

The top of the slide features a dark blue background. On the left, the letters 'L E' are stacked above 'R U'. The 'L' and 'E' are white, while the 'R' and 'U' are yellow. To the right of the text is a glowing blue and green globe with a network of yellow and green lines connecting various points across its surface.

**L E**  
**R U**

# What Universities want from EU copyright reform

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# Content



- ▶ LERU Universities
- ▶ New research methods: Open Science
- ▶ The Hague Declaration
- ▶ TDM Exception
- ▶ Conclusion

# Content



- ▶ **LERU Universities**
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# LERU



## About LERU

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Since its founding in 2002, the League of European Research Universities (LERU) has emerged as a prominent advocate for the promotion of basic research at European universities. LERU strongly believes that basic research plays an essential role in the innovation process and significantly contributes to the progress of society.

LERU aims at furthering the understanding and knowledge of politicians, policy makers and opinion leaders about the role and activities of research-intensive universities. Drawing on the impressive academic potential and expertise of its network, LERU has a strong and significant impact on research policy in Europe.



*Alain Beretz, Chair of LERU*

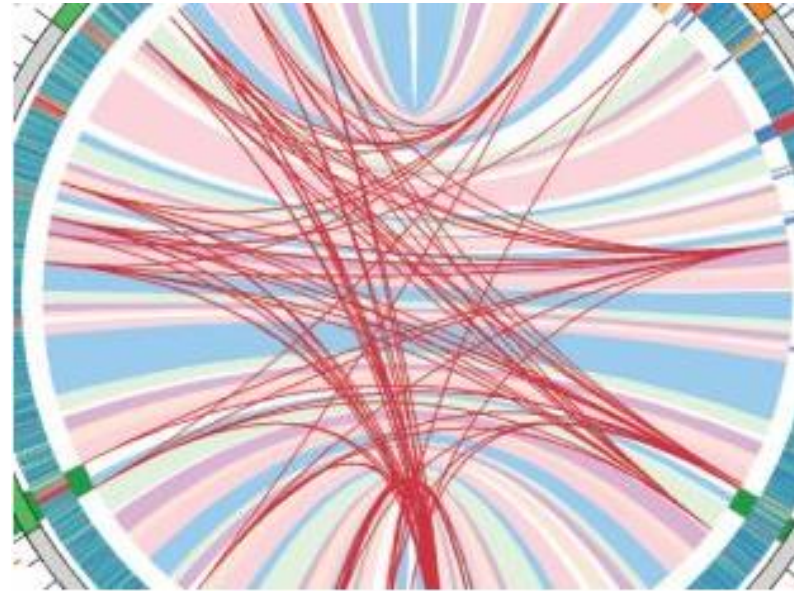
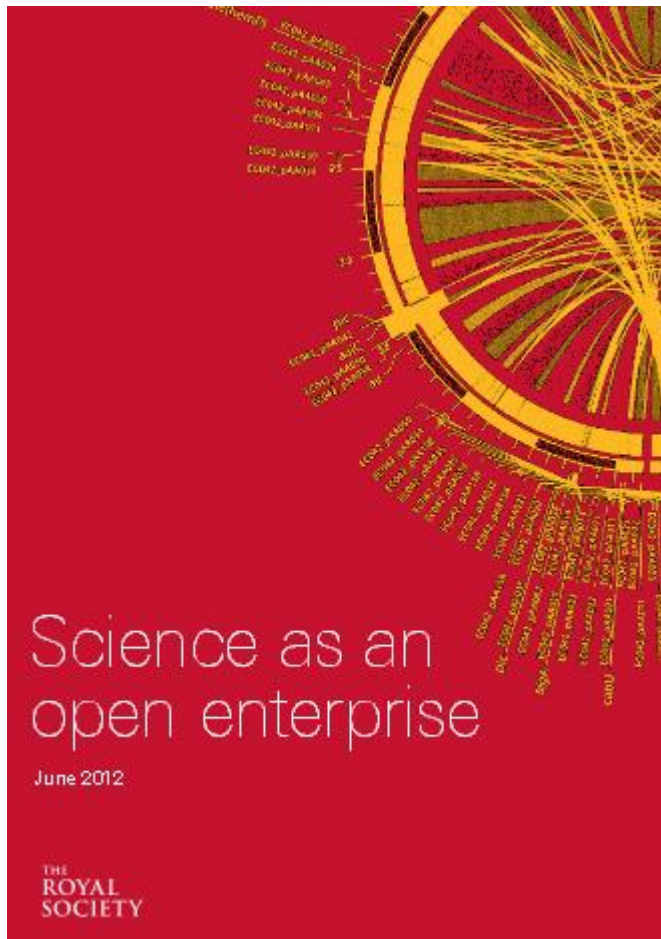
21 research-intensive  
Universities across  
Europe

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The Spanish Cucumber E. Coli. This genome was

See [Science as an open enterprise](http://royalsociety.org/policy/projects/science-public-enterprise/report/)  
<http://royalsociety.org/policy/projects/science-public-enterprise/report/>

## THE LERU ROADMAP TOWARDS OPEN ACCESS

LERU OPEN ACCESS WORKING GROUP

### LEAGUE OF EUROPEAN RESEARCH UNIVERSITIES

Universitat van Amsterdam - Universitat de Barcelona - University of Cambridge - University of Edinburgh - Albert-Ludwigs-Universität Freiburg - Universitat de Göttingen - Ruprecht-Karls-Universität Heidelberg - Helsingin yliopisto (University of Helsinki) - Universitat Leiden - Katholieke Universiteit Leuven - Imperial College London - University College London - Scuola waveriana - Università degli Studi di Milano - Ludwig-Maximilians-Universität München - University of Oxford - Universität Pierre et Marie Curie, Paris - Universitat Politècnica de Catalunya - Universität Sarajevo - Universitat Utrecht - Universität Zürich

See:

<http://www.leru.org/index.php/public/publications/category/advice-papers/>



## LERU ROADMAP FOR RESEARCH DATA

LERU RESEARCH DATA WORKING GROUP

### LEAGUE OF EUROPEAN RESEARCH UNIVERSITIES

University of Amsterdam - Universitat de Barcelona - University of Cambridge - University of Edinburgh - University of Freiburg - Universitat de Göttingen - Ruprecht-Karls-Universität Heidelberg - University of Helsinki - Universitat Leiden - KU Leuven - Imperial College London - University College London - Loughborough University - University of Milan - Ludwig-Maximilians-Universität München - University of Oxford - Pierre et Marie Curie University - Universitat Politècnica de Catalunya - Universität Sarajevo - Utrecht University - Universität Zürich

# Text and Data Mining (TDM)

## What is it?



- ▶ TDM derives information from machine-read material
- ▶ It works by copying large quantities of material, extracting the data, and recombining it to identify patterns
- ▶ Essential aspect of Science 2.0 or Open Science



LIBER TDM Factsheet at  
<http://libereurope.eu/wp-content/uploads/2014/11/Liber-TDM-Factsheet-v2.pdf>



# Community view of TDM

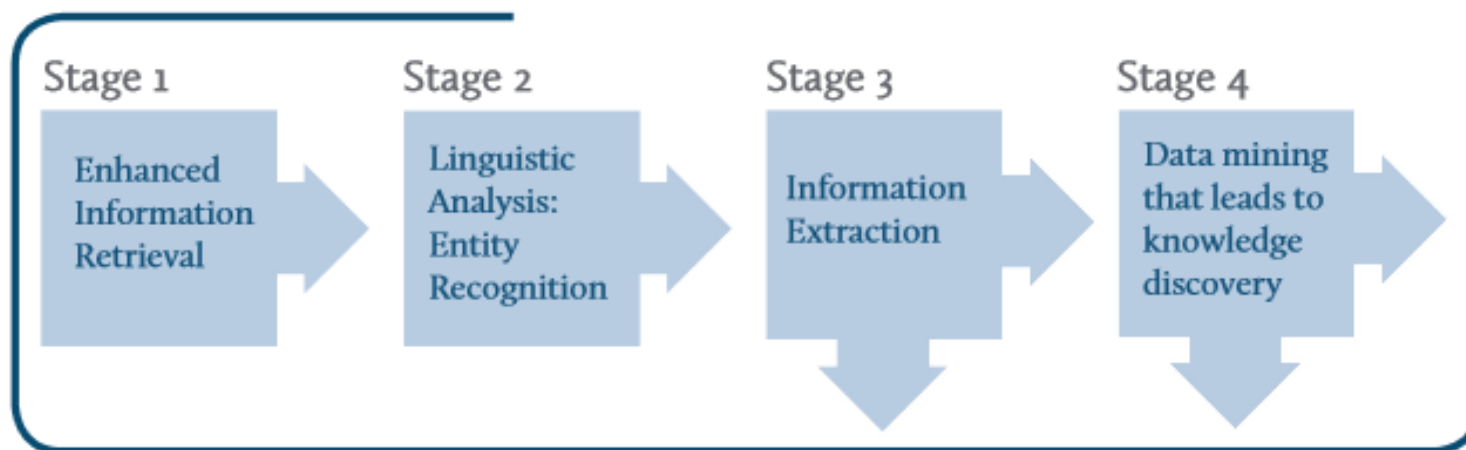


- ▶ Less TDM activity is undertaken in Europe than other parts of the globe, partly because of European copyright frameworks
- ▶ Publishers offering licences for TDM which many researchers deem restrictive



LIBER TDM Workshop, London 2013

It is essential to understand that TDM is concerned with the extraction of facts and data from vast quantities of material for research purposes, not with substituting the original material.

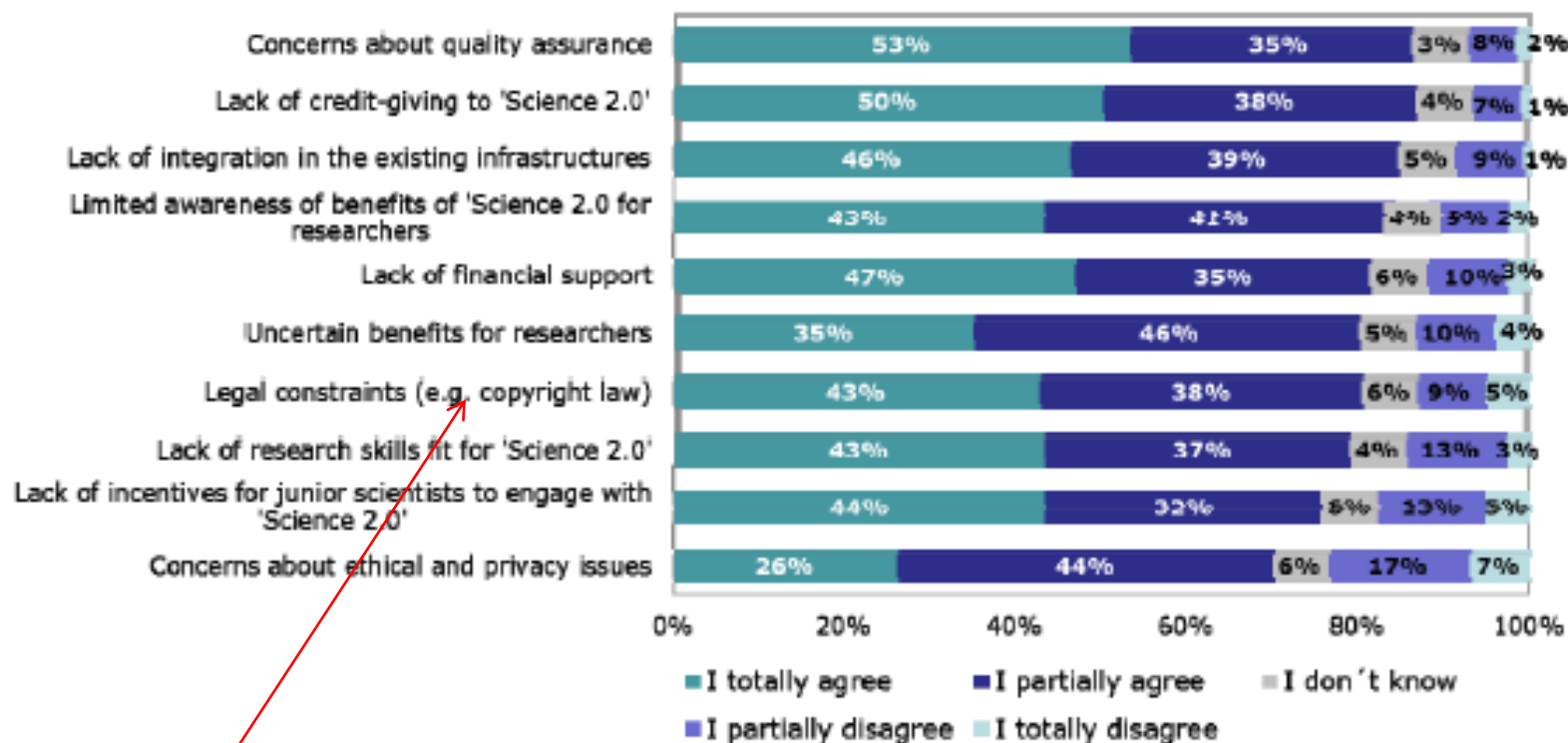


*The components of text and data mining.<sup>2</sup>*

## Why is it important?

TDM will increase the progress of science exponentially. It has the potential to facilitate the discovery of cures for diseases such as cancer and Parkinson's. It has already been used to discover new applications for existing drugs and will act as a foundation for innovation and new industry. For libraries, it means that the researchers we support will be able to fully realise the value of our growing collections of scientific content. This will, in turn, ensure a more rigorous approach to research, including more through reviews of the literature.

# Barriers to Open Science – for individual researchers; results of EU Open Science consultation



81% totally or partially agreed that copyright is a constraint

# Content



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# The Hague DECLARATION



**The Hague Declaration** aims to foster agreement about **access** to facts, data and ideas for **knowledge discovery** removing barriers to accessing and analysing the wealth of society, we can **find answers to great challenges** such as depleting natural resources and globalisation.

>  
We've written a Declaration  
to improve Knowledge  
Creation in the Digital Age.  
Sign it.

[Image by Sebastien Wiertz, CC-BY.](#)

<http://thehaguedeclaration.com/>

**207**

Organisations  
signed

**451**

People  
signed



Add your  
signature



# The Hague Declaration



- ▶ Covers the research data aspects of Open Science
- ▶ Facts – The sky is blue – are not subject to copyright laws
- ▶ Copyright was not designed to control or restrict access to the truth



A Box of Useful Knowledge  
(Brougham Papers, UCL Library Services)

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# What Universities need



- ▶ TDM Exception in EU Copyright reform
  - Mandatory across Europe
  - Cannot be overridden by contract
  - Providing pan-European framework for research
  - Everyone enabled to do TDM on material to which they have legal access



King's Cross Station, London

# Benefits of TDM



## Benefits of Content Mining

The potential benefits of content mining are vast and include:

- Addressing grand challenges such as climate change and global epidemics
- Improving population health, wealth and development
- Creating new jobs and employment
- Exponentially increasing the speed and progress of science through new insights and greater efficiency of research
- Increasing transparency of governments and their actions
- Fostering innovation and collaboration and boosting the impact of open science
- Creating tools for education and research
- Providing new and richer cultural insights
- Speeding economic and social development in all parts of the globe

# Content



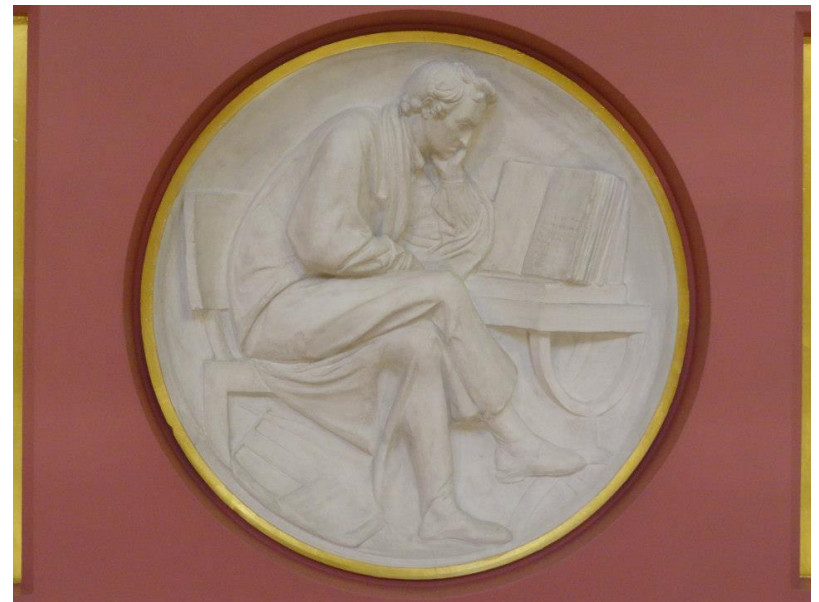
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# Conclusion



- ▶ Paradigm shift in the way research is performed
- ▶ Europe is falling behind in not having a modern copyright framework
- ▶ Mandatory Exception for TDM is essential
  - Cannot be overridden by contract
  - Everyone with legal access to content should benefit



Plaster Relief by John Flaxman,  
Flaxman Gallery, UCL

# Next Steps



- ▶ Further Views
- ▶ Discussion with the Audience

[http://en.wikipedia.org/wiki/File:DNA\\_orbit\\_animated.gif](http://en.wikipedia.org/wiki/File:DNA_orbit_animated.gif)

