



Keeping Emulation Environments Portable

Fact Sheet

Project Information



KEEP

Grant agreement ID: 231954

[Project website](#) 

Project closed

Start date

1 February 2009

End date

29 February 2012

Funded under

Specific Programme "Cooperation": Information and communication technologies

Total cost 

€ 3 973 445,00

EU contribution 

€ 3 149 741,00

Coordinated by

BIBLIOTHEQUE NATIONALE DE FRANCE
France

Project description

Digital libraries and technology-enhanced learning

KEEP creates portable emulators enabling access to and use of digital objects stored on outdated media. The technology is being tested on early computer games.

KEEP is developing an Emulation Access Platform enabling the accurate rendering of objects produced on obsolete machines, so that they can be securely accessed in the long term. The project is thus addressing the problems related to transferring digital objects stored on outdated computer media (such as floppy discs) to current storage devices in order to reduce the risk of data loss resulting from technical obsolescence.

The KEEP emulation tools will be flexible enough to handle both static and dynamic digital objects designed for a wide variety of computer systems: text, sound, and image files; multimedia documents, websites, databases, videogames etc.

Research involves the specification of file formats and the production of transfer tools exploited within the framework, and the consideration of possible legal and technical issues.

Being aware of the fact that emulation software itself is prone to digital obsolescence, the KEEP consortium plans to create a portable platform that can be run on any possible device and be implemented to future computer systems. The emulation framework will also be distributed as open-source software so that the emulation community as a whole can contribute to its further development.

In addition to producing a software package, the project will improve understanding about how to integrate emulation-based solutions with an operational electronic deposit system. Existing metadata models will be researched and guidelines will be developed for mapping digital objects to emulated manifestations. Through this work, KEEP aims at creating a foundation for the next generation of permanent access strategies based on emulation.

Although primarily aimed at stakeholders in cultural heritage, such as memory institutions and (computer games) museums, the Emulation Access Platform should also be able to serve the needs of a wider range of organisations and individuals.

Intermediate Results

- During the first two years, the project team has undertaken research into media carriers and available transfer tools, and into the state-of-the-art in emulation. Also, a user requirements analysis was carried out in the National libraries of France, Germany and the Netherlands, and a design has been formulated for creating flexible, user-friendly emulation services, media carriers and media transfer tools.
- Furthermore, an investigation was carried out into the potential legal issues arising when copying information from original data carriers, and a study about metadata standards and approaches in Europe has been produced.

Fields of science (EuroSciVoc)

[natural sciences](#) > [computer and information sciences](#) > [databases](#)

[social sciences](#) > [economics and business](#) > [business and management](#) > [commerce](#) > [e-commerce](#)



Programme(s)

[FP7-ICT - Specific Programme "Cooperation": Information and communication technologies](#)

Topic(s)

[ICT-2007.4.3 - Digital libraries and technology-enhanced learning_\(ICT-2007.4.3\)](#)

Call for proposal

FP7-ICT-2007-3

[See other projects for this call](#)

Funding Scheme

[CP - Collaborative project \(generic\)](#)

Coordinator



BIBLIOTHEQUE NATIONALE DE FRANCE

EU contribution

€ 242 720,00

Total cost

No data

Address

QUAI FRANCOIS MAURIAC 11

75013 Paris

France

Region

Ile-de-France > Ile-de-France > Paris

Activity type

Research Organisations

Links

[Contact the organisation](#)

[Website](#)

[Participation in EU R&I programmes](#)

[HORIZON collaboration network](#)

Participants (8)



CROSS CZECH A.S. ⓘ

Czechia

EU contribution

€ 207 200,00

Address

VACLAVSKE NAMESTI 808/66
110 00 PRAHA 1 ⓘ

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

[Contact the organisation](#)

[Website](#)

[Participation in EU R&I programmes](#)

[HORIZON collaboration network](#)

Total cost ⓘ

No data



DEUTSCHE NATIONALBIBLIOTHEK

Germany

EU contribution

€ 176 160,00

Address

ADICKESALLEE 1
60322 FRANKFURT ⓘ

Region

Activity type

Other

Links

[Contact the organisation](#)

[Participation in EU R&I programmes](#)

[HORIZON collaboration network](#)

Total cost 

No data



FOERDERVEREIN FUER JUGEND UND SOZIALARBEIT E.V.

Germany

EU contribution

€ 150 200,00

Address

MARCHLEWSKISTRASSE
10243 BERLIN 

Activity type

Research Organisations

Links

[Contact the organisation](#)

[Participation in EU R&I programmes](#)

[HORIZON collaboration network](#)

Total cost 

No data



JOGUIN

France

EU contribution

€ 919 000,00

Address

AVENUE DE VIGNATE
38610 GIERES 

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

[Contact the organisation](#)

[Participation in EU R&I programmes](#)

[HORIZON collaboration network](#)

Total cost

No data



KONINKLIJKE BIBLIOTHEEK

Netherlands

EU contribution

€ 170 100,00

Address

PRINS WILLEM ALEXANDERHOF 5

2595 BE Den Haag

Activity type

Research Organisations

Links

[Contact the organisation](#)

[Website](#)

[Participation in EU R&I programmes](#)

[HORIZON collaboration network](#)

Total cost

No data



EUROPEAN GAMES DEVELOPER FEDERATION EKONOMISK FORENING

Sweden

EU contribution

€ 40 680,00

Address

ANCKARGRIPSGATAN

21119 MALMÖ

Activity type

Other

Links

- [Contact the organisation](#)
- [Participation in EU R&I programmes](#)
- [HORIZON collaboration network](#)

Total cost

No data



TESSELLA LTD

United Kingdom

EU contribution

€ 499 661,00

Address

THE QUADRANT ABINGDON SCIENCE PARK 26
OX14 3YS ABINGDON

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

- [Contact the organisation](#)
- [Participation in EU R&I programmes](#)
- [HORIZON collaboration network](#)

Total cost

No data



UNIVERSITY OF PORTSMOUTH HIGHER EDUCATION CORPORATION

United Kingdom

EU contribution

€ 744 020,00

Address

Mercantile House, Hampshire Terrace, Portsmouth
PO1 2EG PORTSMOUTH

Region

South East (England) > Hampshire and Isle of Wight > Portsmouth

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#) 

[Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost 

No data

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