

# Open Standards:

## Time Proofing Information

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[...] The tsunami [...], is perhaps the most graphic, albeit unfortunate, demonstration of the need for global collaboration, and open ICT standards. The incalculable loss of life and damage to property was exacerbated by the fact that responding agencies and non-governmental groups were unable to share information vital to the rescue effort. Each was using different data and document formats. Relief was slowed, and coordination complicated. [...]

– *Mosibudi Mangena, Opening address of SATNAC 2005*

<http://home.intekom.com/satnac/>

# Epoch of Forgetting<sup>1</sup>

- Physical decay of media,
- Loss of information about the format, encoding, or compression of files,
- Obsolescence of hardware, and;
- Unavailability of software.

**Old bit streams never die—they just become unreadable<sup>2</sup>**

<sup>1</sup> Umberto Eco

<sup>2</sup> Jeff Rothenberg, Ensuring the Longevity of Digital Documents, Scientific American (Vol. 272, Number 1, pp. 42-7).

# The Preservation Nexus<sup>1</sup>

- **Knowledge Creation:** Contribute to Research and Development
- **Digital Policy:** Developing Guidelines for What Can and Should Be Saved
- **Rescue Operations:** Ensure Vital Electronic Documents are Preserved
- **Document Formats:** So Many to Chose From

<sup>1</sup>Terry Kuny, *A Digital Dark Ages :Challenges in the Preservation of Electronic Information*, retrieved from <http://www.ifla.org/IV/ifla63/63kuny1.pdf>

# The Preservation Nexus<sup>1</sup>

- **Being Legal:** Rights Management and Access Control
- **Wave the Flag:** Promoting the Importance of Preservation
- **All for One, One for All:** Working Together
- Digital Preservation as a **Public Good**

<sup>1</sup>Terry Kuny, *A Digital Dark Ages :Challenges in the Preservation of Electronic Information*, retrieved from <http://www.ifla.org/IV/ifla63/63kuny1.pdf>

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# Open Mantra<sup>1</sup>

- **Open Source Tools** *based upon*
- **Open standards** *to achieve*
- **Open Access to Information** *such as*
- **Open course ware**

<sup>1</sup> Mantra in Sanskrit means chant or spell.

# Librarian's Digital Library : First Digital Library of India for Librarians based on OSS DSpace.

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# SDL : Search Digital Libraries

## SDL Search Digital Libraries In Library and Information Science

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The search results display the metadata, you can see full metadata by clicking 'View Record' or you can access the full text of the document by clicking 'View Original'.

**NOTE:** If you wish your digital library to be harvested by SDL, Please add your archive's baseURL, only if your repository contains at least one LIS related set

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# Open **Mantra** for Digital Preservation

- **Architectures for persistent digital repositories:** Open Source Code, Open Standards.
- **Attributes of archived digital collections :** Right Choice of Preservation Metadata
- **Policy and economic models:** Open Licensing
- **Tools and technologies for digital archiving:** OSS

# Why is preservation metadata important?

- Digital objects are technology-dependent ...
- Digital objects are mutable ...
- Digital objects are bound by intellectual property rights ...
  
- **Makes digital objects self-documenting across time**

# PREMIS

- Store metadata redundantly in XML or relational database and with content data objects
- Use METS for structural metadata and as container for descriptive and administrative; MIX for images
- Use OAIS as framework
- Maintain multiple versions (originals, some normalized or migrated) in repository with complete metadata for all versions
- Choose multiple strategies for digital preservation

# Thank You

**ICSD 2009** – International Conference of Semantic  
Web and Digital Libraries, Sept 8-11, 09,  
University of Trento, Italy

**<http://icsd-conference.org>**

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