

OpenDLib Digital Library Management System

Pasquale Pagano
CNR – ISTI

pasquale.pagano@isti.cnr.it



ISTITUTO DI SCIENZA E TECNOLOGIE
DELL'INFORMAZIONE "A. FAEDO"

Outline

➤ Definition

➤ Capabilities

- ❖ Developer perspective
 - Application Framework
- ❖ DL System Admin perspective
 - Example
- ❖ Librarian and End-user perspective
 - Demos

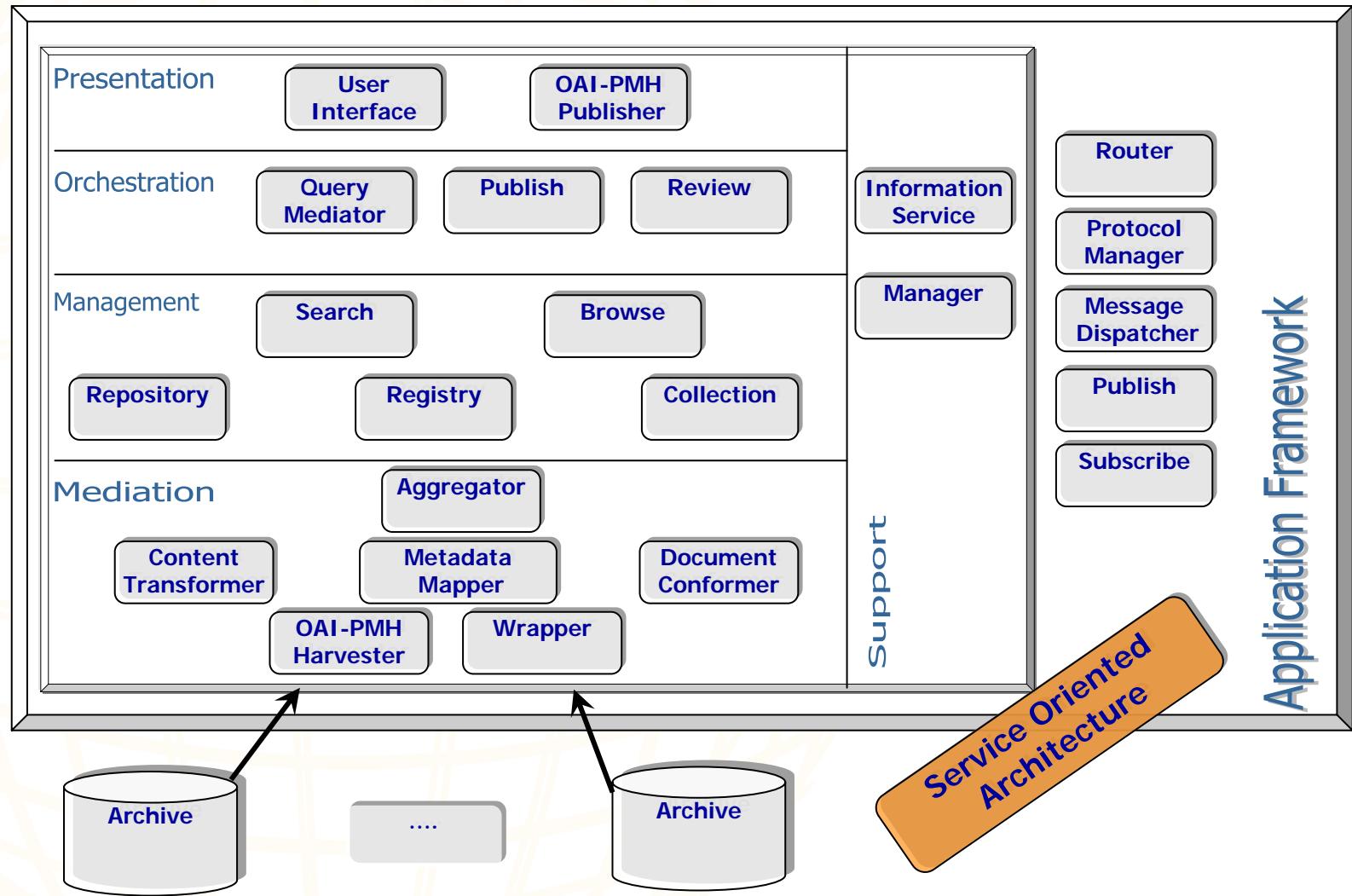
Definition

OpenDLib is a **software toolkit** that can be used to create a digital library easily, according to the requirements of a given user community, by instantiating the software appropriately and then either loading or harvesting the content to be managed.

Wide variety of document types

- ❖ different format, media, and structure
- ❖ multiple editions, versions, and manifestations
- ❖ more metadata records in different formats

Capabilities



Capabilities: developer perspective

The protocol is completely hidden to the services.

- ⊕ All the services use the Protocol Manager to send their requests.
 - The Protocol Manager prepares the message
 - The Router identifies the appropriate service to contact
 - The Message Dispatcher passes a request to the appropriate service instance
- ⊕ All services use the Subscribe to have always updated information



Capabilities: DL system admin perspective

The DL System Administrator creates and maintains a DL

- ❖ selecting the appropriate services,
- ❖ assigning services to hosting nodes,
- ❖ configuring each service,
- ❖ preparing the hosting nodes with the appropriate application framework,
- ❖ monitoring the resulting DL



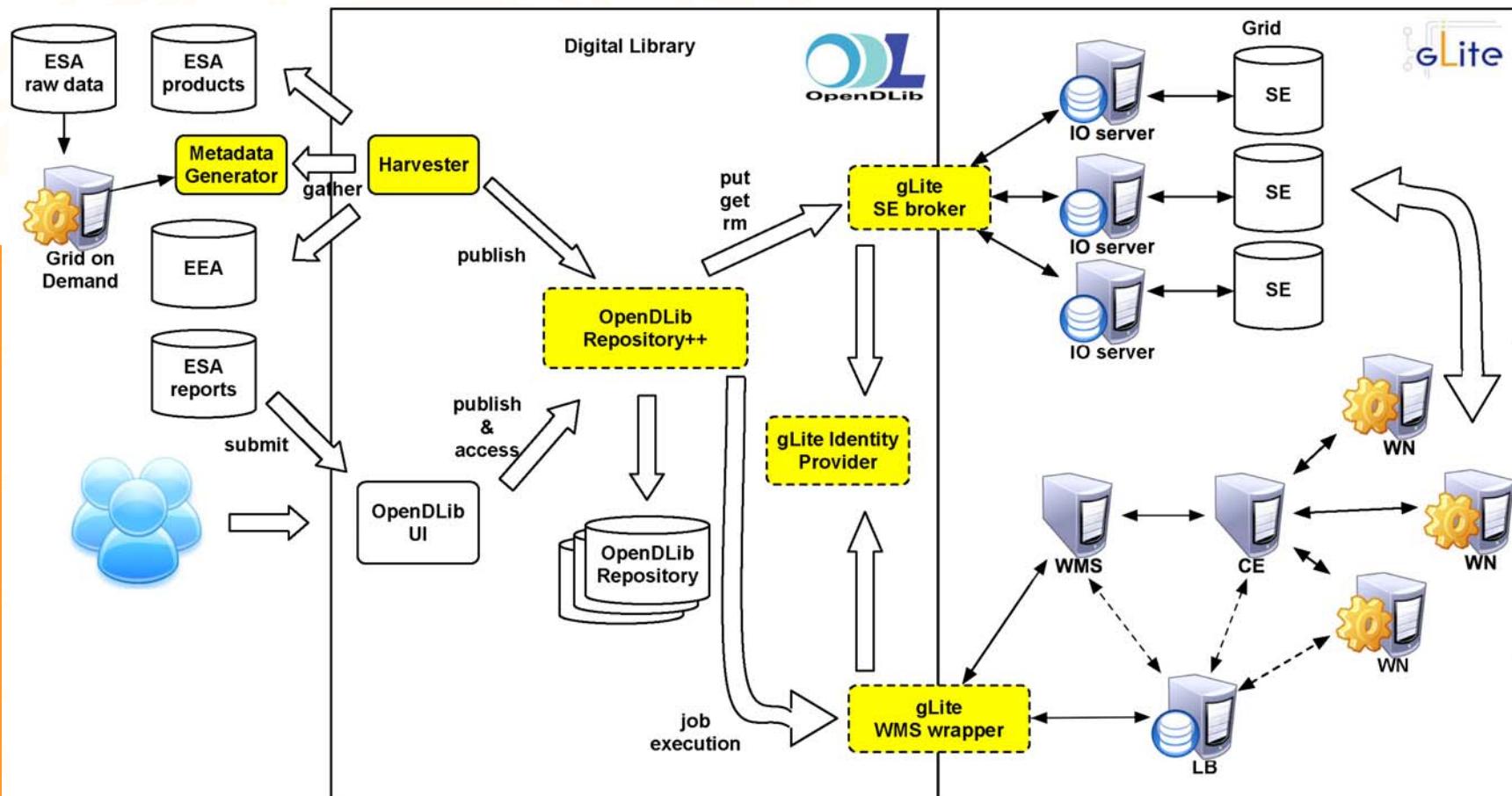
Configuration aspects:

- ❖ Metadata formats (+mappings)
- ❖ Manifestation formats (+transformations)
- ❖ External Manifestation types
- ❖ Document Formats (DoMDL)
- ❖ Archiving, Compression, Encryption
- ❖ Query Language (operators, attributes)
- ❖ Access Rights



Capabilities: DL system admin perspective

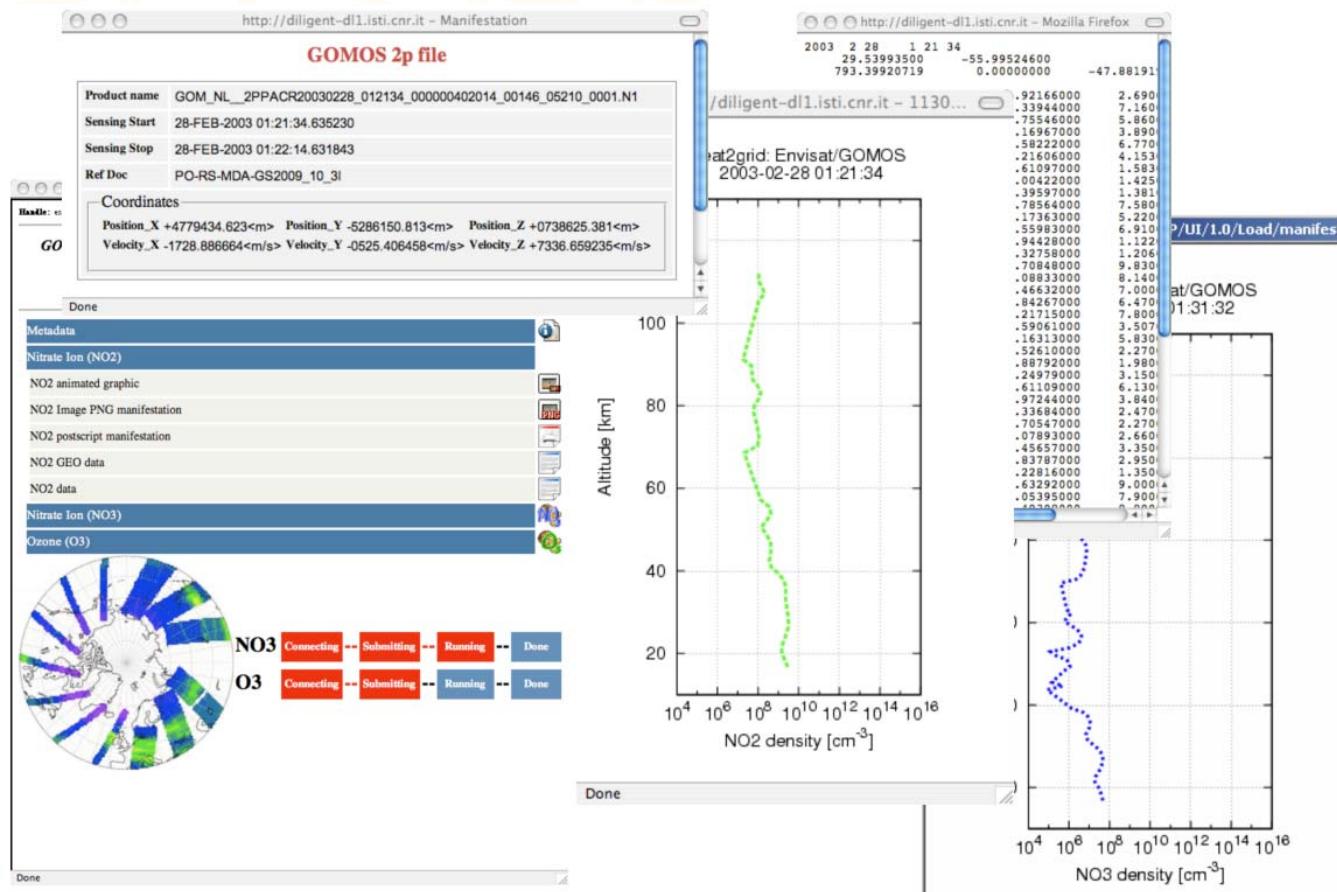
[cont.]



Accessible at <http://diligent-dl1.isti.cnr.it>

Capabilities: DL system admin perspective

[cont.]



DoMDL has been customized to support manifestation types that can be generated on demand using a registered workflow

Capabilities: Librarian and End-user perspective

Librarians and End-users access the DL using customizable user interfaces.

Librarian:

- Manages the DL assigning rights, approves requests, and monitors its status

End-user:

- Author requests for the publication of his work
- Reviewer judges the submitted document
- Generic user searches, browses, and accesses document; personalizes the information space; shares private documents with his own defined group of users

Capabilities: Librarian and End-user perspective

[cont.]

➤ Diligent Training

- ❖ Textual documents harvested by different projects and initiatives (Diligent, EGEE, Condor, IBM, Globus, Oasis, ...)
- ❖ Course generation

➤ Environmental DL

- ❖ Textual documents, satellite products, raw data, reports
- ❖ Report generation

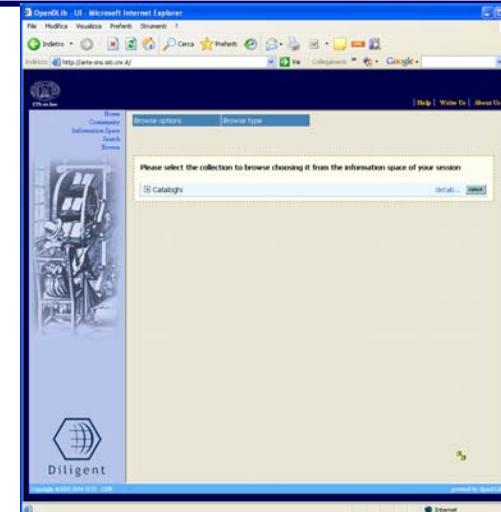
The screenshots illustrate the OpenDLib digital library's interface, showing how it integrates information from various projects like Diligent, EGEE, Condor, IBM, Globus, and Oasis. The top screenshot shows a search results page for 'Diligent TRAINING', with a sidebar for 'Information Space'. The middle screenshot shows a general search results page for 'Diligent', with a sidebar for 'Report Generation'. The bottom screenshot shows a map-based search interface, allowing users to search for data based on geographical coordinates.

Capabilities: Librarian and End-user perspective

[cont.]

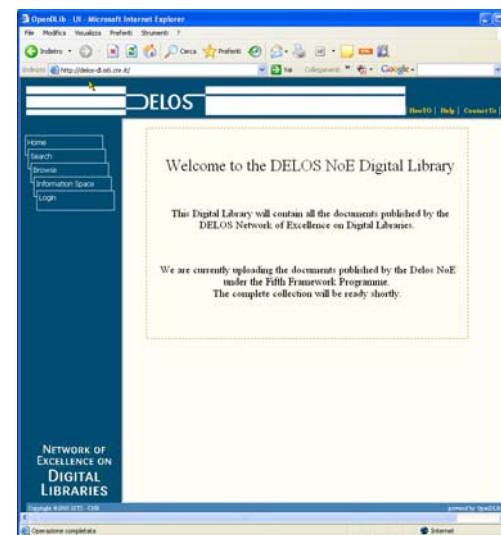
➤ ARTE DL

- ❖ Textual documents and images harvested by different projects and initiatives
- ❖ Multiple metadata formats



➤ Experimental DELOS DL

- ❖ Deliverables, proceedings, articles, presentations, and videos
- ❖ Content management back end of DELOS web site



Capabilities: Librarian and End-user perspective

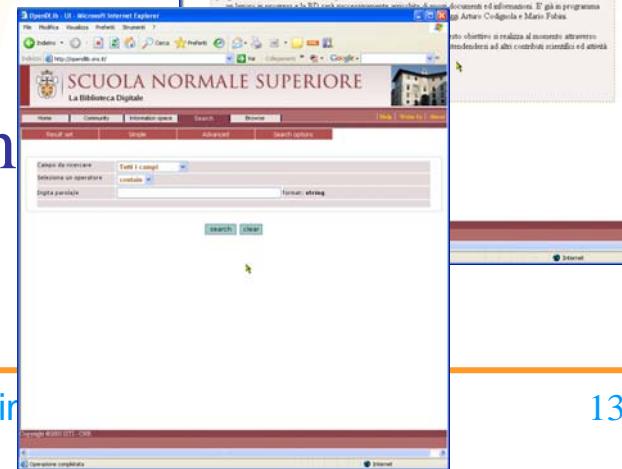
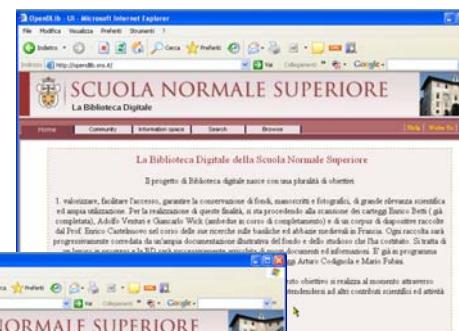
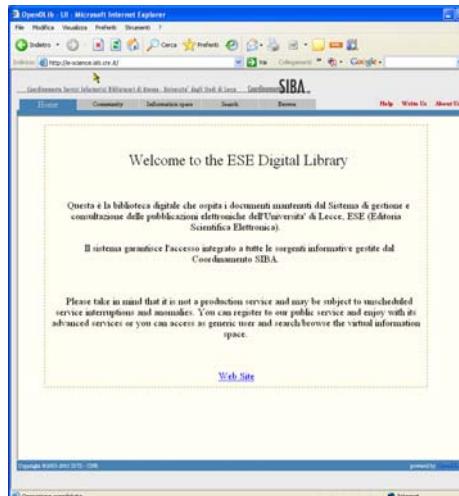
[cont.]

➤ ESE DL

- ❖ Textual documents, proceedings, articles, monographs, CDs, DVDs
- ❖ Editorial Management

➤ Scuola Normale Superiore

- ❖ Ancient correspondences, slides, volumes, thesis
- ❖ Access rights and preservation



Capabilities: Librarian and End-user perspective

[cont.]

➤ eInfrastructures DL

- ❖ Technical reports, presentations, videos, manuals, on-line tutorials
- ❖ User Profile driven

BELIEF Bringing Europe's
eLectronic Infrastructures to
Expanding Frontiers

<http://www.beliefproject.org/>



As part of the BELIEF project a unique eInfrastructure Digital Library will be developed for registered BELIEF Community Members. The BELIEF Digital Library will serve the needs of the BELIEF Community and its eInfrastructure researchers and industrial users that need to keep up to date on existing projects, products and on the latest developments in einfrastructures. This Digital Library will offer many advanced services such as multimedia documentation (e.g. technical reports, presentations, videos, manuals, on-line tutorials) and the very latest details in einfrastructure related projects, initiatives and events. The BELIEF Digital Library users will have multiple virtual views of the einfrastructures documentation organized according to the users specific information needs. Access to the Digital Library and its content will be available to all registered BELIEF community members and you can register immediately as a community member from here. Alternatively you can contact the BELIEF team for further information at info@beliefproject.org

WHAT IS BELIEF? ABOUT GLOBAL INFRASTRUCTURES BELIEF COMMUNITY BELIEF NETWORKING DIGITAL LIBRARY

you are here: home → digital library

log in

Username: _____
Password: _____
 Remember me
[Forgot your password?](#)

last news

BELIEF Project Announced 2005-11-11	EU Supported BELIEF Project Announced 2005-11-11	BELIEF Kick Off meeting 2005-11-11
BELIEF Kick Off meeting 2005-11-11	The BELIEF Kick Off meeting takes place 2005-11-11	BELIEF Kick Off meeting The BELIEF Kick Off meeting takes place 2005-11-11

Digital Library

last modified 2006-01-23 11:18
A common home for eInfrastructure knowledge

Why?

Currently, the main sources of information for the user communities that approach eInfrastructure technologies are the Web sites of projects, initiatives and related events. The rich variety of documentation, like reports, PowerPoint presentations, videos of lectures and tutorials published on the Web sites offers a timely and detailed view of the on-going activities and developments in the field. However, this information, which has grown exponentially in the last years, is difficult to retrieve since it is spread on many different locations and it is organised according to non-homogeneous criteria, such as project work packages and system components, that are meaningful only to the specific user communities that are already aware of the specific semantics associated with these criteria.

Belief will provide a common, accessible home for eInfrastructure information, in its Digital Library. The BELIEF Digital Library will serve the needs of the BELIEF Community and its eInfrastructure researchers and industrial users that need to keep up to date on existing projects, products and on the latest developments in einfrastructures.

Links

- Diligent Training
 - ✚ diligent-training.isti.cnr.it
 - Environmental DL
 - ✚ diligent-dl1.isti.cnr.it
 - ARTE DL
 - ✚ arte-sns.isti.cnr.it
 - Experimental Delos DL
 - ✚ delos-dl.isti.cnr.it
 - eInfrastructures DL
 - ✚ belief02.isti.cnr.it (!)
 - ESE DL
 - ✚ e-science.isti.cnr.it (!)
 - Scuola Normale Superiore di Pisa
 - ✚ opendlib.sns.it
-
- OpenDLib
 - ✚ www.opendlib.com
 - Pasquale Pagano
 - ✚ pasquale.pagano@isti.cnr.it