



Agents and Social Networks Environments for Digital Preservation

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PROTAGE Consortium



PReservation Organizations using Tools in AGent Environments



National Archives of Sweden



Luleå University of Technology (Sweden)



National Archives of Estonia



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Digital Preservation?



In many cases, **digital materials** are considered more fragile than physical ones. The files themselves **can be easily destroyed** or stored in a format that **becomes obsolete**.

Tones of personal data!

DATA DELUGE
(Fran Berman)





Data Deluge = Snow Plowing

Institutions



Individuals

There is
need



Opportunities

Digital Preservation is a **social duty**;

not only institutions **but individuals**

DP is social

Fragmented DP Knowledge

- 67% of *expert users* look for solutions provided by other institutions.
- 90% of them consult trusted colleagues.
- 83% consult final users

Frequent Knowledge Exchanges

- 83% of *expert users* share their knowledge
- 77% search through the web for solutions
- 60% visit DP web sites
- 20% contribute to the web sites

DP Opportunities

- DP Consultancy
 - Indexing: deep web
 - Social search
- Peer DP services** like
- "keeping your copies as you keep mine"
 - Crossed services before preservation (i.e., enhancing content)

Users show a slight preference for DP being bundled with storage services (77%) rather than being bundled with antivirus tools (63%). Expert users (64%) claim they would accept to pay 10% of the price of the storage service, being the estimated price of 15% of the storage service and 13% of the antivirus service.



PROTAGE–intelligent agents

- **Social search** is implemented
- Experts and final users share DP solutions
- Lists of trust guide the social search
- **Agents automate the social search** for DP solutions in terms of actions plans and migration support
- Agents proactively schedule the preservation tasks

It might seem the Facebook of DP

Agents are a type of peer services



MORE OPPORTUNITIES

- We have tackled these opportunities but there are many domains other than the personal digital preservation, especially in the **Hospital**, **Police** and **SME** Records worlds, which we deem as interesting to tackle

- There more than 19 million SME in Europe....



Thank you

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