

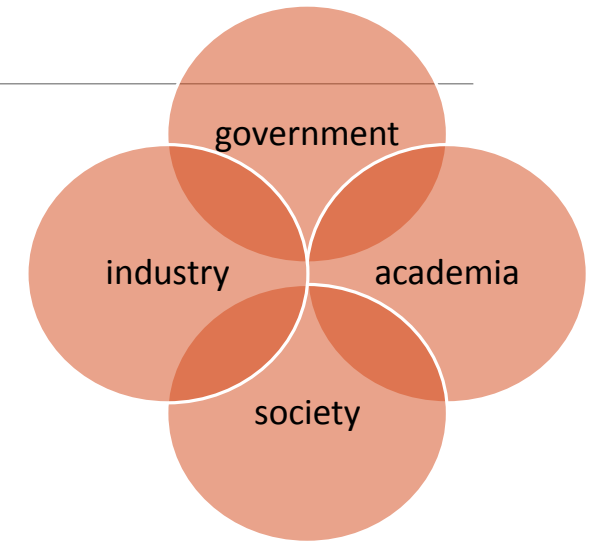
The Digital Humanities Network of the UABCie: a smart structure of research and social transference for the digital humanities

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UNIVERSITAT AUTÒNOMA DE BARCELONA



Introduction

Since the early years of the century and especially as a result of the global economic crisis, European public universities have seen the need to **adapt its model to the new social and economic needs** and to rethink their **role in society not only based on their academic identity** and as a provider of science and higher education, but also as a **contributor to solve the main societal challenges of our times**. In the field of research the current challenge is to ensure that research excellence translates into an economic, social and cultural growth for the region and that the public research can be accountable not only to the wide scientific world but also to the community and the country.



The quadruple helix

In 2010 the European Commission set up the **Europe 2020 Strategy, aimed to achieve a smart, inclusive and sustainable growth**. The Regional Smart Specialization Strategies identify priorities in which the region believe have potential to grow set up by the interaction of the quadruple helix. Universities are a key action in defining and implementing such strategies, and therefore, have had to make an effort to plan strategic plans that would enable alignment with these policies and European regions.

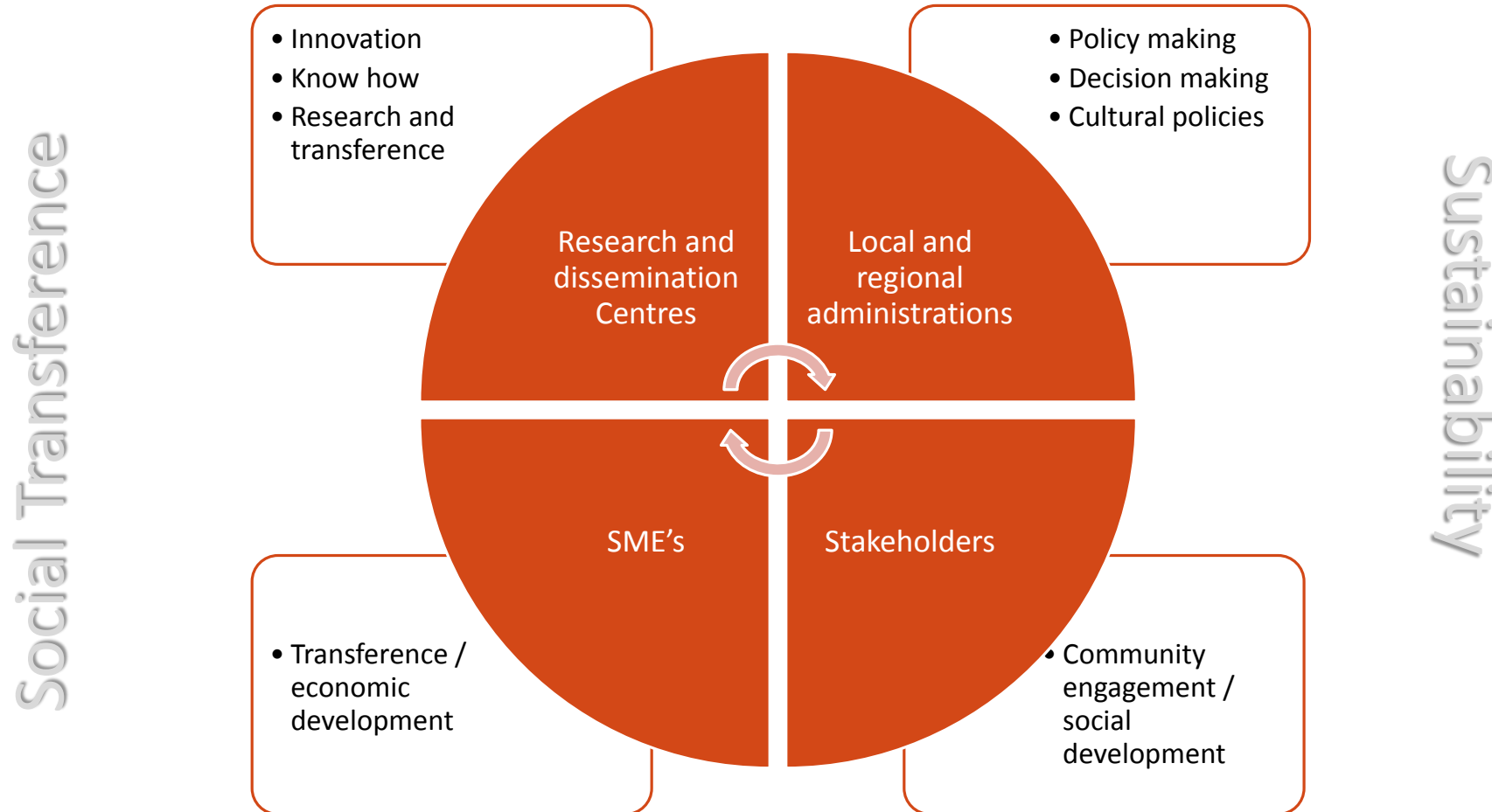
Objectives

The research groups and research centres involved in Digital Humanities of the **Autonomous University of Barcelona** want to **increase the number** of DH projects and their **visibility**. For these purpose a bottom-up network on DH has been created with the help of the VR of Research and Transference.

The Digital Humanities Network of the UAB and its Campus of International Excellence intends to effectively **articulate the capabilities** of research groups, research centres, scientific and technical services, technology parks and major infrastructures involved in research, education and dissemination activities in the Digital Humanities and its subset, the Digital Heritage.

The network pretends to **increases the competitiveness** of its members, **joining efforts in terms of visibility, coordination of activities** and **sharing of resources and information**.

The Cluster on Digital Humanities and Digital Heritage



The university network

Around 25 Research Groups and Research Centres

Scientific Coordination:

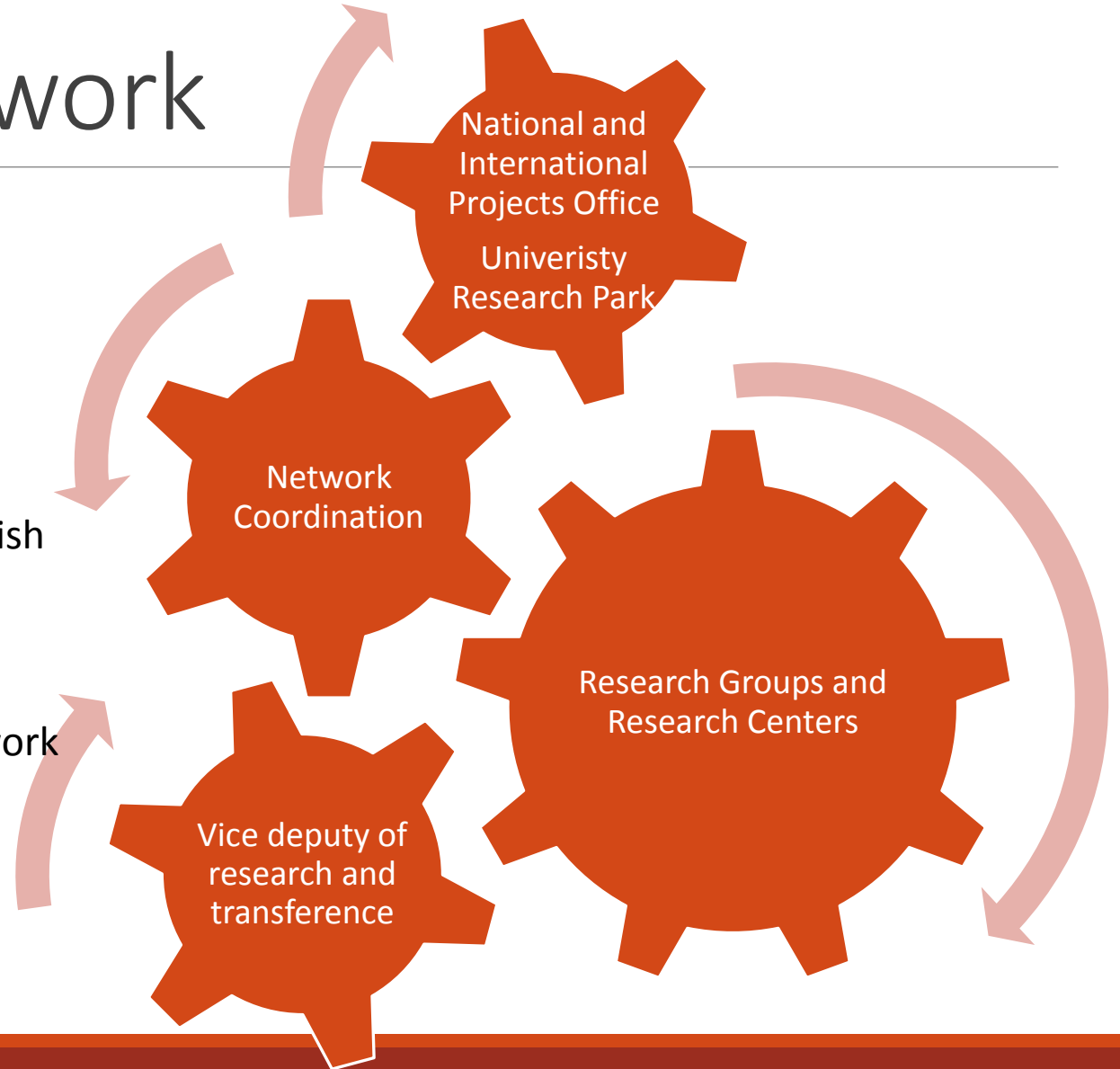
Alicia Fornés – Computer Vision Center
/Department on Computer Science
Ramón Valdès – ProLOPE /Department of Spanish
Philology

Technical Coordination:

Oriol Vicente – Cultural Heritage research network
– Strategic development unit

Governance model:

- 6 month assembly
- Email Discussion Group



The network

Main Activities

Preservation of DHeritage

Research and innovation

Training in Dhumanities

Dissemination

Humanities and SS

Literature and Philology

Archaeology

History

Sociology

Philosophy

Anthropology

Translation and interpretations

Arts

Preservation and Conservation

Law studies

ICT

Computer Vision

Artificial Intelligence

Computational simulation

Big Data Analysis

Computer Modelling

Graphic Visualisation and Modelling

Main Fields

Humanities Members

Research group of **Renaissance and Baroque Art in Catalonia**

Research group of **Aesthetic Theory and Cultural Heritage**

Management

MUSC-Research Group on music in the contemporaneous societies

CHARTAE - Research Group on Documental Heritage

Manuscripts. Research Group on Modern History

Research group of **Landscape and Cultural Heritage Management**

GRAPAC. Applied Research on Cultural Heritage Group

SFI - Lexicography and Diachrony

UAB

Universitat Autònoma de Barcelona

Servei de Biblioteques

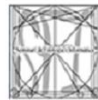
Biblioteca d'Humanitats

PROLOPE

*Grupo de investigación sobre Lope de Vega
de la Universidad Autónoma de Barcelona*

Seminari de Filologia i Informàtica

Grup de Lexicografia i Diacronia



MUSC

grapac
cetec **PATRIMONI**

Humanities Members

Agriculture Archaeology Group

AGREST – Archaeology of Social and Enviromental Resources

LAQU- Quantitative Archaeology Lab.

Transmedia Catalonia – Universal Accessibility

Tradumàtica – Translation Group

LIGIT - Laboratory of Geographical Information and Remote Sensing

SAA – Laboratory of Archaeological Analysis

IEM - Middle Ages Institute

ICP – Catalan Institute of Paleontology

Humanities Library UAB

CEPAP – Centre of Prehistoric Heritage Studies

ESAGED- School on Archives and Document Management



Grupo de
investigación
Tradumática

ligit



Escola Superior
d'**Arxivística i Gestió
de Documents**

Adscrita a la **UAB**

transmedia
catalonia



ICP^R

Institut Català de Paleontologia
Miquel Crusafont

ICT Members



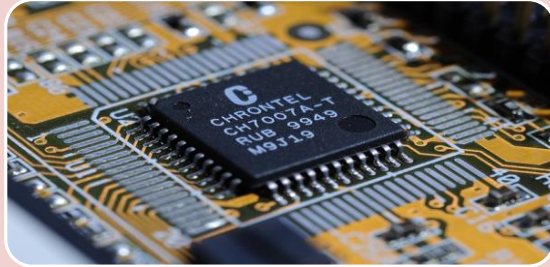
IIIA - Institute of Artificial Intelligence Research

CVC - Computer Vision Centre

ETSE – School of Computer Engineering studies

CAIAC- Graphic Visualisation and Modelling

4 helix collaboration members



Industry

- ✓ Digital tech (Hp, Epson,...)
- ✓ Media and Gaming (DIGITBCN,...)



Government

- ✓ Catalan Government
- ✓ Diputació de Barcelona
- ✓ Local Consortiums (Consorti de les Gavarres)
- ✓ Municipalities

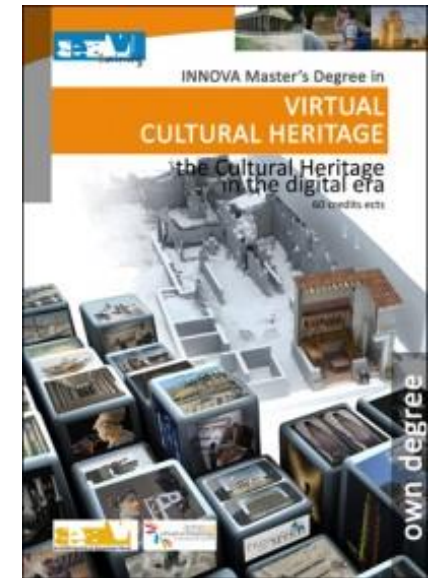


Comunity

- ✓ Formal education (schools,...)
- ✓ Non Formal education (Museums, Interpretation Centres,...)
- ✓ Associations and fundations

Training in Digital Humanities

- Master's degree on Digital Humanities - UAB
- Master's degree on Virtual Archaeology – Various Centres
- Master's degree on Artistic Heritage/Digital Musicology-UAB
- Master's degree *Tradumática*: translation technologies-UAB
- Entrepreneur program on Cultural and Creativity Industries-UAB



Dissemination Activities

- Presentation of DH Projects.
- Internal Workshops and Symposia
- Conferences by DH specialists
- Predoctoral oriented conferences by @XHD



The Future: Joint to International Associations



Digital Research Infrastructure
for the Arts and Humanities

The Future: Digital Humanities Openaccess Lab

- Faculty of Philosophy and Humanities
- School of Computer engineering
- University Research and Transference area
- Humanities Library
- Computer Vision Centre UAB-CSIC



A space of discussion and technology implementation in an open access space located in the Faculty. Research and user focused.

Main Projects

Digitization for preservation and research	Automatic translation
DataBases	Automatic recognition of handwritten documents
Bibliographic DataBases	Digital Archaeology and Digital Geography
Digital Repository	Universal and collective knowledge – Viquipedia projects
Digital Museology	Universal Accessibility
Social Simulation	Open acces Library Living Lab
Digital Critical Editions	

Digitization for preservation and research



Digital Library on Spanish Art History

Pianola Roll Digitizer



The Digital Archive of El Liceu Opera House



Personal Archive of Memory

Digitization and DB of written documentation concerning personal writings (diaries, autobiographies, etc.) of Catalonia and other Catalan-speaking territories

Research and innovation

DataBases



IberCrono

Radiometric Database for the Historical Chronology of the Iberian Peninsula



Atlas of Material patologies



Arna^{DB} Corpus digital d'Arnau de Vilanova

Manuscripts, early printed, documents and secondary literature concerning Arnau de Vilanova and the corpus of medical texts, and spiritual alchemy that circulated under his name



Database of the musical catalogue of Catalonia. Department of Art and Musicology at UAB. The aim to facilitate free access to the content of the records cataloged

Research and innovation

Bibliographic DataBases

traces

Bibliographic database on catalan language and literature. Project born in 1987 produced by the Study Group on Contemporary Catalan Literature



Bibliographic Information Service and Documentation of History, Language, Literature and Art of Catalonia



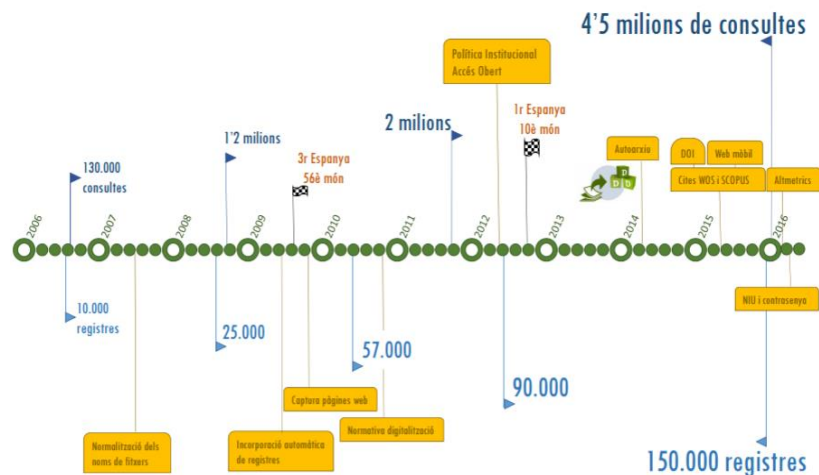
Management, maintenance and difusió of Local History of Catalonia through a Bibliographical Database.

Research and innovation

Digital Repository



The Digital Repository of Documents UAB collects, manages, preserves and disseminates scientific, educational and institutional digital documents that are part of the collective collections of the UAB libraries. It brings together a wide range regarding media, themes and types of documents. DDD always includes metadata describing the resource and access to full text.



- increase visibility, access, use and impact of research results.
- facilitate the search to the scientific, educational and institutional UAB from a single tank.
- provide the university community with a platform for publication of their work in their full and open access.
- add value to documents by means of standardized citations, consultation statistics and permanent addresses.
- ensure access to long-term preservation mechanisms.

Research and innovation

Digital Museology

CAN
TRONA
LA VALL D'EN BAS
Centre de Cultura i Natura

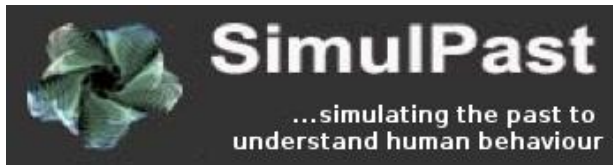
ROCA del BOS



To investigate the

Research and innovation

Social Simulation



SimulPast

Innovative and interdisciplinary methodological framework to model and simulate ancient societies and their relationship with environmental transformations. Modelling and simulation to investigate past human societies and, in consequence, support a better understanding of the present.



Uruk City in Second Life

Virtual Worlds complex interactions involving both humans and autonomous agents. *Combination of Virtual Worlds and A.I. as a new way of collaborative preservation of history and culture.*

Research and innovation

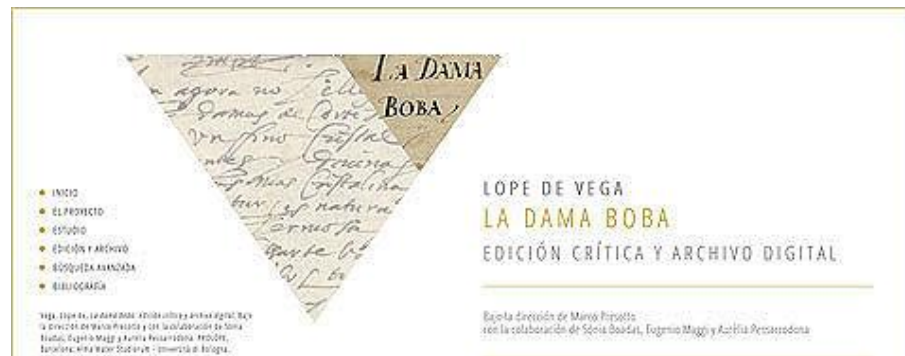
Digital Critical Editions



Free electronic journal dedicated to disseminate quality research on theoretical and methodological aspects related to digital publishing and diachronic corpus information in the Ibero-Roman languages (computerized development of textual databases, design and exploitation of Corpus, philological aspects of the design of corpus and of the digital edition, linguistic studies based on corpus, etc.)

La Dama Boba

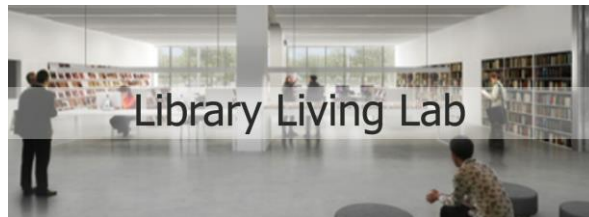
Digital Critical Edition of the play "La Dama Boba" by Lope de Vega



Research and innovation

Open acces Library Living Lab

The Library Living Lab – Barcelona (L3), is an open, participatory, experimentation and co-creation space, situated in the public library “Miquel Batllori” at the Volpelleres neighbourhood of Sant Cugat del Vallès, Barcelona, Spain. This Living Lab is a genuine bottom-up implementation of a people/public/private scheme.



Research and innovation

Automatic translation



Automatic translation of different languages on Apertium platform

Research and innovation

Automatic recognition of handwritten documents



Five Centuries of Marriages (5CofM)

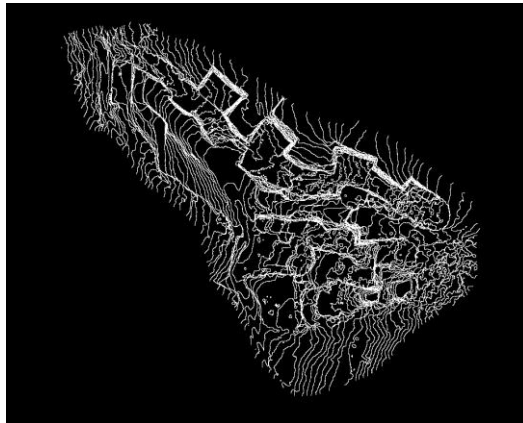
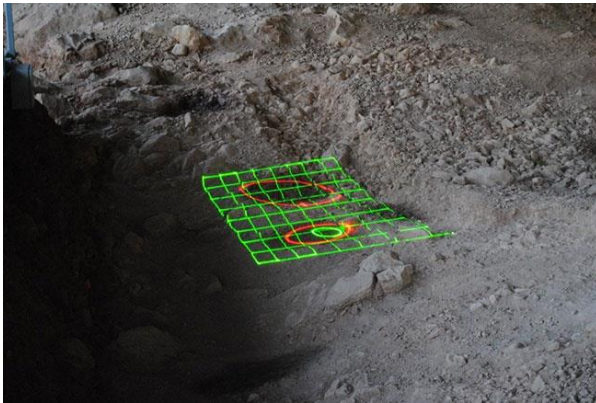
ERC project of Historical Demography in the Barcelona Area

Research and innovation

Digital Archaeology and Digital Geography



ligit



Projects

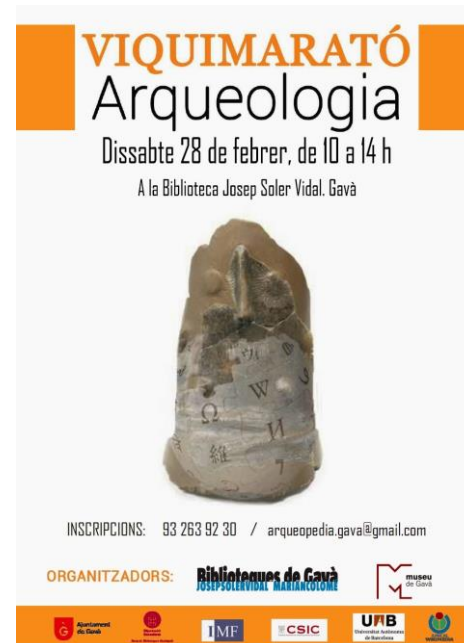
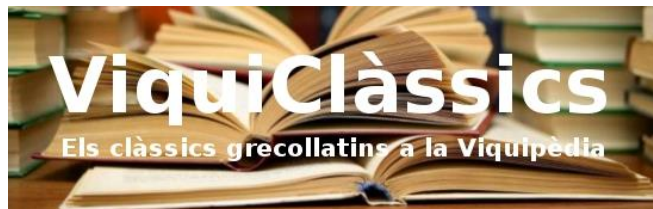
Universal Accessibility

- Video Games
- Translation
- Museums
- Virtual Worlds



Research and innovation

Universal and collective knowledge – Viquipedia projects



- Viquiclàssics
- Arqueopèdia
- Catalan Musicians IFMUC
-

THX

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@XHumDigitUAB