



Aalto University

EU data economy – what have you done for me lately ?

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**What are universities doing to
advance EU data economy ?**

**Data management planning,
producing FAIR data, graduates
with skills needed for data**

AI data science **economy**

What are universities doing for data economy ?

http://www.aalto.fi/en/research/research_data_management/

Data management planning in all new research projects

Planning starts from users, what are data repository requirements for metadata, formats, anonymisation of personal data, informed consents ?

What do publishers require ? ethical preview if data from human subjects, data needed to validate findings , underlying data for articles needs to be available, preferably in a data repository.

For commercial partners ? Clear agreements about data ownership, strategic thinking in choosing a license

<http://www.aalto.fi/en/midcom-serveattachmentguid->

[1e75cac8ea538565cac11e7ae7d23956c7c4a294a29/researchers_practical_guide_to_intellectual_property_2017_fi.](http://www.aalto.fi/en/midcom-serveattachmentguid-1e75cac8ea538565cac11e7ae7d23956c7c4a294a29/researchers_practical_guide_to_intellectual_property_2017_fi)

Data management planning has become standard procedure

Participating projects in Horizon 2020 must develop a Data Management Plan since 2016.

Horizon 2020 Open Research Data Pilot, to improve reuse of research data generated by Horizon 2020 projects, taking into account the need to balance openness and protection of scientific information, commercialisation and Intellectual Property Rights, privacy concerns, security as well as data management and preservation questions.

http://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/hi/oa_pilot/h2020-hi-oa-data-mgt_en.pdf

Data Management plans and FAIR data required by major funders of research

Universities have programs producing skills needed

**Aalto Bachelor's Programme in Science and Technology - Data Science
Master's Programme in ICT Innovation (EIT Digital Master School) - Data Science**

Aalto Master's Programme in Computer, Communication and Information Sciences - Machine Learning, Data Science and Artificial Intelligence

Aalto University and the University of Helsinki have joined forces in artificial intelligence research by establishing the Finnish Center for Artificial Intelligence (FCAI).

In partnership with companies and the public sector, FCAI works towards the next generation of AI that is interactive, dependable and data-efficient.

http://www.aalto.fi/en/studies/education/programme/data_science/

How is legislative framework advancing data economy ?

Database Directive 96/9/EC -a negative effect on data economy
DSM proposal – no text and data mining for companies

Public consultation on the evaluation of the Database Directive 96/9/EC

The Database Directive does not take into account the needs of universities, research institutions and companies to analyze data, for example by text and data mining. Harmonization of the work threshold for databases is positive, but the Database Directive should have exceptions allowing text and data mining. Sui generis –database right has not had a positive impact on European data-based research or economy, sui generis right should be abandoned.

DG Internal Market and Services Working Papers. First evaluation of Directive 96/9/EC on the legal protection of databases http://ec.europa.eu/internal_market/copyright/docs/databases/evaluation_report_en.pdf

Proposed Digital Single Market Directive – no TDM for companies

The reading on reproduction right has fatal flaw in the EU, copyright is meant to protect the artistic and literary form of a work, not the information or data embedded. The flourishing of data economy takes place in jurisdictions allowing text and data mining for companies, for example in the USA.

Text and data mining, machine learning and artificial intelligence are intertwined. Not allowing text and data mining for companies in the DSM directive will have far reaching consequences, and they will not be beneficial for any sector of EU economy.

GDPR did not harmonise European Research Area – Code of Conduct ?

General Data Protection Regulation is harmonising many aspects of the processing of personal data. However scientific research carried out according to Art 6 section 1 subsection e) is to be defined in national legislation as a legal ground for processing and the possibility to limit rights of data subjects when this is necessary for scientific research is to be defined in national legislation.

European Research Area will still be under 27 different national personal data legislation related to research – but EU level Code of Conduct for Research might help to achieve common best practises



Ligue des Bibliothèques Européennes de Recherche
Association of European Research Libraries

To Enable Data Economy – Remove Legal Obstacles

<http://www.eua.be/Libraries/research/joint-statement-eu-copyright-reform100117.pdf>

Thank you !

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