

# **ICT Work Programme 2011-2012**

## **Objective 4.3**

### **Digital Preservation**

**Manuela Speiser**  
**European Commission, DG INFSO**  
**Cultural Heritage and Technology Enhanced Learning**

*NCP information meeting, 29 November 2011*

# Digital Preservation in the ICT Programme

## ■ Objective

- creating technology solutions and innovative methods for keeping **digital resources available and useable over time**

We can not fund:

- preservation of analogue objects
- storage technologies

*Target outcome a)*

## **More reliable and secure preservation technologies and methods (1/2)**

### ■ **Outcome**

- Techniques and tools for **recovering** loss and for **repairing** damaged digital objects
- Solutions guaranteeing the long term availability of **newly created resources**  
*non-exclusive examples: 3D objects and models*
- Research may go beyond digital objects and include the long term **functionality of systems** for creation, management and storage of digital resources
- Conceptual frameworks for **quality assurance**

**Instrument: STREPs**

*Target outcome a)*

## **More reliable and secure preservation technologies and methods (2/2)**

### **■ Underpinning research issues**

- Which currently available or emerging methods and technologies are most efficient? In which use contexts or for which kinds of resources?
- How do loss and damage occur?
- Which degree of integrity is required for keeping resources usable?

*Target outcome b)*

# Technologies and systems for intelligent management of preservation (1/2)

## ■ Outcome

- Support to long term **usability** of digital resources (including high volume, heterogeneous, volatile content) through a **life cycle approach** to its preservation
- Support to human appraisal and selection processes, embedding **reasoning and intelligence** in the content itself
- Activities may cover solutions to identify and erase **obsolete information**

**Instrument: Integrating Project**

*Target outcome b)*

# **Technologies and systems for intelligent management of preservation (2/2)**

## ■ **Underpinning research issues**

- Keeping resources usable, i.e. meaningful and understandable, requires conceptual understanding of **evolving semantics, use contexts, and interpretations**

*Target outcome c)*

## **Interdisciplinary research networks (1/2)**

### ■ **Rationale**

- The digital preservation challenge is a **complex** one, with **multiple dimensions**
- Development and deployment of novel IT solutions need to be situated in the **context** of many other issues and questions – e.g. social, historical, legal...

*Target outcome c)*

## **Interdisciplinary research networks (2/2)**

### ■ **Outcome**

- Interdisciplinary research networks bridging technological domains and **scientific disciplines concerned with information**, and expertise in end-user needs

**Instrument: Network of Excellence**

*Target outcome d)*

## **Promoting uptake of research results & roadmapping**

### ■ **Outcome**

- Promotion schemes for the **uptake of digital preservation research outcomes** including outreach to new stakeholders and **road mapping** activities

**Instrument: Coordination Action / Support Action**

# Trends emerging in/from EU-funded research

- **Solid body of expertise in the EU research community**
  - 15 projects funded since 2006
- **Broadening of the digital preservation community and of range of use cases, e.g.**
  - industry and services: aerospace, health care, finance
  - research: astronomy, genomics
  - governmental and broadcasters' archives
  - libraries, web archives

# Trends emerging in/from EU-funded research

- Increasing participation of **industry players** as solution providers or problem owners => increasing market potential for project outcomes
- **Services for end-users**
  - Open Planets Foundation: provides practical solutions and expertise, building on R&D outputs of PLANETS
  - competence centre for preservation of digital audiovisual material: PrestoCentre



- **DigiCult web site**

[http://cordis.europa.eu/fp7/ict/telearn-digicult/digicult\\_en.html](http://cordis.europa.eu/fp7/ict/telearn-digicult/digicult_en.html)

- **Contact**

[infso-digicult@ec.europa.eu](mailto:infso-digicult@ec.europa.eu)