

Open Access Publishing per la diffusione del sapere scientifico Roma, 9 dicembre 2015 **CNR – Biblioteca Centrale**

Maurizio Lancia





Introduction

E-publishing

It means different **processes**, with respect both of the *content and use* of the created documents, and also of the *aims* of the publication (web content, print documents, multimedia web contents, dynamic web pages, e-books, journals, etc.).

In order to manage properly these processes, strong **organisational** (such as guidelines and policies, rules and bodies to verify/supervise contents) and **technical-technological tools** (document production, content management, workflow management, etc.) are essential.

CNR Press:

the way to develop an integrated system for publishing initiatives

A project hypothesis and a starting point supporting this idea:

the S&TDL infrastructure



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The scenario

The **S&TDL project** is:

- one of the initiatives of the Italian digital agenda for the exploitation of the potential of ICTs in order to favour growth, innovation and competitiveness
- coherent with the Digital Agenda for Europe and inserts itself in the wider framework of the EU 2020 Strategy
- in line with the still ongoing European and National programming (Horizon 2020)

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S&TDL Project

- July 2012: Agreement between CNR and the Department for the digitisation of the Public Administration and for innovation technology of the Presidency of the Council of Ministers, later AgID (MIUR-CNR Memorandum of Understanding)
- **Purpose**: to develop and experiment an integrated system to give access to information on R&S and Cultural Heritage, ensuring at the same time their efficient and transparent management and use



S&TDL Project

A wide range of project domains and achievements:

- catalogues and MetaOPAC
- digitised historical contents
- multifunctional systems for the management of repositories, that are different both in their variety and in their technical and technological structure
- a Semantic Portal
- test and experimentation of methods and tools for the Digital Preservation
- training and development of new professionals in the emerging information and knowledge areas...

S&TDL Project

- The main result: an infrastructure (e-infrastructure) which is
 - flexible
 - coherent with federate models
 - based on open technological and application components in order to supply and manage cooperative services
 - with the purpose to stress the collaborative dimension, the communities and the partnership
- Approach: integrated, focused on multi-level interoperability and on a wide range of open and flexible technical and technological solutions
- For whom: first of all, for the National scientific and academic community, secondly for a wider audience (institutions, companies, and the society as a whole)

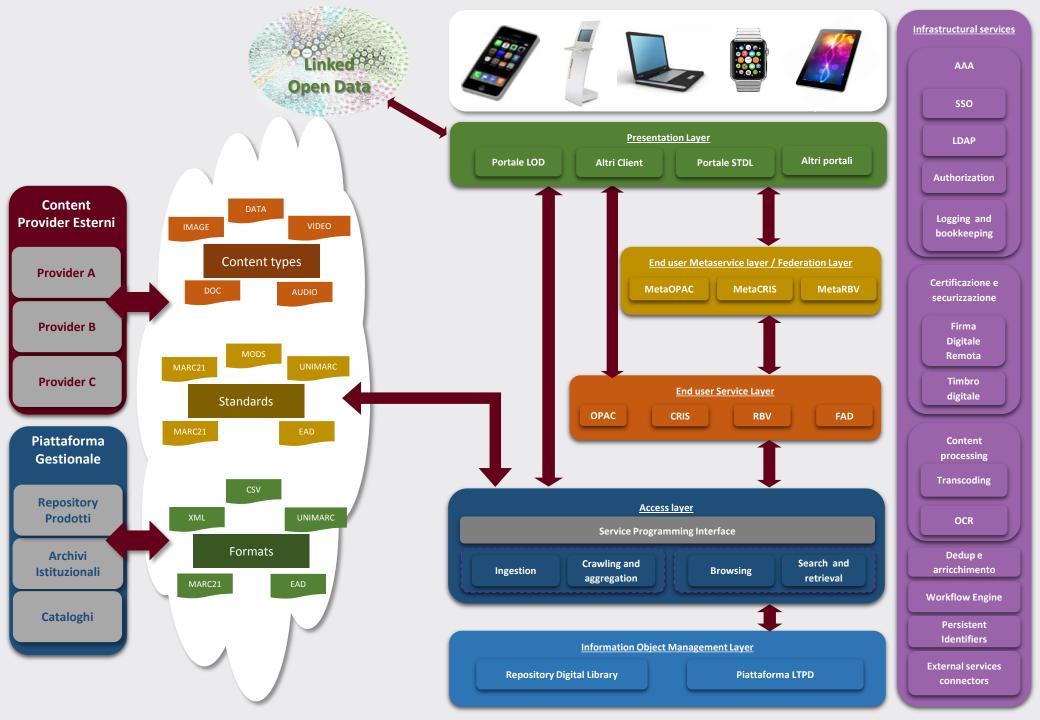
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Partnership

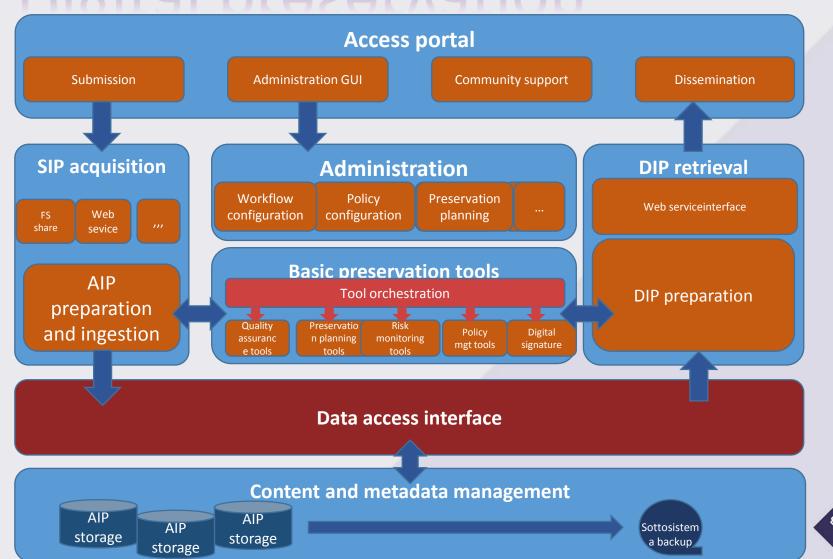


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The architectural model

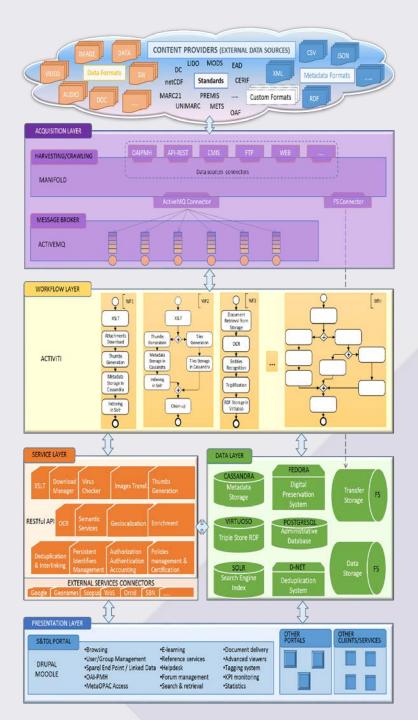


Digital preservation

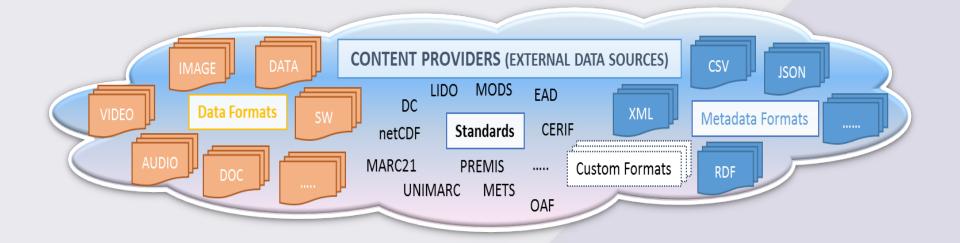


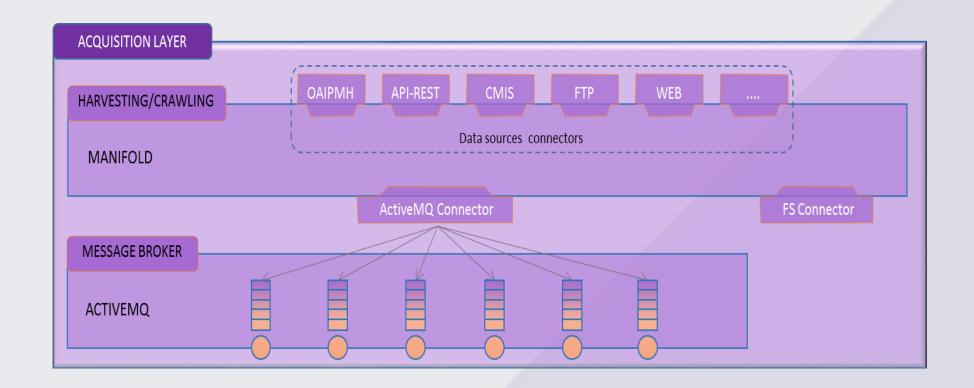
Lechnica architecture

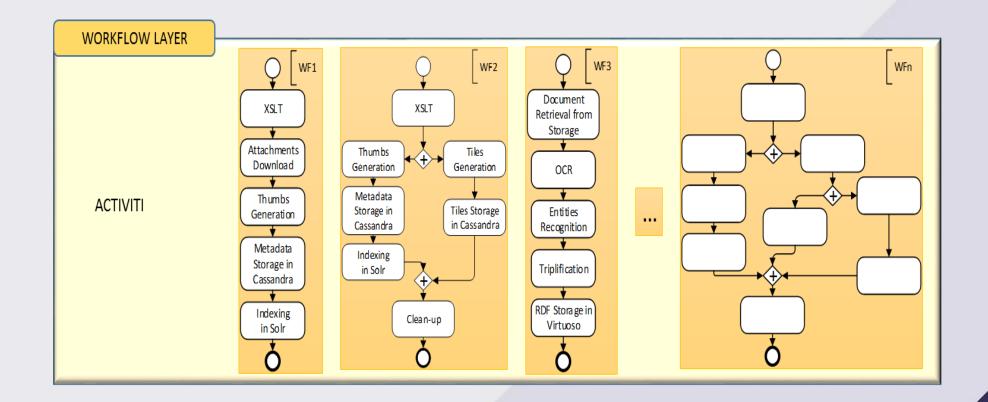


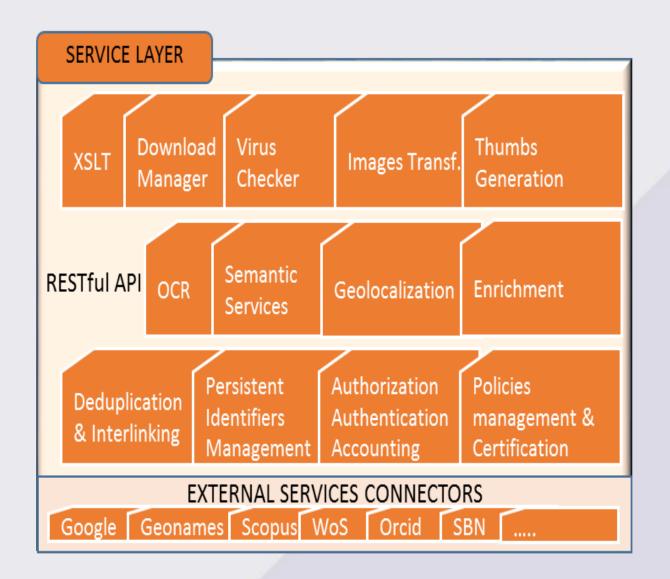




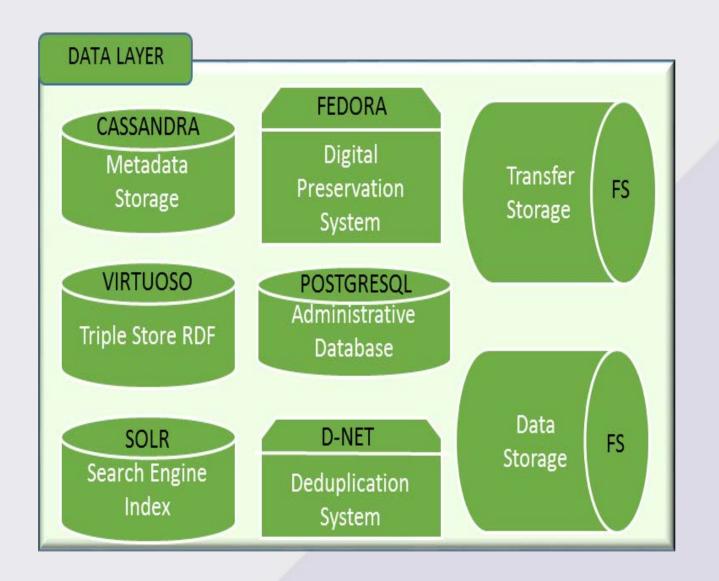




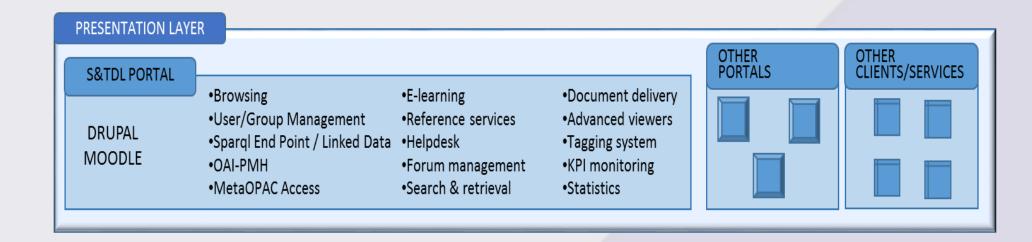






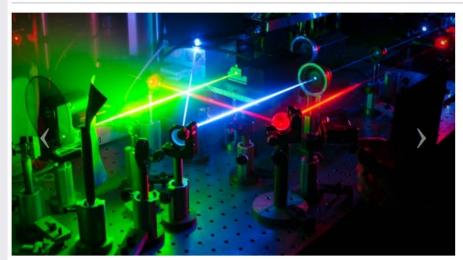


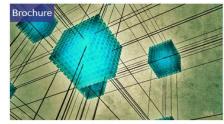




Home page















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Linked Open Data

Analysis of axisymmetric waveguide components by a multi-domain spectral method

∢ Ritorna



Titolo: Analysis of axisymmetric waveguide 😯 components by a multi-domain spectral method 😵

Waveguide (electromagnetism)

In electromagnetics and

communications engineering,

the term waveguide may refer

conveys electromagnetic waves

However, the original and most

common meaning is a hollow

metal pipe used to carry radio

to any linear structure that

between its endpoints.

Tipo: Articolo in rivista

Autori:

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Autori riconosciuti: RENA GIUSEPPE ADDAMO, RICCA

Rivista

Titolo: IEEE transaction
Attiva dal: 1963
Editore: Professional

Electronics Engineers, - Nev

Paese di pubblicazio Lingua: inglese (eng) ISSN: 0018-9480

ISSN: 0018-9480 Titolo chiave: IEEE tr Titolo proprio: IEEE t

Titolo abbreviato: IE waves.

Attendibilità: 0.50727

Numero volume: 63 N. volume della rivista: 1

Fascicolo: 1 Pagina da: 115 Pagina a: 124

Referee: Referee Internazionale Anno di pubblicazione: 2015 DOI: 10.1109/TMTT.2014.2376561 ♂

Indicizzato da: Scopus (Codice: 2-s2.0-84920723947)

Lingua di pubblicazione: inglese

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di Torino, Torino, 10129, Italy; Consiglio aneria dell'Informazione e Delle

R ANTONIO PEVERINI, GIUSEPPE VIRONE,

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bry and Techniques, Institute of Electrical and

id techniques nd techniques.

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Analysis of axisymmetric waveguide components by a multi-domain spectral method

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Tipo: Articolo in rivista

Autori:

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Autori riconosciuti: RENATO ORTA, ALBERTO TIBALDI, OSCAR ANTONIO PE

GIUSEPPE ADDAMO, RICCARDO TASCONE

Rivista

Titolo: IEEE transactions on microwave theory and techniques

Attiva dal: 1963

Editore: Professional Technical Group on Microwave Theory and Techniques, Institute of Electrical and

Electronics Engineers, - New York, N.Y.

Paese di pubblicazione: Stati Uniti d'America (USA)

Lingua: inglese (eng) ISSN: 0018-9480

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Spectral method 2

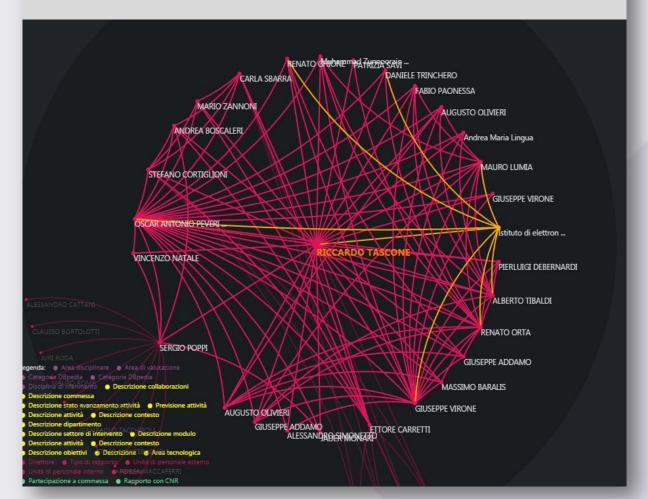
Spectral methods are a class of techniques used in applied mathematics and scientific computing to numerically solve certain differential equations, often involving the use of the Fast Fourier Transform.

Attendibilità: 0.63804

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An example of semantic representantion

Collaboration/activities network





Possible integrations

E-publishing: open issues

It would be necessary to act on different levels:

- Policy and organisation measures (a priority) in order to define: purposes, action and development areas, guidelines, policies, development and sustainability plans, ...
- **Technical** actions so that to specify management and operation procedures: publishing, technical-technological, design... standards; juridical and legal aspects, etc.
- Technological operations in order to build application, tools and services

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Organisational measures

It would be useful to foresee an effective «connection» for all the ongoing epublishing initiatives at CNR. This process could cover the following actions:

- Analysis and monitoring of the publishing initiatives at CNR (data collection and feedback analysis for each user profile)
- Systematic benchmarking in order to guide decisions, based on the comparison among the best National and International initiatives
- Proposal of a coordinated and joint initiative (CNR-Press) inclusive of policies, management and sustainability plans, etc.
- Decision by CNR government
- Optional opinion of the advisory board (eg. General Scientific Council)
- Definition of management procedures
- Organisational actions for each division (institutes and administration services)

Technical-technological measures

On the basis of what has been decided regarding the organisational measures, the following actions are needed:

- Analysis and definition of technical and technological requirements
- Planning and creation of the application software, also starting from available OSS (e.g. OJS ...)
- Test and releases
- Integration with CNR infrastructures (e.g. S&TDL)
- Management



Comments

- High-level institutional commitment
- Complexity of organisational actions
- Strong engagement in order to increase the effectiveness and the synergism of the initiative organisational model (management of cross multi-actor/structure processes)
- Need for a coordination operative task-force
- Less complexity on the technical-technological level: the epublishing component creation would only involve some expert people committed to the specific service



Initiative relevance

This initiative would allow CNR to:

- Adapt to the standards adopted by the main academic and research institutions, both at National and International level
- Answer effectively to the CNR mission to disseminate scientific and technical culture
- Optimise efforts starting from an existing technological infrastructure able to integrate this initiative with other systems and services
- Give value both to the publishing initiative and the S&TDL infrastructure
- Support effectively Open Access growth
- Contribute to the continuous improvement of the publishing initiative through the S&TDL infrastructure development (visibility and redundancy, semantic tools usage, services optimisation, ...)

Thank you for your attention!

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