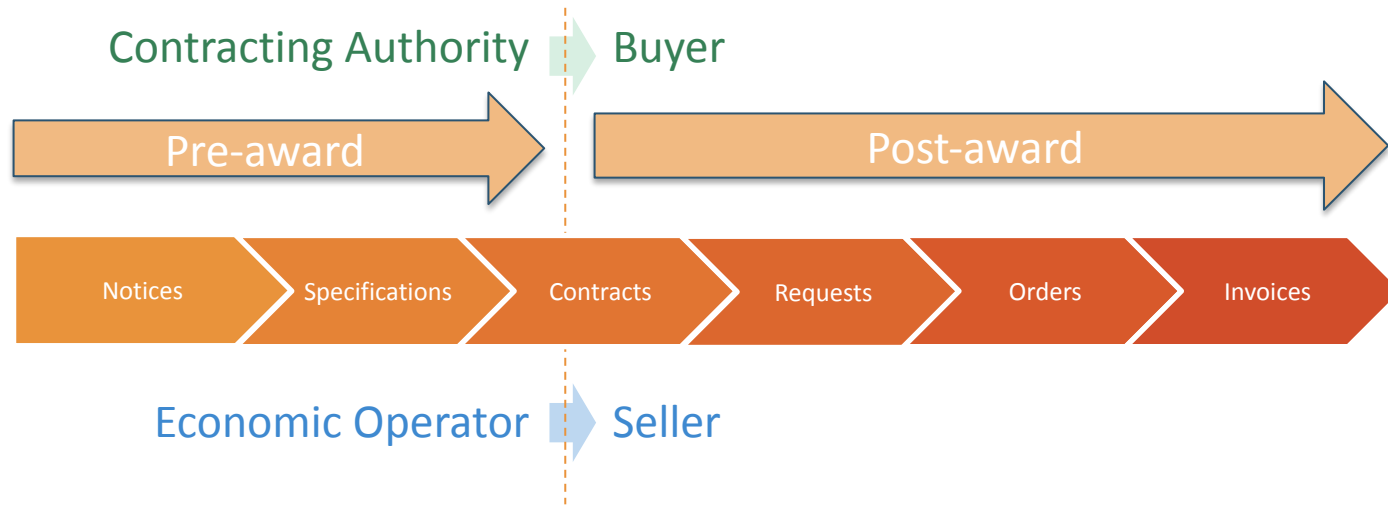
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THE EUROPEAN DATA CONFERENCE ON REFERENCE DATA AND SEMANTICS

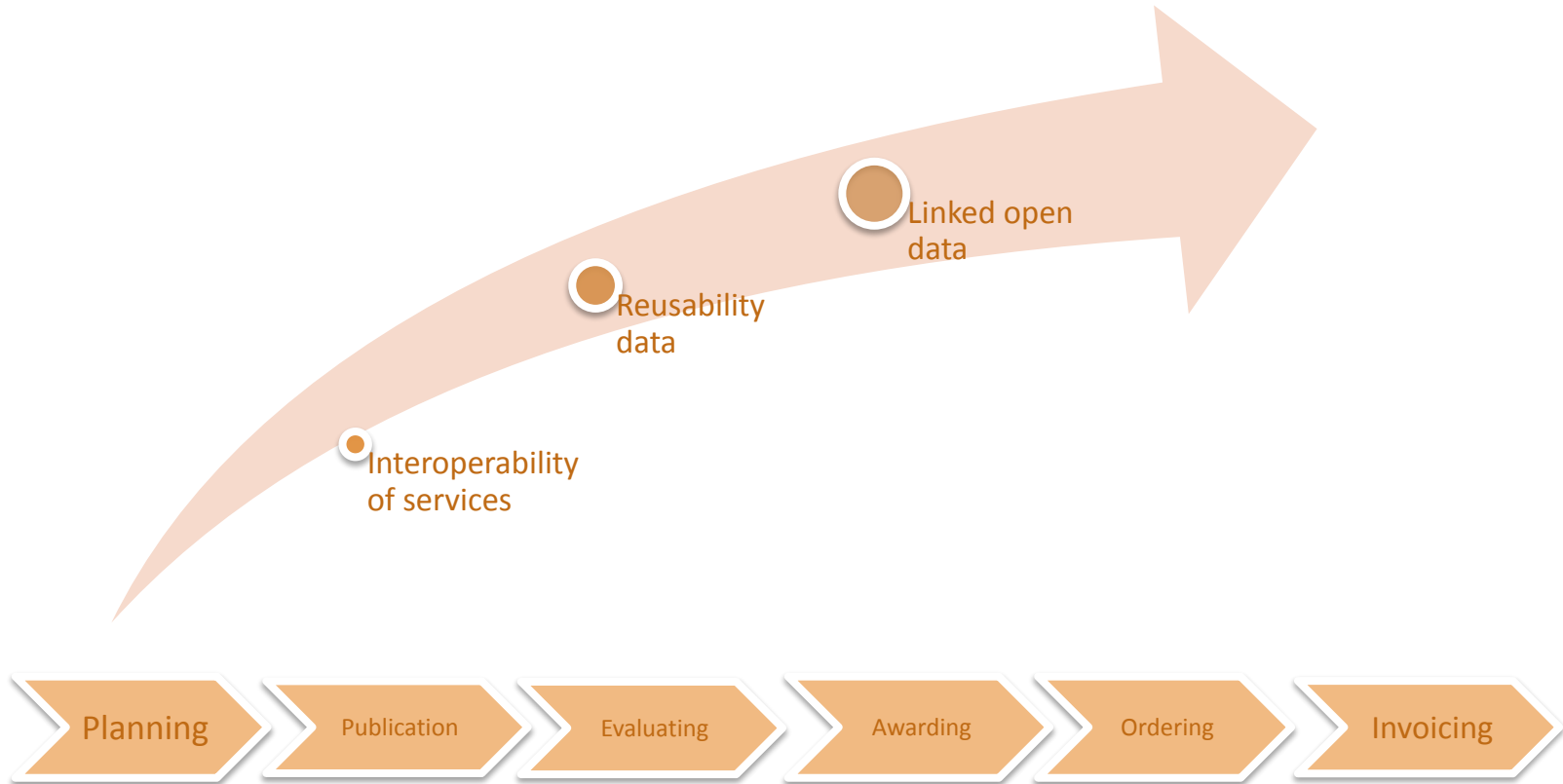
Introduction

Paper world: each part of the procurement life cycle defined separately in closed environments

Electronic xml world went in much the same direction



Need for common semantic base



Joint ISA² Action 5.1

European Public Procurement Interoperability Initiative



The eProcurement ontology

Provides:

- Common definitions of concepts
- Relationships between concepts
- Formal expression in OWL, Shacl shapes and Restrictions

Is about:

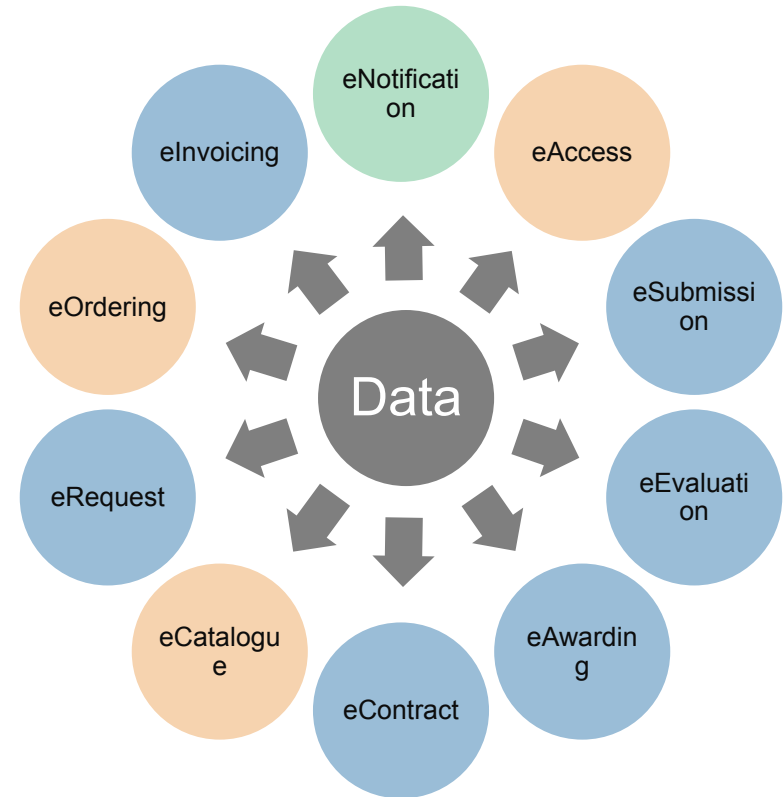
- Data and not processes

Does not provide:

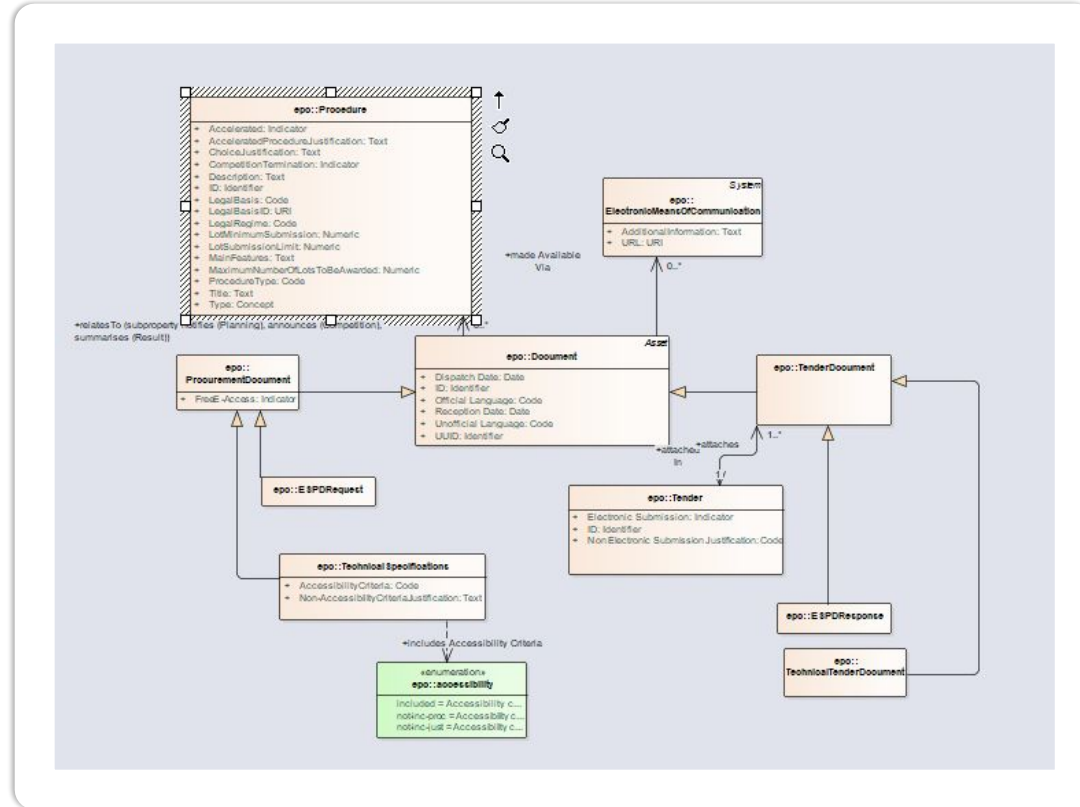
- Content

But:

- Allows for content in RDF



Relationships in the ontology



eProcurement code lists

2 types of code lists (Content)

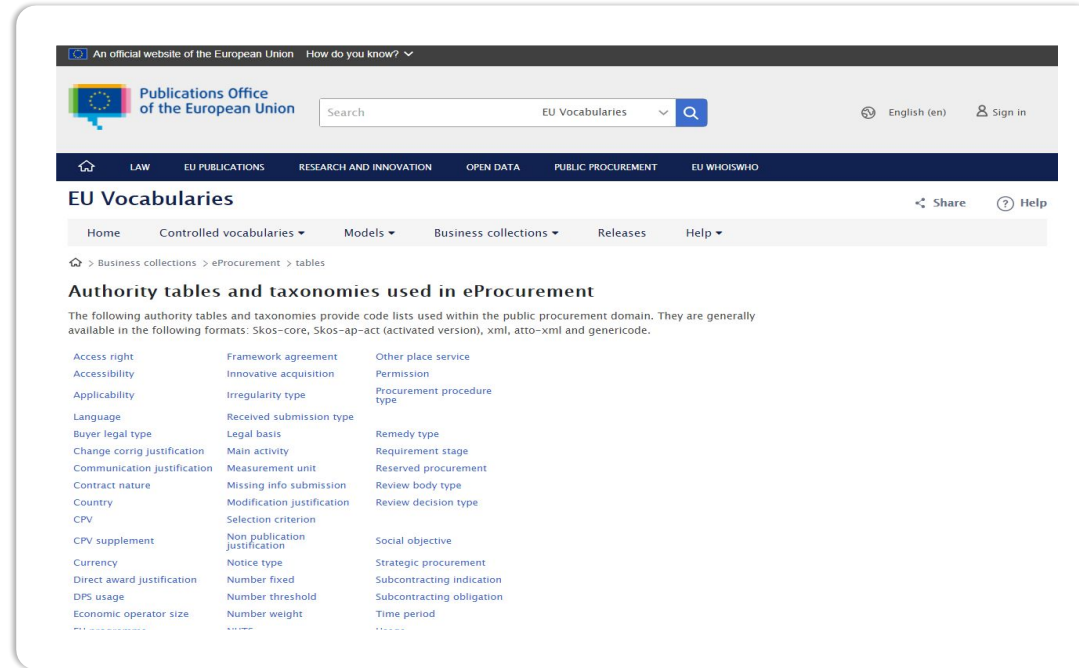
Business agnostic

- Not related to the procurement domain
- For example: countries, currencies, languages, etc.
- Can be used for any phase of eProcurement not phase specific

Business domain specific

- Related to the procurement domain
- Can be used for any phase of eProcurement not phase specific
- Examples: accelerated-procedure-justification, legal-basis

eProcurement code lists

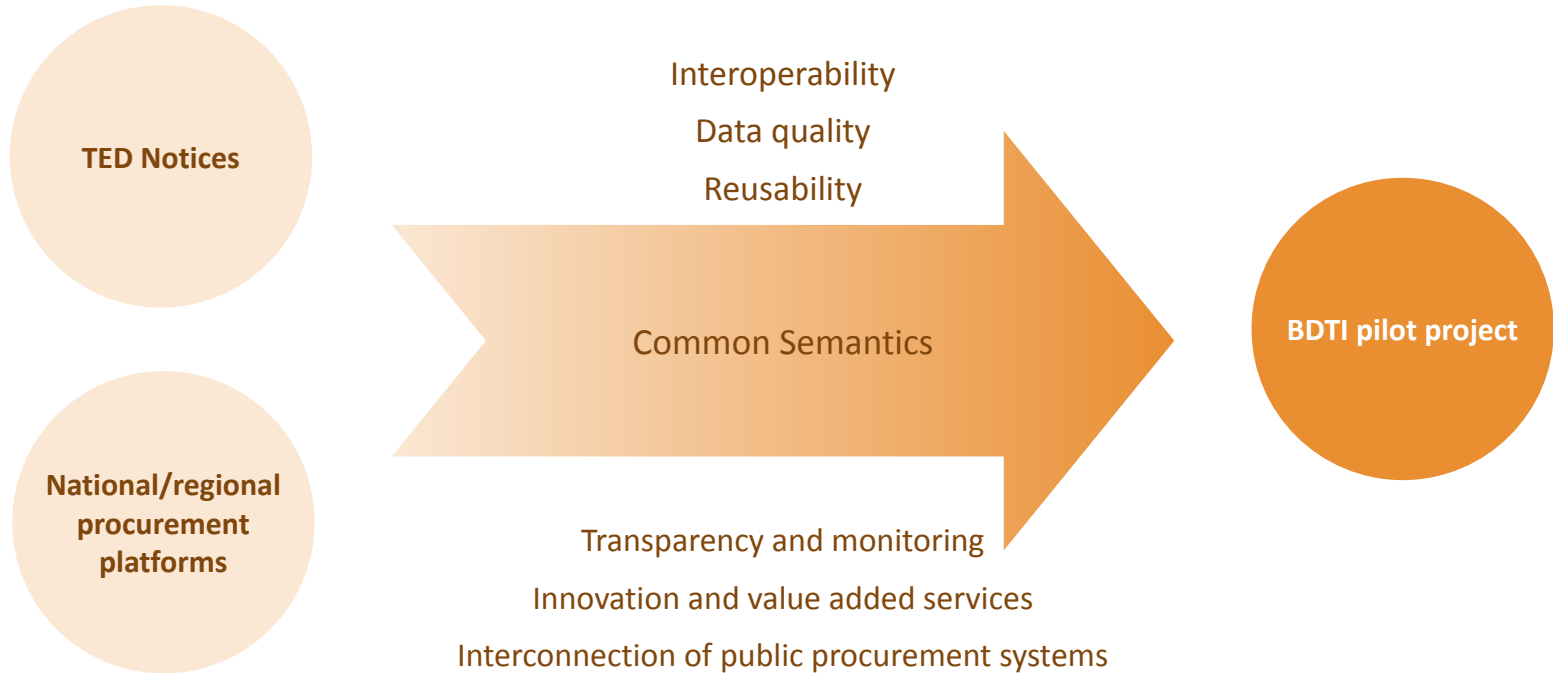


The screenshot shows the 'EU Vocabularies' page on the Publications Office of the European Union website. The page title is 'EU Vocabularies' and the breadcrumb trail is 'Business collections > eProcurement > tables'. The main heading is 'Authority tables and taxonomies used in eProcurement'. Below this, a paragraph states: 'The following authority tables and taxonomies provide code lists used within the public procurement domain. They are generally available in the following formats: Skos-core, Skos-ap-act (activated version), xml, atto+xml and genericcode.' A table lists 24 categories of authority tables and taxonomies, organized into three columns.

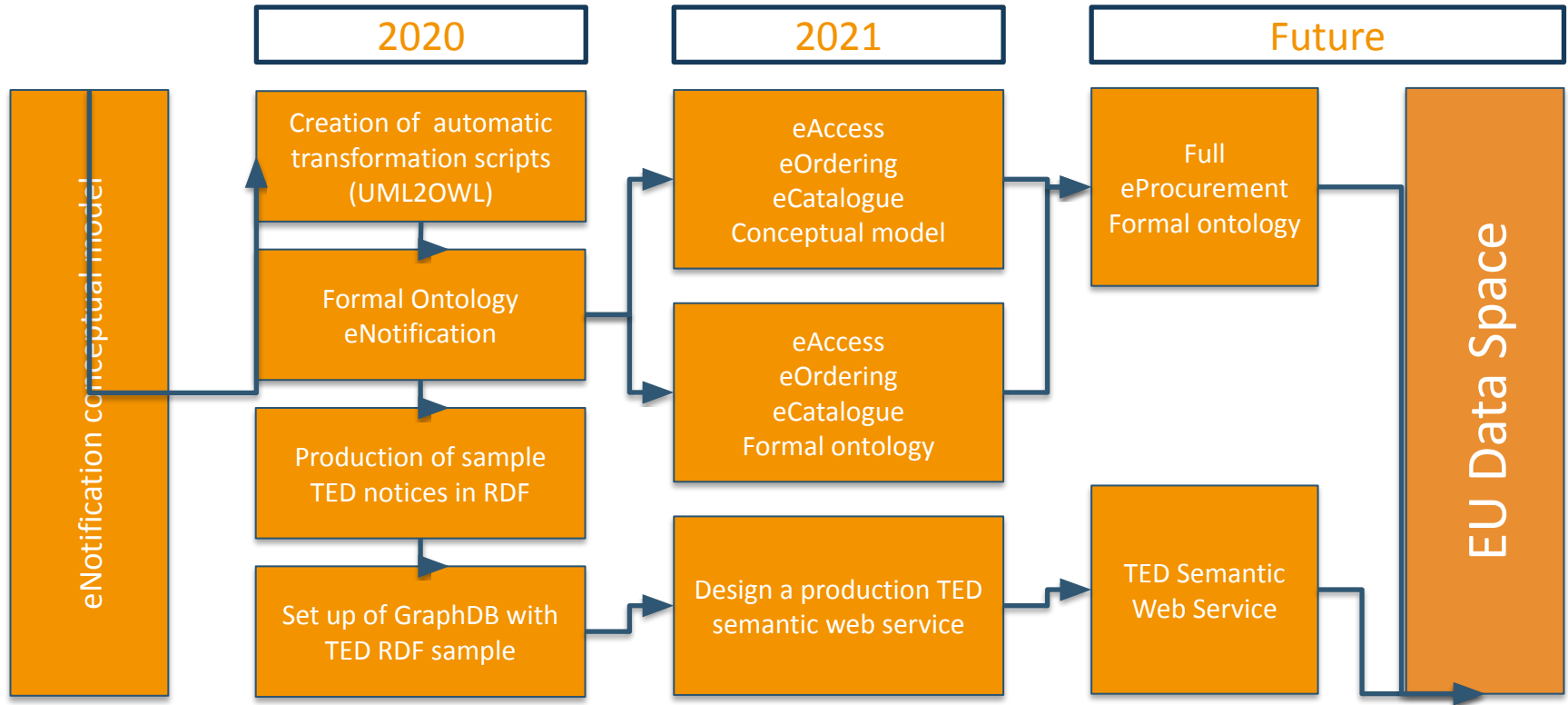
Access right	Framework agreement	Other place service
Accessibility	Innovative acquisition	Permission
Applicability	Irregularity type	Procurement procedure type
Language	Received submission type	
Buyer legal type	Legal basis	Remedy type
Change corrig justification	Main activity	Requirement stage
Communication justification	Measurement unit	Reserved procurement
Contract nature	Missing info submission	Review body type
Country	Modification justification	Review decision type
CPV	Selection criterion	
CPV supplement	Non publication justification	Social objective
Currency	Notice type	Strategic procurement
Direct award justification	Number fixed	Subcontracting indication
DPS usage	Number threshold	Subcontracting obligation
Economic operator size	Number weight	Time period
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<https://op.europa.eu/en/web/eu-vocabularies/e-procurement/tables>

The ontology contributes to the BDTI project



What has been achieved and where are we going



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