



# Rights Declaration in Linked Data

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Consuming Linked Data (COLD2013) - Special Theme:

Towards Industrial Linked Data Ecosystems



**Can we consume any  
Linked Data resource?**



How can we offer our  
Linked Data resources?



How is currently Linked  
Data being offered?

## Linked Data resources can be works protected by copyright

as long as they are:

- original mind creations
- in a tangible medium
- attributable to a person or collective

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## Are these Linked Data resources protected?

- RDF Statement
- Ontology
- Mapping
- RDF Dataset

## Linked Data resources can be works protected by copyright

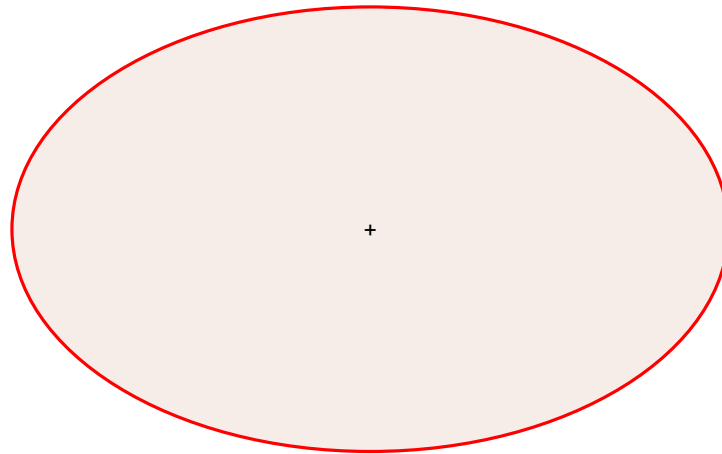
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## Are these Linked Data resources protected?

- RDF Statement? → No
- Ontology → Certainly (unless trivial)
- Mapping → Possibly, if handmade and not evident
- RDF Dataset → Hardly

# Everything that is not forbidden is permitted



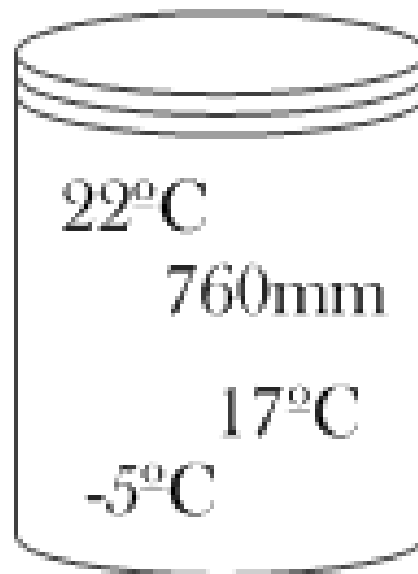
## Use of copyrighted works

### Copyright rights

copy  
distribute +  
derive  
public communication

any other action

Databases are also protected in some legal systems (Europe) as long as there is investment.





Consuming Linked Data can be limited if it contains

- personal information
- confidential information

Access and communication are limited.



## Examples of actions that are limited

Copy and distribute physical copies of an ontology

Publish an ontology or dataset in a server

Integrate the ontology in a local computer to power an application

Translate (and publish) a dataset

Copy a database to a local server to power an application (Europe)

Integrating and editing a database to build another one (Europe)

Storing a dataset with personal data in a non-secured computer



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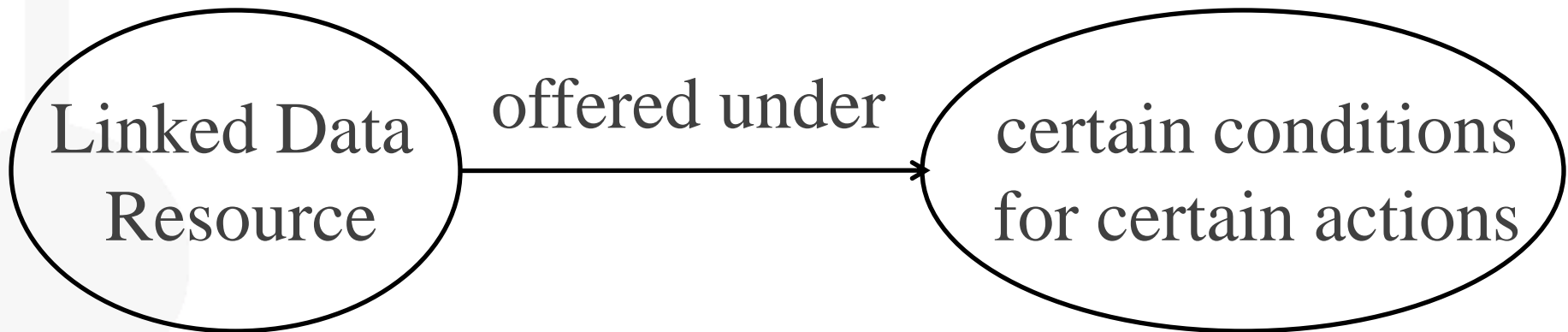


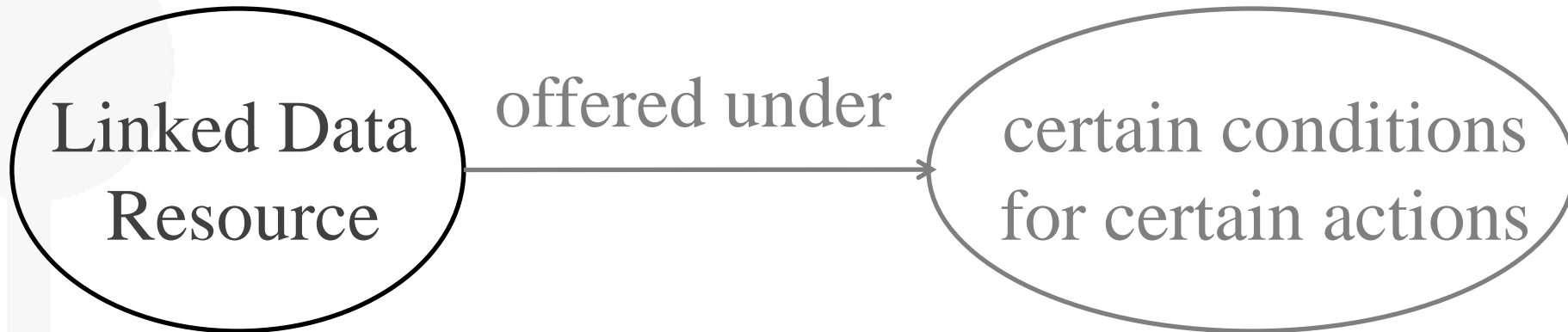
How is currently Linked  
Data being offered?

The British National Bibliography (BNB) lists the books and new journal titles published or distributed in the United Kingdom and Ireland since 1950.

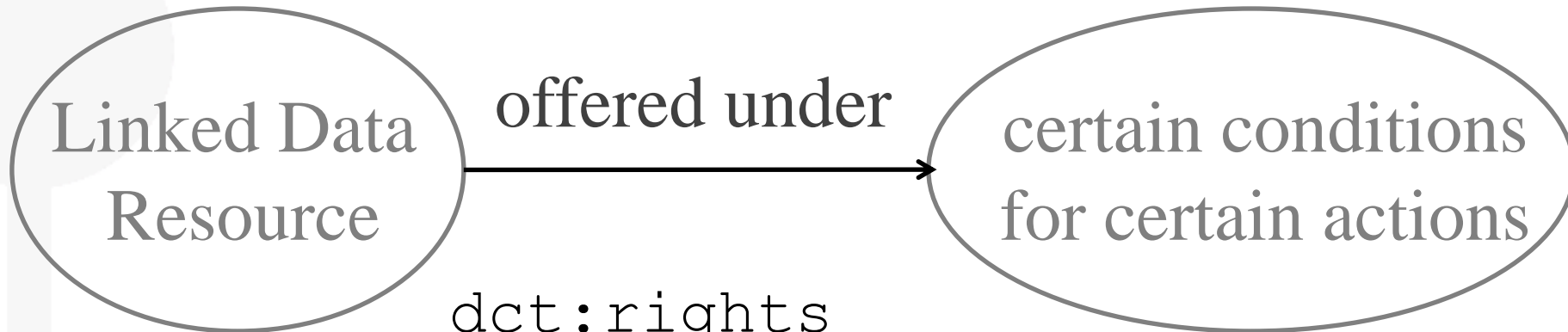
```
<http://bnb.data.bl.uk/id/data/BNB> a void:Dataset ;  
    dct:license <http://creativecommons.org/publicdomain/zero/1.0> ;
```



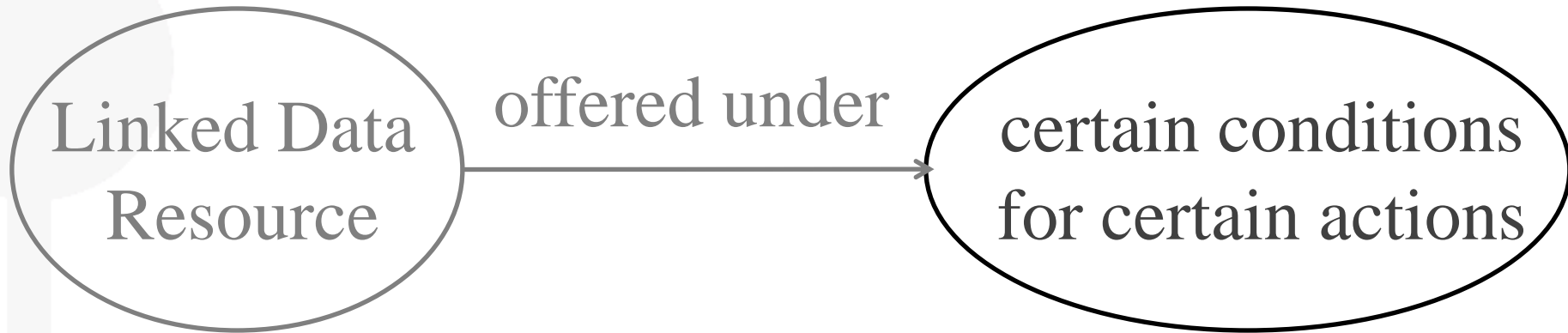




`rdf:Statement`  
`owl:Ontology`  
`void:Linkset`  
`void:Dataset`



dct:rights  
dct:license  
xhtml:license  
cc:license  
dc:rights  
dc:license



Existing licenses,  
referred by their URI

`<http://creativecommons.org/licenses/by>`

Complex expression: Rights  
Expression Languages

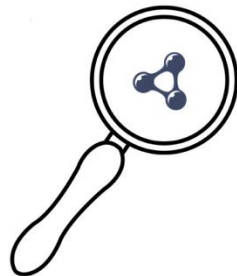




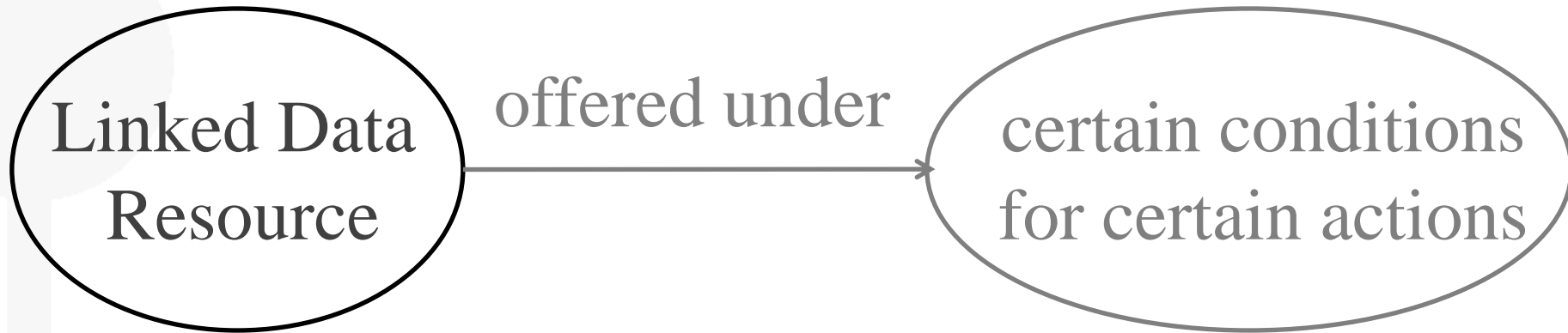
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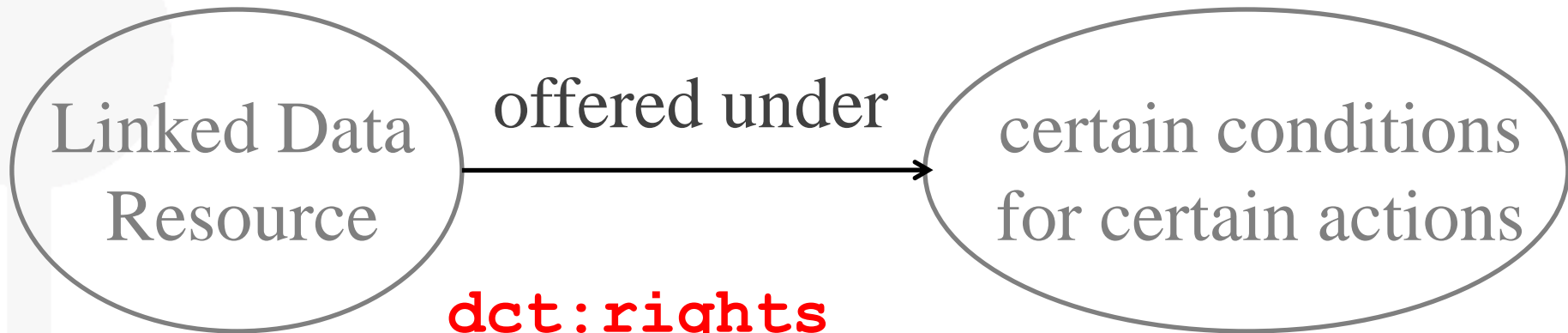


~~rdf:Statement~~

**owl:Ontology**

~~void:Linkset~~

**void:Dataset**



**dct:rights**

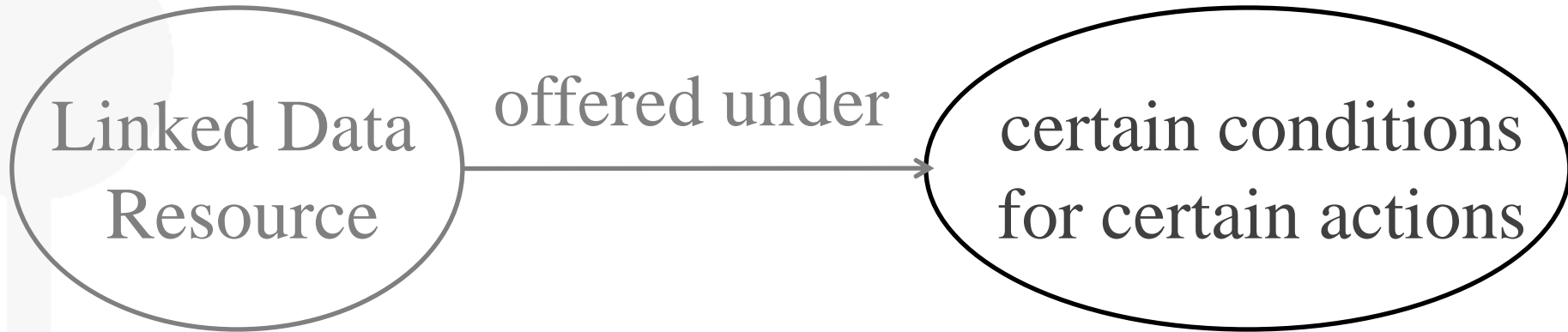
**dct:license**

**xhtml:license**

**cc:license**

dc:rights

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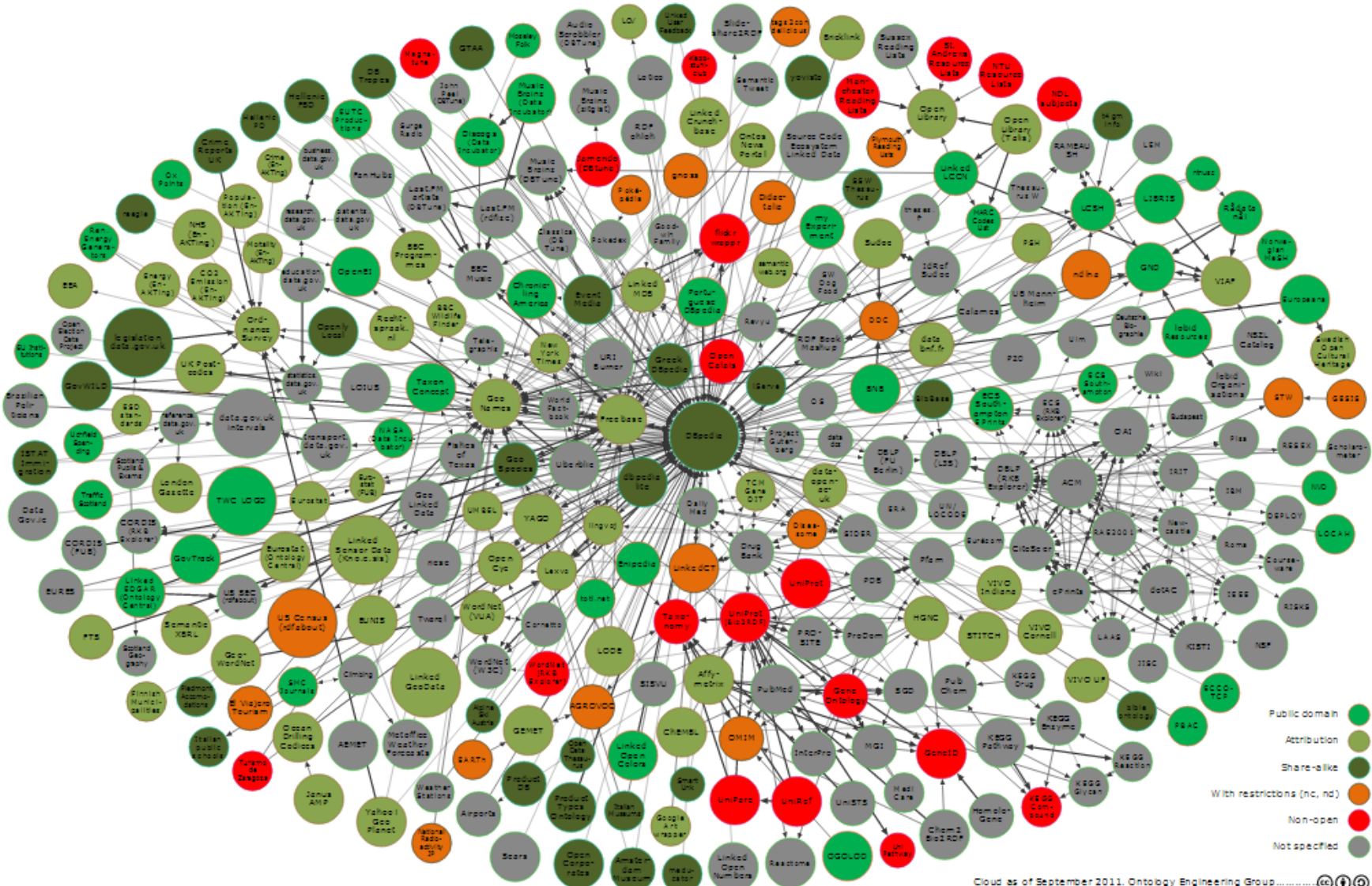


- Not specified
- Public Domain
- Attribution
- Share alike
- With restrictions
- Closed
- Other

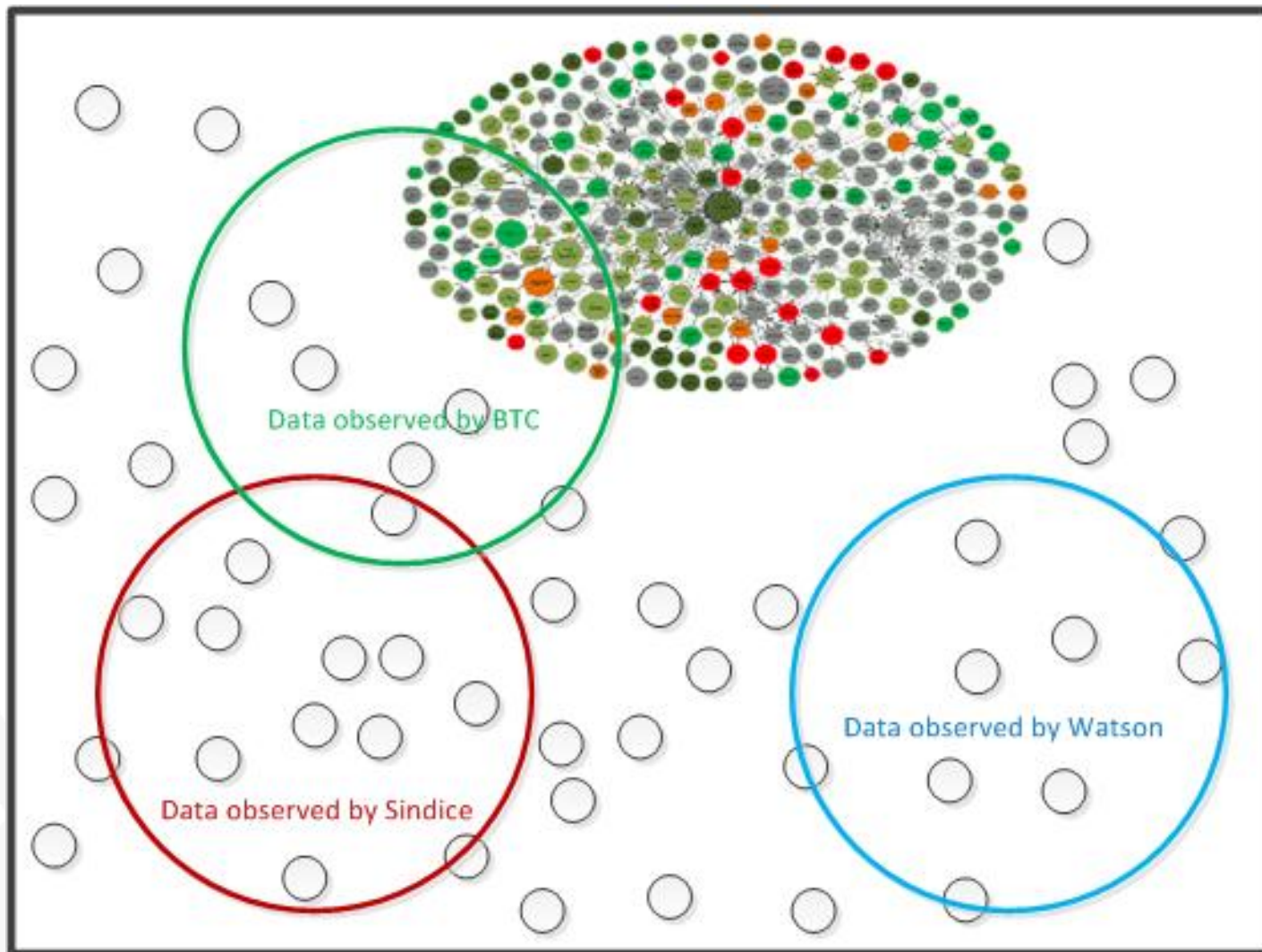
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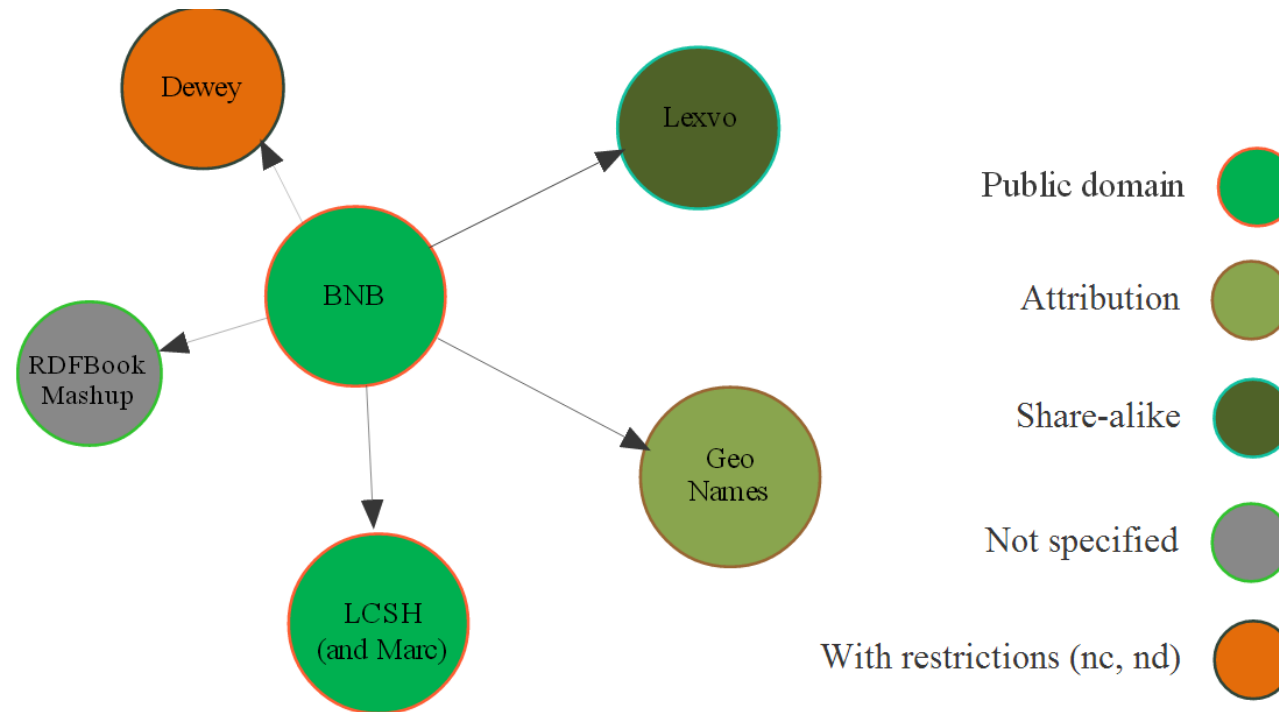
<http://creativecommons.org/licenses/by>

~~Complex expression: Rights  
Expression Languages~~



# The LOD cloud is not the Web of Data





Dataset	License	Specified as
BNB	CC0	<code>http://purl.org/dc/terms/license</code>
VIAF	ODC-By	<code>http://purl.org/dc/terms/license</code> and <code>http://creativecommons.org/ns#</code>
LCSH (Congress Library)	Public Comain	Plain text in the web
Lexvo	CC-BY-SA	<code>&lt;!-- as a comment in XML --&gt;</code>
Dewey.info	CC-NC-ND	<code>http://www.w3.org/1999/xhtml/vocab#license</code>
RDF Book Mashup	broken link	<code>http://purl.org/dc/terms/license</code>

Geonames offers data with a dual license. LEXVO changed the license in 2013 compared with data from 2012



# Example of non-machine readable rights expression

```
xmlns:skosxl="http://www.w3.org/2008/05/skos-xl#"
xmlns:foaf="http://xmlns.com/foaf/0.1/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema#" >
```

```
<!--
```

```
This data file is a part of
```

```
Lexvo
```

```
http://www.lexvo.org/
```

```
David de Melo, 2008-2013
```

```
License: Creative Commons Attribution-Share Alike 3.0 Unported
```

```
http://creativecommons.org/licenses/by-sa/3.0/
```

```
Portions copyright various contributors (e.g. article authors on Wikipedia).
```

```
For information about the data sources and the respective copyrights,
```

```
please see:
```

```
http://www.lexvo.org/linkeddata/sources.html
```

```
-->
```

```
<rdf:Description rdf:about="http://id.loc.gov/vocabulary/iso639-2/abk">
```

```
  <foaf:focus rdf:resource="http://lexvo.org/id/iso639-3/abk" />
```

```
</rdf:Description>
```

```
<rdf:Description rdf:about="http://id.loc.gov/vocabulary/iso639-2/ace">
```

```
  <foaf:focus rdf:resource="http://lexvo.org/id/iso639-3/ace" />
```

```
</rdf:Description>
```

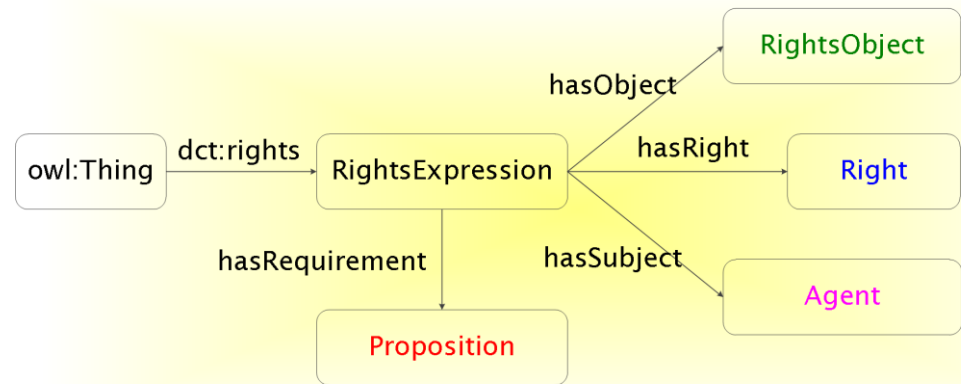




# Message and call for action:

*“If you want your Linked Data resource to be consumed, make sure you publish a proper rights declaration in a machine readable form.”*

Use known licenses, if they satisfy you. If you need tailored rights expressions, take a look at WOP2013 and LDR pattern!





# Thanks!

## Credits:

- Original LOD diagram by Richard Cyganiak and Anja Jentzsch, modified version by Víctor Rodríguez offered as CC-BY-SA
- Pictograms by Sergio Palao, modified version by Víctor Rodríguez offered as CC-BY-NC-SA