Consiglio Nazionale delle Ricerche



strategic tool to valorize grey literature and research

products







Consiglio Nazionale delle Ricerche

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Planet Digital Libraries: key features and benefits

For definition <u>DL</u> provide a <u>wide sightseeing of all information</u> contained <u>within a library</u>, <u>no matter its format or support</u>, and serve <u>special communities</u> through the network

DL main features:

- collaborative work and virtual workplaces;
- digital document preservation;
- distributed database management;
- hypertext;
- information filtering and information retrieval;
- instructional modules;
- intellectual property rights;
- multimedia information services;
- FAQ and reference services;
- informative resources discovery and selective dissemination of information

Planet Digital Libraries: main key features and benefits

<u>Digital libraries benefits and advantages</u> (compared with traditional libraries):

- Constant availability of up-to-date, high quality multimedia resources

 → easier removal of physical and conceptual barriers;
- Network connectivity and interactive technologies → Rich virtual workplaces empowering social interactions;
- Digital technology → <u>advanced and innovative services</u>, usually hard and expensive for a traditional library

DL standards and metadata

- Metadata is structured information for a better retrieval, use or management of information resources. The term metadata is used differently in different communities.
- In libraries metadata is commonly used for formal scheme of resource description, applying to any type of digital object. (MARC 21 and its rule sets AACR2 is one of the metadata standard).
- For the practical purposes, metadata can be classified into three broad categories:
- Descriptive Metadata: describe and identify information resource through the use of search tools, as well as provides sufficient context for understanding what has been found. The best-known descriptive metadata standard for libraries is MARC (Machine-Readable Catalog) and Dublin Core
- <u>Structural metadata</u>: enhance navigation and presentation of electronic resources
- Administrative meta-data: facilitate both short-term and long-term management and processing of digital collections

DL Persistent Identifiers: main current types and qualities

DL need persistent naming → digital resources must remain the same regardless of where the document is located. Anytime, anywhere (No matter if it changes location or ownership changes)

PI must be:

- Unique (permanent naming system)
- Global
- Reliable
- → Unique name is a basic quality for:
- citations
- information retrieval
- links among objects
- managing copyright

DL Persistent Identifiers: main current types and qualities

- Uniform Resource Name (URN)
- Internationalized Resource Identifier (IRI)
- Persistent Uniform Resource Locator (PURL)
- Digital Object Identifier (DOI)
- Archival Resource Key (ARK)
- CNRI Handle System (http://hdl.handle.net)
- OAI Identifier

DL Persistent Identifiers: other kind of construction hypothesis

Why not?

In grey literature:

The old 'ISRN' [dead in 2007 in ISO environment, but alive in old catalogues and repositories as Opengrey] ->> could be transmigrated in new DOI identifiers

In white literature:

The traditional 'ISSN' ->> is involved as the core element in the construction of several kinds of Persistent identifiers

In a general scenario of identifying people:

The new ISNI (International Standard Name Identifier) ...

DL Persistent Identifiers: ISSN as including element

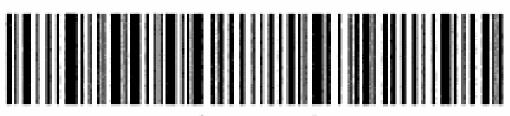
<u>According to ISO 3297:2007 ...</u>
<u>ISSN and/or ISSN-L identifiers could be incorporated in (examples):</u>

- DOI
- OpenURL
- URN
- _
- In other identifiers:
- SICI
- EA N-GS1....

ISRN

- ISO 10444 : 1994 (Withdrawn on December 2007):
- International Standard Technical Report Number (for Identification and location of Research and Technical reports)
- Never implemented in practice. It aimed to be an international extension of a report identifier scheme used by U.S. government agencies (ANSI/NISO Z39.23), managed by National Agencies and International Registry Authority of Fitz Karlsruhe
- **36** Alphanumeric characters \rightarrow 3 sequences separated by (-)
- **<u>Criticalities</u>**: Interoperability problems (encoding problems due to alphanumerical sequences (e.g. <u>diacritical signs on acronyme</u>)
- Benefits: It refers to a <u>specific volume</u> and its contents → useful if there is no other identifier such as a DOI (based on ISSN, year and volume/number) or other individual identifier, and also if the contents varies much from one volume to the next. It is easier to refer (in a citation) to an ISRN or report number than to refer to the ISSN +year+volume → ISRN/report number useful forthe construction of persistent links and record identifiers.
- Currently used in France and Sweden for doctoral thesis (beside ISSN)

ISSN in SICI syntax



0886-9383(200112)15:10;1-K

Journal of chemometrics, 15 (2001), 10

The Italian ACNP catalogue
processes SICIs for its holdings
Co-managed by CNR Central Library and Bologna University



identifying people ...

The new frontier of the identification

ISNI (ISO 27729/2012)

1422 4586 3573 0473

ORCID

(Open researcher ad contributor ID)

0000-0001-7564-495X

The authors will be easier internationally identified!





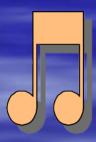
ISO identifying works/publications ...

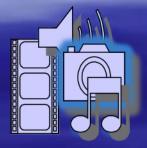
The traditional frontier of the identification



ISBN ISSN ISTC







ISAN

ISO identifying works/people/links ...

The 2012 frontiers of identification



DOI (works)

ISNI (people)



And then the links ...
ISDL



Identification completed







