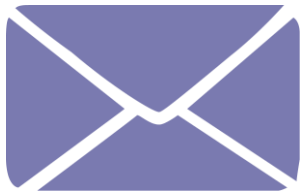




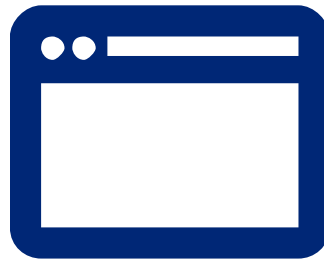
The publication of ESCO as Linked Open Data

**24th meeting of the
ESCO Maintenance
Committee**

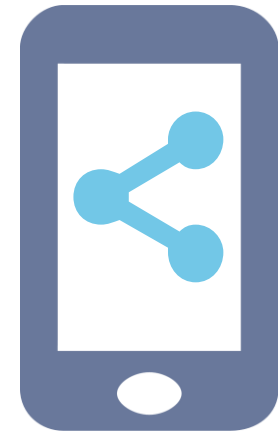
From documents to structured data



Paper



Online documents



Machine
readable data

Machine readable data

Property	Value
Name	John
Parent 1	Oliver
Parent 2	Mary
Job	Accountant
Location	Leeds
Knows	Maria

Semantic assets



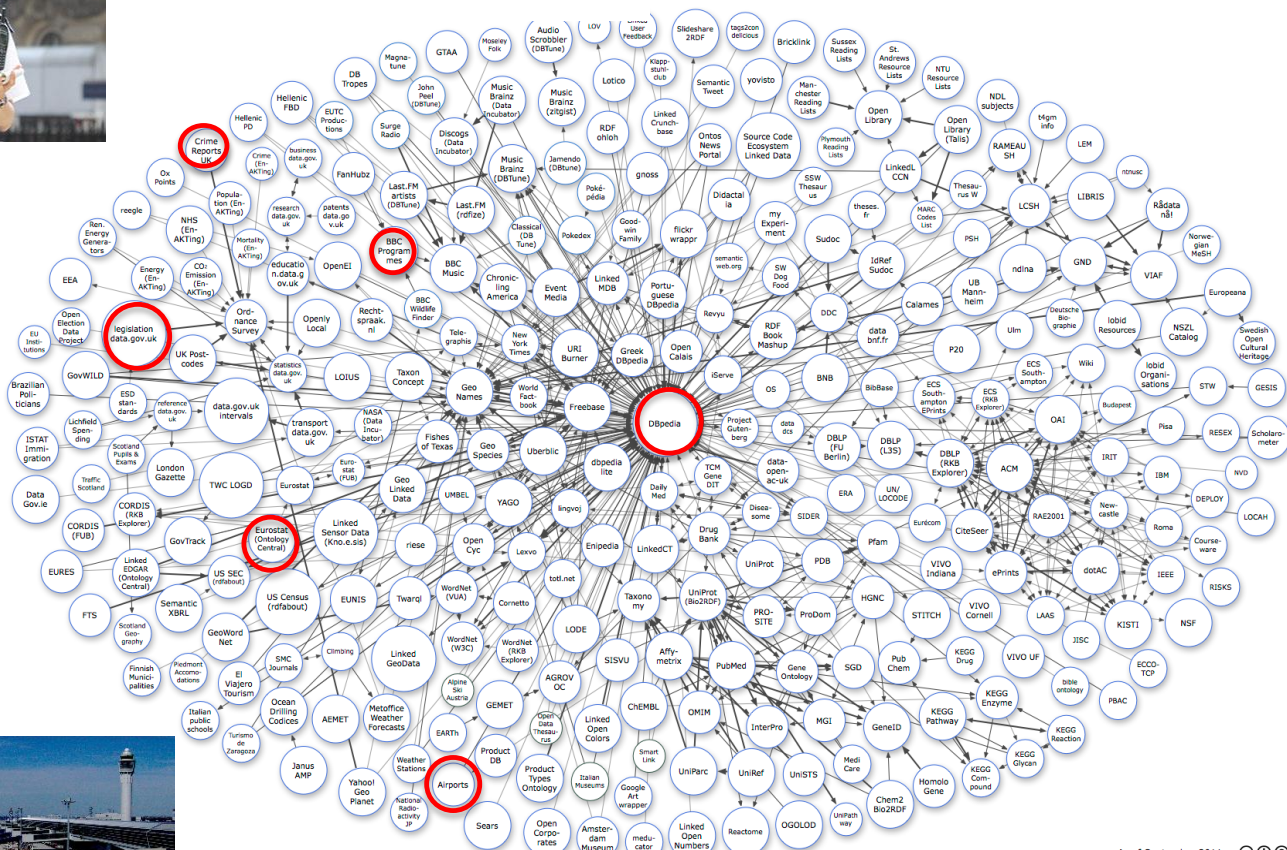
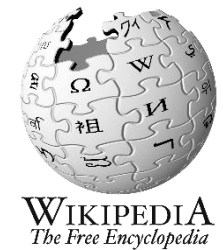



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Linking data

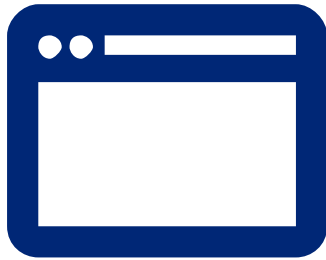
The World Wide Web as a Giant Global Database



As of September 2011 

Simple search vs AI

Question: who is the current president of the USA?



President of the United States - Wikipedia
https://en.wikipedia.org/wiki/President_of_the_United_States • Traduci questa pagina
United States Congress - United States House of Representatives 2017.svg - 115th United States ... On January 20, 2017, Donald Trump was sworn in as the 45th and current president ... List of Presidents of the United States who were Freemasons ... Blair House - Head of state - Mr. President - Vice President of the United States ...

List of Presidents of the United States - Wikipedia
https://en.wikipedia.org/wiki/List_of_Presidents_of_the_United_States • Traduci questa pagina
United States Congress - United States House of Representatives 2017.svg - 115th United States ... Thus the incumbent, Donald Trump, is the nation's 45th president. ... the United States Constitution in 1951, no person may be elected president more than twice, and no one who has served more than two years of a ... (current list)
List of Presidents of the United States - National Union Party - Presidency of John Adams ...

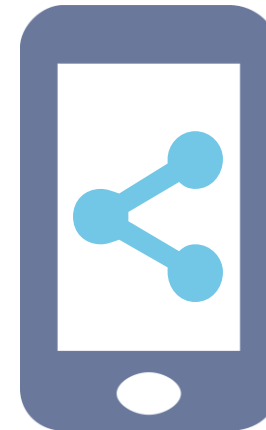
What is the full name of the current president of the United States of America ...
<https://www.manplanet.com/what-is-the-full-name-of-the-current-president-of-the-united-states/> • Traduci questa pagina
15 set 2014 - In 2004, Obama received national attention during his campaign to represent Illinois in the United States Senate with his victory in the ...

President of the United States of America - Conservapedia
www.conservapedia.com/President_of_the_United_States_of_America • Traduci questa pagina
21 gen 2017 - The President of the United States is the head of the U.S. Executive Branch. ... Donald J. Trump currently is the 45th and current President of the United States (the day he was sworn in to the office) until January 20, 2017 (the day President Donald Trump was sworn in to ...)

Who is the current President of the United States? | Socratic
<https://socratic.org/questions/who-is-the-current-president-of-the-united-states> • Traduci questa pagina
16 lug 2016 - Who is the current President of the United States? U.S. History ... How did Executive Order 9066 affect civil liberties in the United States? U.S. ...

Who Will Really Be the Next President of the United States? | Foreign Policy
<https://foreignpolicy.com/2016/07/16/who-will-really-be-the-next-president-of-the-united-states/> • Traduci questa pagina
27 dic 2016 - Truman's top advisers did not see the United States could face the ... by a Trump Organization executive vice president and lawyer who will be ...

Donald Trump Becomes 45th President of the United States
<https://thelearningenglish.voanews.com/a/donald-trump-becomes-45th-president-of-the-united-states/> • Traduci questa pagina
08 nov 2016 - Donald Trump Becomes 45th President of the United States ... pollster - n, someone who makes questions for a poll, asks questions in a poll, ...



Donald
Trump



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European public sector data

Directive 2013/37/EU on reuse of public sector data:

- *Public data has significant potential for re-use in new products and services.*
- *Addressing societal challenges – having more data openly available will help us discover new and innovative solutions.*
- *Achieving efficiency gains through sharing data inside and between public administrations.*
- *Fostering participation of citizens in political and social life and increasing transparency of government.*

Linked Open Data

Data can be reused and "linked to" in real time

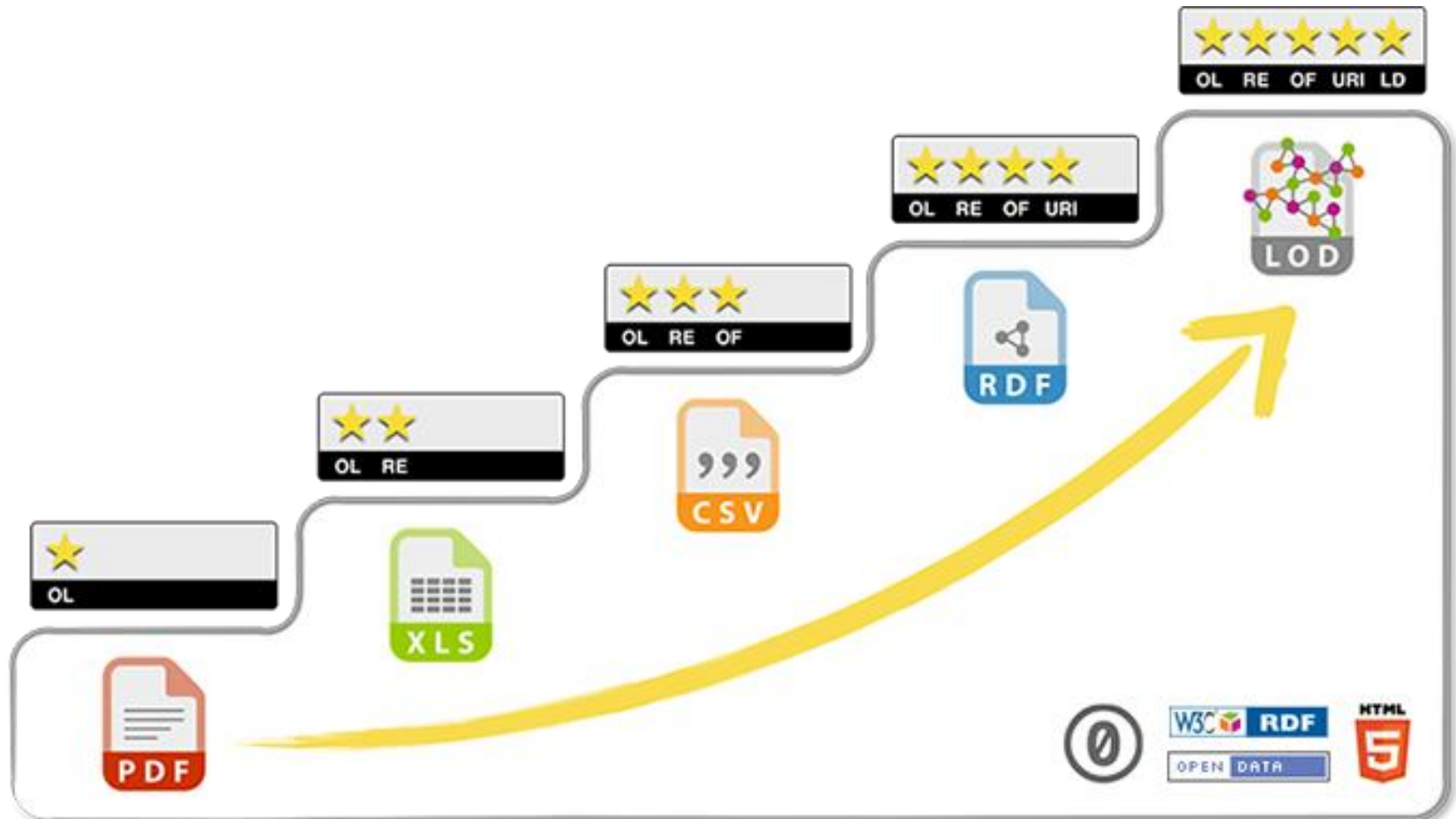
Compliance requires quality assurance before publication

Reduces costs associated with updating the data



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In practice – the 5 star model



ESCO as Linked Open Data

Scope disambiguation

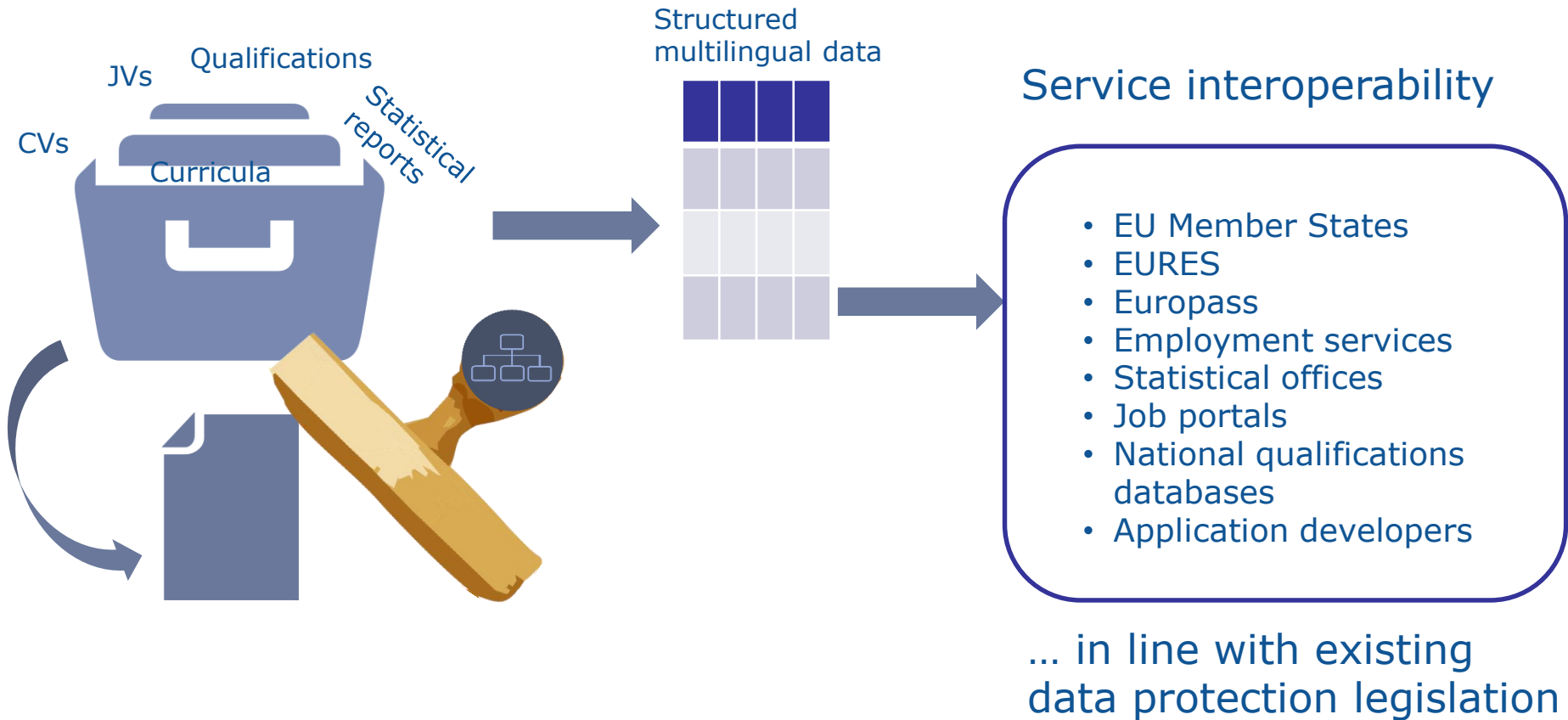
Uniqueness of concept identifiers

- Identifiers are unique over the web
- Data from different sources can link to it
- Identifiers are persistent

E.g.
<http://data.europa.eu/esco/skill/19ba11f3-9c99-41fd-a7c9-f77e6a026186>

Backward compatibility

ESCO supporting interoperable labour market services





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Questions?