Talk

Towards a knowledge graph for the House of Commons Library

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London 2025







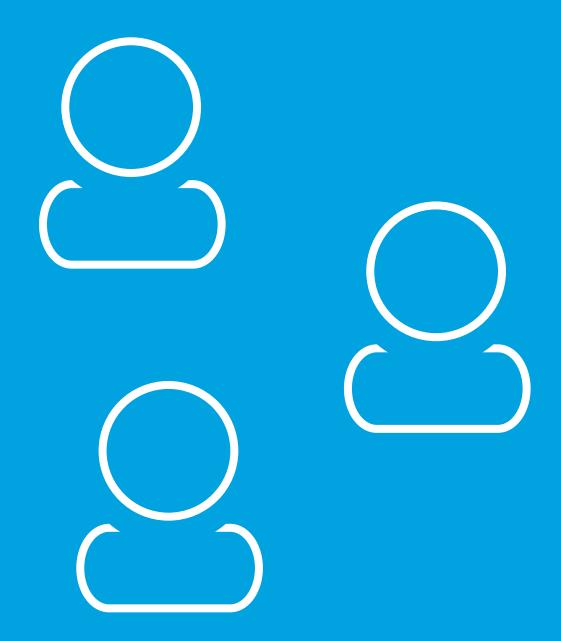
Towards a knowledge graph for the House of Commons Library

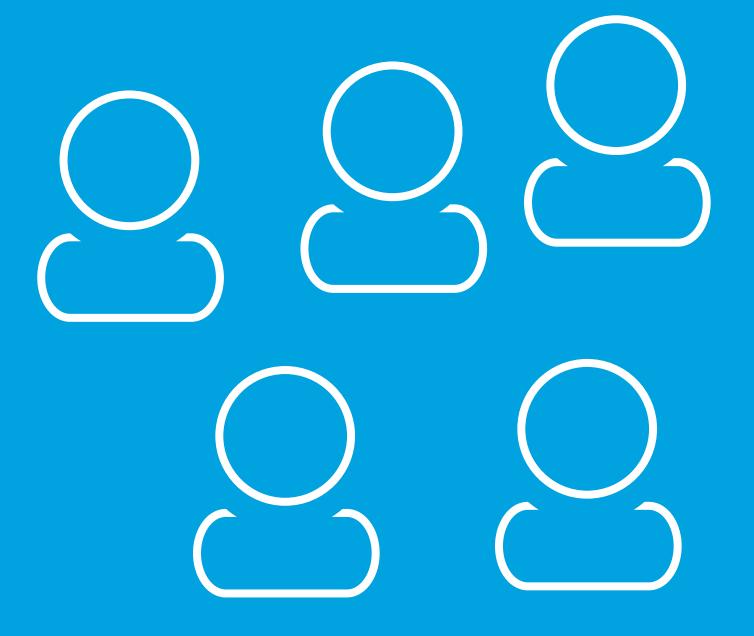




The House of Commons Library







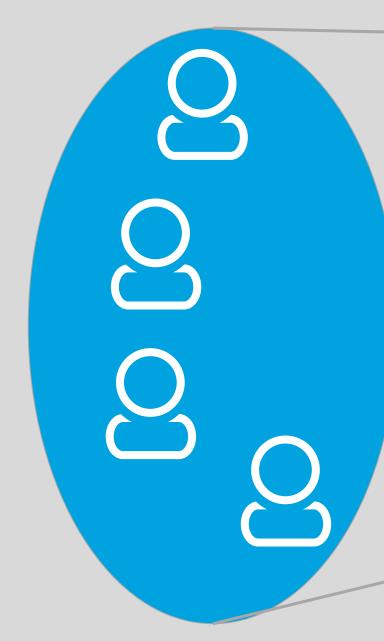
Librarians

Researchers

Civil Service

House of Commons

Library

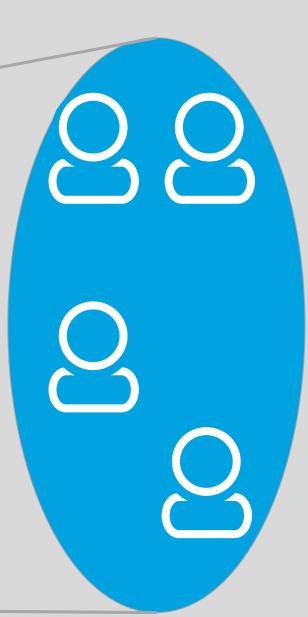


<u>S</u>S

Ministers



Backbenchers and opposition



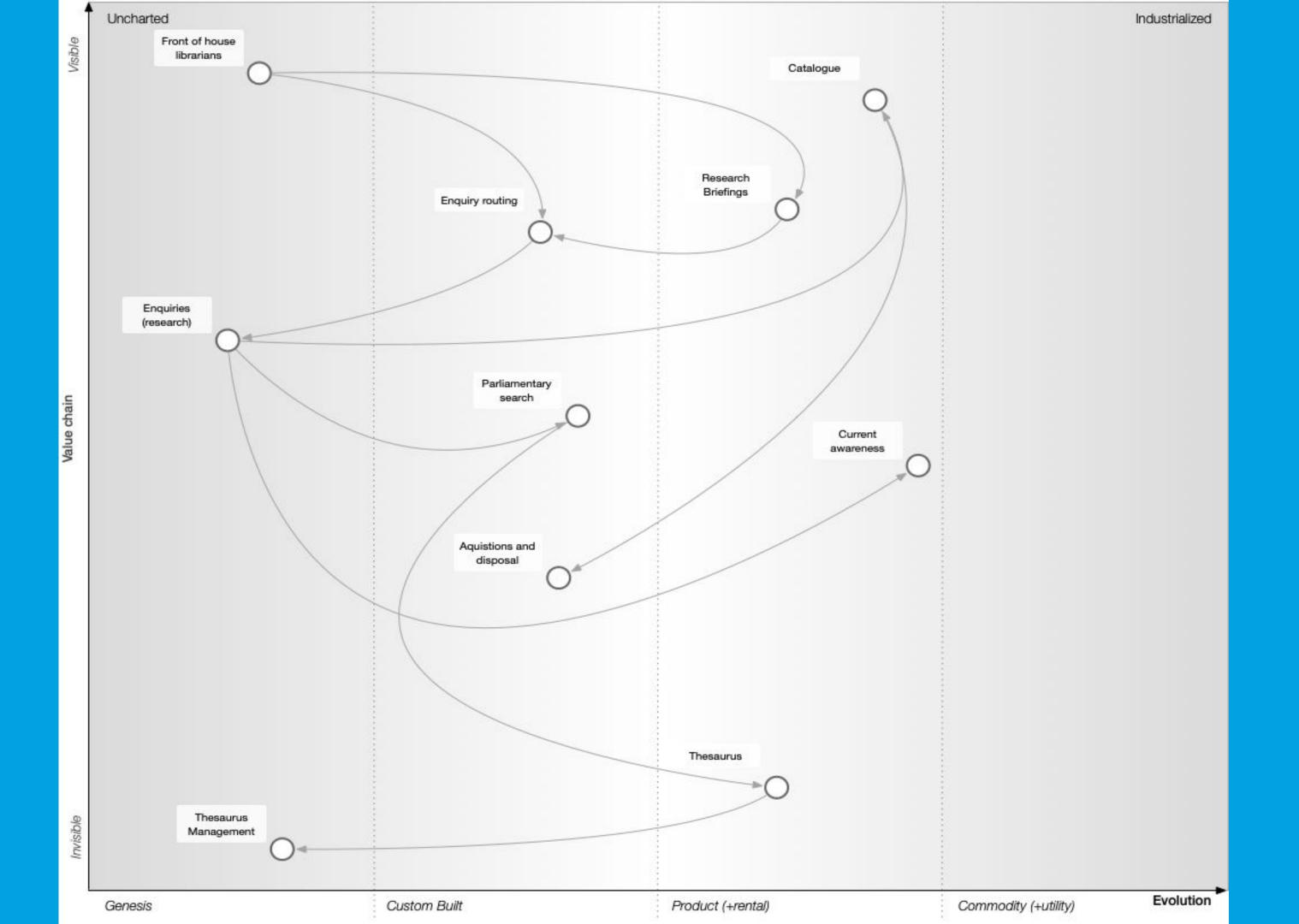
The nature of requests

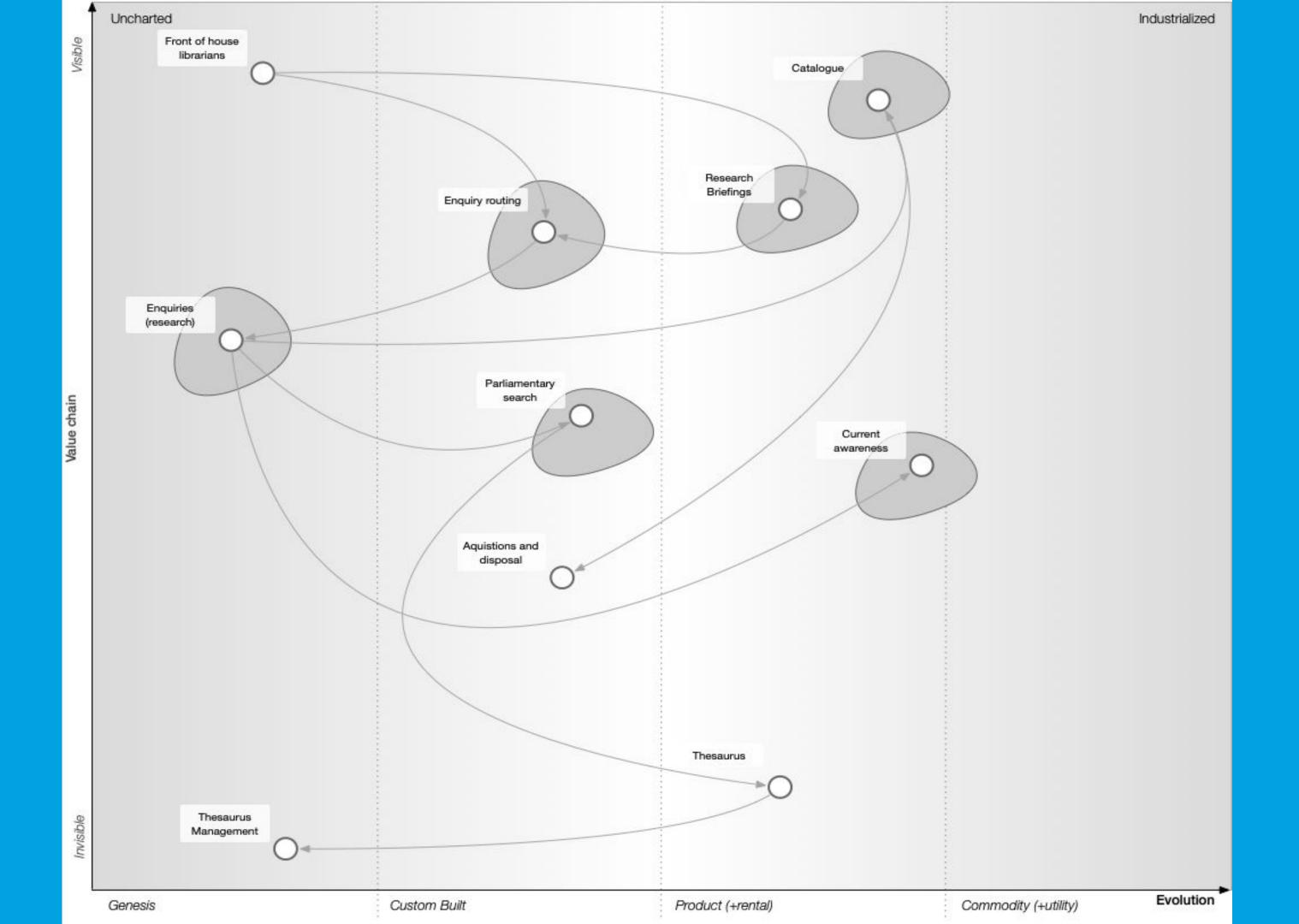
- Data on free school meals in my constituency.
- Likely impact of a tax policy?
- Housing vacancy in England and Wales?



The House of Commons Library

(a Wardley map)





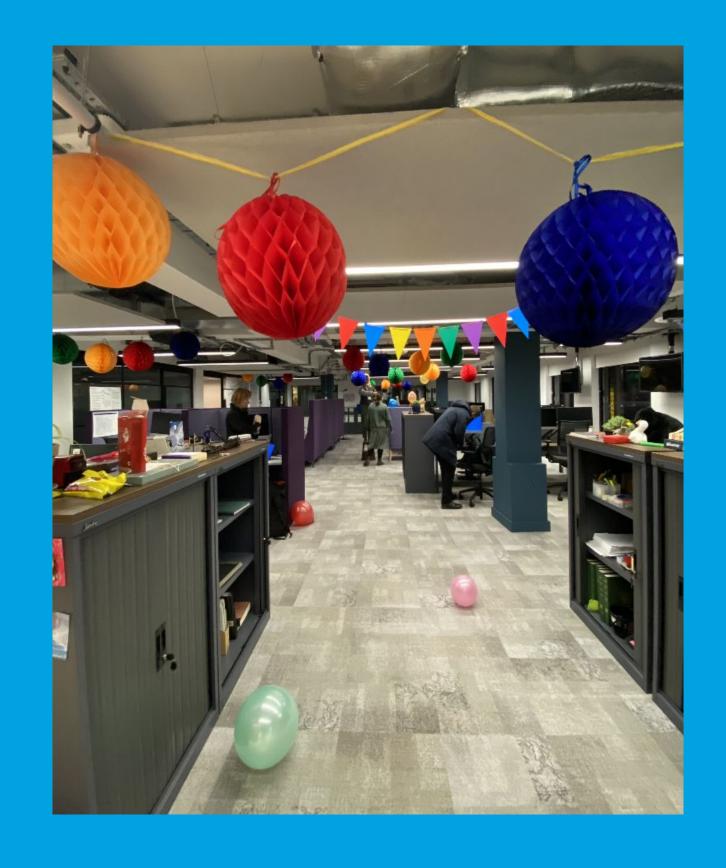
What is "the Thesaurus"?



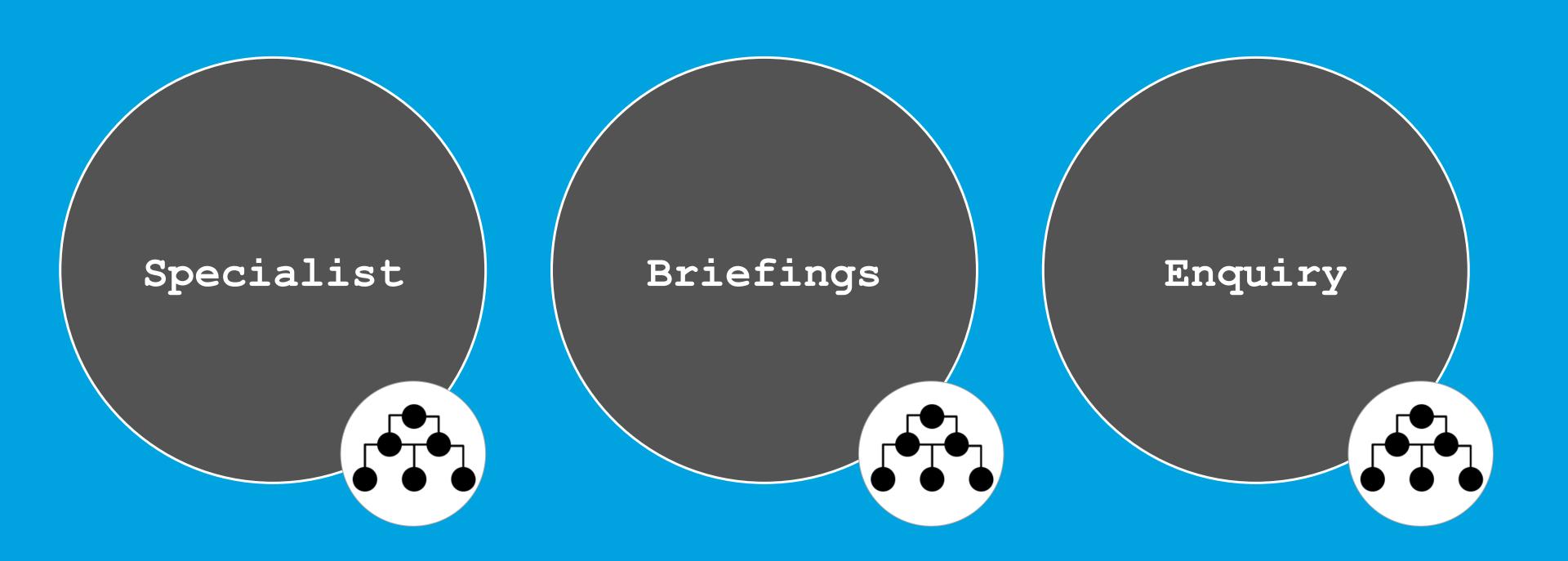
Why the Thesaurus?

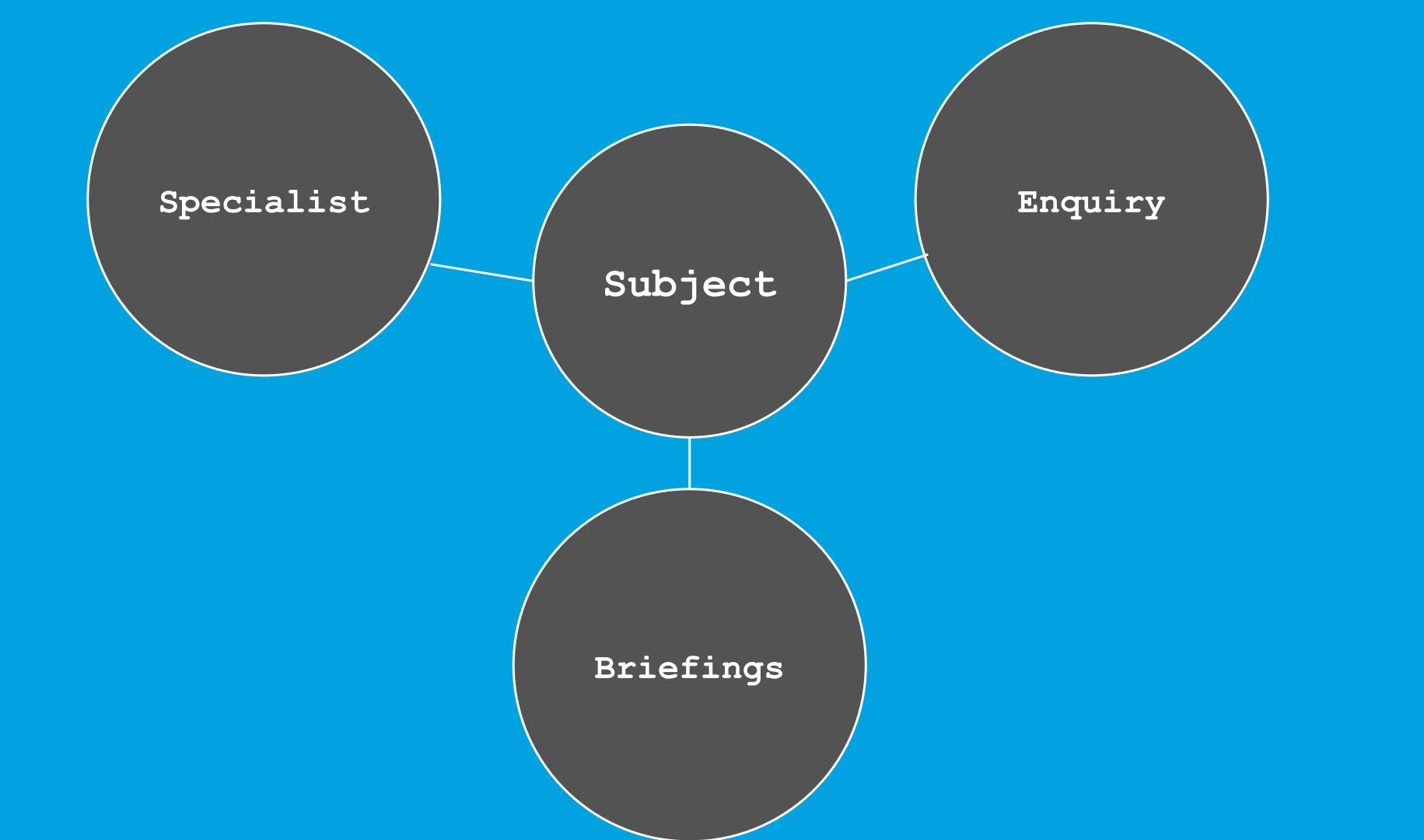
- 1. Stable identifiers
 2. Synonyms
- 3. Hierarchy and transitivity 4. Responding to change

5. Librarians!



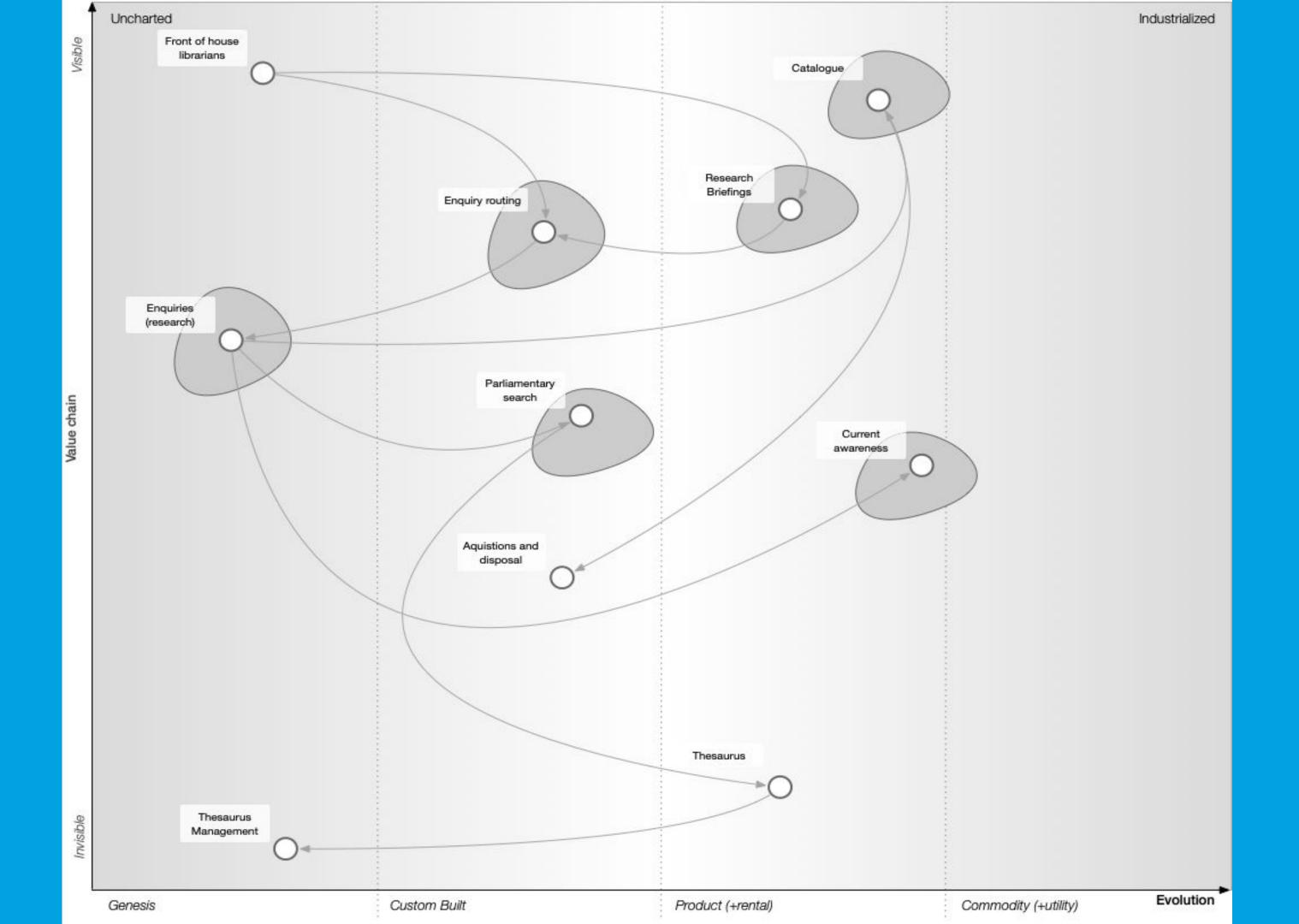
A single subject view of the Library

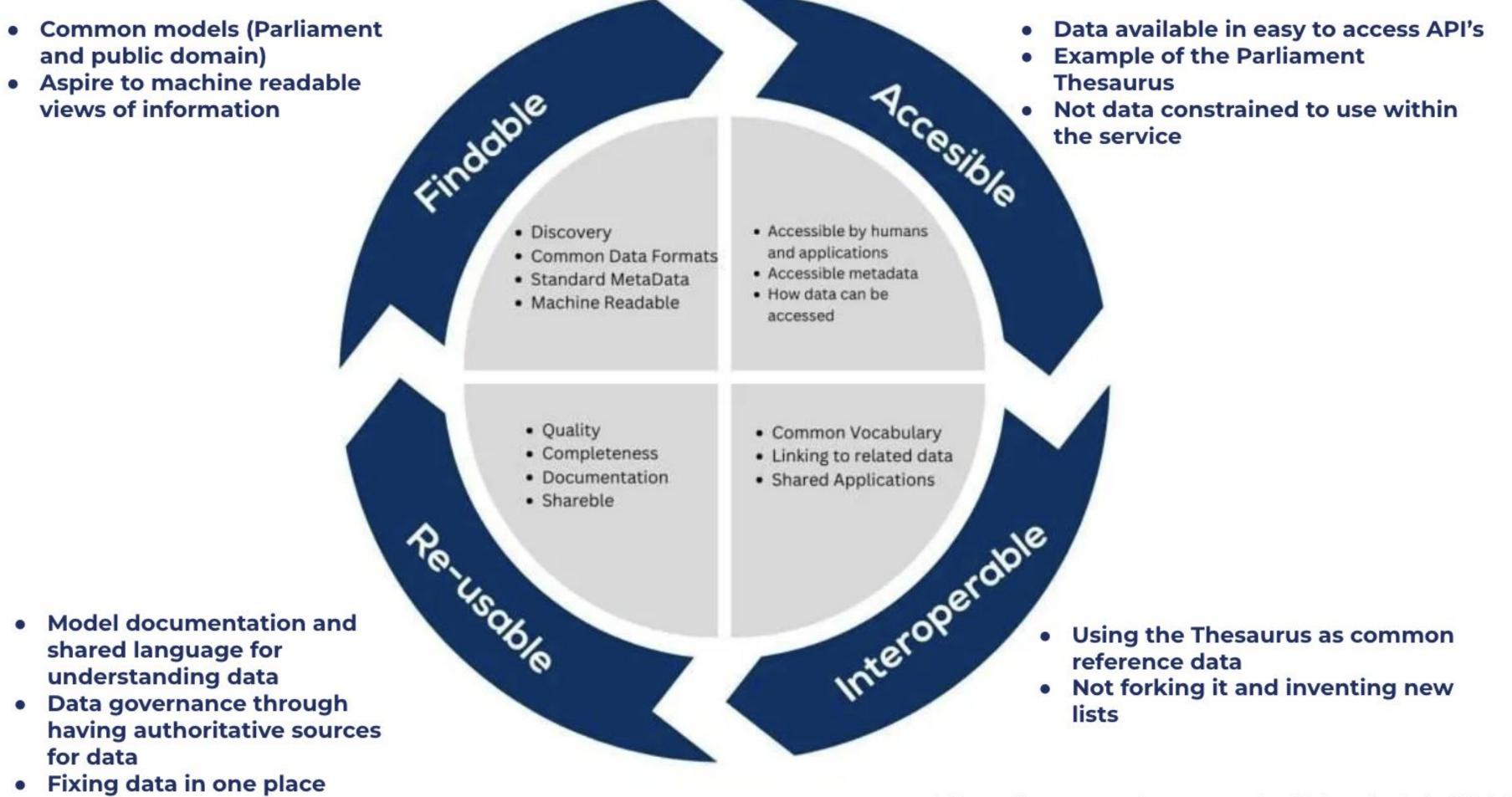




The approach

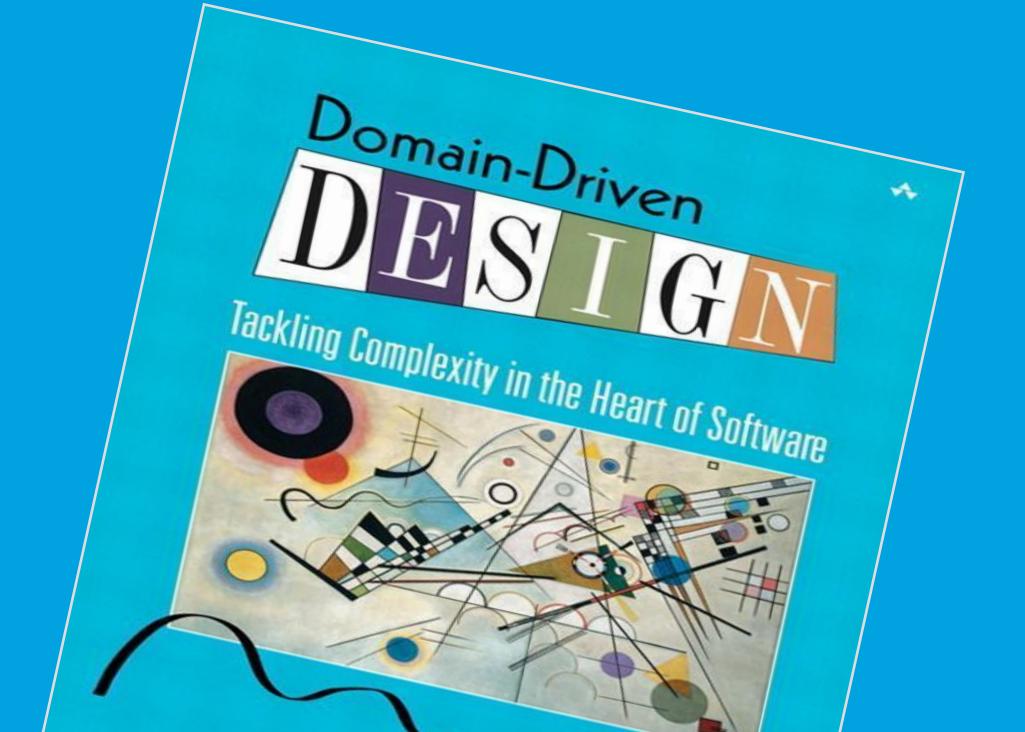
Domain-driven design + information management = Knowledge graph

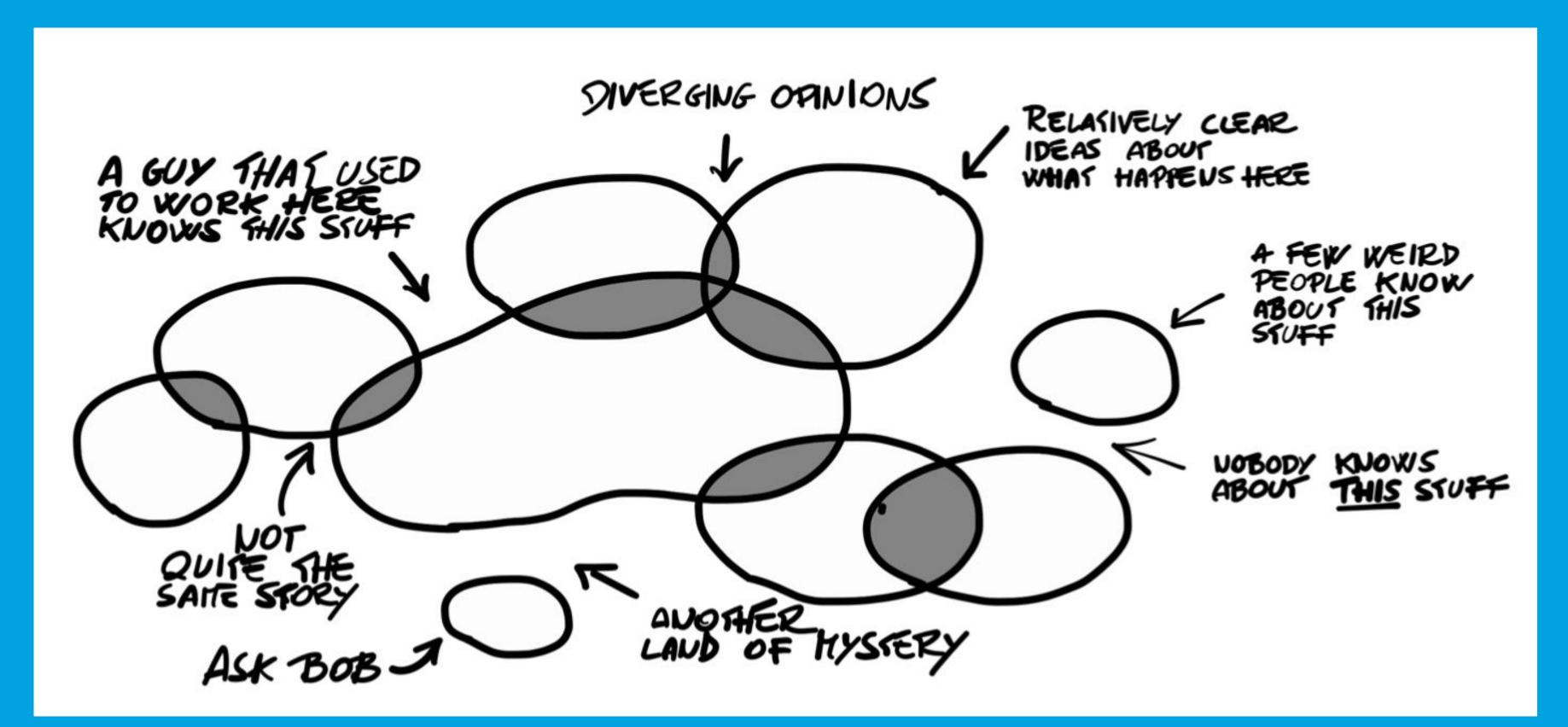




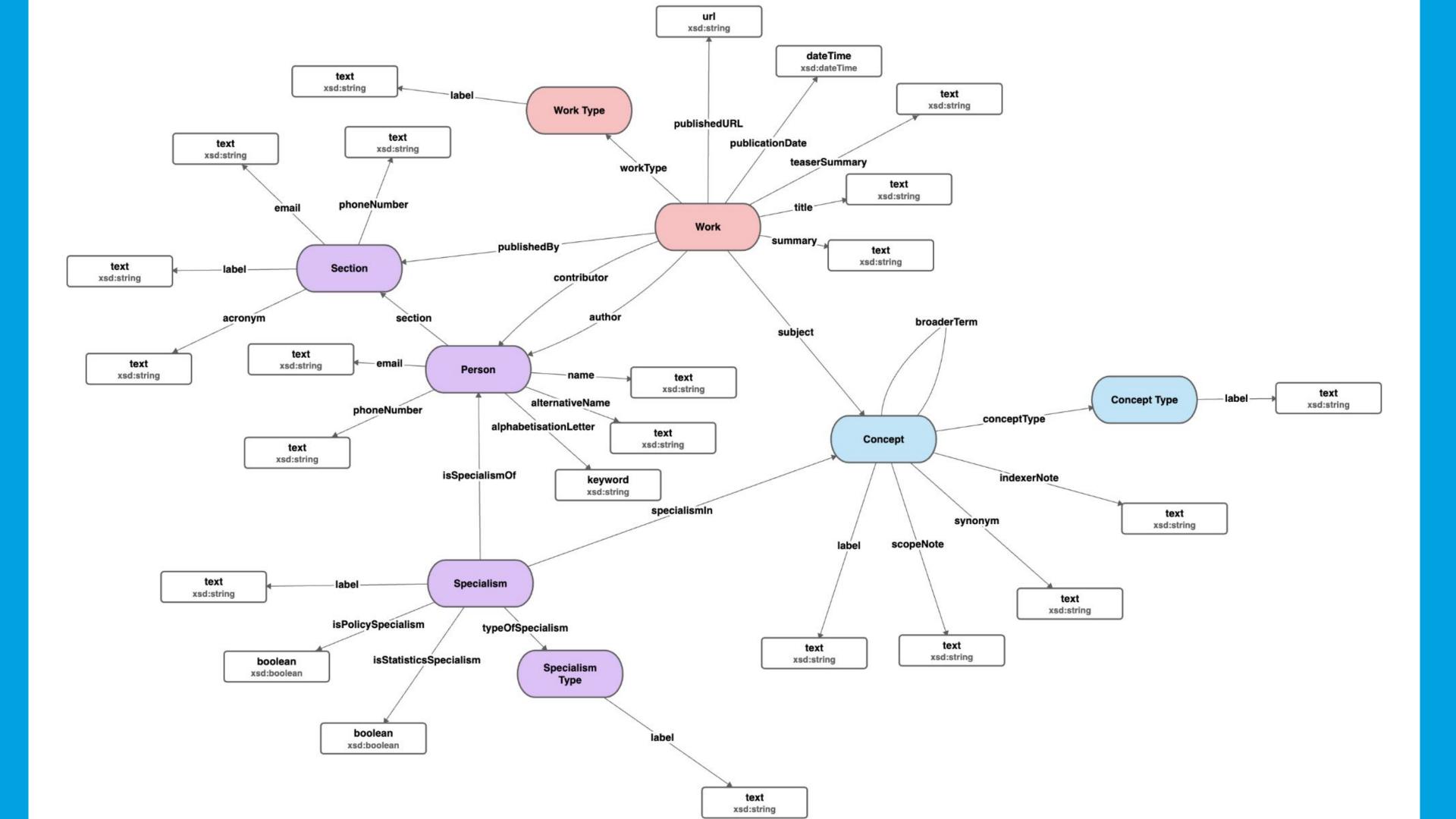
https://www.nature.com/articles/sdata201618

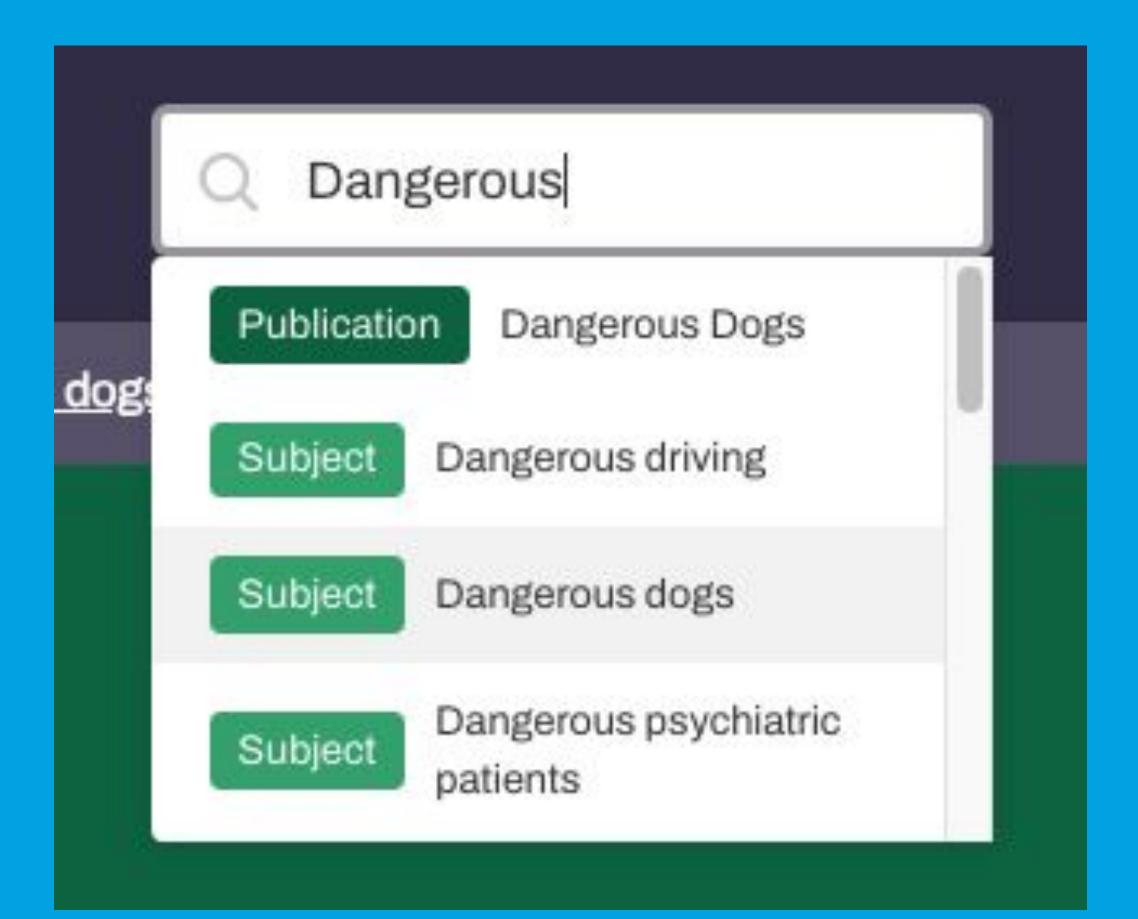
Domain-driven design





Alberto Brandolini









UK Parliament > House of Commons Library > Library Knowledge Base > Subjects > Dangerous dogs > Specialists

House of Commons Library

Specialists Sections Subjects

Dangerous dogs

Synonyms: Dogs in crime

Specialists (0) Publications (0) Parents (1) Siblings (8) Children (0)

The Library has no specialists directly assigned to Dangerous dogs. These specialists are being suggested because of their expertise in Animals:

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Paul Bolton	
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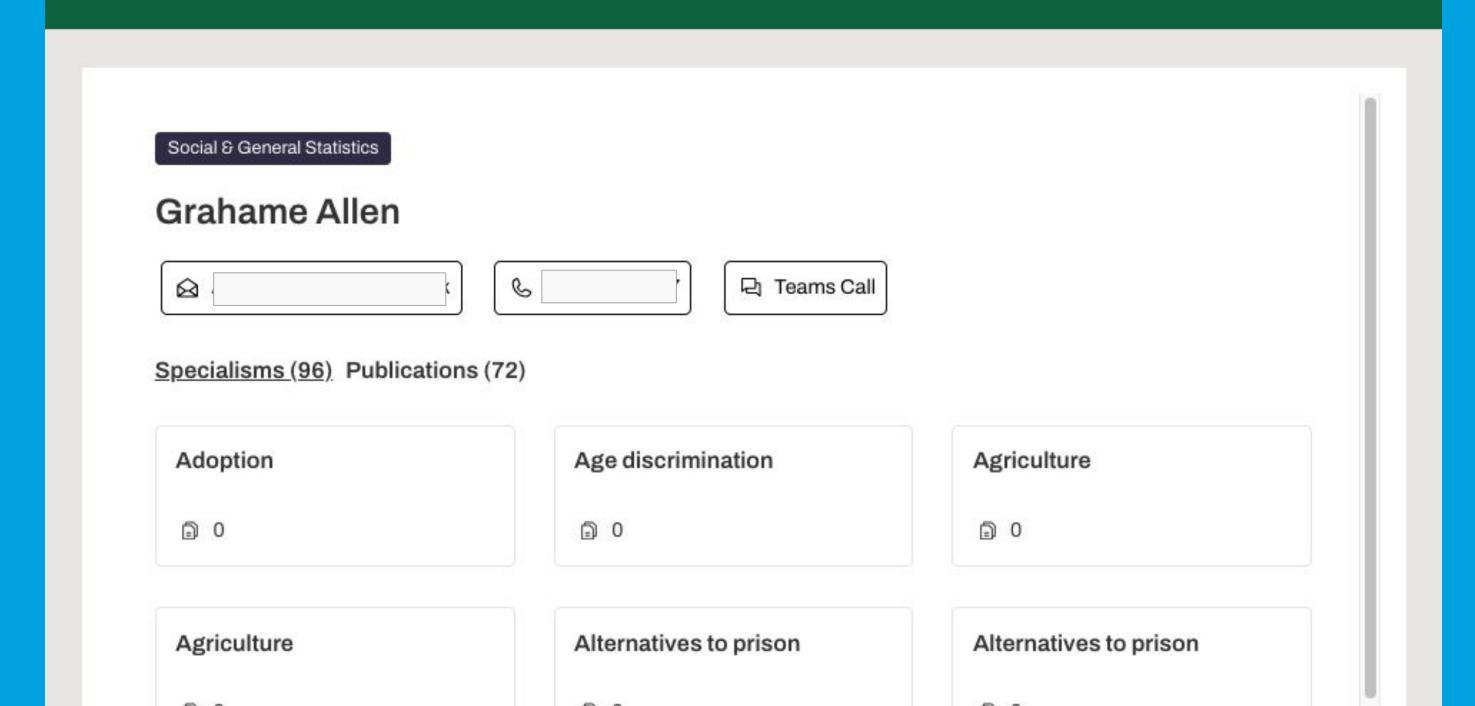




UK Parliament > House of Commons Library > Library Knowledge Base > Specialists > Grahame Allen > Subjects

House of Commons Library

Specialists Sections Subjects









A House of Commons Library / Graph Al BETA

House of Commons
Library

Today	•
what are the legisaltion options for dealing wi	13:38
how has policy changed to deal with new breeds	13:37
what are the policy options for reducing the im	13:36
how does vacant housing increase the cost for n	13:26
what policy changes could be used to reduce the	12:11
how does vacant housing impact prices for first	08:42
what are the potenital policy options to deal w	08:12
Yesterday	•
what are the potenital impacts on small compani	09:18
Last Month	•
Older	•

Ask me anything about y∯ur data

Outcome

- Making the mess more explicit and understood
- Less patching data at the end of data journey
- More meaningful work rather than fire fighting
- More accountability and control in the same place
- Less systems forking reference data(infrastructure is fit for purpose)
- Less time and cost to build out features

See Also

• Weeknotes:

https://ukparliament.github.io/ontologies/meta/weeknotes/

• Parliament models:

https://ukparliament.github.io/ontologies/

• How we make websites:

http://www.bbc.co.uk/blogs/radiolabs/2009/01/how_we_make_websi
tes.shtml

• Domain driven design for information professionals:

https://datalanguage.com/blog