Council of the European Union
General Secretariat

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COUNCIL'S OPEN DATASETS

USER'S MANUAL

CONTENTS

1 INTRODUCTION

In April 2015, the Council of the EU released its first dataset as open data. It concerned the Council's voting results on legislative acts since the entry into force of the Lisbon Treaty, on 1 December 2009. This pilot project project was named CODI (Council's Open Data Initiative).

CODI-2 solution for publishing Linked Open Data for the Council is a continuation of the solution applied in CODI-1. CODI-2 concerns the following data:

- Metadata on requests for public access to documents (registered in DTA),
- Metadata of the Council's Public Register of documents,
- Linking between DTA, Public register and Voting results, and
- Linking to external sources.

The overall approach is very similar to CODI-1, but the new datasets provide additional data challenges (such as the management of controlled vocabularies and the relationships between the datasets) and additional technical challenges such as a larger volume.

During the project the initial independent treated datasets DTA and the Public Register got merged into one coherent data story. The already published dataset on the Voting Results has been assessed for integration. A straightforward connection was unfortunately not possible. The correct integration requires adaptations to the Voting Results dataset. Those are planned to be taken into account in the near future.

This document provides insight in the machine readable structure in which the data is made public. The dataset is published following Linked Open Data principles. The data items are identified according to a URI schema, the information structure (which properties and relationships, their semantics, etc.) is reflected in a CODI-2 vocabulary. This vocabulary reuse when possible and adequate elements from external vocabularies.

During the publication preparation process, the published data went through a data quality process. Problematic low quality data has been excluded, and where possible data quality improvements have been done. These activities have been performed in order to provide the user a more coherent and complete dataset. Data quality is an ongoing activity. It may require future updates to the vocabulary and the supporting taxonomies.

This document is structured as follows: the second chapter describes the provided data, the used controlled vocabularies and the data model (both intentionally as the machine readable instance of it). The third chapter explores the data using SPARQL queries that reflect the tables of the Council's Annual Report on Access to Documents. In this same

chapter, there is a separate section with basic SPARQL queries that might help the user in exploring the datasets.

2 MACHINE READABLE DATA

This chapter provides insight in all the data modeling and transformation aspects to create the machine readable data that has been published as open data.

2.1 Ontology

The ontology creation task concerns the modeling of the information the datasets contain. The followed modeling principles are:
- modeling the information, not the application use,
- reuse, where possible, existing vocabularies and ontologies, and
- document modeling decisions

The ontology contains 3 aspects:
- A graphical overview of the information structure as it is being published,
- A documented ontology describing the information structure. It will come as an RDF/OWL file.
- An end-user description of the disclosed information with a mapping to the information structure

2.1.1 REUSED DOMAIN MODELS

The ontology reuses and takes inspiration of these models:
- Dublin Core (http://dublincore.org/documents/dcmi-terms/): Dublin Core metadata vocabulary has been designed for document publications. Hence for the Public Register modeling the overlap exists.
- FRBR (http://archive.ifla.org/VII/s13/frbr/frbr_current3.htm): FRBR is a generic abstract structuring of publications. Its main principles of Work, Expression and Manifestation are applied for the Public Register modeling
- Cellar (http://publications.europa.eu/mdr/cdm/index.html): The Cellar ontology from the Publications Office is based on FRBR. Some documents produced and published by GSC are made publicly available via the Publications Office channels. Therefore the interest in the model goes beyond the FRBR instantiation: some fields like the inter-institutional code can be reused.
- SKOS (https://www.w3.org/2004/02/skos/): For the controlled vocabularies SKOS is being used to represent the concept schemes and their content.

In addition to the inspiration and direct reuse of the above vocabularies, actual taxonomies managed by the Publications Office are being reused. For these see section 2.3 Controlled Vocabularies.

2.1.2 GRAPHICAL OVERVIEW

The data model is depicted below. The data model covers the data of the requests for documents and of the Public Register. The future integration with the voting results has not been included.
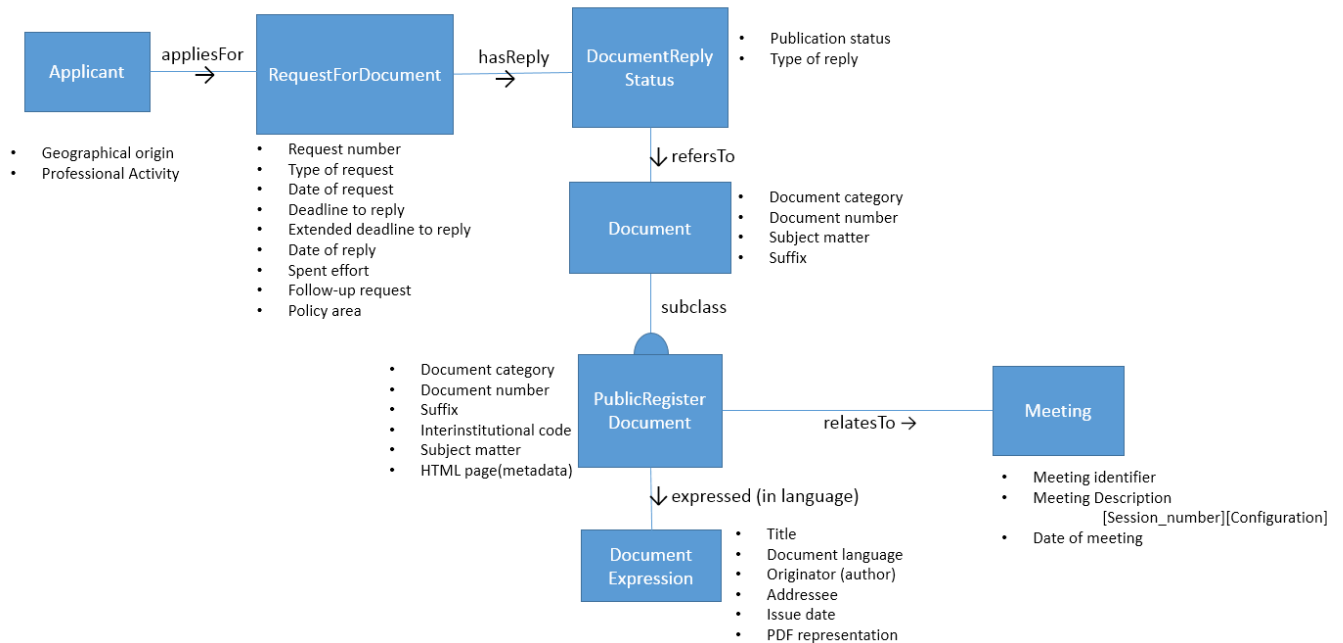
2.1.3 TABLE OVERVIEW

- prefix codi = <http://data.consilium.europa.eu/def/codi/>
- prefix dcterms = <http://purl.org/dc/terms/>
- prefix foaf = <http://xmlns.com/foaf/0.1/>
- prefix owl = <http://www.w3.org/2002/07/owl#>
- prefix cellar = < http://publications.europa.eu/ontology/cdm#>
- prefix schema = <https://schema.org/>

The following table provides a condensed overview of the model.

Class	Property	URI	Description/ Usage Note	Subclass/ Sub-property of
Applicant		foaf:Agent	An applicant is a citizen/legal person that applies for public access to documents To completely anonymize personal data for each request an applicant is generated.	
	Geographical origin	codi:geographicalOrigin		
	Professional Activity	codi:professionalActivity		
	appliesFor	codi:appliesFor	The request for access that the agent has submitted	
RequestForDocument		codi:RequestForDocument		
	Request number	dcterms:identifier		
	Type of request	codi:requestType		dcterms:type
	Date of request	codi:dateAccepted		dcterms:dateAccepted
	Deadline to reply	codi:deadlineToReply		
	Extended deadline to reply	codi:extendedDeadlineToReply		
	Date of reply	codi:dateReply		dcterms:issued
	Effort spent	codi:spentEffort		dcterms:extent
	Follow-up request	codi:hasFollowupRequest		
	hasReply	codi:hasReply		
	Policy area	codi:policyArea		
DocumentReplyStatus		codi:DocumentReplyStatus		

Class	Property	URI	Description/ Usage Note	Subclass/ Sub-property of
	Publication status	codi:replyPublicationStatus	The publication status of the document at the time of the response	
	Type of reply	dcterms:accessRights		
	refersTo	codi:refersTo		dcterms:references
Document		codi:Document		cellar:work dcterms:Bibliographic Resource
	Document number	dcterms:identifier		
	Suffix	codi:suffix		
	Subject matter	dcterms:subject		
	document category	codi:documentCategory		
		owl:sameAs	When the doc exists in the public register, this links to the public identifier of the doc	
PublicRegiste rDocument		codi:PublicRegisterDocum ent		
	Document Number	dcterms:identifier		
	Document category	codi:documentCategory		
	Suffix	codi:documentSuffix		
	Interinstitutional code	codi:interinstitutionalCode	The code used to identify a document within the EU (connects to cellar)	cellar:procedure_cod e_interinstitutional_nu mber_procedure
	Subject matter	dcterms:subject		
	HTML page (metadata)	foaf:page		
	expressed	codi:expressed		cellar:work_has_expr ession

Class	Property	URI	Description/ Usage Note	Subclass/ Sub-property of
DocumentExp ression		codi:DocumentExpression		cellar:expression
	Title	dcterms:title		
	Document language	dcterms:language		cellar:expression_use s_language
	Originator (author)	dcterms:creator		
	Addressee	dcterms:audience		
	Issue Date	dcterms:issued		
	PDF representation	foaf:page		
		codi:relatesTo	Relates to the meeting	
Meeting		schema:BusinessEvent		
	Date of Meeting	codi:dateOfMeeting		
	Meeting Description	dcterms:description		

2.2 URI Schema

This section describes the basic principles/rules that were followed for the URIs creation.

2.2.1 DOMAINS

The following 2 domains are being used to construct the RDF representation of the data.
- codi-id = <http://data.consilium.europa.eu/id/>
- codi-def = http://data.consilium.europa.eu/def/

2.2.2 GENERAL PRINCIPLES

The ontological/terminological level are within the *codi-def* space, whereas the data items are within the *codi-id* space. The choice is also supported by the expected change rate of the items belonging to a topic.

Topic	Space	Expected change rate
Class	codi-def	low
Property	codi-def	low
taxonomy	codi-def	Low
Concept	codi-id	medium
Datasets	codi-id	medium
a data-entry	codi-id	high

The following table provides the details per topic.

Topic (class/property)	Scheme	Example
Class instance	{Codi-id}/{category}/{id}	Each instance is categorized according to a category. Within that category the instance has an unique identifier Categories = {request, agent, document, documentreply, meeting}
DTA request	{Codi-id}request/{id}	http://data.consilium.europa.eu/id/request/18818
DTA agent	{Codi-id}/agent/{id}	http://data.consilium.europa.eu/id/applicant/18426
DTA document status	{Codi-id}/documentstatus/{requestid}/{DTAdocid}	http://data.consilium.europa.eu/id/documentstatus/30551/112052
DTA document	{Codi-id}/document/{id}	http://data.consilium.europa.eu/id/document/112052
PubReg Document	{Codi-id}/document/{id}	http://data.consilium.europa.eu/id/document/ST-8286-2010-INIT
PubReg DocumentExpression	{Codi-id}/document/{id}/{lan}	http://data.consilium.europa.eu/id/document/ST-8286-2010-INIT/en

Topic (class/property)	Scheme	Example
property of the document class	{Codi-def}/codi/{property}	http://data.consilium.europa.eu/def/codi/suffix
A class in the DTA ontology	{Codi-def}/codi/{name-class}	http://data.consillium.europa.eu/def/codi/RequestForDocument
A property in the DTA ontology	{Codi-def}/codi/{name-property}	http://data.consilium.europa.eu/def/codi/deadlineToReply
A taxonomy	{Codi-def}taxonomy/{name-taxonomy}	http://data.consilium.europa.eu/def/taxonomy/policyarea

2.3 Controlled Vocabularies

The publishing of the datasets requires the publishing of several controlled vocabularies. Controlled Vocabularies will be published as independent datasets. These datasets are supporting datasets for the datasets which the CODI-2 project publishes. Publishing them independently allows them to be reused in future publications (internally as externally the Council).

Controlled vocabularies are published according the SKOS standard.

The taxonomies are available in the SPARQL endpoint, each of them in an independent graph.

2.3.1 CODI-2 SPECIFIC SUPPORTING TAXONOMIES

The Council specific supporting taxonomies are enumerated in the table below.

Taxonomy Title	Graph name (skos:inScheme)
Geographical Origin	http://data.consilium.europa.eu/def/taxonomy/GeographicalOrigin
Request Type	http://data.consilium.europa.eu/def/taxonomy/RequestType
Type Of Reply	http://data.consilium.europa.eu/def/taxonomy/TypeOfReply
Document Publication Status	http://data.consilium.europa.eu/def/taxonomy/DocumentPublicationStatus
Interinstitutional Code	http://data.consilium.europa.eu/def/taxonomy/InterinstitutionalCode
Professional Activity	http://data.consilium.europa.eu/def/taxonomy/ProfessionalActivity
Council Document Suffix	http://data.consilium.europa.eu/def/taxonomy/CouncilDocumentSuffix

Policy Area	http://data.consilium.europa.eu/def/taxonomy/PolicyArea
Subject Matters	http://data.consilium.europa.eu/def/taxonomy/SubjectMatter
Document Category	http://data.consilium.europa.eu/def/taxonomy/DocumentCategory

2.3.2 EXTERNAL SUPPORTING TAXONOMIES

Another set of already existing external supporting taxonomies is being used and are attached below. In the current version of the data the following external taxonomies are being used:

Taxonomy Title	Graph name/notes
Countries	http://publications.europa.eu/resource/authority/country
Languages	http://publications.europa.eu/resource/authority/language
Corporate Bodies	*used within DCAT-AP Dataset Descriptions*

There are other taxonomies that will be used in the future, such as:

Taxonomy title	Graph name/notes
Data theme	*used within DCAT-AP Dataset Descriptions*
Continents	Originates from the *Publications Office* and might be linked to the already used taxonomy *Countries* which comes from the same source.

3 SPARQL EXAMPLES

3.1 Report queries

The Council receives requests for public access to documents from citizens or legal persons from all over the world. These requests are managed via the application DTA. Based on operational data (who, when, what, response), the Council publishes an annual report summarizing information about the requests.[1] The ambition of this project is to publish anonymized operational data as Linked Data so that the tables of the annual report can be created using SPARQL queries.

The Council has selected information that can be made public. In the document "Understanding the Council's open datasets" a full explanation is given about the published data. The published information is about agents that put forward a request for access to documents and the answer that is given to them. Because of privacy and security, the published information is anonymized prior to publication.

The queries below are a starting point for obtaining the results used in the annual report. In order to visualize the results of the queries, YASGUI is used. The results have been reformatted using the pivot table option so that they conform more to the presentation of the tables as in the printed previous documents.

3.1.1 NUMBER OF APPLICANTS PURSUANT TO REGULATION 1049/2001

```
PREFIX codi: <http://data.consilium.europa.eu/def/codi/>
PREFIX skos:<http://www.w3.org/2004/02/skos/core#>

select  year(?date) count( distinct ?r)
where {
   ?r codi:dateAccepted ?date.
   ?r codi:requestType ?type.
   FILTER(str(year(?date)) >= "2011")

} group by year( ?date ) order by year(?date)
```

---

[1] Officially entitled: "ANNUAL REPORT OF THE COUNCIL ON THE IMPLEMENTATION OF REGULATION No 1049/2001 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 30 MAY 2001 REGARDING PUBLIC ACCESS TO EUROPEAN PARLIAMENT, COUNCIL AND COMMISSION DOCUMENTS". See list of previous annual reports.

Output						
Year	**2011**	**2012**	**2013**	**2014**	**2015**	**2016**
No. of app.	2143	1894	2238	2393	2810	626

```
PREFIX codi: <http://data.consilium.europa.eu/def/codi/>
PREFIX skos: <http://www.w3.org/2004/02/skos/core#>

select year(?date) ?cl count(?r)
where {
   ?r codi:dateAccepted ?date.
   ?r codi:requestType ?c.
   ?c skos:prefLabel ?cl.
   FILTER(str(year(?date)) >= "2011")

} group by year( ?date ) ?cl order by year( ?date )
```

Output

Year	2011		2012		2013		2014		2015		2016	
No.of.app	27	2116	23	1871	26	2212	40	2353	24	2786	3	623
Type	confirmatory application	initial request	confirmatory application	initial request	confirmatory application	initial request	confirmatory application	initial request	confirmatory application	initial request	confirmatory application	initial request

3.1.2 NUMBER OF DOCUMENTS REQUESTED BY INITIAL APPLICATIONS

```
PREFIX codi: <http://data.consilium.europa.eu/def/codi/>
PREFIX skos:<http://www.w3.org/2004/02/skos/core#>

select year(?date) count(distinct ?doc)
where {
   ?r codi:dateAccepted ?date.
   ?r codi:requestType ?c.
   ?c skos:notation "I".
   ?r codi:hasReply ?reply.
   ?reply codi:refersTo ?doc.
   FILTER(str(year(?date)) >= "2011")

} group by year( ?date ) order by year( ?date )
```

Year	2011	2012	2013	2014	2015	2016
Documents requested	9162	6234	6647	8433	11339	1930

3.1.3 DOCUMENTS RELEASED BY THE GSC AT THE INITIAL STAGE

```
PREFIX codi: <http://data.consilium.europa.eu/def/codi/>
PREFIX skos:<http://www.w3.org/2004/02/skos/core#>

select year(?date) count(distinct ?doc) ?status
where {
   ?r codi:dateAccepted ?date.
   ?r codi:requestType ?c.
   ?c skos:notation "I".
   ?r codi:hasReply ?reply.
   ?reply codi:refersTo ?doc.
   ?reply codi:replyPublicationStatus ?status.
   FILTER(str(year(?date)) >= "2011")
   FILTER(?status !=
<http://data.consilium.europa.eu/id/taxonomy/DocumentPublicationStatus/concept/refused>)

} group by year( ?date ) ?status order by year( ?date )
```

Year Status	2011	2012	2013	2014	2015	2016	Total
Partial access	889	985	666	661	1053	101	**4355**
Public	7310	4373	4772	6335	9263	1517	**33570**
Totals	**8199**	**5358**	**5438**	**6996**	**10316**	**1618**	**37925**

3.1.4 NUMBER OF CONFIRMATORY APPLICATIONS

```
PREFIX codi: <http://data.consilium.europa.eu/def/codi/>
PREFIX skos:<http://www.w3.org/2004/02/skos/core#>

select year(?date) as ?year count(?r) as ?confirmapp
where {
  ?r codi:dateAccepted ?date.
  ?r codi:requestType ?c.
  ?c skos:notation "C".
  FILTER(str(year(?date)) >= "2011")

} group by year( ?date ) order by year( ?date )
```

Output

Year	2011	2012	2013	2014	2015	2016
Confirmatory app.	27	23	26	40	24	3

3.1.5 NUMBER OF DOCUMENTS REQUESTED BY CONFIRMATORY APPLICATIONS

```
PREFIX codi: <http://data.consilium.europa.eu/def/codi/>
PREFIX skos:<http://www.w3.org/2004/02/skos/core#>

select year(?date) as ?Year count(?doc) as ?NumberOfDocuments
where {
  ?r codi:dateAccepted ?date.
  ?r codi:requestType ?c.
  ?c skos:notation "C".
  ?r codi:hasReply ?doc.
  FILTER(str(year(?date)) >= "2011")

} group by year( ?date ) order by year( ?date )
```

Output

Year	2011	2012	2013	2014	2015	2016
NumberOfDocuments	60	78	64	399	127	4

3.1.6 NUMBER OF DOCUMENTS RELEASED FOLLOWING CONFIRMATORY APPLICATIONS

```
PREFIX codi: <http://data.consilium.europa.eu/def/codi/>
PREFIX skos:<http://www.w3.org/2004/02/skos/core#>

select year(?date) count(?doc) ?status
where {
   ?r codi:dateAccepted ?date.
   ?r codi:requestType ?c.
   ?c skos:notation "C".
   ?r codi:hasReply ?reply.
   ?reply codi:refersTo ?doc.
   ?reply codi:replyPublicationStatus ?status.
   FILTER(str(year(?date)) >= "2011")
   FILTER(?status !=
<http://data.consilium.europa.eu/id/taxonomy/DocumentPublicationStatus/concept/refused>)

} group by year( ?date ) ?status order by year( ?date )
```

Output

Year Status		2011	2012	2013	2014	2015	2016	Totals
Partial access		15	17	29	132	38	0	**231**
Public		26	10	6	27	23	3	**95**
Totals		**41**	**27**	**35**	**159**	**61**	**3**	**326**

3.1.7 RATE OF DOCUMENT RELEASED FOR THE PROCEDURE AS A WHOLE

```
PREFIX codi: <http://data.consilium.europa.eu/def/codi/>
PREFIX skos:<http://www.w3.org/2004/02/skos/core#>

select year(?date) count(?doc) ?status
where {
   ?r codi:dateAccepted ?date.
   ?r codi:hasReply ?reply.
   ?reply codi:refersTo ?doc.
   ?reply codi:replyPublicationStatus ?status.
   FILTER(str(year(?date)) >= "2011")

} group by year( ?date ) ?status order by year( ?date )
```

Year	2011	2012	2013	2014	2015	2016	
Status							Totals
Partial Access	1120	1131	922	897	1298	112	**5480**
Public	8007	4860	5547	7541	10939	1720	**38614**
Refused	1164	1176	1618	2074	1638	410	**8080**
Totals	**10291**	**7167**	**8087**	**10512**	**13875**	**2242**	**52174**

3.1.8 NUMBER OF DOCUMENTS REFERRED TO IN THE PUBLIC REGISTER

```
prefix owl: <http://www.w3.org/2002/07/owl#>
prefix codi: <http://data.consilium.europa.eu/def/codi/>
select year( ?date) count(?doc)
where {
  ?doc a codi:PublicRegisterDocument.
  ?doc codi:expressed ?exp.
  ?exp <http://purl.org/dc/terms/issued> ?date.
  FILTER(str(year(?date)) >= "2011")
}group by year( ?date ) order by year( ?date )
```

Year	2011	2012	2013	2014	2015	2016	Totals
Totals	97532	94760	91023	104713	84217	5906	**478155**

3.1.9 NUMBER OF PUBLIC/DOWNLOADABLE DOCUMENTS

```
prefix codi: <http://data.consilium.europa.eu/def/codi/>
prefix foaf: <http://xmlns.com/foaf/0.1/>
select year( ?date) count( distinct ?page)
where {
  ?doc a codi:PublicRegisterDocument.
  ?doc <http://data.consilium.europa.eu/def/codi/expressed> ?expression.
  ?expression foaf:page ?page.
  ?expression <http://purl.org/dc/terms/issued> ?date.
  FILTER(str(year(?date)) >= "2011")
}group by year( ?date ) order by year( ?date ).
```

Output

Year	2011	2012	2013	2014	2015	2016	Totals
Totals	77390	76029	76107	87760	68233	4760	**390282**

3.1.10 PROFESSIONAL PROFILE OF THE APPLICANTS (INITIAL APPLICATIONS)

```
PREFIX codi: <http://data.consilium.europa.eu/def/codi/>
PREFIX skos:<http://www.w3.org/2004/02/skos/core#>
PREFIX foaf: <http://xmlns.com/foaf/0.1/>

select year( ?date) ?profparent ?prof2 count(distinct ?r)
where {
  ?agent a foaf:Agent.
  ?agent codi:professionalActivity ?prof_uri.
  ?prof_uri skos:prefLabel ?prof2.
  optional {?prof_uri skos:broader ?broader.
         ?broader skos:prefLabel ?profparent.}
  ?agent codi:appliesFor ?r.
  ?r codi:dateAccepted ?date.
  ?r codi:requestType <http://data.consilium.europa.eu/id/taxonomy/RequestType/concept/i>.
  FILTER(str(year(?date)) >= "2010")

} group by ?prof2 ?profparent year( ?date ) order by year( ?date )
```

Output

Year / Prof-activity		2010	2011	2012	2013	2014	2015	2016	Totals
academic world	library	32	25	12	13	19	12		113
	university research	845	600	422	407	430	721	139	3564
civil society	consultant	301	236	379	534	568	436	49	2503
	environmental lobby	36	4	2	1	1	1	1	46
	industrial/commercial sector	363	249	240	372	336	373	29	1962
	NGOs	105	43	68	104	99	130	24	573
	other institutions	52	65	53	59	70	81	31	411
null	agency	13	2	6	10	12	13	3	59
	european agency	19	13	10	2	3	1	2	50
	international organization	29	17	17	15	7	16	4	105
	journalist	67	155	69	47	116	148	95	697
	lawyer	286	242	164	156	161	268	35	1312
	lobbies	166	203	194	238	296	227	27	1351
	member of the E.P.	1				1	1		3
	member state				3	16	7	6	32
	MEP or Assistant of MEP	20	10	11	11	3	18	7	80
	missions	52	15	6	12	12	13	4	114
	not specified	281	204	186	203	181	177	104	1336
	others	72	23	25	16	18	140	62	356
	politician	13	10	7	9	4	3	1	47
Totals		2753	2116	1871	2212	2353	2786	623	14714

3.1.11 PROFESSIONAL PROFILE OF THE APPLICANTS (CONFIRMATORY APPLICATIONS)

```
PREFIX codi: <http://data.consilium.europa.eu/def/codi/>
PREFIX skos:<http://www.w3.org/2004/02/skos/core#>
PREFIX foaf: <http://xmlns.com/foaf/0.1/>

select year( ?date) ?profparent ?prof2 count(distinct ?r)
where {
  ?agent a foaf:Agent.
  ?agent codi:professionalActivity ?prof_uri.
  ?prof_uri skos:prefLabel ?prof2.
  optional {?prof_uri skos:broader ?broader.
         ?broader skos:prefLabel ?profparent.}
  ?agent codi:appliesFor ?r.
  ?r codi:dateAccepted ?date.
  ?r codi:requestType <http://data.consilium.europa.eu/id/taxonomy/RequestType/concept/c>.
  FILTER(str(year(?date)) >= "2010")

} group by ?prof2 ?profparent year( ?date ) order by year( ?date )
```

Output

Year / Prof-activity		2010	2011	2012	2013	2014	2015	2016	Totals
academic world	university research	11	9	5	12	7	8	1	53
civil society	consultant	1	1		2	1			5
	industrial/commercial sector		2			2			4
	NGOs	1	1	5	3	4	2		16
	other institutions					1			1
null	international organization		2						2
	journalist	2	3	1		1	1		8
	lawyer	3	4	3	3	20	8		41
	lobbies	5	2	4	1	1	1		14
	MEP or Assistant of MEP		1	1			1	1	4
	missions				1				1
	not specified	3	2	3	4	3	3		18
	others	2		1				1	4
Totals		28	27	23	26	40	24	3	171

3.1.12 GEOGRAPHICAL DISTRIBUTION OF APPLICANTS (INITIAL APPLICATIONS)

```
PREFIX skos:<http://www.w3.org/2004/02/skos/core#>
PREFIX foaf: <http://xmlns.com/foaf/0.1/>
PREFIX codi: <http://data.consilium.europa.eu/def/codi/>
PREFIX codi-req: <http://data.consilium.europa.eu/id/taxonomy/RequestType/concept/>

select distinct year(?date) as ?year ?country count(distinct ?agent) as ?agents
where {
  ?agent a foaf:Agent.
  ?agent codi:geographicalOrigin ?geo.
  ?agent codi:appliesFor ?r.
  ?geo skos:prefLabel ?country.
  filter (lang(?country) = 'en')
  ?r codi:dateAccepted ?date.
  ?r codi:requestType codi-req:i.
  FILTER(str(year(?date)) >= "2011")

} group by ?country year(?date) order by  ?agents
```

Output

Year / Country	2011	2012	2013	2014	2015	2016	Totals
Argentina			1		1		**2**
Australia		1					**1**
Austria	27	19	18	28	23	22	**137**
Belarus	1						**1**
Belgium	826	838	963	1054	1036	216	**4933**
Belize					1		**1**
Bosnia and Herzegovina	2		8	3	4	1	**18**
Bulgaria	6	2	11	1	6	4	**30**
Canada	3	2	1	2	3		**11**
China	1						**1**
Croatia	7	2	2	1	5		**17**
Cyprus	2	2	2	1	2		**9**
Czech Republic	12	7	13	18	6	1	**57**
Denmark	11	5	25	24	44	10	**119**
Dominican Republic				1			**1**
Estonia			4	1	2		**7**

Faroe Islands			1				**1**
Fiji	1						**1**
Finland	4	5	23	17	21	4	**74**
France	124	90	74	69	92	32	**481**
Germany	224	194	241	185	283	113	**1240**
Greece	38	9	15	2	10	2	**76**
Guatemala			1				**1**
Guinea-Bissau	2						**2**
Hungary	9	2	4	11	3	1	**30**
Iceland			3	2	2		**7**
India	1	2	1	1			**5**
internal request	13	3		2	2	1	**21**
Iran			1			1	**2**
Ireland	10	15	10	21	17		**73**
Israel	2		1	1	2		**6**
Italy	126	86	50	55	60	33	**410**
Japan	8	11	2	3	4		**28**
Jordan			1				**1**
Latvia	3	1	2	1	3		**10**
Liechtenstein	1			2	2	1	**6**
Lithuania	1		4				**5**
Luxembourg	16	13	16	17	5	6	**73**
Malaysia			1				**1**
Malta	2	2	1	5	2		**12**
Monaco	1						**1**
Montenegro			1				**1**
Morocco	1			1		1	**3**
Netherlands	151	74	66	97	222	47	**657**
Norway	15	6	6	7	7		**41**
not known	15	70	124	280	391	38	**918**
Paraguay			2				**2**
Peru			1				**1**

Poland	23	26	15	23	24	5	**116**
Portugal	15	6	3	9	6	4	**43**
Romania	5	2		4	4	1	**16**
Russia	2	2		1	1		**6**
Serbia			2	1	3	1	**7**
Serbia and Montenegro		2					**2**
Slovakia	3	4	1	1	5	4	**18**
Slovenia	2	1	2	2	2		**9**
South Africa	3						**3**
Spain	65	32	47	52	85	12	**293**
Sudan	1						**1**
Sweden	38	17	17	9	9	4	**94**
Switzerland	7	11	2	13	9	2	**44**
Taiwan	1						**1**
Turkey				2	2		**4**
Ukraine		1			2		**3**
United Arab Emirates	2						**2**
United Kingdom	273	297	420	319	365	52	**1726**
United States	10	8	3	4	8	4	**37**
Venezuela		1					**1**
Totals	**2116**	**1871**	**2212**	**2353**	**2786**	**623**	**11961**

3.1.13 GEOGRAPHICAL DISTRIBUTION OF APPLICANTS (CONFIRMATORY APPLICATIONS)

```
PREFIX skos:<http://www.w3.org/2004/02/skos/core#>
PREFIX foaf: <http://xmlns.com/foaf/0.1/>
PREFIX codi: <http://data.consilium.europa.eu/def/codi/>
PREFIX codi-req: <http://data.consilium.europa.eu/id/taxonomy/RequestType/concept/>

select distinct year(?date) as ?year ?country count(distinct ?agent) as ?agents
where {
  ?agent a foaf:Agent.
  ?agent codi:geographicalOrigin ?geo.
  ?agent codi:appliesFor ?r.
  ?geo skos:prefLabel ?country.
  filter (lang(?country) = 'en')
  ?r codi:dateAccepted ?date.
  ?r codi:requestType codi-req:c.
  FILTER(str(year(?date)) >= "2011")

} group by ?country year(?date) order by  ?agents
```

Output

Year / Country	2011	2012	2013	2014	2015	2016	Totals
Austria				5			5
Belgium	6	9	6	8	10	2	41
Bosnia and Herzegovina			1				1
Croatia			1	1			2
Denmark	1			1			2
Finland			3	2			5
France	2	3	1	2	1		9
Germany	5	4	5	2	3		19
Greece					1		1
Ireland				1			1
Italy	2		1	1			4
Netherlands	2	1	2	2	2	1	10
not known		3	3	1	4		11
Poland			1				1
South Africa	1						1
Spain	1						1
United Kingdom	7	3	2	14	3		29
Totals	27	23	26	40	24	3	143

3.1.14 POLICY AREA

```
PREFIX skos:<http://www.w3.org/2004/02/skos/core#>
PREFIX foaf: <http://xmlns.com/foaf/0.1/>
PREFIX codi: <http://data.consilium.europa.eu/def/codi/>

select year(?date) as ?year ?policy  count(distinct ?r) as ?agents
where {
  ?agent a foaf:Agent.
  ?agent codi:appliesFor ?r.
  ?r codi:dateAccepted ?date.
  ?r codi:policyArea ?pol.
  ?pol skos:prefLabel ?policy.
  FILTER(str(year(?date)) >= "2011")

} group by ?policy year(?date) order by  ?agents
```

Output

Year Policy Area	2011	2012	2013	2014	2015	2016	Totals
agriculture, fishing	76	98	72	109	102	30	487
assistance for development	3		9	2	1		15
civilian protection		12	19	14	9	2	56
competitiveness	30	31	28	26	12	1	128
consumer protection	30	25	16	11	13		95
culture	5	13	12	11	10	5	56
defence and military matters	48	53	60	20	41	3	225
DEVGEN	3	2	8	2	3	6	24
domestic market	174	191	282	166	238	35	1086
economical and monetary policy	129	135	210	96	244	55	869
education/youth	9	4	15	12	14	3	57
energy	46	54	48	31	25	2	206
enlargement	21	23	11	11	17	4	87
environment	199	150	306	325	229	30	1239
financing of the Union	4	15	9	5	2	1	36
fiscalité	274	131	89	107	123	41	765
foreign policy (PESC)	279	210	196	264	362	69	1380

functioning of the institutions	51	47	67	71	95	46	**377**
general political questions	13	13	27	45	47	22	**167**
health	48	44	92	135	135	26	**480**
industry	2	1	11	6	1	1	**22**
juridical questions	68	106	123	89	63	21	**470**
justice and home affaires (JAI)	424	356	404	586	785	139	**2694**
others	8		9	1	1	1	**20**
parliamentary questions	65	49	17	13	32	8	**184**
regional policy and economical/social cohesion	2	8	3	7	1		**21**
research	8	19	50	29	2	1	**109**
social policy	60	77	126	127	116	13	**519**
tax questions	274	131	89	107	123	41	**765**
transparency	5	24	12	12	15	11	**79**
transports	32	27	62	93	93	43	**350**
various	5	3	3	5			**16**
WTO	58	41	23	29	30	9	**190**
Totals	**2453**	**2093**	**2508**	**2567**	**2984**	**669**	**13274**

3.1.15 REASONS FOR REFUSING ACCESS (REPLIES PROVIDED BY THE GSC - INITIAL APPLICATIONS)

```
PREFIX codi: <http://data.consilium.europa.eu/def/codi/>
PREFIX skos:<http://www.w3.org/2004/02/skos/core#>
PREFIX foaf: <http://xmlns.com/foaf/0.1/>
PREFIX dt: <http://dbpedia.org/datatype/>
PREFIX co: <http://rhizomik.net/ontologies/copyrightonto.owl#>

select distinct year(?date) ?notation ?accesRightDefinition count(distinct ?r)
where {
  ?r codi:dateAccepted ?date.
  ?r codi:requestType <http://data.consilium.europa.eu/id/taxonomy/RequestType/concept/i>.
  ?r codi:hasReply ?ds.
  ?ds <http://purl.org/dc/terms/accessRights> ?c.
  ?c skos:prefLabel ?notation.
  ?c skos:definition ?accesRightDefinition.
  FILTER(strlen(?notation)>=4)
  FILTER(str(year(?date)) >= "2011")
  FILTER(!contains(?accesRightDefinition, "partial") )

} group by year( ?date ) ?notation ?accesRightDefinition order by year( ?date )
```

	Output

Notation	Access Rights Definition	Year	2011	2012	2013	2014	2015	2016	Totals
4.1a.1	This value means that the General Secretariat/Council refused access to protect the public interest as regards public security. If preceded by the value 1.pa, only parts of the document were refused based on this exception.		96	102	75	68	118	20	**479**
4.1a.2	This value means that the General Secretariat/Council refused access to protect the public interest as regards defence and military matters. If preceded by the value 1.pa, only parts of the document were refused based on this exception.		21	22	22	14	36	6	**121**
4.1a.3	This value means that the General Secretariat/Council refused access to protect the public interest as regards international relations. If preceded by the value 1.pa, only parts of the document were refused based on this exception.		293	229	242	237	258	59	**1318**
4.1a.4	This value means that the General Secretariat/Council refused access to protect the public interest as regards the financial, monetary or economic policy of the EU or a Member State. If preceded by the value 1.pa, only parts of the document were refused based on this exception.		8	12	22	13	27	20	**102**
4.1b	This value means that the General Secretariat/Council refused access to protect personal data. If preceded by the value 1.pa, only parts of the document were refused based on this exception.		39	39	33	53	76	18	**258**
4.2.1	This value means that the General Secretariat/Council refused access to protect commercial interests. If preceded by the value 1.pa, only parts of the document were refused based on this exception.			3	2	4	6	1	**16**
4.2.2	This value means that the General Secretariat/Council refused access to protect court proceedings and legal advice. If preceded by the value 1.pa, only parts of the document were refused based on this exception.		92	106	108	109	73	17	**505**
4.2.3	This value means that the General				1	1	10		**12**

	Secretariat/Council refused access to protect inspections, investigations and audits. If preceded by the values 1.pa, only parts of the document were refused based on this exception.							
4.3(i)	**This value means that the General Secretariat/Council refused access to protect its decision-making process during ongoing negotiations. If preceded by the values 1.pa, only parts of the document were refused based on this exception.**	578	625	819	480	593	113	**3208**
4.3(ii)	**This value means that the General Secretariat/Council refused access to protect its decision-making process after the decision is taken. If preceded by the values 1.pa, only parts of the document were refused based on this exception.**	48	23	31	40	27	8	**177**
	Totals	**1175**	**1161**	**1355**	**1019**	**1224**	**262**	**6196**

3.1.16 REASONS FOR REFUSING ACCESS (REPLIES PROVIDED BY THE GSC - CONFIRMATORY APPLICATIONS)

```
PREFIX codi: <http://data.consilium.europa.eu/def/codi/>
PREFIX skos:<http://www.w3.org/2004/02/skos/core#>
PREFIX foaf: <http://xmlns.com/foaf/0.1/>
PREFIX dt: <http://dbpedia.org/datatype/>
PREFIX co: <http://rhizomik.net/ontologies/copyrightonto.owl#>

select distinct year(?date) ?notation ?accesRightDefinition count(distinct ?r)
where {
  ?r codi:dateAccepted ?date.
  ?r codi:requestType <http://data.consilium.europa.eu/id/taxonomy/RequestType/concept/c>.
  ?r codi:hasReply ?ds.
  ?ds <http://purl.org/dc/terms/accessRights> ?c.
  ?c skos:prefLabel ?notation.
  ?c skos:definition ?accesRightDefinition.
  FILTER(strlen(?notation)>=4)
  FILTER(str(year(?date)) >= "2011")
  FILTER(!contains(?accesRightDefinition, "partial") )

} group by year( ?date ) ?notation ?accesRightDefinition order by year( ?date )
```

Notation	Access Rights Definition	Year	2011	2012	2013	2014	2015	2016	Totals
4.1a.1	This value means that the General Secretariat/Council refused access to protect the public interest as regards public security. If preceded by the value 1.pa, only parts of the document were refused based on this exception.		2	2	3	4	8		19
4.1a.2	This value means that the General Secretariat/Council refused access to protect the public interest as regards defence and military matters. If preceded by the value 1.pa, only parts of the document were refused based on this exception.				1		1		2
4.1a.3	This value means that the General Secretariat/Council refused access to protect the public interest as regards international relations. If preceded by the value 1.pa, only parts of the document were refused based on this exception.		12	6	4	20	11	1	54
4.1a.4	This value means that the General Secretariat/Council refused access to protect the public interest as regards the financial, monetary or economic policy of the EU or a Member State. If preceded by the value 1.pa, only parts of the document were refused based on this exception.		1	2	1	1	1		6
4.1b	This value means that the General Secretariat/Council refused access to protect personal data. If preceded by the value 1.pa, only parts of the document were refused based on this exception.		1	1	2	9	4		17
4.2.1	This value means that the General Secretariat/Council refused access to protect commercial interests. If preceded by the value 1.pa, only parts of the document were refused based on this exception.					1	1		2
4.2.2	This value means that the General Secretariat/Council refused access to protect court proceedings and legal advice. If preceded by the value 1.pa, only parts of the document were refused based on this exception.		6	8	9	5	5		33

						1			1
4.2.3	This value means that the General Secretariat/Council refused access to protect inspections, investigations and audits. If preceded by the values 1.pa, only parts of the document were refused based on this exception.								
4.3(i)	This value means that the General Secretariat/Council refused access to protect its decision-making process during ongoing negotiations. If preceded by the values 1.pa, only parts of the document were refused based on this exception.	4	6	8	5	8	1		32
4.3(ii)	This value means that the General Secretariat/Council refused access to protect its decision-making process after the decision is taken. If preceded by the values 1.pa, only parts of the document were refused based on this exception.		1	2	5	1			9
Totals		**26**	**26**	**30**	**51**	**40**	**2**		**175**

3.1.17 AVERAGE NUMBER OF WORKING DAYS TO REPLY TO AN APPLICATION

```
PREFIX codi: <http://data.consilium.europa.eu/def/codi/>
PREFIX skos:<http://www.w3.org/2004/02/skos/core#>

select distinct year(?date) AVG(?t) as ?replyTime ?requestType
where {
    ?r codi:dateAccepted ?date.
    ?r codi:requestType ?requestType.
    ?r codi:spentEffort ?time.
    bind (xsd:integer(?time) as ?t)
    FILTER(str(year(?date)) >= "2011")

} group by year(?date) ?requestType order by year(?date)
```

Output

Year Request Type	2011	2012	2013	2014	2015	2016
Confirmatory Request	28	27	26	27	29	28
Initial Request	16	16	18	16	16	12

3.1.18 NUMBER OF APPLICATIONS WITH AN EXTENDED DEADLINE

```
PREFIX codi: <http://data.consilium.europa.eu/def/codi/>

select year(?accDate) as ?year  count (distinct ?req) ?type WHERE {
  ?req codi:dateAccepted ?accDate.
  ?req codi:requestType ?type.
  ?req codi:extendedDeadlineToReply ?extdate.
  FILTER(str(year(?accDate)) >= "2011")

} group by year(?accDate) ?type order by year(?accDate)
```

Output

Year Request Type	2011	2012	2013	2014	2015	2016	Totals
Confirmatory Request	24	20	21	39	22	2	128
Initial Request	513	452	587	580	671	88	2891
Totals	537	472	608	619	693	90	3019

3.2 Exploring the data

The most important place where to look when starting exploring the data is the ontology. The way data is structured in DTA as well as in Public Register is shown there.

However, in order to have a hands-on experience with the data available, it is useful to dive-in using SPARQL. Below there is a sample set of basic queries that could help one have a better understanding of the data.

3.2.1 QUERIES
3.2.1.1 Get all graphs

```
SELECT distinct ?g
WHERE {
  GRAPH ?g {?s ?p ?o.}}
```

Output

Graph
http://publications.europa.eu/resource/authority/country
http://data.consilium.europa.eu/id/dataset/docRequests

Graph
http://data.consilium.europa.eu/id/dataset/PublicRegister
http://data.consilium.europa.eu/def/taxonomy/PolicyArea
http://data.consilium.europa.eu/def/taxonomy/CouncilDocumentSuffix
http://data.consilium.europa.eu/def/taxonomy/DocumentCategory
http://data.consilium.europa.eu/def/taxonomy/DocumentPublicationStatus
http://data.consilium.europa.eu/def/taxonomy/GeographicalOrigin
http://data.consilium.europa.eu/def/taxonomy/InterinstitutionalCode
http://data.consilium.europa.eu/def/taxonomy/ProfessionalActivity
http://data.consilium.europa.eu/def/taxonomy/RequestType
http://data.consilium.europa.eu/def/taxonomy/TypeOfReply
http://data.consilium.europa.eu/def/taxonomy/SubjectMatter
http://publications.europa.eu/resource/authority/language

3.2.1.2 Get all predicates

```
SELECT distinct ?p ?g
WHERE {
 GRAPH ?g {?s ?p ?o.}}
```

3.2.1.3 Get a supporting taxonomy and its properties

```
SELECT distinct *
WHERE {
 GRAPH <http://data.consilium.europa.eu/def/taxonomy/DocumentCategory>
   {?s ?p ?o}}
```

3.2.1.4 Get a request with all its properties

```
PREFIX codi: <http://data.consilium.europa.eu/def/codi/>
PREFIX skos:<http://www.w3.org/2004/02/skos/core#>

select distinct *
where {
  <http://data.consilium.europa.eu/id/request/03-01-14> ?p ?o.
}
```

Output

Predicate	Value
http://www.w3.org/1999/02/22-rdf-syntax-ns#type	http://data.consilium.europa.eu/def/codi/RequestForDocument
http://purl.org/dc/terms/identifier	"03/01/14"
http://data.consilium.europa.eu/def/codi/dateAccepted	2013-12-10
http://data.consilium.europa.eu/def/codi/dateReply	2014-01-20
http://data.consilium.europa.eu/def/codi/deadlineToReply	2014-01-10
http://data.consilium.europa.eu/def/codi/hasFollowupRequest	http://data.consillium.europa.eu/id/request/39157
http://data.consilium.europa.eu/def/codi/requestType	http://data.consilium.europa.eu/id/taxonomy/RequestType/concept/c
http://data.consilium.europa.eu/def/codi/spentEffort	"22"

3.2.1.5 Get a document with all its expressions and their details

```
prefix codi: <http://data.consilium.europa.eu/def/codi/>
prefix foaf: <http://xmlns.com/foaf/0.1/>

select distinct ?expression ?page ?p ?o
where {
  <http://data.consilium.europa.eu/id/document/ST-5762-2004-INIT> a codi:PublicRegisterDocument.
  <http://data.consilium.europa.eu/id/document/ST-5762-2004-INIT> codi:expressed ?expression.
  ?expression foaf:page ?page.
  ?expression ?p ?o.

}order by ?expression
```

Output

Document Expression URI	PDF file link	Concept type	Value
http://data.consilium.europa.eu/id/document/ST-5762-2004-INIT/DA	"http://data.consilium.europa.eu/doc/document/ST-5762-2004-INIT/DA/pdf"	http://www.w3.org/1999/02/22-rdf-syntax-ns#type	http://data.consilium.europa.eu/def/codi/DocumentExpression
http://data.consilium.europa.eu/id/document/ST-5762-2004-INIT/DA	"http://data.consilium.europa.eu/doc/document/ST-5762-2004-INIT/DA/pdf"	http://purl.org/dc/terms/issued	2004-04-02
http://data.consilium.europa.eu/id/document/ST-5762-2004-INIT/DA	"http://data.consilium.europa.eu/doc/document/ST-5762-2004-INIT/DA/pdf"	http://purl.org/dc/terms/language	http://publications.europa.eu/resource/authority/language/DAN

Document Expression URI	PDF file link	Concept type	Value
http://data.consilium.europa.eu/id/document/ST-5762-2004-INIT/DA	"http://data.consilium.europa.eu/doc/document/ST-5762-2004-INIT/DA/pdf"	http://purl.org/dc/terms/title	"Fælles holdning vedtaget af Rådet med henblik på vedtagelse af Europa-Parlamentets og Rådets beslutning om ændring af beslutning nr. 1692/96/EF om Fællesskabets retningslinjer for udvikling af det transeuropæiske transportnet"@da
http://data.consilium.europa.eu/id/document/ST-5762-2004-INIT/DA	"http://data.consilium.europa.eu/doc/document/ST-5762-2004-INIT/DA/pdf"	http://xmlns.com/foaf/0.1/page	"http://data.consilium.europa.eu/doc/document/ST-5762-2004-INIT/DA/pdf"
http://data.consilium.europa.eu/id/document/ST-5762-2004-INIT/DE	"http://data.consilium.europa.eu/doc/document/ST-5762-2004-INIT/DE/pdf"	http://www.w3.org/1999/02/22-rdf-syntax-ns#type	http://data.consilium.europa.eu/def/codi/DocumentExpression
http://data.consilium.europa.eu/id/document/ST-5762-2004-INIT/DE	"http://data.consilium.europa.eu/doc/document/ST-5762-2004-INIT/DE/pdf"	http://purl.org/dc/terms/issued	2004-04-02

3.2.1.6 Get a meeting and the documents related to it

```
PREFIX codi: <http://data.consilium.europa.eu/def/codi/>
PREFIX skos:<http://www.w3.org/2004/02/skos/core#>

select distinct ?m ?doc
where {
  ?m ^codi:relatesTo ?doc.
  ?doc a codi:PublicRegisterDocument.
  ?m codi:dateOfMeeting "2014-10-23"^^xsd:date.
  ?m <http://purl.org/dc/terms/description> "CONSEIL EUROPEEN".
}
```

Output

Meeting	Document
http://data.consilium.europa.eu/id/codi/meeting/221185	http://data.consilium.europa.eu/id/document/ST-10897-2014-INIT
http://data.consilium.europa.eu/id/codi/meeting/221185	http://data.consilium.europa.eu/id/document/ST-12783-2014-INIT
http://data.consilium.europa.eu/id/codi/meeting/221185	http://data.consilium.europa.eu/id/document/ST-5644-2014-INIT
http://data.consilium.europa.eu/id/codi/meeting/221185	http://data.consilium.europa.eu/id/document/ST-5644-2014-REV-1
http://data.consilium.europa.eu/id/codi/meeting/221185	http://data.consilium.europa.eu/id/document/ST-12780-2014-INIT

Meeting	Document
http://data.consilium.europa.eu/id/codi/meeting/221185	http://data.consilium.europa.eu/id/document/ST-163-2014-COR-3
http://data.consilium.europa.eu/id/codi/meeting/221185	http://data.consilium.europa.eu/id/document/ST-12781-2014-INIT
http://data.consilium.europa.eu/id/codi/meeting/221185	http://data.consilium.europa.eu/id/document/ST-10409-2014-REV-1
http://data.consilium.europa.eu/id/codi/meeting/221185	http://data.consilium.europa.eu/id/document/ST-10897-2014-REV-1
http://data.consilium.europa.eu/id/codi/meeting/221185	http://data.consilium.europa.eu/id/document/ST-163-2014-COR-1

3.2.1.7 Get the DTA documents existing in the public register

```
prefix owl: <http://www.w3.org/2002/07/owl#>
prefix codi: <http://data.consilium.europa.eu/def/codi/>
select distinct ?doc ?pub
where {
  ?doc a codi:Document.
  ?doc owl:sameAs ?pub.
}limit 100
```

Output

Document	Public Register Document
http://data.consilium.europa.eu/id/document/100000	http://data.consilium.europa.eu/id/document/ST-13530-2009-INIT
http://data.consilium.europa.eu/id/document/100001	http://data.consilium.europa.eu/id/document/ST-13149-2009-INIT
http://data.consilium.europa.eu/id/document/100002	http://data.consilium.europa.eu/id/document/ST-13150-2009-INIT
http://data.consilium.europa.eu/id/document/100003	http://data.consilium.europa.eu/id/document/ST-12287-2009-INIT
http://data.consilium.europa.eu/id/document/100004	http://data.consilium.europa.eu/id/document/ST-12293-2009-INIT
http://data.consilium.europa.eu/id/document/100005	http://data.consilium.europa.eu/id/document/ST-10504-2009-REV-2
http://data.consilium.europa.eu/id/document/100006	http://data.consilium.europa.eu/id/document/ST-11534-2009-INIT
http://data.consilium.europa.eu/id/document/100007	http://data.consilium.europa.eu/id/document/ST-10464-2009-INIT
http://data.consilium.europa.eu/id/document/100008	http://data.consilium.europa.eu/id/document/ST-12197-2009-REV-2
http://data.consilium.europa.eu/id/document/100010	http://data.consilium.europa.eu/id/document/DS-757-2008-INIT

3.2.1.8 Applicants-their properties, requests + the reply they received

```
PREFIX skos:<http://www.w3.org/2004/02/skos/core#>
PREFIX foaf: <http://xmlns.com/foaf/0.1/>
PREFIX codi: <http://data.consilium.europa.eu/def/codi/>
PREFIX codi-req: <http://data.consilium.europa.eu/id/taxonomy/RequestType/concept/>
prefix codi_id:<http://data.consilium.europa.eu/id/codi/>

select distinct str(?prof_act) as ?Applicant_Professional_Activity str(?country) as
?Applicant_Country  str(?ReqType) as ?Request_Type str(?policy) as ?Request_policy_Area year(?date)
as ?Year_Of_Application  str(?availability) as ?Document_Status

where {
  ?Applicant a foaf:Agent.
  ?Applicant codi:geographicalOrigin ?geo.
  ?geo skos:prefLabel ?country.
  filter (lang(?country) = 'en')
  ?Applicant codi:professionalActivity ?act.
  ?act skos:prefLabel ?prof_act.
  ?Applicant codi:appliesFor ?Request.
  ?Request codi:dateAccepted ?date.
  ?Request codi:requestType ?type.
  ?type skos:prefLabel ?ReqType.
  ?Request codi:hasReply ?reply.
  ?reply codi:replyPublicationStatus ?status.
  ?status skos:prefLabel ?availability.
  ?Request codi:policyArea ?pol.
  ?pol skos:prefLabel ?policy.
  FILTER(str(year(?date)) = "2015")

} group by ?country year(?date) order by desc(?Applicant)
limit 15
```

Output

Applicant_Profess ional_Activity	Applicant_C ountry	Request_Type	Request_policy_Area	Year_Of_Ap p	Document _Status
NGOs	Netherlands	initial request	foreign policy (PESC)	2015	public
Consultant	not known	initial request	fiscalité	2015	refused
university research	Germany	initial request	agriculture, fishing	2015	partial access
Journalist	Germany	initial request	economical and monetary policy	2015	public
university research	Slovenia	initial request	functioning of the institutions	2015	public
Consultant	Belgium	initial request	education/youth	2015	public

Applicant_Professional_Activity	Applicant_Country	Request_Type	Request_policy_Area	Year_Of_App	Document_Status
Consultant	Canada	initial request	health	2015	public
university research	not known	initial request	justice and home affaires (JAI)	2015	refused
Journalist	Belgium	initial request	competitiveness	2015	refused
not specified	not known	initial request	defence and military matters	2015	public
university research	United States	initial request	foreign policy (PESC)	2015	public
Lobbies	Belgium	initial request	health	2015	public
industrial/commercial sector	Belgium	initial request	Health	2015	public

4 CONCLUSIONS

This User's Manual provides an overview of CODI-2 datasets, starting from explaining, visualizing the data model and how the URIs were constructed in a Linked Open Data way. When possible and adequate, existing external/internal vocabularies and datasets have been reused. This facilitates the understanding of this document and the use of the datasets.

The advantage is that these controlled vocabularies are easily managed externally, aside from the dataset that uses them. Theoretically, it is possible to create a supporting taxonomy (controlled vocabulary) out of any fixed list of elements that is used in the dataset repeatedly.

Understanding SPARQL is vital when trying to explore Linked Open Data. The statistics that the Council publishes in the annual reports were reproduced out of the same data, this time using SPARQL queries.

The annual report queries are described in this document, in addition to other basic SPARQL queries which were included to help users in getting acquainted with the dataset and with the query syntax. Users are encouraged to explore the dataset further, testing and expanding the queries presented in this document.

The published datasets are subject to change: More data is made regularly available. The Council also evaluates the published data in order to improve its quality and the interlinking with external data. This is why user's feedback is extremely valuable. Please address any undetected incoherencies and requests for explanations on the content to public.records@consilium.europa.eu.

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