



















REDUCING BARRIERS AND INCREASING UPTAKE OF TEXT AND DATA MINING FOR RESEARCH ENVIRONMENTS USING A COLLABORATIVE KNOWLEDGE AND OPEN INFORMATION APPROACH

# **Deliverable D4.4 Scientific Review Paper**



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Environments using a Collaborative Knowledge and Open Information Approach

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### 1 SUMMARY

This report provides information about the work on the scientific review paper that gives a critical review of the past, present and future of the state-of-the-art of the field of text and data mining (TDM). This publication aims to broaden perspective on the past, current, and future trends in TDM amongst audience, outlined via desktop research, consultation with the practitioners (Deliverables D.4.3. and D4.5.) and scientific communities. Report includes brief description of publication venue selection, text of the paper that can be further updated with the open accesses reviewers comments.

Additionally, the information about the update of FutureTDM knowledge base collection of relevant projects, organisations, methods and tools is provided including the current list of the collections in the Annex.



### 2 WORK ON THE SCIENTIFIC PAPER

### 2.1 Criteria for selection of potential publication venues

We have defined the two main criteria for the target publication venues:

- Diverse type of TDM applications already present in the journal
- The journal has to be Open Access, or at least to have the open access publication option

As the review of TDM work from the perspective of overall scientific development and insights on its visibility across different economic fields, that are formulated within the FutureTDM consortium, differ from the traditional type of publication content that is expected by journals, we took an initiative to contact a number of targeted journals in order to find a venue that would fit our criteria and to ensure that our content would be suitable. These were the journals to contact:

#### 1. Data Science Journal

- Link: <a href="http://datascience.codata.org">http://datascience.codata.org</a>
- Aims and scope of the journal: The CODATA Data Science Journal is a peer-reviewed, open access, electronic journal, publishing papers on the management, dissemination, use and reuse of research data and databases across all research domains, including science, technology, the humanities and the arts. The scope of the journal includes descriptions of data systems, their implementations and their publication, applications, infrastructures, software, legal, reproducibility and transparency issues, the availability and usability of complex datasets, and with a particular focus on the principles, policies and practices for open data. All data is in scope, whether born digital or converted from other sources.
  - Reviews can cover topics such as current controversies, the current "state of the art" or the historical development of studies as well as issues of regional or temporal focus. Papers should critically engage with the relevant body of extant literature. Review articles should be no longer than 3,000 words in length.
- Open access policy: multidisciplinary Open Access journal

### 2. PLOSOne

- Link: <a href="http://journals.plos.org/plosone/">http://journals.plos.org/plosone/</a>
- Aims and scope of the journal: PLOS ONE features reports of original research from all disciplines within science and medicine. By not excluding research on the basis of subject area, PLOS ONE facilitates the discovery of connections between research whether within or between disciplines.

- We consider publishing systematic reviews only if the methods ensure the comprehensive and unbiased sampling of existing literature.
- Submissions describing methods, software, databases, or other tools. We consider submissions describing methods, software, databases, or other tools if they follow the appropriate reporting guidelines.
- Qualitative research. We consider publishing qualitative research only if it adheres to appropriate study design and reporting guidelines.
- Studies reporting negative results.
- Open access policy: multidisciplinary Open Access journal

### 3. DSH (Digital Scholarship for Humanities)

- Link: <a href="https://academic.oup.com/dsh">https://academic.oup.com/dsh</a>
- Aims and scope of the journal: DSH or Digital Scholarship in the Humanities is an
  international, peer reviewed journal which publishes original contributions on all aspects
  of digital scholarship in the Humanities including, but not limited to, the field of what is
  currently called the Digital Humanities. Long and short papers report on theoretical,
  methodological, experimental, and applied research and include results of research
  projects, descriptions and evaluations of tools, techniques, and methodologies, and
  reports on work in progress. DSH also publishes reviews of books and resources.
- Open access policy: multidisciplinary Open Access journal

### 4. Science Communication (SAGE)

- Web-Link: <a href="http://journals.sagepub.com/home/scx">http://journals.sagepub.com/home/scx</a>
- Aims and scope of the journal: Science Communication is an international, interdisciplinary social science journal that examines such topics as the nature of scientific expertise as represented through communication and the processes or effects characterizing the communication of science in any context. Science is broadly defined to include environmental science, health science, and technology. Science Communication welcomes submissions of empirical research from authors in all relevant disciplines (including the social sciences, the humanities, and science itself). Both qualitative and quantitative research papers with a basis in theory are acceptable. Preference is given to articles that bridge the gap between theory and practice and that will be of interest across disciplines. In addition to peer-reviewed research, Science Communication publishes commentaries that analyse issues and trends in the field whether scholarly, professional, or policy-related and a periodic summary of new books in the field.
- Open access policy: OA option is available

### 5. IEEE Access

• Web-Link: <a href="http://ieeeaccess.ieee.org/learn-more-about-ieee-access/">http://ieeeaccess.ieee.org/learn-more-about-ieee-access/</a>



- Aims and scope of the journal: IEEE Access publishes articles that are of high interest to readers: original, technically correct, and clearly presented. The scope of this journal comprises all of IEEE's fields of interest, emphasizing applications-oriented and interdisciplinary articles. IEEE Access also accepts traditional technical articles, as well as reviews and surveys.
- Open access policy: Multidisciplinary Open Access Journal, fee \$1,750 per article

Eventually, we have chosen the "Data Science Journal" that is an open access multidisciplinary journal run by an SME publisher "Ubiquity Press".

### 2.2 Information on the submitted paper

The details of the submission are the following:

- Authors: Maria Eskevich, Stelios Piperidis, Kanella Pouli, Maria Gavriilidou, Dimitris Galanis, Antal van den Bosch.
- Title: Text and Data Mining: Past, present, and future.
- Submission date: 01.05.2017.
- Text of the paper is in the Appendix



# 3 WORK ON THE FUTURETDM KNOWLEDGE BASE ENRICHMENT

### 3.1 Collection of Projects

FutureTDM collection of projects by the Deliverable submission date contains 140 items, 37 of which are already integrated into the platform. For 7 of the projects it is not possible to assign an economic sector, such as (+)Spaces , while the other 133 can be assigned to one or even a combination of sectors due to the multidisciplinary nature of the projects. Table 1 contains the overall statistics of the number of projects in the collection.

Sector or combination of Sectors that that the project is assigned to	Number of projects
Primary-Sector, Secondary-Sector, Tertiary-Sector, Quartenary-Sector	1
Primary-Sector, Quartenary-Sector	1
Secondary-Sector	8
Secondary-Sector, Tertiary-Sector	3
Secondary-Sector, Quartenary-Sector	38
Secondary-Sector, Tertiary-Sector, Quartenary-Sector	6
Tertiary-Sector	13
Tertiary-Sector, Quartenary-Sector	24
Quartenary-Sector	38
Quinary-Sector	1
TOTAL	133

Table 1: Total number of projects in the FutureTDM Knowledge Base Collection structured by economic sector

### 3.2 Collection of Organisations

FutureTDM collection of organisations by the Deliverable submission date contains 72 items, 59 of which are already integrated into the platform. 55 of these organisations have only one EU-country location, while three of them spread across more than one country within the EU, and 6 have locations outside EU in USA.

Company locations details	Country	Number
Company is based in one country	Austria	1
	Belgium	2
	Czech Republic	2
	Denmark	2
	Finland	1
	France	4
	Germany	10
	Greece	3
	Ireland	1
	Italy	3
	Norway	1
	Slovenia	1
	Spain	4
	Sweden	2
	Switzerland	4
	The Netherlands	5
	UK	9
Company has offices internationally	Belgium, The Netherlands, Germany, USA	1
	The Netherlands,	1
	Germany/USA	1
	Ireland/Greece	1
	Spain/UK	1
	UK/USA	2
	USA, many	2
Companies outside EU	Japan	1
	USA	7
TOTAL		72

Table 2: Total number of projects in the FutureTDM Knowledge Base Collection structured by country

### 3.3 Collection of Methods

FutureTDM collection of projects splits scientific methods into 29 items, and all of them are integrated into the platform, as they are used to specify the organisations focus.

	TDM Meth	ods	
Artificial Intelligence	Machine Learning	Statistics	Kernel Methods
Association rules	Machine Translation	Summarisation	Ensemble Learning
Classification	Multimedia Processing	Term/Concept Extraction	Dimensionality Reduction
Clustering	Natural Language Processing	Text Mining	Decision Trees
Data Mining	Negation and Modality Detection	Textual Entailment	Deep Learning
Graph Mining	Predictive Analytics	Artificial Neural Networks	
Information Extraction	Regression	Bayesian Inference	
Information Retrieval	Sentiment Analysis/Opinion Mining	Instance-Based Learning	

Table 3: FutureTDM text and data mining methods collection

### 3.4 Collection of Tools

FutureTDM collection of projects by the Deliverable submission date contains 72 items, 59 of which are already integrated into the platform. Table contains the complete list of tools collected so far.

Name	URL
ALVEO	http://alveo.edu.au/
Alvis	https://migale.jouy.inra.fr/redmine/projects/alvisnlp
Angoss Knowledge STUDIO	http://www.angoss.com/
AnnoMarket	https://annomarket.eu/
Apache cTAKES	http://ctakes.apache.org
Apache OpenNLP	http://opennlp.apache.org
Apache UIMA	https://uima.apache.org
Argo	http://argo.nactem.ac.uk



BioCatalogue	https://www.biocatalogue.org/
BiodiversityCatalogue	https://www.biodiversitycatalogue.org
Bluima	https://github.com/BlueBrain/bluima
CLARIN-DK	http://clarin.dk/
ClearTK	https://cleartk.github.io/cleartk
Clementine	http://datamining.togaware.com/survivor/Clementine.html
ContentMine	http://www.contentmine.org/
DKPro Core	https://dkpro.github.io/dkpro-core
ELKI	http://elki.dbs.ifi.lmu.de/
FICO Data Management	http://www.fico.com/
Galaxy	https://galaxyproject.org/
GATE Embedded	https://gate.ac.uk
Heart of Gold	http://heartofgold.dfki.de
IBM SPSS Predictive Analysis	http://www-03.ibm.com/software/products/en/spss-predictive- analytics-enterprise
JCoRe	http://julielab.github.io
Jpylyzer	http://jpylyzer.openpreservation.org/
KAF	http://kyoto- project.eu/xmlgroup.iit.cnr.it/kyoto/index2091.html?option=com_con tent&view=article&id=504&Itemid=173
Kepler	https://kepler-project.org/
KNIME	http://www.knime.org/knime
Language Grid	http://langrid.org/en/index.html
LAPPS Grid	http://www.lappsgrid.org/
Massive Online Analysis (MOA)	http://moa.cms.waikato.ac.nz/
Matchbox	http://matchbox.openpreservation.org/
Microsoft SQL Server	https://technet.microsoft.com/en-



Analysis Service (SSAS)	<u>us/library/ms175609%28v=sql.90%29.aspx</u>
Neural Designer	https://www.neuraldesigner.com/
NLTK	http://www.nltk.org
Open Calais	www.opencalais.com/
Oracle Data Miner GUI	http://www.oracle.com/technetwork/database/options/odm/dataminerworkflow-168677.html
Orange	http://orange.biolab.si/
Pagelyzer	http://pagelyzer.openpreservation.org/
Pegasus	https://pegasus.isi.edu
Pentaho	http://www.pentaho.com/
Pipeline Pilot	http://accelrys.com/products/collaborative-science/biovia-pipeline-pilot/
QT21	http://qt21.metashare.ilsp.gr/
Rapidminer Radoop	www.rapidminer.com
Rapidminer Server	www.rapidminer.com
Rapidminer Studio	www.rapidminer.com
SAP Hana	https://hana.sap.com
SAS Data Mining	http://www.sas.com
SPSS	http://www.ibm.com/analytics/us/en/technology/spss/
Taverna	http://www.taverna.org.uk/
Think Analytics	http://thinkanalytics.com/
Think Enterprise Data Miner	www.thinkanalytics.com/
Triana	http://www.trianacode.org
TTNWW	http://yago.meertens.knaw.nl/apache/TTNWW/
Weblicht	https://weblicht.sfs.uni-tuebingen.de/
WEKA	http://www.cs.waikato.ac.nz/~ml/weka
xcorrSound	http://xcorrsound.openpreservation.org/



VisTrails	http://www.vistrails.org
Trendminer	https://www.trendminer.com/
Opendatasoft	https://www.opendatasoft.com/
Meta	http://meta.com/
TensorFlow	https://www.tensorflow.org/about/
Epinium	http://epinium.com/
Exclusivi	http://exclusivi.com/hotels/
Eparkomat	http://www.eparkomat.com/
Data Scouts	https://datascouts.eu/
TopPlace	http://www.avuxi.com/products/topplace
Influencity	https://influencity.com/en/
Plazi TreatmentBank	http://plazi.org/api-tools/api/#Plazi_API
SafeToNet	https://safetonet.com/
Egas	https://demo.bmd-software.com/egas/
Wordfreak	http://wordfreak.sourceforge.net/
Theano	https://github.com/Theano/

Table 4: Total list of tools in the FutureTDM Knowledge Base Collection



## 4 CONLUSIONS

This Deliverable contains the full text of submitted TDM review paper, together with the explanation on the publication venue selection.

We provide quantitative updates on the progress with filling in the four main categories of the Knowledge Base Collection, while the Deliverables 6.1, 6.2 and 6.3<sup>1</sup> contains the qualitative description of the technology behind the FutureTDM Platform.

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<sup>&</sup>lt;sup>1</sup> www.futuretdm.eu



## **5 ANNEX**

In the following we present the scientific paper "Text and Data Mining: Past, present, and future" and the collections below described in the previous section. The list will be given in this order:

- Collection of Organisations
- Collection of Projects
- Collection of Tools

# Text and Data Mining: Past, present, and future

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### Abstract

In this paper we review text and data mining (TDM) as a set of data science techniques that detect information from massive amounts of data, present this information for further analysis, and support data-driven decision making. We summarise state-of-the-art TDM trends from a scientific perspective, and outline their application in industrial setting. We analyse the spread of TDM across diverse economic sectors via such parameters as publication and funding volumes in the context of research within the European Union as an example.

Keywords: Text and Data Mining, Data Science, Big Data, Review, Trends

### 1. Introduction

Text and Data Mining has been defined as "the discovery by computer of new, previously unknown information, by automatically extracting and relating information from different (...) resources, to reveal otherwise hidden meanings" [17], in other words, "an exploratory data analysis that leads to the discovery of heretofore unknown information, or to answers for questions for which the answer is not currently known" [17]. Nowadays, this umbrella term encompasses diverse techniques that allow for the interpretation of content of any type ranging from raw data, e.g. sensor data, text, images and multimedia, to processed content and structured data, e.g. diagrams, charts, references, maps, formulas, chemical structures, and metadata, on a large scale through the identification of patterns.

Components of TDM existed before the formal introduction of the term within the scientific community. Essentially TDM has grown as part of the general 'data science' field from a number of parent scientific disciplines, notably artificial intelligence and its subdisciplines such as machine learning, pattern recognition, and natural language processing, as well as mathematics, statistics, and information retrieval. It has benefited from multidisciplinary approaches and collaborations across these fields.

The growing quantity of digital content currently produced by society, as well as efforts on the digitization of archives, in combination with the potential ease of access to this data at any location via easy-to-use devices (with reliable Internet connection, and mobile devices) increase both the need for content mining technologies, and their proliferation in the fabric of modern society [29].

TDM is becoming increasingly ubiquitous on the global market, as each company that tracks its activities, products, and communications in some digital form has the potential to reuse this data for further analysis and improvement. For some sectors, countries and applications, it is already possible to estimate the potential profit or at least the size of the market [29, 9]. Other fields such as journalism, which is in the process of embracing the concept of Data Journalism, have to first agree on the conceptual changes required to their current work behaviour in order to merge the traditional work pattern with TDM [20].

This paper is structured as follows. We first survey the scientific trends and outline the most prominent scientific communities that develop the state-of-the-art algorithms and aim to advance beyond those (Section 2). Section 3 provides examples of the TDM scientific work in application across economic structure using the European Union as a case example. Section 4 then discusses future trends and their overall potential.

### 2. Scientific perspective: Research fields supporting TDM

Text and data mining has gradually evolved into a large multidisciplinary field with complex approaches for a range of applications that can be found in all types of human activities. Historically, the development of mining technologies has its roots with the invention of mathematical models [14] and statistical analysis [8]. Due to the advent of computers and systems for storing larger quantities of data, the possibility to mine large datasets and filter relevant information has greatly expanded what used to be laborious

expert analysis work. Since the beginning of the 1990s, modern data mining tools have appeared on the market and in labs, allowing more advanced analysis, to discover hidden patterns and to extract implicit knowledge in any domain, as envisaged and pioneered for the life science domain by Swanson in [41].

With the invention and adoption of the World Wide Web [4], researchers expanded their efforts to develop text and data mining methods to search and explore the web. This led to the creation of search engines, starting from simple interface-based browsers such as *Mosaic* and *Netscape*, and developed into large-scale systems such as *Google* and *Bing*. This, together with the advances in natural language processing, formed the opening gambit towards more complex approaches of text mining to different fields (such as the biomedical domain, economics, social sciences, or humanities), and types of data and content (such as scientific publications and research data, social media, multimedia, or public sector information).

The core research fields that develop, test, and publish the algorithms for TDM implementations for each specific domain of use, are

- machine learning (ML), which is the automated learning of tasks and the discovery of patterns and structure in data [1];
- information retrieval (IR) and search, which focuses on the optimisation of search methods that, based on an index of vast amounts of content, allow for the location and extraction of the most relevant facts answering any question and user type [37]; and
- natural language processing (NLP) techniques, which deal with human language in its textual and spoken form [21, 27].

Research progress within TDM-related communities can be traced across two main sources: a number of high-impact yearly conferences (such as Knowledge Discovery and Data Mining (KDD), International Conference on Data Engineering (ICDE), IEEE International Conference on Data Mining (ICDM) for ML; ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR) and International Conference on Information and Knowledge Management (CIKM) for IR; Annual meeting of the Association for Computational Linguistics (ACL) and Conference on Empirical Methods on Natural Language Processing (EMNLP) for NLP), and a set of prominent journals in the fields (such as IEEE Transactions on Knowledge and Data Engineering (TKDE), Information Processing Letters (IPL)

for ML; Information Retrieval Journal for IR; Transactions of the Association for Computational Linguistics (TACL) for NLP). With the speed of technology development and the race for implementation of new methods in the context of practical implementations, the publications at conferences, having the fastest turnaround, have a relatively high impact. There is also a noteworthy trend to pre-print publications via open access self-archiving services such as https://arxiv.org/, that originally was created for the field of physics, but gradually expanded to include mathematics, computer science, nonlinear sciences, quantitative biology, quantitative finance, and statistics. This pre-print culture has an impact on the publications acceptance at the traditional publication venues that needs to take into account these additional aspects when the reviewing process is organised [42].

### 2.1. Leading algorithms

A top 10 of algorithms was defined by its leading experts in 2006 [46], and they are still representative for the situation in 2017, with the notable exception of Deep Learning as a method that was dominant in the early 1990s [24, 45, 38, 23], was largely absent in the 2000s, and which returned in the 2010s [10]. We list the 2006 top 10 of methods below, and in Figure 1 we show the growth of citations for the main reference scientific articles that defined those methods using the information available via the Google Scholar service. Across the board, numbers of citations have increased. Support vector machines [44] were already popular in 2006 and took the position as most frequently cited learning algorithm in 2017.

- Classification: C4.5 [36],; CART [6]; K Nearest Neighbours (kNN) [16]; Naive Bayes [49];
- Statistical Learning: SVM [44]; EM [30];
- Association Analysis: Apriori [3]; FP-tree [15];
- Link Mining: PageRank [7]; HITS [22];
- Clustering: k-Means citemacqueen1967; BIRCH [50];
- Bagging and Boosting: AdaBoost [12];

<sup>1</sup>https://scholar.google.com/

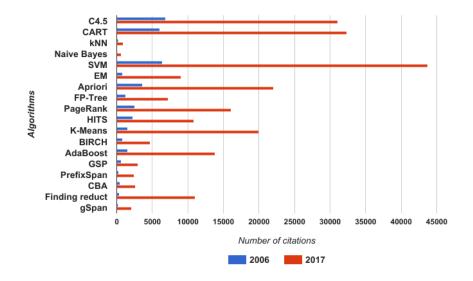


Figure 1: Comparison of the top 10 TDM papers citations: 2006 vs 2017 according to GoogleScholar.

- Sequential Patterns: GSP [39]; PrefixSpan [34];
- Integrated Mining: CBA [25];
- Rough Sets: Finding reduct [33];
- Graph Mining: gSpan [48].

### 2.2. NLP and IR perspective: main used algorithms and tasks

As IR has gradually developed from the techniques targeting simple keyword search [26] to more sophisticated use of language modeling [18] that requires speech and text pre-processing, and overall language modeling, the NLP and IR fields converge into sharing the algorithms used. Below we enlist the leading techniques used across those fields:

• Latent Dirichlet allocation (LDA) [5] for topic modeling and text classification;

- Hidden Markov Models (HMMs) [28], recurrent neural networks (RNNs) and Long short-term memory (LSTMs) for statistical language modeling as a component in speech recognition [19], machine translation [47], and information retrieval [18];
- Word2Vec [31] and GloVe [35] for text classification, information retrieval [13], machine translation [32];
- CRFs (conditional random fields) [40] and other sequence learners for part-of-speech tagging, Named Entity Recognition;
- CF (collaborative filtering) for recommendation [2];
- TF-IDF, BM25 for information retrieval [37, 27].

# 3. Tracing TDM application in different scientific areas and fields of activity

The growth of data-driven business, services and research, has led to an introduction of an extended model for the economic structure that reflects a novel type of knowledge-based economy, where knowledge and data become a separate valuable commodity (OCDE, 1996). Thus recently, the research that supports knowledge sharing and growth, as well as education of the professionals that can carry out these activities, have been termed a quaternary economic sector, to be added to the traditional primary, secondary, and tertiary ones. Moreover, the high-level decision makers in governments, large industry companies, and education, having the potential to shape the future of the entire sectors with their vision and decisions, can arguably be placed in a separate, quinary sector.

We focus our investigation on the current and potential presence of TDM across all economic sectors, and thus we envisage these relations in Figure 2. The primary, secondary, and tertiary sectors follow roughly the same type of interaction with TDM technologies. These sectors represent sources of all possible types of data that are available for mining, and at the same time, have tasks and challenges that require smart solutions. The quaternary sector is particularly central to TDM development and implementation, as it produces the TDM experts and advances the technology itself. Experts at the decision-maker level use TDM tools to test and prove their vision of

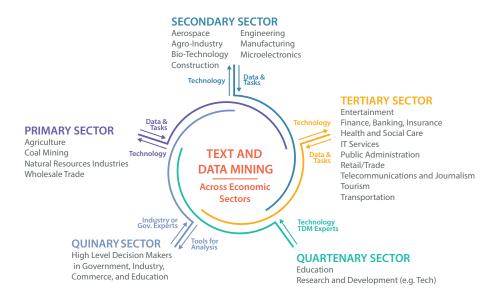


Figure 2: General economic structure and connection between TDM and all economic sectors

economic development, as well as to hypothesize where a specific decision will lead to, and to measure and assess its progress.

With the economic sectors and their relationship with TDM defined for any type of knowledge-based society, we take an example of the European Union infrastructure, and use TDM techniques to outline the scientific span of the TDM work and applications. We employ two axes, namely (i) EU funded research projects and infrastructures, and (ii) scientific articles published in journals and conferences. These two axes are considered as reflecting the strategic decisions of the EU and the policies adopted as regards the selection of specific research domains for funding, as well as the scientific trends attested in the publications.

### 3.1. Experimental framework

In order to estimate the distribution of scientific publications relating to Text and Data Mining per economic sector, we used 1,195,499 abstracts extracted from the latest dumps that have been made available at the CORE (COnnecting REpositories) site<sup>2</sup>. From the 1,195,499 abstracts in our dataset, 11504 are related to Text and Data Mining, i.e. 0,96% of the total. This finding is commensurate to the findings of [11] and [43]. These abstracts were analysed using LDA, a probabilistic Bayesian model of text generation. We used the MALLET<sup>3</sup> implementation of LDA and learnt a model of 100 topics from the 1,195,499 abstracts. Each topic t (in our analysis) is represented by a small set of words; the ones that are more likely to belong to t according to the estimated LDA probabilities (word-topic distribution). Based on the word set, each topic was manually assigned an application area label from the respective classification that is depicted in Figure 2.

From all abstracts, we kept (for our analysis) only the ones in which a TDM-related term occurs (e.g. Text Mining, Text Analysis, Text Analytics, Data Mining, Natural Language Processing)<sup>4</sup>. We used the topic-document probabilities that are returned from LDA and indicate which topics are discussed in each abstract. The sector label (e.g. Aerospace) of the LDA topic with the highest topic-document probability is assigned to each abstract.

### 3.2. Primary sector

The primary sector includes all raw materials and natural resources as well as the methods used for their mining (in the prototypical sense of the word) and/or production.

The main objectives of TDM research in the primary sector include, among others:

- standardisation, understanding and forecasting of natural phenomena (e.g. earthquakes) and climate changes interacting with the lives of humans and other species;
- prediction of better or worse/problematic crops or certain climate phenomena which affect them;
- correlation of pesticide use and animal/human diseases;
- better use of water resources/materials for production optimization.

<sup>2</sup>https://core.ac.uk/

<sup>3</sup>http://mallet.cs.umass.edu/

<sup>&</sup>lt;sup>4</sup>The full list of terms is in the Appendix 8

### 3.2.1. Funding

A total amount of approximately  $\leq 98,2M$ , with a European Commission maximum contribution of  $\leq 75,3M$ , has been invested in 24 projects concerning TDM in the primary sector. Most projects focus on the collection and processing of data from natural resources, oceanic data, climate data or agricultural data. The following have been selected among the top twenty projects, based on their total investment, as representative cases for the primary sector:

- MARS: Managing Aquatic ecosystems and water Resources under multiple Stress;
- ADAPTAWHEAT: Genetics and physiology of wheat development to flowering: tools to breed for improved adaptation and yield potential;
- SUSTAINMED: Sustainable agri-food systems and rural development in the Mediterranean Partner Countries:

### 3.2.2. Publications

The majority of the publications of TDM interest (retrieved from the CORE repository) which fall in the primary sector deal with the areas of Agriculture and Environment; other areas (e.g. Natural Resources) are comparatively less researched into while some others (e.g. Wholesale Trade) are not represented in the publications' set, see Figure 3.

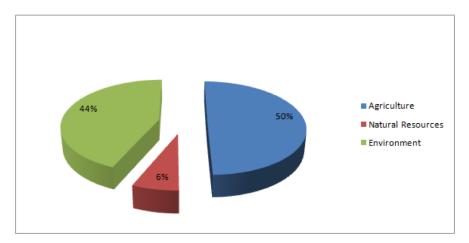


Figure 3: Publications in the primary sector.

### 3.3. Secondary sector

The secondary sector includes all the methods/techniques/tools/machinery used in order to transform the primary sector materials or resources into goods and products. All human activities related to manufacturing, processing and construction pertain to the secondary sector.

### 3.3.1. Funding

A total amount of €806,4M, with a European Commission maximum contribution of €633,8M, has been invested on 253 projects concerning TDM in the secondary sector. The majority of projects focus on the collection and processing of biological and medical data for biotechnology applications and the subsequent provision of better health care services. Many projects concern the processing of energy data and the development of green or smart energy systems. The following projects are representative cases for the secondary sector:

- GEN2PHEN: Genotype-To-Phenotype Databases: A Holistic Solution;
- LinkedDesign: Linked Knowledge in Manufacturing, Engineering and Design for Next-Generation Production;
- Fortissimo 2: Factories of the Future Resources, Technology, Infrastructure and Services for Simulation and Modelling 2.

### 3.3.2. Publications

Half the publications of TDM interest which fall in the secondary sector concern Engineering. The other areas of interest cover Aerospace and Energy followed by Construction and Microelectronics as depicted in Figure 4.

### 3.4. Tertiary sector

The tertiary sector includes all the services provided to individuals or organized groups such as businesses. All human activities related to retail and wholesale sales, transportation, entertainment, tourism, insurance, and many more pertain to the tertiary sector.

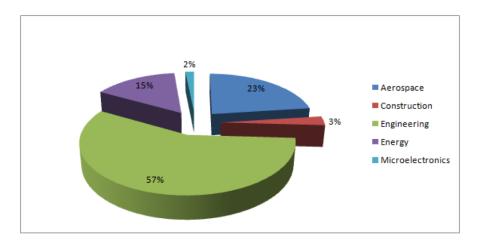


Figure 4: Publications in the secondary sector.

### 3.4.1. Funding

A total amount of  $\in 1,1B$ , with a European Commission maximum contribution of  $\in 852,4M$ , has been invested on 313 projects concerning TDM in the tertiary sector. Most projects focus on the collection and processing of data from medical records and biology databases. The next category in frequency is that of IT services followed by the business application area. The following projects are representative cases for the tertiary sector:

- SENSEI: Integrating the Physical with the Digital World of the Network of the Future;
- SIIP: Speaker Identification Integrated Project;
- APO-SYS: "Apoptosis systems biology applied to cancer and AIDS.
   An integrated approach of experimental biology, data mining, mathematical modelling, biostatistics, systems engineering and molecular medicine";
- mPlane: mPlane an Intelligent Measurement Plane for Future Network and Application Management;

### 3.4.2. Publications

The retrieved publications of TDM interest for the tertiary sector cover a variety of fields as depicted in Figure 5. The majority of publications (60%) pertain to the fields of Medicine, Health Care and Social Care, while 30%

are related to generic IT services. The remaining publications are related to Finance, Public Administration, Entertainment and Transportation.

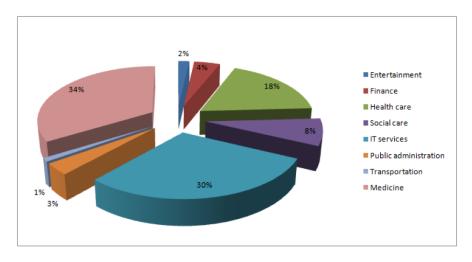


Figure 5: Publications in the tertiary sector.

### 3.5. Quartenary sector

The quaternary sector includes all services dealing with knowledge and information such as research, development and education among others. Research and development are terms applying to all scientific fields; therefore the following sections include projects, infrastructures, language resources and publications which could also be identified as belonging to any of the first three economic sectors but are presented here because the focus lies on the innovation, introduction, and improvement of products and processes of the various disciplines and application areas.

### 3.5.1. Funding

A total amount of €402M, with a European Commission maximum contribution of €319,9M, has been invested on 273 projects concerning TDM in the quaternary sector. This sector includes all these projects that are classified by the EC as scientific research under RTD horizontal topics without further distinguishing, in most cases, the particular scientific area, the development of which the particular action will affect. As a result strong infrastructural projects like EUDAT2020 and projects requiring substantial financial investment in the area of Medicine and Health Sciences, e.g. the

METACARDIS project, are grouped together. The following are the representative examples for the tertiary sector:

- METACARDIS: Metagenomics in Cardiometabolic Diseases;
- SCY: Science Created by You;
- NEXT-TELL: Next Generation Teaching, Education and Learning for Life.

### 3.5.2. Publications

The publications concerning TDM for the quaternary sector, as depicted in Figure 6, fall into two big categories: the first being research, which is a generic term including many scientific fields, and the second one being education. The research publications presented here are those for which no specific scientific field was denoted from the set of words of topic t. Otherwise, the classification of the topic was done in accordance to the application areas of the primary, secondary or tertiary sector.

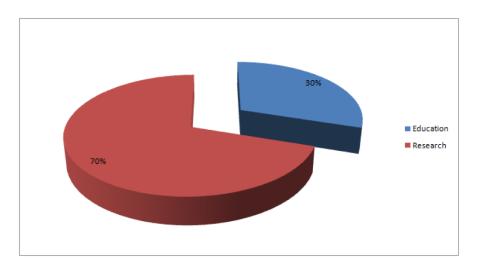


Figure 6: Publications in the quartenary sector.

### 3.6. Quinary sector

The quinary sector is the highest economic sector encompassing decision making for policy guidelines in Industry, Government, Science and Technology, having a profound impact on economy in general. It is the special characteristics of this sector and the interrelation with all the other economic sectors, which make it challenging to isolate resources and material pertaining exclusively to the quinary sector itself. Decision makers need all the available data from various types of infrastructures as well as all the TDM software tools and technologies in order to analyse, deploy them, and finally make decisions affecting different application areas within all previous sectors. Taking these peculiarities into consideration, in this paper we present only the EU projects which have been funded under certain RTD Horizontal Topics, specifically those which aim at the formulation or identification of future developments in RTD and long-term strategic options.

### 3.6.1. Funding

A total amount of €192,1M, with a European Commission maximum contribution of €149M, has been invested on 116 projects concerning TDM in the quinary sector. Most projects focus on the evaluation or application of laws and regulations, policies, policy strategies or plans of action for research and development in science and technology. The following examples show decision making projects that are the most representative for the quinary sector:

- KHRESMOI: Knowledge Helper for Medical and Other Information users
- LOD2: LOD2 Creating Knowledge out of Interlinked Data
- FIRST: Large scale information extraction and integration infrastructure for supporting financial decision making

### 4. Conclusion

In this paper we reviewed the most important algorithms that define the state-of-the-art and potential for advancement for the scientific development of TDM. Using LDA analysis on the CORE database, we highlighted the state of TDM research and funding coverage in context of the European Union test case, showcasing the spread of publications per sector and topics that are intertwined with TDM.

### 5. Acknowledgements

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### 6. Competing interests

The authors have no competing interests.

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# 8. Appendix: List of TDM related terms and their frequencies in FP7 and HORIZON2020 projects

data analysis   240   big data   66   machine learning   156   data analysis   61   data mining   88   machine learning   51   large data   65   data analytics   21   language processing   39   data mining   14   life   data   15   linked data   16   linked data   30   data science   5   life   data science   19   information retrieval   4   data analytics   18   predictive analytics   4   life   data analytics   18   predictive analytics   4   life   data   data mining   2   life   data mining   2   life   data   data mining   data   data	Keywords in OBJECTIVE	FP7	keywords in OBJECTIVE	Horizon 2020
data mining	data analysis	240	big data	66
large data 65 data analytics 21 language processing 39 data mining 14 big data 38 large data 14 information retrieval 37 linked data 6 information extraction 30 business intelligence 5 linked data 30 data science 5 text mining 17 language processing 5 data science 19 information retrieval 4 data analytics 18 predictive analytics 4 information access 17 information access 3 summarization 12 sentiment analysis 2 business intelligence 11 text and data mining 2 knowledge discovery 11 information extraction 1 multimedia processing 8 knowledge discovery 1 conversation analysis 7 summarization 1 opinion mining 7 TDM 1 sentiment analysis 5 abbreviation detection 0 semantic mining 4 competitive intelligence 0 text analytics 3 concept extraction 0 text understanding 3 content classification 0 text understanding 2 graph mining 0 predictive analytics 2 graph mining 0 sense disambiguation 2 linguistic identification 0 content classification 1 multimedia processing 0 datafication 0 negation detection 0 content classification 0 negation detection 0 concept extraction 0 sense disambiguation 0 concept extraction 0 sense disambiguation 0 concept extraction 0 text understanding 0 modality detection 0 text understanding 0 text and data mining 0 text understanding 0 text and data mining 0 text understanding 0	machine learning	156	data analysis	61
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modality detection     0     semantic mining     0       negation detection     0     sense disambiguation     0       competitive intelligence     0     text analytics     0       linguistic identification     0     text mining     0       abbreviation detection     0     text understanding     0       text and data mining     0     textual entailment     0	datafication	0	negation detection	0
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TDM 0 trend detection 0	text and data mining	0		0
	TDM	0	trend detection	0

### Collection of Organisations

Name	URL		ZIP	City	Street	Type	Data Sources	Sector				Application field Sector IV	Application field Secti
904Labs	http://904labs.com	The Netherlands		Amsterdam	Science Park 402	Company				N/A		arResearch and Development (e.g. Tech)	N/A
Accenture	https://www.accenture.com	USA, many intern		N/A	N/A	Company	Business, Internet					Research and Development (e.g. Tech)	N/A
ADAPT	http://adaptcentre.ie/		Dublin 2		Trinity College, College Green	Research	All					, Education, Research and Development (e.g. 1	
Agris	http://agris.fao.org/agris-search/index.d	Greece	10176	Athens	Acharnon Street 5	Company	Scientific	Primary-Sec	dAgriculture	N/A	N/A	N/A	N/A
Agroknow	http://www.agroknow.com/agroknow/	Greece	152 35	Athens	Grammou 17	Company	Scientific	Primary-Sec	dAgriculture	N/A	N/A	N/A	N/A
Algoritmica	http://aleoritmica.nl/	The Netherlands	1075	Amsterdam	Oranje Nassaulaan 62-2	Company	All	Secondary-S	Sector	Engineering	N/A	N/A	N/A
Apteco Limited	http://www.apteco.com/	UK	CV34 4EH	Warwick	Tink-a-Tank House, Jury St 21	Company	All	Secondary:	Sector, Tertiary-Sector	Manufacturing	Entertainment, Finance	Banking, Insurance, Retail/Trade, Telecommu	nica N/A
Artelnics-Artificial Intelligence Techniques, Ltd	http://www.artelnics.com/	Spain	37900	Salamanca	Carretera de Madrid 13	Company	Business, Personal.	. Secondary:	Sector, Tertiary-Sector, Quarter	Bio-technology	Health and Social Care	Research and Development (e.g. Tech)	N/A
Autonomy	http://www.autonomy.com/	UK	CB4 OWZ	Cambridge	Cambridge Business Park, Cowley Par	rl Company	ΔII	Secondary/	Sector, Tertiary-Sector	Manufacturing	Finance Banking Incurs	ance, Health and Social Care, Public Administra	tion N/A
AVUXI	http://www.avuni.com/		N/A	N/A	N/A	Company	Rusiness Scientific			N/A			N/A
Ratelle	http://www.battelle.org		N/A	Columbus, Ohio	nN/A	Company.R	er Business Scientific	Secondary/	Sector, Quartenary-Sector	Bio-technology, Manufactur	ing	Research and Development (e.g. Tech)	N/A
BG Stat	http://www.bgstats.com/index.html		1040	Vienna	Schleifmühlgasse 7	Company			Sector, Tertiary-Sector, Quarter		Finance, Banking, Insura		N/A
Centre for Language Technology (CST)	http://cst.ku.dk/english/		2300		Njalsgade 136, building 27	Research	Scientific				N/A	Research and Development (e.g. Tech)	N/A
Clinerion	http://www.clinerion.com		CH-4053	Rarel .	Margarethenstrasse 47	Company	Suriness Calantific			Bio-technology	N/A	Research and Development (e.g. Tech)	N/A
Copyright Clearance Center, Inc.	http://www.copyright.com		MA 01973		222 Rosewood Drive	Company	Business, Scientific					Research and Development (e.g. Tech)	N/A
CrossRef			OX1 1BY	Oxford	New Road	Research	Business, Scientific				Pinance, banking, insur- N/Δ	Research and Development (e.g. Tech)	N/A
Data Mind	http://www.crossref.org		170.00		U Průhonu 22 / 466		All	C N/A Tertiany-Ser				Public Administration Retail/Trade	N/A N/A
	http://www.datamind.cz/		1/0 00	Prague	U Prunonu 22 / 466	Company						Public Administration, Netally I rade	
DeepMind	https://www.deepmind.com/	UK/USA				Company	Business	N/A		N/A	N/A	N/A	N/A
Deutsche Forschungszentrum für Künstliche Intelligenz gGmbH (DFKI)	http://www.dfki.de/		D-66123		Stuhlsatzenhausweg 3	Research	Scientific	Quartenary				Education, Research and Development (e.g. 7	
Docear	http://www.docear.org		N/A	N/A	N/A	Company	All	N/A		N/A	N/A	Education, Research and Development (e.g. 7	
Dutch-Flemish Human Language Technology Agency	http://www.tst-centrale.org/	The Netherlands,	, Belgium			Research	Scientific	N/A			N/A	N/A	N/A
eParkomat	http://www.eparkomat.com/index.html					Company	Business	N/A		N/A	N/A	N/A	N/A
Epinium	http://epinium.com/	Spain				Company	Business, Scientific	: N/A	N/A	N/A	N/A	N/A	N/A
Exclusivi Ltd.	http://exclusivi.com/hotels/	Ireland/Greece				Company	Business	N/A	N/A	N/A	N/A	N/A	N/A
Expert Systems S.P.A.	http://www.expertsystem.com	IT.	41123	Modena	Via Virgilio 48/H	Company	All	Secondary:	Sector, Tertiary-Sector	Bio-technology	Entertainment, Finance	Banking, Insurance, Public Administration	N/A
Fondazione Bruno Kessler (FBK)	http://www.fbk.eu/		38122	Bolzano	Via Santa Croce 77	Research	Scientific	Quartenary			N/A	Education. Research and Development (e.e.	
German National Library of Economics (ZBW)		Germany				Research	Scientific	N/A			N/A	N/A	N/A
GESIS - Leibniz-Institute for the Social Sciences	http://www.gesis.org		68159	Mannheim	Quadrat 82 1	Research	Personal Scientific					Research and Development (e.g. Tech)	N/A
Helsinki University of Technology	http://www.aalto.fi/en/about/history/tk		2150	Helsinki	Esnon	Research	Scientific	Quartenary	- N/A		N/A	Education, Research and Development (e.g.	ach N/A
Institut national de recherche en informatique et en automatique (INRIA)	http://www.inria.fr/en/		78153		RP 105	Research	Scientific	Quartenary			N/A	Education, Research and Development (e.g.	
Institut Universitari de Lineüística Aplicada (IULA)	website: jula.upf.edu twitter: https://tv		8018		Universitat Pompeu FabraCampus de		Scientific				N/A	Research and Development (e.g. Tech)	N/A
Institut Universitari de Linguistica Aplicada (IULA) Institute for Language and Speech Processing (ILSP / "Athena" R.C.)	http://www.ilsn.er/en		151.25	Athens	Marousi Artemidos 6		Scientific	N/A Quartenary			N/A N/A	Education. Research and Development (e.g. 1ech)	
				Atnens Pisa		Research	Scientific						
Istituto di Linguistica Computazionale "Antonio Zampolli" (ILC) - CNR\	website: http://www.ilc.cnr.it/en/conte		56124		Italian National Research CouncilPisa						N/A	Research and Development (e.g. Tech)	N/A
JISC	http://www.jisc.ac.uk/		BS2 OJA		One Castlepark, Tower Hill	Research	Scientific	Quartenary			N/A	Education, Research and Development (e.g.	
Karlsruhe Institute of Technology	https://www.kit.edu/		76131		Kaiserstraße 12	Research	Scientific	Quartenary			N/A	Education, Research and Development (e.g.	
Komatsu	http://www.komatsu.com.au/AboutKom		N/A	Tokyo	N/A	Company	N/A				N/A	N/A	N/A
Kudoos	http://www.kudoos.nl	The Netherlands				Company	Business, Scientific	: N/A	N/A	N/A	N/A	N/A	N/A
Linguamatics	http://www.linguamatics.com/		CB4 OWG	Cambridge	Milton Road	Company	Personal, Scientific	: Secondary-9	Sector, Tertiary-Sector, Quarter	Bio-technology	Health and Social Care	Research and Development (e.g. Tech)	N/A
Ludwig-Maximilians-Universitaet	https://www.en.uni-muenchen.de/index	Germany	80539	Munich	Geschwister-Scholl-Platz 1	Research	Scientific	Quartenary	- N/A	N/A	N/A	Education, Research and Development (e.g.	ech N/A
Max Planck Computing and Data Facility	website: http://www.rzg.mpg.de/ faceb	«Germany	85748	Garching	Gießenbachstraße 2	Research	Scientific	N/A	N/A	N/A	N/A	Research and Development (e.g. Tech)	N/A
Meta	http://meta.com/	USA				Company	Business, Scientific	: N/A	N/A	N/A	N/A	N/A	N/A
National Centre for Text Mining (NaCTeM)	http://www.nactem.ac.uk/	UK	M17DN	Manchester	Princess Street 131	Research	Internet, Personal,	.SSecondary:	Sector, Tertiary-Sector, Quarter	Bio-technology	Health and Social Care	Education, Research and Development (e.g.,	ech N/A
Opendatasoft	https://www.opendatasoft.com/	USA/internationa	al			Company	Business, Scientific	: N/A	N/A	N/A	N/A	N/A	N/A
Paperhive	https://paperhive.org/	Germany				Company	Business, Scientific	N/A	N/A	N/A	N/A	N/A	N/A
Plazi	http://plazi.org/	Switzerland				Company	Business, Scientific	- 11/4	N/A	N/A	N/A	N/A	N/A
Pubgene	http://www.nuheene.com/		855	Oslo									
Python predictions	http://pythongredictions.com/				Spensyeien 704	Company	Personal Scientific		tor Quartenary/Sector	Bio-technology	Health and Social Care	N/A	N/A
RapidMiner		Releium			Sognsveien 70A Avenue Roger Vandendriessche 9	Company		c Tertiary-Sec		Bio-technology N/A	Health and Social Care N/A	N/A N/A	N/A N/A
	http://rapidminer.com/		B-1150	Brussels	Avenue Roger Vandendriessche 9	Company	Business, Personal	c Tertiary-Sec Tertiary-Sec	ctN/A	N/A	N/A	N/A	N/A
Pouri Institute of Technology (KTM)	http://rapidminer.com/	Germany	B-1150 44227	Brussels Dortmund	Avenue Roger Vandendriessche 9 Stockumer Str. 475	Company Company	Business, Personal Business, Internet,	c Tertiary-Sec I Tertiary-Sec FSecondary-S	ctN/A Sector, Tertiary-Sector	N/A Bio-technology, Manufactur	N/A Entertainment, Finance	N/A Banking, Insurance, IT Services, Retail/Trade	N/A N/A
Royal Institute of Technology (KTH)	http://www.kth.se	Germany Sweden	B-1150	Brussels Dortmund	Avenue Roger Vandendriessche 9	Company Company Research	Business, Personal Business, Internet, Scientific	Tertiary-Sec Tertiary-Sec FSecondary-S Quartenary	ctN/A Sector, Tertiary-Sector N/A	N/A Bio-technology, Manufactur N/A	N/A Entertainment, Finance N/A	N/A Banking, Insurance, IT Services, Retail/Trade Education, Research and Development (e.g.	N/A N/A ech N/A
SafeToNet Ltd	http://www.kth.se https://safetonet.com/	Germany Sweden UK	B-1150 44227 114 28	Brussels Dortmund Stockholm	Avenue Roger Vandendriessche 9 Stockumer Str. 475 Brinellvägen 8	Company Company Research Company	Business, Personal Business, Internet,	Tertiary-Sec Tertiary-Sec FSecondary-S Quartenary- N/A	ctN/A Sector, Tertiary-Sector N/A N/A	N/A Bio-technology, Manufactur N/A N/A	N/A Entertainment, Finance N/A N/A	N/A Banking, Insurance, IT Services, Retail/Trade Education, Research and Development (e.g.: N/A	N/A N/A ech N/A N/A
SafeToNet Ltd SAP	http://www.kth.se https://safetonet.com/ http://sap.com/	Germany Sweden UK Germany	B-1150 44227 114 28 69190	Brussels Dortmund Stockholm Walldorf	Avenue Roger Vandendriessche 9 Stockumer Str. 475 Brinellvägen 8 Hasso-Plattner-Ring 7	Company Company Research Company Company	Business, Personal Business, Internet, Scientific Business, Scientific All	C Tertiary-Sec I Tertiary-Sec , FSecondary-S Quartenary- C N/A Primary-Sec	ctN/A Sector, Tertiary-Sector - N/A N/A ctNatural Resources Mining, Wi	N/A Bio-technology, Manufactur N/A N/A Engineering, Manufacturing	N/A Entertainment, Finance N/A N/A Entertainment, Finance	N/A Banking, Insurance, IT Services, Retail/Trade Education, Research and Development (e.g. N/A Research and Development (e.g. Tech)	N/A N/A Sech N/A N/A N/A
SafeToNet Ltd SAP Scholarly Publishing and Academic Resources Coalition (SPARC)	http://www.kth.se https://safetonet.com/ http://sap.com/ http://sparcopen.org	Germany Sweden UK Germany USA	B-1150 44227 114 28 69190 N/A	Brussels Dortmund Stockholm Walldorf Washington, Di	Avenue Roger Vandendriessche 9 Stockumer Str. 475 Brinellvägen 8 Hasso-Plattner-Ring 7 CN/A	Company Company Research Company Company Research	Business, Personal Business, Internet, Scientific Business, Scientific All N/A	c Tertiary-Sec I Tertiary-Sec FSecondary-S Quartenary- c N/A Primary-Sec N/A	ctN/A Sector, Tertiary-Sector N/A N/A ctNatural Resources Mining, WI N/A	N/A Bio-technology, Manufactur N/A N/A Engineering, Manufacturing N/A	N/A Entertainment, Finance N/A N/A Entertainment, Finance N/A	N/A Banking, Insurance, IT Services, Retail/Trade Education, Research and Development (e.g. N/A Research and Development (e.g. Tech) N/A	N/A N/A Sech N/A N/A N/A N/A
SafeToNet Ltd SAP Scholarly Publishing and Academic Resources Coalition (SPARC) Scyler	http://www.kth.se https://safetonet.com/ http://sap.com/ http://saprcopen.org http://scyler.nl	Germany Sweden UK Germany USA The Netherlands	B-1150 44227 114 28 69190 N/A 10980H	Brussels Dortmund Stockholm Walldorf Washington, Di Amsterdam	Avenue Roger Vandendriessche 9 Stockumer Str. 475 Brinellvägen 8 Hasso-Plättner-Ring 7 CN/A Science Park 402	Company Company Research Company Company Research Company	Business, Personal Business, Internet, Scientific Business, Scientific All N/A Business, Internet,	c Tertiary-Sec Tertiary-Sec FSecondary-S Quartenary- c N/A Primary-Sec N/A FTertiary-Sec	cIN/A Sector, Tertiary-Sector P N/A N/A CINatural Resources Mining, WI N/A ctor, Quartenary-Sector	N/A Bio-technology, Manufactur N/A N/A Engineering, Manufacturing N/A N/A	N/A Entertainment, Finance N/A N/A Entertainment, Finance N/A Health and Social Care,	N/A , Banking, Insurance, IT Services, Retail/Trade Education, Research and Development (e.g. N/A , Research and Development (e.g. Tech) N/A RResearch and Development (e.g. Tech)	N/A N/A Fech N/A N/A N/A N/A N/A
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#### Collection of TDM Tools

VFO	http://alveo.edu.au/	Type Infrastructure Platform	Organisation Producer National Collaborative Research Infrastructure	Country	Data Sources Business Inter		. Quartenary-Sec			Application fiel Research and D		Data Mining, Text Mining	Projects N/A	Exper N/A
vis	https://migale.jouy.inra.fr/redmine/projects/a			N/A		N/A	, quarteriary-sec	LOI	Entertainment,	Kesearch and D	rveiopinent (e	N/A	N/A	N/A
goss Knowledge STUD	NO http://www.angoss.com/	Commercial	Angoss Software Corporation	USA	Business	Quartenary-Sec	ctor			Research and D	rvelopment (e	. Data Mining, Multimedia Processing	N/A	N/A
noMarket	https://annomarket.eu/	Commercial, Web Service Registry	University of Sheffield	UK		Quartenary-Sec				Research and D		. Data Mining, Text Mining	N/A	N/A
ache cTAKES	http://ctakes.apache.org	Open Source, Component Collection, Worl		USA			tor, Tertiary-Sec E	Bio-technology				Information Extraction, Natural Language Processing, Tex		N/A
che OpenNLP	http://opennlp.apache.org	Open Source, Component Collection, World		USA		Quartenary-Sec						Natural Language Processing	N/A	N/A
sche UIMA	https://uima.apache.org	Open Source, Component Collection, Worl		USA		Quartenary-Sec	ctor			Research and D	evelopment (e	. Information Extraction, Text Mining	N/A	N/A
o Catalogue	http://argo.nactem.ac.uk https://www.biocatalogue.org/	Open Source, Component Collection, Worl Open Source, Web Service Registry	The National Centre for Text Mining, The Unive The University of Manchester	rUSA TIK	N/A Scientific	N/A	tor, Quartenary-1	No seekeelee.		Research and D		Text Mining	N/A N/A	N/A N/A
diversityCatalogue	https://www.biodiversitycatalogue.org	Open Source, Web Service Registry	The University of Manchester	UK			tor, Quartenary-			Research and D			N/A	N/A
ima	https://www.biodoversitycatalogue.org	Open Source, Component Collection, Worl		Switzerland			tor, Quartenary-1			Research and D			N/A	N/A
RIN-DK	http://clarin.dk/	Webapolication, Workflow	N/A	EU		Quartenary-Sec		no teciniology					CLARIN	N/A
arTK	https://cleartk.github.io/cleartk	Open Source, Component Collection, Worl	Center for Computational Language and Educal	USA	N/A	N/A						Machine Learning	N/A	N/A
mentine	http://datamining.togaware.com/survivor/Cle	mCommercial .	IBM	USA	All	Quartenary-Sec	ctor			Research and D	velopment (e	. Artificial Intelligence, Data Mining, Information Extraction	n N/A	N/A
ntentMine	http://www.contentmine.org/		ContentMine (non-profit)	UK/EU			, Quartenary-Sec			Education, Rese			N/A	N/A
a Scouts	https://datascouts.eu/	Open Source	N/A	EU	N/A		N/A I	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pro Core	https://dkpro.github.io/dkpro-core		Ubiquitous Knowledge Processing Lab (UKP), To		N/A	N/A						Natural Language Processing	N/A	N/A
s I	https://demo.bmd-software.com/egas/	Open Source, Standalone	N/A	EU	N/A			N/A	N/A		N/A	N/A	N/A	N/A
	http://elki.dbs.ifi.lmu.de/	Open Source, Workflow	Ludwig Maximilian University of Munich N/A	Germany	Business, Scien		ctor			Education, Rese			N/A	N/A
rkomat ilum	http://www.eparkomat.com/ http://epinium.com/	Commercial Commercial, Workflow, Standalone	N/A N/A	EU					N/A N/A		N/A N/A	N/A N/A	N/A N/A	N/A N/A
usivi	http://exclusivi.com/hotels/	Open Source, Workflow Environment	N/A N/A	EU					N/A N/A		V/A	N/A N/A	N/A N/A	N/A N/A
usivi I Data Management	http://exclusivi.com/noteis/ http://www.fico.com/	Commercial	N/A Fair Isaac Cornoration	IISA		N/A Quartenary-Sec		*/*				N/A Data Mining, Multimedia Processing	N/A N/Δ	N/A
DEV CONTRACTOR	https://galaxyproject.org/	Open Source, Workflow Environment	Center for Comparative Genomics and Bioinfor				tor. Quartenary-E	Bio-technology		Research and D			N/A	N/A
E Embedded	https://gate.ac.uk	Open Source, Component Collection, Worl		UK			tor, Quartenary-I					Information Extraction, Natural Language Processing, Tex		N/A
rt of Gold	http://heartofgold.dfki.de	Open Source, Component Collection, Worl	DFKI GmbH, Language Technology Lab	Germany		Quartenary-Sec				Education, Rese	arch and Deve	Natural Language Processing	N/A	N/A
SPSS Predictive Anal	lyshttp://www-03.ibm.com/software/products/e	n Commercial	IBM	USA	Business	Quartenary-Sec	ctor			Research and D			N/A	N/A
encity	https://influencity.com/en/	Webapplication, Workflow	N/A	EU				N/A	N/A		N/A	N/A	N/A	N/A
te	http://julielab.github.io		Friedrich Schiller University, Department of cor			Quartenary-Sec						l Information Extraction, Information Retrieval, Natural La		N/A
yzer	http://jpylyzer.openpreservation.org/	Open Source, Pipeline, Standalone	N/A	EU		Quartenary-Sec						. Multimedia Processing	Scape	N/A
	http://kyoto-project.eu/xmlgroup.iit.cnr.it/kyo			EU		Quartenary-Sec						Data Mining, Information Extraction, Term/Concept Extra		N/A
ler	https://kepler-project.org/		UC Davis Computer Science	USA			tor, Quartenary-1			Research and D	evelopment (e		N/A	N/A
ME zuage Grid	http://www.knime.org/knime http://langrid.org/en/index.html	Open Source, Workflow Infrastructure. Platform	KNIME.com AG The Language Grid Association	Switzerland		Secondary-Sect Ouartenary-Sec	tor, Tertiary-Sec I	Bio-technology				Data Mining, Text Mining . Association rules. Multimedia Processing, Natural Langua	N/A	N/A N/A
guage Grid PS Grid	http://langrid.org/en/index.html http://www.lappsgrid.org/	Infrastructure, Platform Infrastructure, Platform	The Language Grid Association Vassar College, et al	Japan USA		Quartenary-Sec Quartenary-Sec						<ul> <li>Association rules, Multimedia Processing, Natural Langua</li> <li>Natural Language Processing</li> </ul>	ųN/A N/A	N/A N/A
	http://www.iappsgrid.org/ (Nhttp://moa.cms.waikato.ac.nz/	Open Source	Vassar College, et al University of Walkato	New Zealand		Quartenary-Sec Quartenary-Sec				Research and D			N/A N/A	N/A
tchbox	http://matchbox.openpreservation.org/	Open Source, Pipeline, Standalone	N/A	FII		Quartenary-Sec						. Multimedia Processing	Scape	N/A
ta	http://meta.com/	Commercial	N/A	USA				N/A			V/Δ	N/A	N/A	N/A
	alyhttps://technet.microsoft.com/en-us/library/r	n:Commercial	Microsoft Technet	USA		Quartenary-Sec				Research and D	welonment (e	Data Mining, Multimedia Processing	N/A	N/A
ral Designer	https://www.neuraldesigner.com/	Commercial	Artelnics	Spain			, Quartenary-Sec	tor	Health and Soc			Data Mining, Machine Learning, Predictive Analytics	N/A	N/A
ĸ	http://www.nltk.org	Open Source, Component Collection, Worl	Team NLTK	Sweden/USA/Aus								Artificial Intelligence, Information Retrieval, Machine Lea		N/A
en Calais	www.opencalais.com/	Commercial, Open Source	Thomson Reuters	USA	Business, Scien	Quartenary-Sec	ctor			Research and D	rvelopment (e	. N/A	N/A	N/A
endatasoft	https://www.opendatasoft.com/	Commercial, Open Source	N/A	EU	N/A	N/A	N/A I	N/A	N/A	N/A	N/A	N/A	N/A	N/A
cle Data Miner GUI	http://www.oracle.com/technetwork/databas		Oracle	USA		Quartenary-Sec	ctor			Research and D			N/A	N/A
nge	http://orange.biolab.si/	Open Source	N/A	N/A	N/A	N/A							N/A	N/A
elyzer	http://pagelyzer.openpreservation.org/	Open Source, Standalone	N/A	EU		Quartenary-Sec						. Multimedia Processing	Scape	N/A
asus taho	https://pegasus.isi.edu http://www.pentaho.com/	Open Source, Workflow Commercial. Open Source	Information Sciences Institute, The University of Pentaho Corporation	USA USA		Secondary-Sect Quartenary-Sec	tor, Quartenary-	Aerospace		Research and D Research and D		. Data Mining, Text Mining	N/A N/A	N/A N/A
tano eline Pilot	http://accelrys.com/products/collaborative-sc		Accelrys	USA			ctor tor, Quartenary-1	N				: N/A : Data Mining, Graph Mining, Multimedia Processing, Text		N/A
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21	http://piazi.org/apritoos/ap/yariazi Ari	Infrastructure, Platform	N/A	EU		Quartenary-Sec		W/M				. Machine Translation	N/A	N/A
idminer Radoop	www.rapidminer.com	Commercial. Open Source	RapidMiner	USA		Quartenary-Sec						. Data Mining, Predictive Analytics, Statistics	N/A	N/A
idminer Server	www.rapidminer.com	Commercial, Open Source	RapidMiner	USA		Quartenary-Sec						Data Mining, Predictive Analytics, Statistics	N/A	N/A
dminer Studio	www.rapidminer.com	Commercial, Open Source	RapidMiner	USA	Business, Scien	Quartenary-Sec	ctor					Data Mining, Predictive Analytics, Statistics	N/A	N/A
ToNet	https://safetonet.com/	Open Source, Component Collection, Worl		EU	N/A	N/A	N/A I	N/A			W/A	N/A	N/A	N/A
Hana	https://hana.sap.com	Commercial	SAP America, Inc.	USA	Business	Quartenary-Sec	ctor			Research and D	rvelopment (e	. Data Mining	N/A	N/A
Data Mining	http://www.sas.com	Commercial	SAS Institute	USA		Quartenary-Sec				Research and D			N/A	N/A
S	http://www.ibm.com/analytics/us/en/technol		IBM	USA			, Quartenary-Sec	tor				Data Mining, Information Extraction, Predictive Analytics		N/A
erna	http://www.taverna.org.uk/	Open Source, Workflow Environment	School of Computer Science, University of Man			Quartenary-Sec						. Data Mining, Text Mining	N/A	N/A
orFlow	https://www.tensorflow.org/about/	Commercial	N/A	EU							W/A	N/A	N/A	N/A
ino	https://github.com/Theano/	Open Source, Workflow	N/A	EU				N/A			W/A	N/A	N/A	N/A
k Analytics	http://thinkanalytics.com/	Commercial Once Service	ThinkAnalytics Ltd Think Analytics	USA USA		Quartenary-Sec				Research and D			N/A N/A	N/A
k Enterprise Data Mi Nace	incwww.thinkanalytics.com/	Open Source Open Source, Workflow	Think Analytics N/A	EU	Business, Scien N/Δ	Quartenary-Sec N/Δ		N/A	N/A	Research and D N/A	rvelopment (e v/a	. N/A N/Δ	N/A N/A	N/A
lace dminer	http://www.avuxi.com/products/topplace https://www.trendminer.com/	Open Source, Workflow Commercial. Open Source	N/A N/A	IISA	N/A N/A				N/A N/A		W/A	N/A N/A	N/A N/A	N/A
aminer	http://www.trenaminer.com/ http://www.trianacode.org	Open Source, Workflow	N/A Cardiff University	UK		N/A Quartenary-Sec		N/M				N/A Data Mining, Multimedia Processing, Text Mining	N/A N/A	N/A
MW	http://yago.meertens.knaw.nl/apache/TTNW1		N/A	EU		Quartenary-Sec							CLARIN	N/A
ralls	http://www.vistrails.org	Commercial. Open Source	N/A	EU				N/A	N/A		rveiopinient (e v/Δ	N/A	N/A	N/A
nlicht	https://weblicht.sfs.uni-tuebingen.de/	Webapplication, Workflow	N/A	EU		Quartenary-Sec		·					CLARIN	N/A
		Open Source, Component Collection, Worl		New Zealand		Quartenary-Sec						Classification, Clustering, Data Mining, Predictive Analytic		N/A
	http://www.cs.waikato.ac.nz/~ml/weka													
KA rdfreak	http://www.cs.waikato.ac.nz/~ml/weka http://wordfreak.sourceforge.net/	Open Source, Component Collection, Worl	N/A	EU Zealand				N/A	N/A		WA.	N/A	N/A	N/A