



Università
Ca'Foscari
Venezia

PROJECT ACRONYM AND TITLE: TIME MACHINE: big data of the past for the future of Europe

FUNDING PROGRAMME: H2020 FET FLAGSHIP

CALL: H2020-FETFLAG-2018-01 (Preparatory Actions for new FET Flagships)

SCIENTIFIC FIELDS: ICT for Social Interaction and Culture:

HOST DEPARTMENT: DSU – Department of Humanities

SCIENTIFIC RESPONSIBLE: Dorit Raines

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
€ 1.172.049,25	€ 44.102,00

ABSTRACT:

Europe urgently needs to restore and intensify its engagement with its past. Time Machine will give Europe the technology to strengthen its identity against globalisation, populism and increased social exclusion, by turning its history and cultural heritage into a living resource for co-creating its future. The FET Flagship will develop a large-scale digitisation and computing infrastructure mapping millennia of European historical and geographical evolution, transforming kilometres of archives, large collections from museums and libraries, and geo-historical datasets into a distributed digital information system. To succeed, a series of fundamental breakthroughs are targeted in Artificial Intelligence and ICT, making Europe the leader in the extraction and analysis of Big Data of the Past. Time Machine will drive Social Sciences and Humanities toward larger problems, allowing new interpretative models to be built on a superior scale. It will bring a new era of open access to sources, where past and on-going research are open science. This constant flux of knowledge will have a profound effect on education, encouraging reflection on long trends and sharpening critical thinking, and will act as an economic motor for new professions, services and products, impacting key sectors of European economy, including ICT, creative industries and tourism, the development of Smart Cities and land use. The CSA will develop a full FET Flagship proposal around the Time Machine vision. Detailed roadmaps will be prepared, organised around science and technology, operational principles and infrastructure, exploitation avenues and framework conditions. A dissemination programme aims to further strengthen the rapidly growing ecosystem, currently counting 95 research institutions, most prestigious European cultural heritage associations, large enterprises and innovative SMEs, influential business and civil society associations, and international and national institutional bodies.

<https://timemachine.eu/>

Planned Start date	Planned End date
1 st March 2018	29 th February 2019

PARTNERSHIP:

1.	Ecole polytechnique federale de lausanne	Svizzera	Coordinatore
2.	Ca' Foscari University	Italia	Partner
3.	Technische universitaet wien	Austria	Partner
4.	International centre for archival research - icarus	Austria	Partner
5.	Koninklijke nederlandse akademie van wetenschappen - knaw	Olanda	Partner
6.	Naver france - naver	Francia	Partner
7.	Universiteit utrecht - uu	Olanda	Partner
8.	Friedrich-alexander-universitaet erlangen nuernberg	Germania	Partner
9.	Ecole nationale des chartes	Francia	Partner
10.	Alma mater studiorum - università di bologna	Italia	Partner
11.	Institut national de l'information geographique et forestiere	Francia	Partner
12.	Universiteit van amsterdam	Olanda	Partner
13.	Uniwersytet warszawski	Polonia	Partner
14.	Universite du luxembourg	Lussemburgo	Partner
15.	Bar-ilan university	Israele	Partner
16.	Universiteit antwerpen	Belgio	Partner
17.	QIDENUS GROUP gmbh	Austria	Partner
18.	Technische universiteit delft	Olanda	Partner
19.	Centre national de la recherche scientifique	Francia	Partner
20.	Stichting nederlands instituut voor beeld en geluid	Olanda	Partner
21.	Fiz karlsruhe- leibniz-institut fur informations infrastruktur	Germania	Partner
22.	Fraunhofer gesellschaft zur foerderung der angewandten forschung e.v.	Germania	Partner
23.	Universiteit gent	Belgio	Partner
24.	Technische universitaet dresden	Germania	Partner
25.	Technische universitat dortmund	Germania	Partner
26.	Oesterreichische nationalbibliothek	Austria	Partner
27.	Iconem	Francia	Partner
28.	Instytut chemii bioorganicznej polskiej akademii nauk	Polonia	Partner
29.	Picturae bv	Olanda	Partner
30.	Centre de visió per computador	Spagna	Partner
31.	Europeana foundation	Olanda	Partner
32.	Indra - indra	Spagna	Partner
33.	Ubisoft entertainment	Francia	Partner

