



European  
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Horizon 2020  
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# Building the Legal Knowledge Graph for Smart Compliance Services in Multilingual Europe

Elena Montiel-Ponsoda, Víctor Rodríguez-Doncel and  
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TeReCom workshop at JURIX

 @lynxH2020

 13/12/2017  
 Luxemburg



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**BDV** BIG DATA VALUE  
ASSOCIATION

Grant Agreement number: 780602

ICT14-2016-2017 (IA) Innovation action Horizon 2020

Pillar: Industrial Leadership

Work Programme Year: H2020-2016-2017

Work Programme Part: [Information and Communication Technologies](#)

TOPIC : Big Data PPP: cross-sectorial and cross-lingual data integration and experimentation

Duration: 36 months

Starting date: 1<sup>st</sup> December 2017

Estimated Project Cost: €3,638,065.00

Requested EU Contribution: €2,959,247.52

Project Officer: Johan BODENKAMP

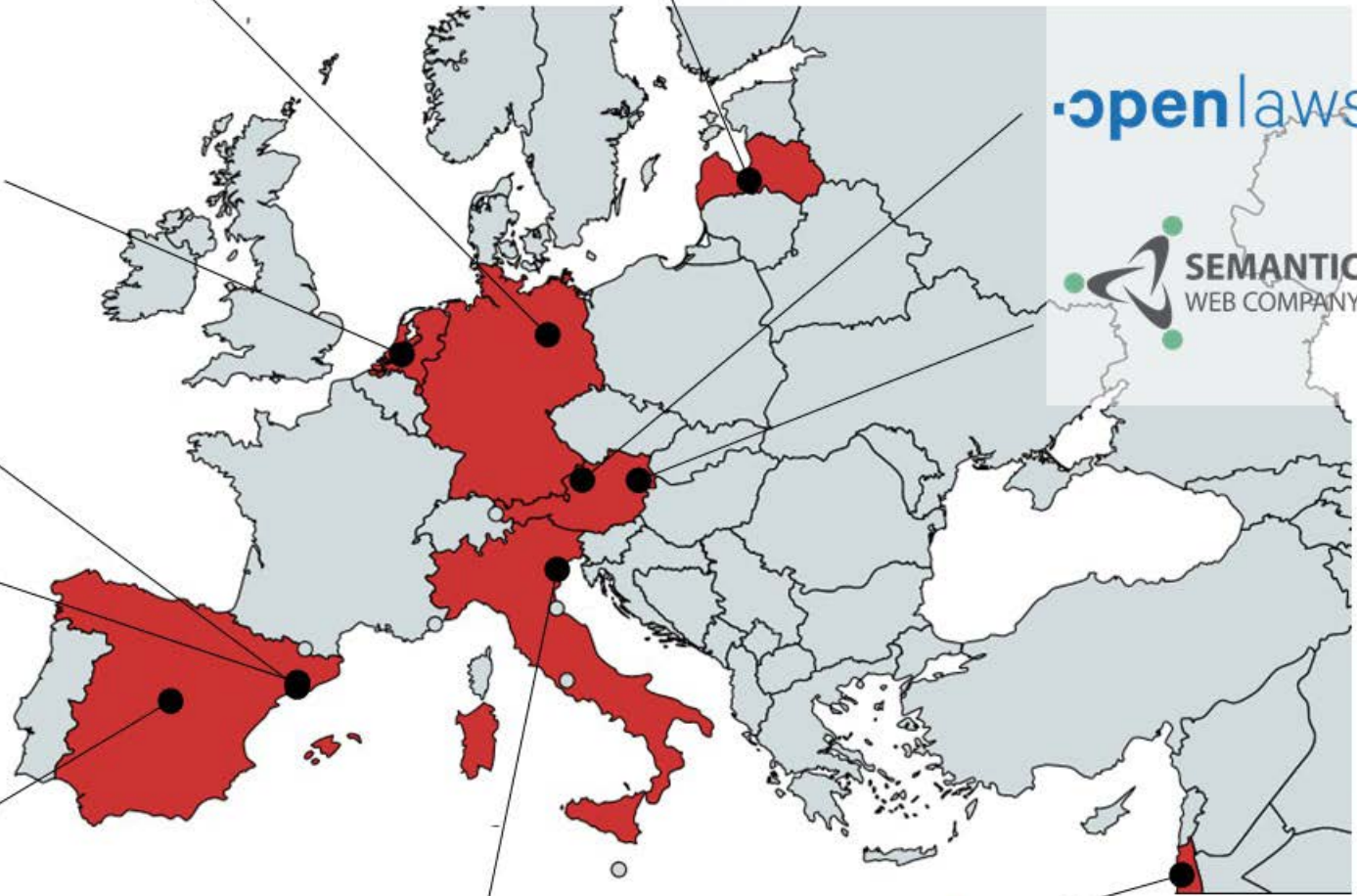


<http://lynx-project.eu>



WHO

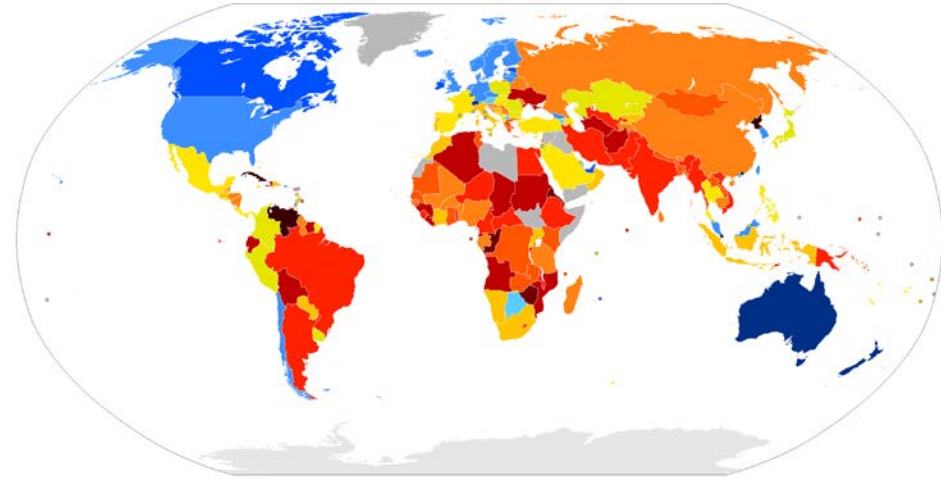
WHERE



WHY

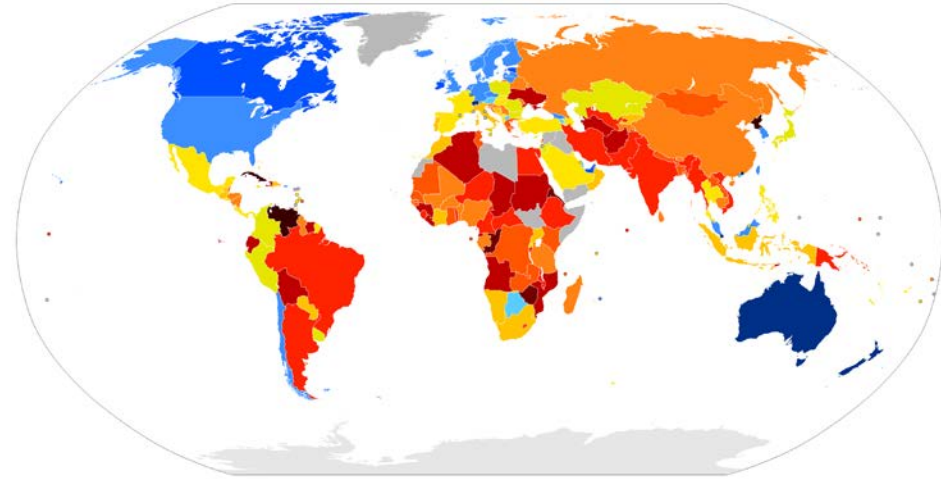


European SMEs





European SMEs



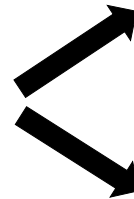




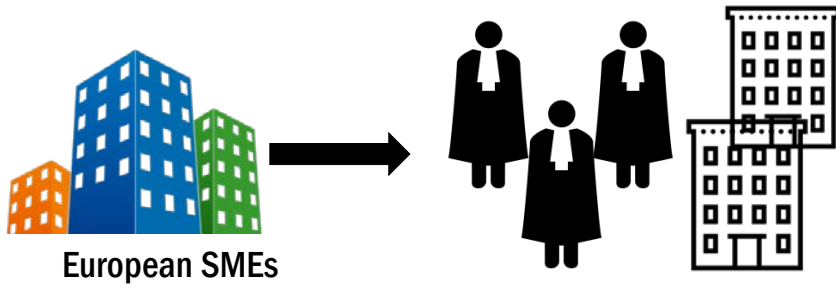
Compliance = conformance to a set of laws, regulations, policies or best practices



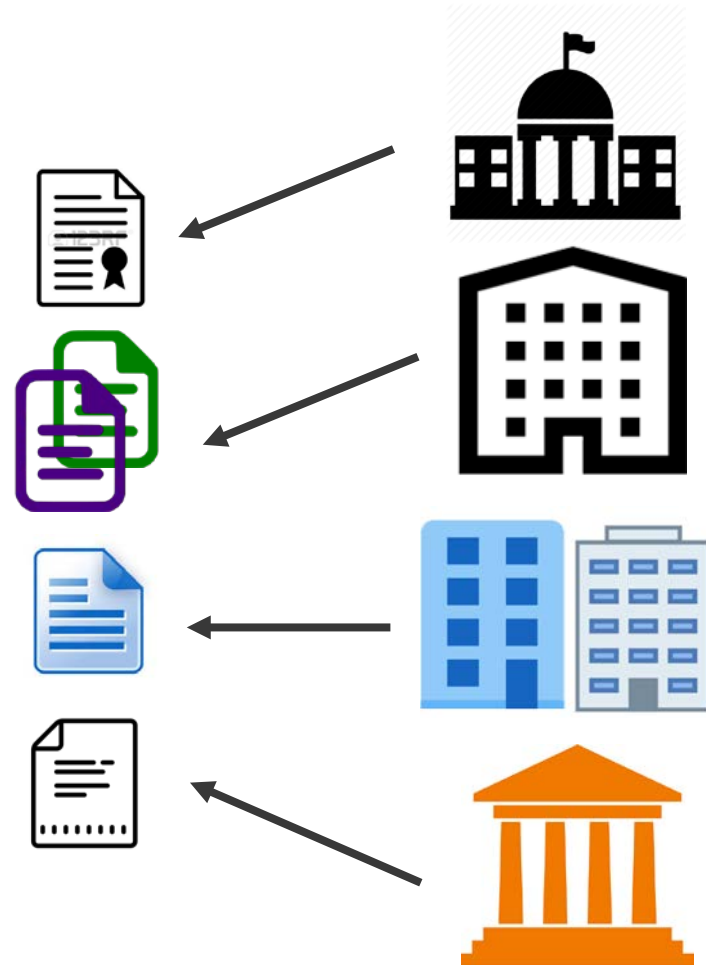
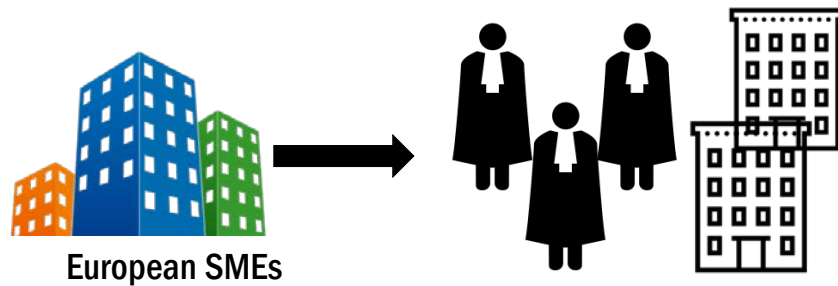
European SMEs



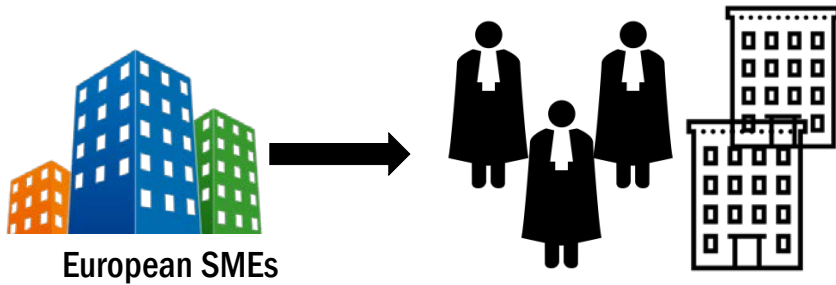
- Comply with applicable legislation (EU, national, regional, local)
- Implement standards and norms (ISO, AENOR...)
- Follow sector-specific best practices



Institutions publish their documents and data sources in different **formats** and according to different **criteria**, and...



... in different **languages**





How



Public access  
Open documents, simple interface



Developer access  
Freemium HTTP Rest API



Professional access  
Specific access and data integration

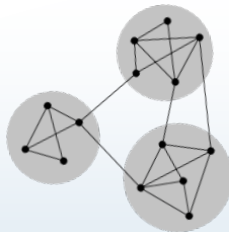
Pilot 1: Data protection

Pilot 2: Oil, gas, energy

Pilot 3: Labour law

## Smart Services for Compliance

search, linking, recommender, semantic annotation, extraction, translation, summarization, recommender



Vocabularies  
Indexed documents

## Legal Knowledge Graph

data source specific importers



Legal resources



International Standards



Language resources



Open Data



Private documents




Annotation  
Linking  
Translation

# 3

## EXPLOITATION

  
Public access  
Open documents, simple interface

  
Developer access  
Freemium HTTP Rest API

  
Professional access  
Specific access and data integration

Pilot 1: Data protection

Pilot 2: Oil, gas, energy

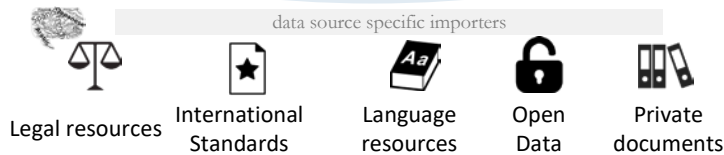
Pilot 3: Labour law

### Smart Services for Compliance

search, linking, recommender, semantic annotation, extraction, translation, summarization, recommender

# 2

## INTEGRATION



Annotation  
Linking  
Translation

# 1

## ACQUISITION






WHAT



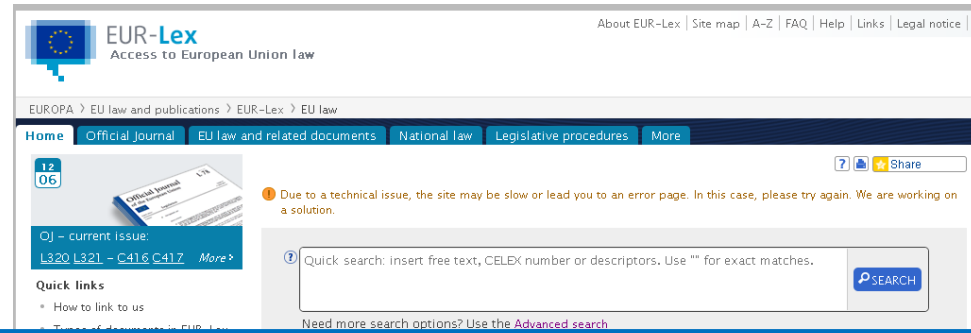
# 1

## ACQUISITION

data source specific importers

-  Legal resources
-  International Standards
-  Language resources
-  Open Data
-  Private documents

Annotation  
Linking  
Translation



EUR-Lex  
Access to European Union law

EUROPA > EU law and publications > EUR-Lex > EU law

Home | Official Journal | EU law and related documents | National law | Legislative procedures | More

12 06

OJ - current issue  
L320 L321 - C416 C417 [More >](#)

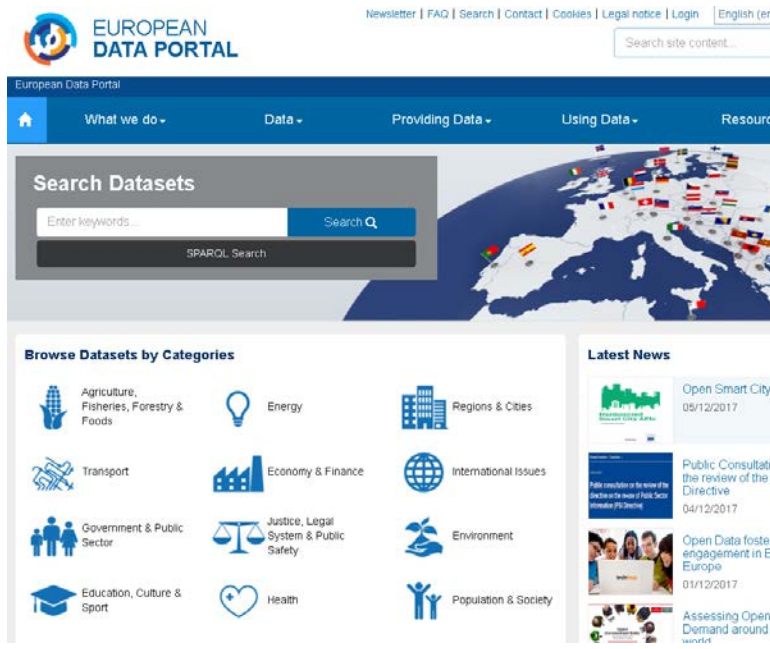
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Enter keywords... [Search](#)

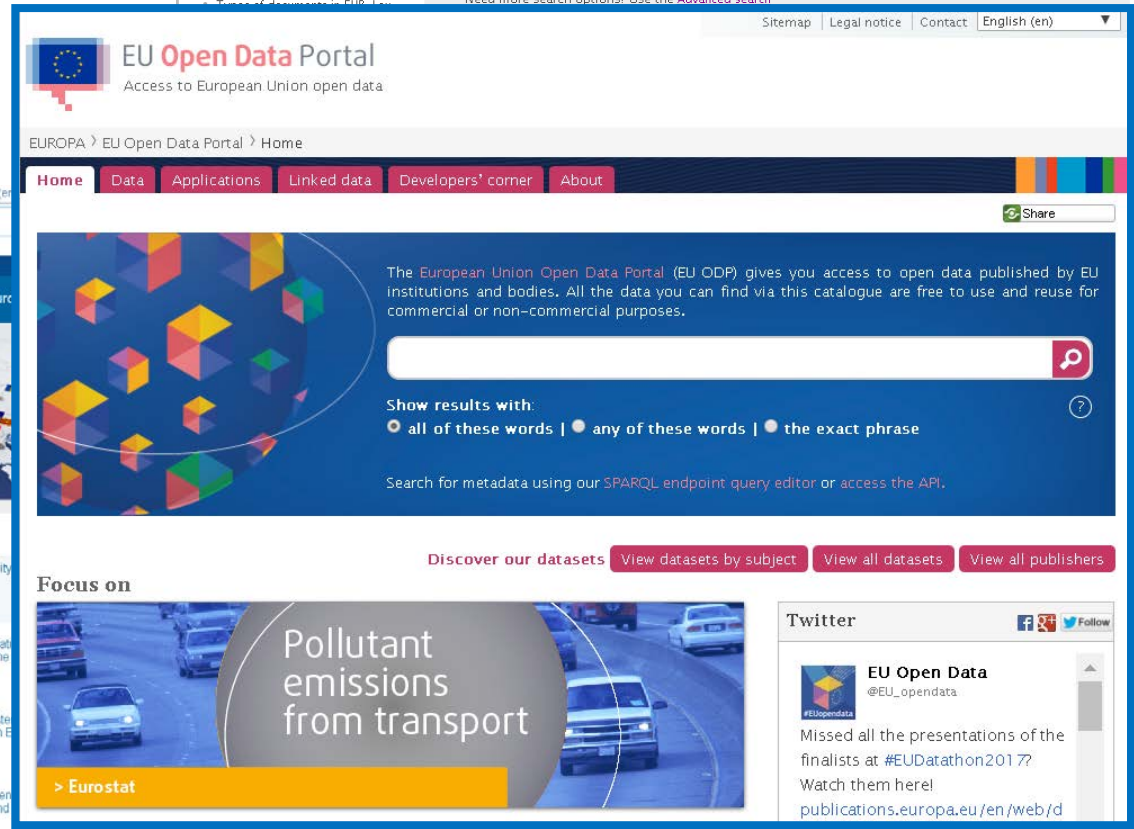
SPARQL Search

Browse Datasets by Categories

- Agriculture, Fisheries, Forestry & Foods
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- Regions & Cities
- Transport
- Economy & Finance
- International Issues
- Government & Public Sector
- Justice, Legal System & Public Safety
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- Education, Culture & Sport
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# 2

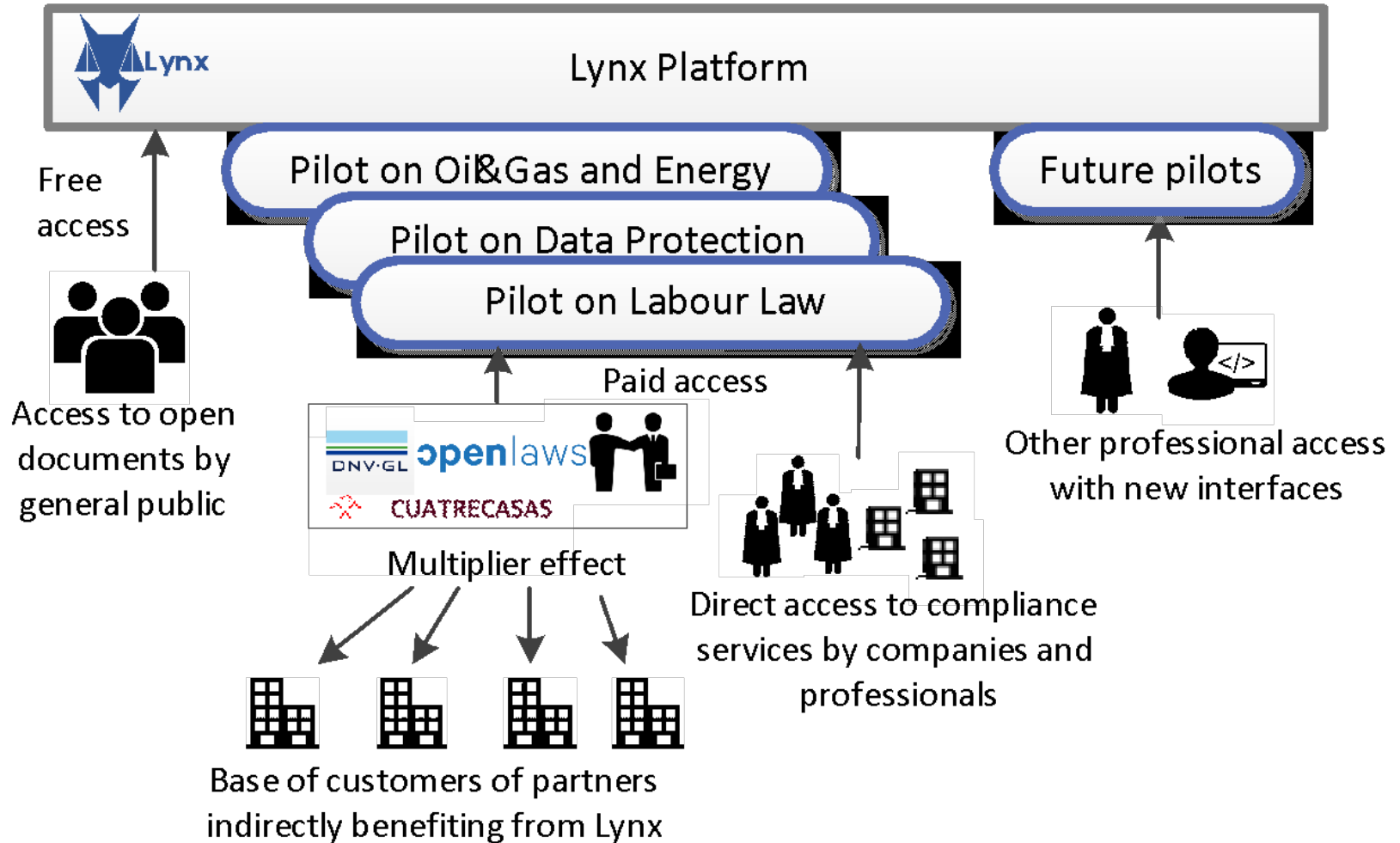
## INTEGRATION



Linking services	Language services	Information retrieval services
Extraction	Translation	Intelligence search
Annotation	Summarisation	Docu. comparison
Interlinking		Recommendation and Alert service
Disambiguation		

# 3

## EXPLOITATION





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