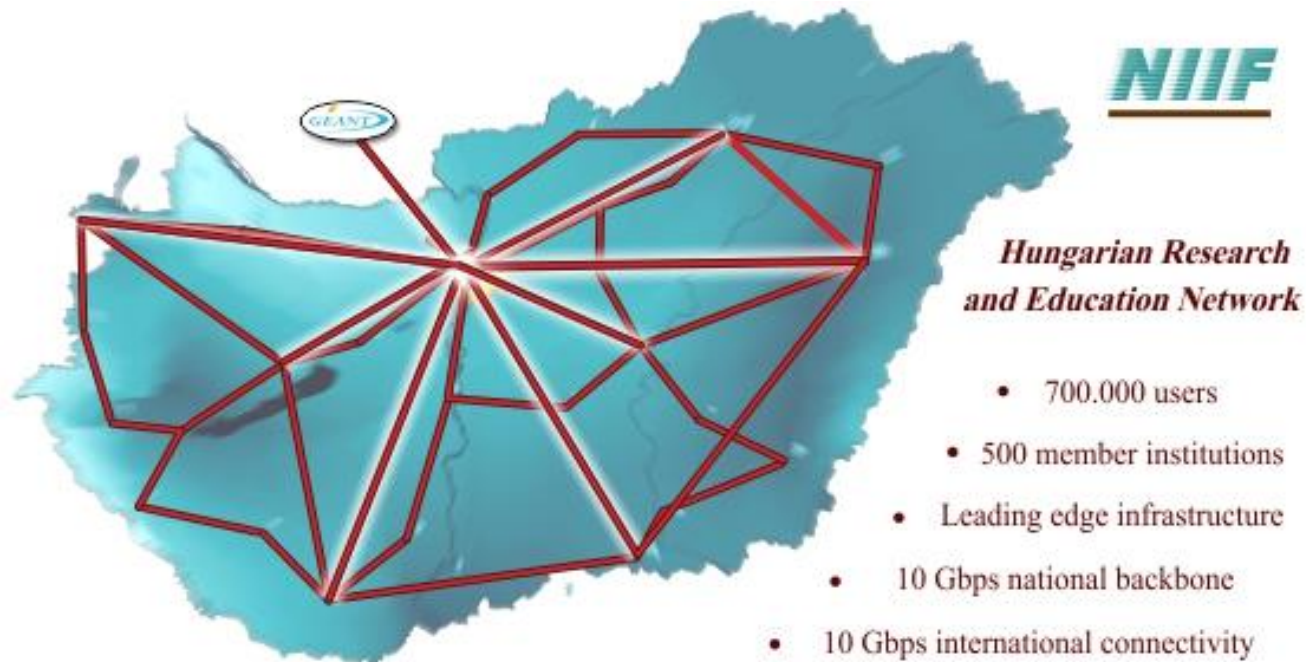# DCH-RP comments

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E-infrastructure and digital cultural heritage

E-infrastructure and digital cultural heritage

NIIF services:
- an integrated computer networking infrastructure and, on the basis of that,
- a wide range of communication, information, and co-operation services,
- leading-edge environment for networking applications, as well as
- advanced framework for content generation and provision.

Partners
- Higher education
- Research institutions
- Museums, libraries
- Libraries (282 incl. Branches)

E-infrastructure and digital cultural heritage

„NIIFI is well prepared to introduce these new approaches and offer them to the cultural heritage sector, including networking, grid, cloud, HPC, and storage." (64. p.)

E-infrastructure and digital cultural heritage

Problems of the Digital Cultural Heritage Sector concerning digitization

- Lack of content
  - Isolated projects targeting specific collections. (E.g. governmental documents)
  - Most digitized material is not available in Europeana
- Lack of awareness of the importance of
  - Cross-sector integration;
  - Technical interoperability;
  - Semantic interoperability and re-use;
  - Cooperation both on a domestic and international level;
  - Knowledge on existing content.

E-infrastructure and digital cultural heritage

„Continuing investment in in-house preservation systems will contribute to the lack of interoperability and fragmentation of resources into "digital silos". Stand-alone solutions that are not transferrable and interchangeable lead to fragmentation and do not offer economies of scale." (43. p.)

E-infrastructure and digital cultural heritage

„Another important issue is the level of maturity in the DCH sector to handle distributed digital preservation solutions. E-Infrastructures can reach their maximum potential in serving the DCH preservation practice only if the DCH sector is prepared to exploit the opportunities of the e-Infrastructure. This is obviously not the case today.”

(DCH-RP, 47. p.)

E-infrastructure and digital cultural heritage

General remarks
- Well-defined services
  - Enhanced service portfolios of NRENs with SLA (Service Level Agreement)
  - Supporting DCH sector to take into use and exploit the maximum potential of these services.
- Value proposition
  - Raising awareness

Long term preservation

Requirements of long term preservation
- Content producers should be aware of the requirements of long term preservation.
- External suppliers are hardly get to take it into account.
  - E.g. publishers that prvide legal deposit
  - Converting these documents?

What is not capable of long-term preservation?
- Programmed multimedia?

Metadata
- Integrated into the document (too).

Persistent identifiers
- How can be ensured their long-term existence.

Services and cloud

Services

◦ The services should be able to integrated to present institutional environments – integration interfaces are needed.

Cloud

◦ Heavily used documents easily accessible

◦ Most content is not heavily used → How will the advantages of cloud be exploited?

Trust

Cryptography and trust
- Encryption for 70 years long after the authors' death
- Encryption problem
  - Content under copyright should be encrypted.
  - The loss of key can make impossible the decrytion.
  - Is it safe when keys can be reproduced?
  - Regularly re-encryted?
- Obsolesence of encrytion methods
- Elaborating a concept of „safe storage"
  - Defining the main requirements.

Thank you for your attention!

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