



# Open data vs open access: the Italian way towards open science

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In loving memory of Anna

# Agenda

- The national context
- The local context
- The informal group on research data
- Open Access at the University of Milan

# Open Access in Italy

Bottom up movement

No endorsement by the Ministry

No true engagement of the Rectors

A small group of librarians and professors made it possible

# 2004 Messina Declaration

- Signed by 70 institutions
- The University of Milan signed the Declaration in 2005

# 2006 Open Access WG

- The Conference of the Rectors of the Italian Universities appoints a WG with the aim to elaborate Guidelines for the institutions
- Guidelines for OA to PHD theses (2008)
- Guidelines for open access Journals (2009)
- Guidelines for Institutional repositories (2009)
- Recommendations for research evaluation (2009)
- Guidelines for oa policies and regulations at institutional level

# 2006 WIKI oa Italy

## OA Italia

### Wiki OA-Italia

#### Ultime novità

- [Risorse sugli open\\_research\\_data](#) (maggio 2017)
- [LEARN Project - Research Data Management Toolkit](#) 4 aprile 2017
- [GdL Dati della ricerca - Modello di Policy per la gestione dei dati della ricerca](#) 29 marzo 2017
- [New roles in Open Science and Data Stewardship](#) Venezia, 25 novembre 2016
- [OpenAIRE: Un aggiornamento sul Progetto Pilota FP7 PostGrant OA Publishing](#) Webinar 22 novembre 2016
- [FAIR data management: best practices and open issues. RDA National Event in Italy](#) Firenze 14-15 novembre 2016
- [Open Access Week 2016 Eventi italiani 24-28 ottobre 2016](#)
- [Bibliografia in lingua italiana](#) (settembre 2016)
- [Dati e cifre sull'Open Access in Italia - 2015](#)

#### Le due vie dell'Open Access

- [Strategie di pubblicazione](#)

#### Riviste Open Access

- [Riviste ad accesso aperto](#)
- [Riviste OA con Impact Factor](#)

#### Archivi aperti

- [Gli archivi aperti](#)
  - [Archivi istituzionali](#)
  - [Archivi disciplinari](#)
- [Elenchi di archivi aperti](#)
- [Come cercare negli archivi aperti](#)

#### Costi e benefici dell'Open Access

#### Open Access in breve

- [Che cos'è l'open access -- video](#)
- [ABC dell'Open Access](#)
- [Vantaggi dell'Open access](#)
- [Miti da sfatare](#)
- [Per aggiornarsi: blog, newsletters, siti web](#)

Documents,  
presentations,  
links on open  
access issues  
(publications  
and data)  
Training/educa  
tion

# 2007 Berlin 5





# 2013 the open access law

- Legge 112/2013
- Not in force
- Not applied
- No one cares about it
- Not issued by the MIUR

# 2014 Open Access (10 years later)



Università degli Studi di Messina  
3-4 novembre 2014

Dichiarazione di Messina 2.0:  
la via italiana all'Accesso Aperto

New roadmap

# 2014 IRIS

All Italian universities adopt a CRIS based on Dspace

All Italian universities at the same time had a tool to make the Italian research visible



It implied:

a change of mind

awareness of the discussion at global level  
skills (copyright, open access, open science, ethics)

We had the technical solution, a big opportunity, but there was a lot of work to do

Be Open - Udine - 27th September 2017

# Key Players

# The Librarians' community



Who pays for the scientific information and is price sensitive and who understands the importance of the access to the scientific information

# The researchers

- A few very engaged researchers working in different Italian institutions

That's all

# Nevertheless



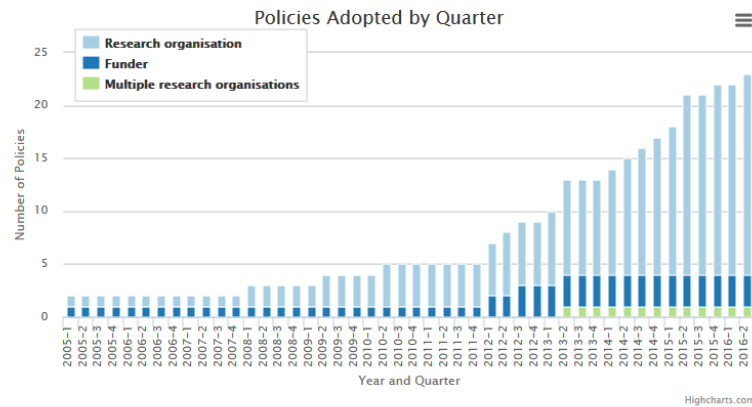
# PHD theses mandates

38 Universities have a policy on OA to PHD theses

- 1.1 Università degli studi di Bergamo
- 1.2 Università degli studi di Bologna
- 1.3 Università Ca' Foscari di Venezia
- 1.4 Università degli studi di Cagliari
- 1.5 Università degli studi di Camerino
- 1.6 Università Campus Bio-Medico di Roma
- 1.7 Università degli studi di Catania
- 1.8 Università Cattolica del Sacro Cuore
- 1.9 Università degli studi di Ferrara
- 1.10 Università degli studi di Firenze
- 1.11 Università degli studi di Foggia
- 1.12 Università dell'Insubria
- 1.13 LUISS - Libera Università Internazionale degli Studi Sociali Guido Carli
- 1.14 Università degli studi di Milano
- 1.15 Università degli studi di Milano-Bicocca
- 1.16 Università degli studi di Modena-Reggio Emilia
- 1.17 Università degli studi del Molise
- 1.18 Università degli studi di Napoli Federico II
- 1.19 Università degli studi di Napoli-Parthenope
- 1.20 Università degli studi di Napoli L'Orientale
- 1.21 Università degli studi di Padova
- 1.22 Università degli studi di Palermo
- 1.23 Università degli studi di Parma
- 1.24 Università degli studi del Piemonte Orientale "Amedeo Avogadro"
- 1.25 Università degli studi di Pisa
- 1.26 Università Politecnica delle Marche
- 1.27 Università degli studi di Roma La Sapienza
- 1.28 Università degli studi di Roma Tor Vergata
- 1.29 Università degli studi Roma Tre
- 1.30 Università degli studi di Salerno
- 1.31 Università degli studi di Sassari
- 1.32 SISSA - Scuola Internazionale Superiore di Studi Avanzati
- 1.33 Università degli studi di Torino
- 1.34 Università degli studi di Trento
- 1.35 Università degli studi di Trieste
- 1.36 Università degli studi della Tuscia
- 1.37 Università degli studi di Udine
- 1.38 Università degli studi di Verona

# OA policy

number of items at this level: 23.



23 Institutions adopted an open access policy

[Conference of Italian Rectors \(CRUI\)](#)

[European University Institute \(EUI\) - Cadmus](#)

[Fondazione Cariplo](#)

[Istituto Superiore di Sanità](#)

[L'IRCES - Istituto di ricerca sulla crescita economica sostenibile](#)

[Libera Università Internazionale degli Studi Sociali Guido Carli](#)

[Politecnico di Milano](#)

[Scuola IMT - Istituzioni, Mercati, Tecnologie - Alti Studi - Lucca](#)

[Scuola Internazionale Superiore di Studi Avanzati di Trieste \(SISSA\)](#)

[Telethon Italy](#)

[Università degli studi di Trieste](#)

[Università di Pisa](#)

[University Federico II Napoli](#)

[University of Bergamo](#)

[University of Padova](#)

# Pleiadi

Portale per la Letteratura scientifica Elettronica Italiana su Archivi aperti e Depositi Istituzionali

## PLEIADI



[Feedback](#) [Informazioni](#) [Come aderire](#)

Lingua: Italiano

Tutti i Campi Q Trova [Avanzata](#)

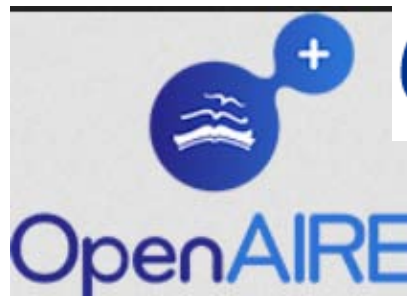
**PLEIADI is contributing data to**

An harvester for institutional and disciplinary repositories



# Indexing

Google Scholar



OpenDOAR



DOAJ  
DIRECTORY OF  
OPEN ACCESS  
JOURNALS



In this context awareness about the importance of RDM was very low

# From the LEARN toolkit

- **Research data is the new currency of the digital age. From sonnets to statistics, and genes to geodata, the amount of material being created and stored is growing exponentially.**
- **For research performing organisations, this deluge of data presents many challenges in areas such as policy and skills development, training, costs and governance.**

# Keywords

- Policy
- Skills development
- Training
- Costs
- Governance

# Needs

Our researchers work in the European Research Area

They need

- Policies
- Guidelines
- Instruments
- Skills





# RDM and the Italian context



# The Italian context

- Lack of policies
- Lack of guidelines
- Lack of instruments
- Lack of awareness of the importance of RDM
- Lack of awareness of the value of data
- No expertise at the level of Ministry. No contact point of reference

# An informal working group

- Politecnico di Milano
- Università Ca'Foscari Venezia
- Università di Milano
- Università di Torino
- Università di Trento

Different skills and different roles:

IT service, Digital library, Research Support Service, Legal service, Research evaluation

# Method

3 WG: main coordinator Paola Gargiulo (OpenAIRE- NOAD).

Group n. 1: deliverable → Policy model, (Università di Milano)

Group n. 2: deliverable → Template DMP, (Università Ca'Foscari Venezia)

Group n. 3: deliverable → E-Infrastructure, (Politecnico di Milano)

- Each member decided which group to belong to
- No meetings in presence, only on-line, mailing list, wiki, materials shared on google drive
- 6 Plenary sessions from April to October 2016

# Organisation

## Background:

- LERU Roadmap for Research Data
  - results of the LEARN project, policies of the University of Edinburgh and of UCL, Austrian group e- infrastructures
  - local interviews on research data management and researchers' needs and habits (data type, size, archiving, long term preservation)

## Timing:

- first draft: July 2016
- second draft: August 2016
- final document: October 2016

## Next steps:

- Internal discussion – Approval by SA (can take a long time)

# Main Issues (according to the LEARN toolkit)

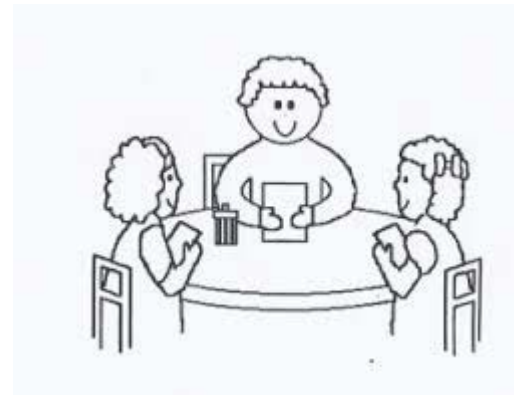
- Introduction (why?)
- A definition of research data (what?)
- Processing of research data (where, how long?)
- Ownership and legal issues
- Responsibilities

# Policy and Guidelines

- Work in progress
- Guidelines are necessary for the implementation of the policy

# Strengths

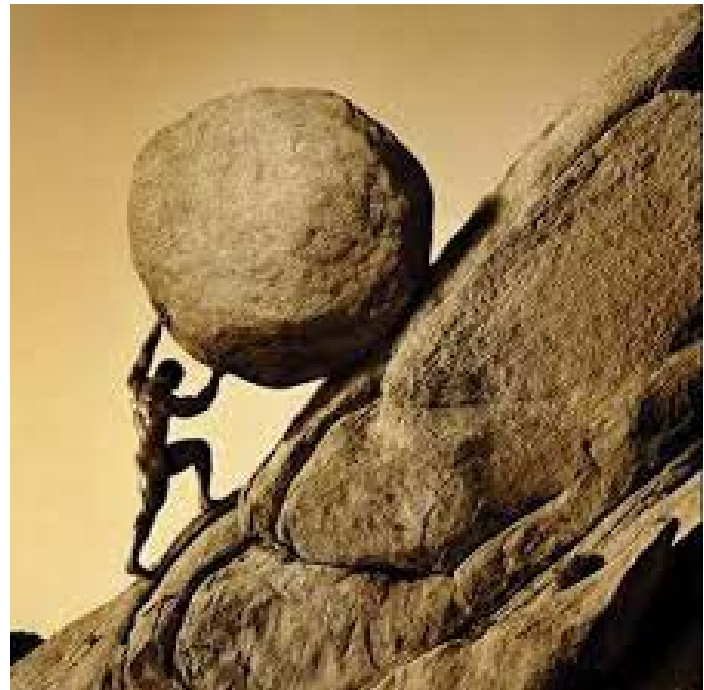
- Bottom up process
- It is easier to work in a small group without restrictions or obligations





# Weakness

- Having worked without endorsement makes the next steps very difficult



# At the University of Milan

- The policy model was discussed by the oa committee
- It was examined by the ethical committee
- It will be presented to the Academic Senate in the next months

# Meanwhile...

Pilot with dataverse (University of Milan,  
University of Trieste)



# Why adopt a Data Management Plan?

**FUNDERS** around the world have introduced

**POLICIES** requiring that their funded researchers make data available to others in a timely and responsible manner, and

**PLAN** their approach for managing data as an integral part of planning their research.

LEARN Toolkit of Best Practice for RDM, april 2017

# Funder and cooperation

Same goal



Achieved through  
cooperation



# DMP checklist

## **Administrative plan details**

Project ID: University logo, Project name, description, acronym, PersistentID, DMP creator, ORCID, Version & date, etc.

## **Dataset Description (useful 4 \$)**

Provenance of data & metadata, type, nature, formats & consistency, requirement for sw & hw, data re-use & integration, new dataset value, audio-visual materials, sw application

## **Standards & Metadata (quality assurance, data cleaning)**

Metadata standard & data documentation, methodologies for data collection generation, data quality & standards, metadata quality (re-use)

## **Data Management, documentation & curation (preservation plan, useful 4 \$)**

Managing, storing & curating data, data preservation strategy & standards (ex: Personal Data Protection Code, Legisl. Decree 30.6.2003 n. 196; Annex B Technical Specifications concerning minimum security measures; European Parliament Directive 2002/58/EC, Data protection and privacy ethical guidelines CE 2009)

## **Data security & confidentiality of potentially disclosive information (useful 4 \$)**

Confidential & sensitive data, data security standards, risks level, ethics & legal compliance, legal permission to obtain and process data, informed consent documents, national security (ex: Data protection and privacy ethical guidelines CE 2009, Data Protection Directive 95/46/EC)

## **Data sharing and access**

Sharing, discoverability, access, exclusive use, restrictions/delays, responsibilities, licences, repository

## **Responsibilities & resources (useful 4 \$)**

Who is responsible for: data capture, metadata creation, quality assurance, data security, archiving & sharing, policy.

Is the project compliant with: the policy of research data, legal and ethical requirements.

Additional resources planned for the project

## **Relevant institutional policies on data sharing/security**

Research Data Policy, OA Repository. Report: where, how, who DMP is deposited, accessible, responsible for preservation

# Glossary

- Data definition
- Metadata quality
- What is DMP (living document: should be updated at least every six months, machine-actionable format)
- Machine-actionable DMPs: FAIR for machine as well as people
- The goal of DMP



# Link

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The costs of data curation

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Data Management costs

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European Science Cloud Initiative

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H2020

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Legal Aspects

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Machine-actionable DMPs

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Metadata standards

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OpenAIRE

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Wiki OA-Italia

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# Where to?

Italian Policy & DMP Checklist:

[http://wikimedia.sp.unipi.it/index.php/OA\\_Italia/Risorse  
sugli open research data#Italy](http://wikimedia.sp.unipi.it/index.php/OA_Italia/Risorse_sugli_open_research_data#Italy)

# Future steps

- ✓ Connecting RDM with research integrity
- ✓ Defining an e-infrastructure for RDM  
(Dataverse pilot)
- ✓ Training programm for staff and researchers
- ✓ Reward system

# The implementation of open access (tools and policies) in a local context: the University of Milan

- IRIS/AIR is the repository of the university of Milan:
- 2009 Policy on open access to PHD theses (link with Dart Europe)
- 2014 Policy on open access to research publications (Immediate deposit-access delayed) – Link with Open AIRE
  - WG on Open Access with delegates of the 32 Departments
  - Link with the LERU law portal (for law publications)
- 2017 link with Pubmed (linkout)
  - Work on research integrity – draft of the RDM policy
  - Pilot on RDM using Dataverse

# The implementation of open access (tools and policies) in a local context: the University of Milan

- Riviste UNIMI is the OJS platform of the univ. of Milan:
- 2008 published the first two journals (now 27)
  - Indexing in DOAJ, SCOPUS, ERIH
  - Board of the editors of the journals(standard, common practices, best practices)
- Project [Open APC](#)
- Participation in the OPERAS consortium

# The implementation of open access (tools and policies) in a local context: the University of Milan

Education:

Courses for phd students (curricular)

Presentations of the policy (to the faculty and in the departments)

Participation to the Open Access weeks

Production of guidelines, videos, tutorials on OA and open access practices