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FAMILY ARCHIVES

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service of digital preservation targeted to citizens user requirements

We propose a long term digital preservation service targeted to citizens user requirements, the service must be certified for issues like security, authenticity, provenance, integrity, identification of people, future usability, rights and privacy respect. It's not a file sharing box or e-mail or shared folder or back-up directory or blog or similar, it is something no yet available for citizens.

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Why do we need such a service?

- citizens have to manage a lot of digital objects in an appropriate way/time
- Libraries & Archives — Research Centres — Public Administration — ... citizens ????
- Internet offers a lot of services to store e-mails, photos, files, videos and most of them for free —> not preservation services + private single company + terms of service

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The Digital Agenda for Europe (DAE) <http://ec.europa.eu/digital-agenda/digital-agenda-europe> aims to help Europe's citizens and businesses to get the most out of digital technologies

The digital economy is growing at seven times the rate of the rest of the economy. Over 50% of Europeans use the internet daily but 30% have never used it at all!

Everyone needs enhanced digital skills to participate fully in the future information society and benefit of all the services developed by the PA to interact with citizens independently by age, education, language, etc.

Codice della Amministrazione Digitale available at the Agency for the digital Italy <http://www.agid.gov.it/> —> **Sistema Per l'Identità Digitale** with a unique stable identifier for each person resident in Italy, based on the fiscal code and other anagraphic info

Personal Archiving: it addresses an extremely large spectrum of topics, responsibilities, types of content and functionalities, mixing together seldom private-public entities

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Magazzini Digitali project developed by the National Central Library in Florence, National Central Library in Rome, Marciana Library in Venice, Fondazione Rinascimento Digitale

—> to create a **legal deposit national service** for any publication afferent to the Italian Ministry of Culture and Education, www.depositolegale.it

(L. 106/2004, DPR 252/2006)

The 3 data centres have been selected far enough and by independent companies

- viability = bits are preserved in correct sequences
- render-ability = formats of files can be interpreted by a computer
- authenticity (identity + integrity) = specific metadata and PI
- availability = resources can be accessed

The actors

1. A **board of public institutions (PIB)** defining the terms of service, the network architecture and executing a continuous monitoring of the system. In our proposal, they are the Tuscany Region, the Florence council and the National Library.
2. At least **3 service providers (SP)** that can be public institutions or private companies.
3. The final **users** so the citizens archiving their contents.

The PIB defines the terms of service and functionalities of the system based on a trusted digital repository. The PIB is responsible to define a preservation policy and risks register: written roles and responsibilities must be defined and accepted by all.

The SP can be public or private, they are responsible for the service maintenance and communication.

The actors – The service – The trust elements

The service

Long term digital preservation service targeted to citizens user requirements, the service must be certified and trusted by the target user community for issues like security, authenticity, provenance, integrity, context information, identification of people, future usability, rights and privacy respect.

—> selected digital memories of citizens with description metadata

A fundamental component of this system is its training goal!

Training of users will be about topics like selection criteria, possible strategies for long term curation, licencing and accessibility issues, right management, technology migration strategies.

The actors – The service – The trust elements

The service

The contract innovative points are:

- i) Persistent Identifiers are used for any person and for any digital content
- ii) the service is based on the ownership of the digital contents;
- iii) the account can be individual or related to a family;
- iv) the user can decide the type of accessibility of each single content;
- v) the user pays an annual fee for an active login, silent logins are free;
- vi) the contents are not cancelled for long time.

User personal profile:

1. first and last name
2. sex and nationality
3. fiscal code and the personal identifier in the national register (SPID)
4. e-mail and other contact

The actors – The service – The trust elements

The service

At the first creation the user is asked if the login is **individual** or **‘family’**.

At the ingest phase the user is requested to **self-declare** to be owner of the contents and to clear any problem for digital rights management and IPR.

The ownership of the contents remains always of the users, even if some rights are extended to the service providers for the long term management of the digital archive.

Type of accessibility for the single content: private, shared, public (CC 3.0), the user can share the accessibility of that content with other members of the family.

Persistent Identifiers (PI) both for people and objects

- Italian national identifier (SPID)
- DOI and NBN.

The user pays an annual fee for an active login <—> silent login

	photo	text	comments
accepted digital formats	JPEG, PNG	PDF/A, DOCX	for text only a list of fonts are accepted
PI of the owner ingesting the content	SPID	SPID	other PI systems are acceptable for people not resident in Italy
PI of the digital content	DOI, NBN	DOI, NBN	if existing otherwise the system will create one
self-declaration IPR	private- shared	private- shared	shared with other members of the family
self-declaration ownership & rights	private- shared	private- shared	shared with other members of the family
Title			free text
language	NA		only for text document
description of subject and context			free text
keywords			free text
date of ingestion or ¹⁰ modification			The system assigns automatically, as well as any future change is tracked
forecast duration			
accessibility	private- shared- public	private- shared- public	In case of shared ownership the accessibility must be agreed by all the owners

The trust elements

Trust is fundamental for this system, so it's crucial the role played by the PIB. The PIB is responsible to manage **technology migration** and to define a preservation policy, a **technology watch** and **risks register** in order to grant safe control of the global system.

Trust and Sustainability of the system are based on some basic elements:

- 1.the PIB oversees the global system architecture and executes a technology watch;
- 2.the SP are at least 3 independent and far enough;
- 3.The PMB implements privacy and rights management functionalities;
- 4.the PIB grants to preserve the family archive for successors;
- 5.duplication of data is maintained safe on the network;
- 6.thanks to the agreement between the PIB and the SP, contents are not cancelled for long time even if the user stops paying the annual fee.