UNLOCKING TEXT & DATA MINING IN EUROPE

TDM HELPS AND ENSURES EUROPE'S COMPETITIVENESS AND FUTURE PROSPERITY

WHAT IS TDM?

DEFINITION OF TDM



TDM (TEXT & DATA MINING) IS A

TECHNOLOGY THAT USES DATA FROM LAWFULLY OBTAINED MATERIAL, ANALYSING IT TO FIND NEW PATTERNS AND ACHIEVE NEW INSIGHTS IN LINE WITH EU DATA PROTECTION RULES.

TDM can be used by all: students, public institutions, small or large businesses, to do speculative, innovative things. It can be used by doctors to find new cures. It can be used by librarians and teachers to educate.

Researchers and businesses should be able to use information they already have legal access to. TDM will be harmed by changes to EU copyright rules that would chill new research by not allowing all users to learn from materials they have already paid to read.

TDM-led ideas and solutions are key for Europe's innovative companies, particularly SMEs: if TDM becomes too costly, this would put European innovators at a massive disadvantage compared to North America and Asia.

TDM IS CRITICAL FOR THE FUTURE

TDM USES ANOMALY DETECTION, ASSOCIATION LEARNING, CLUSTER DETECTION, CLASSIFICATION AND REGRESSION.¹ MICROSOFT'S EXCEL AND POWER BI INCLUDE TECHNOLOGY AND TOOLS THAT ENABLE RESEARCHERS AND BUSINESSES TO INNOVATE AND MAKE NEW DISCOVERIES THROUGH TDM:



TDM can help preserve Europe's vast cultural heritage data and support instant language translators.2



learning. It helps tackle fraud,3 control driver-less cars4 and reduce unnecessary readmissions to hospitals.5



TDM supports educators. It can be used to predict learning disabilities in school-age children.6



already been used to discover how existing drugs can be used to treat other conditions.

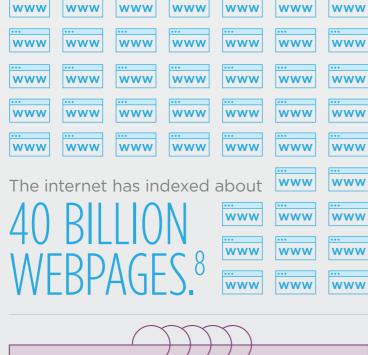


Adverse Drug Reaction⁷ and thus save millions of lives, and billions of euros in healthcare costs.

TDM FACTS & FIGURES

WE NEED TDM BECAUSE EVERY YEAR MORE AND MORE INFORMATION IS PRODUCED

AND ONLY MACHINES ARE QUICK ENOUGH TO HELP US LEARN FROM IT ALL.





scholarly peerreviewed journals, collectively publishing about

There are around

28,000 active





have been published on a single protein, a tumour suppressor called p53.11

EU RESEARCHERS AND BUSINESSES ALIKE With reduced restrictions to TDM, researchers and businesses will be able to browse scientific content from a wider pool of sources.

COPYRIGHT EXCEPTIONS ARE IMPORTANT FOR

A copyright exception would allow them to use text and data mining methods to accelerate their research and make new discoveries by analysing large amounts of data with breakthrough technologies.¹²

Universities and SMEs won't be charged additional fees to simply learn from the analysis of scientific publications. By



WHAT NEEDS TO HAPPEN?



HELP US KEEP EUROPE COMPETITIVE IN THE PRODUCTIVE USE OF TDM



www

https://blogs.microsoft.com/eupolicy/



Microsoft supports a legislative environment that enables everyone to draw value from TDM and fosters creativity and innovation in Europe.

- **Footnotes**
- know-about-data-mining-but-were-afraid-to-ask/255388/ https://www.youtube.com/watch?v=eu9kMleS0wQ
- Machine_learning_and_data_mining

trick-that-makes-googles-self-driving-cars-work/370871/

5. https://www.youtube.com/watch?v=bV8FHKCTx5k

6. https://arxiv.org/ftp/arxiv/papers/1011/1011.0628.pdf

- 1. http://www.theatlantic.com/technology/archive/2012/04/everything-you-wanted-to-7. https://www.researchgate.net/publication/268152402_Text_and_Data_Mining_ Techniques_in_Adverse_Drug_Reaction_Detection
- 8. http://www.worldwidewebsize.com/ 3. https://en.wikipedia.org/wiki/Data_analysis_techniques_for_fraud_detection#
 - 9. http://www.infoplease.com/askeds/counting-billion.html
 - 10. http://www.stm-assoc.org/2012_12_11_STM_Report_2012.pdf 11. https://www.cureforward.com/stories/gene-stories/tp53/
 - 12. http://libereurope.eu/wp-content/uploads/2014/11/Liber-TDM-Factsheet-v2.pdf 13. http://ec.europa.eu/research/innovation-union/pdf/TDM-report_from_the_expert_
- 4. http://www.theatlantic.com/technology/archive/2014/05/all-the-world-a-track-the-

group-042014.pdf