



2º FÓRUM
GESTÃO DE DADOS
DE INVESTIGAÇÃO
31 DE MARÇO | LISBOA



LABORATÓRIO NACIONAL
DE ENGENHARIA CIVIL

O papel dos responsáveis por infraestruturas institucionais no apoio à gestão de dados

O caso do LNEC

LNEC, Joaquim Neto, março de 2017



Problema: Dar cumprimento às diretivas da CE no âmbito de projetos H2020, no que respeita à gestão de dados de investigação

29.3 Open access to research data

[OPTION for actions participating in the open Research Data Pilot: Regarding the digital research data generated in the action ('data'), the beneficiaries must:

- (a) deposit in a research data repository and take measures to make it possible for third parties to access, mine, exploit, reproduce and disseminate — free of charge for any user — the following:*
 - (i) the data, including associated metadata, needed to validate the results presented in scientific publications as soon as possible;*
 - (ii) other data, including associated metadata, as specified and within the deadlines laid down in the data management plan (see Annex I);*
- (b) provide information — via the repository — about tools and instruments at the disposal of the beneficiaries and necessary for validating the results (and — where possible — provide the tools and instruments themselves).*

This does not change the obligation to protect results in Article 27, the confidentiality obligations in Article 36, the security obligations in Article 37 or the obligations to protect personal data in Article 39, all of which still apply.

As an exception, the beneficiaries do not have to ensure open access to specific parts of their research data if the achievement of the action's main objective, as described in Annex I, would be jeopardised by making those specific parts of the research data openly accessible. In this case, the data management plan must contain the reasons for not giving access.]

Apoiar a comunidade científica do LNEC a dar cumprimentos às diretivas da CE no âmbito de projetos H2020, no que respeita à gestão de dados de investigação:

- > Elaboração de Planos de Gestão de dados (DMP – Data Management Plan)
- > Depositar os dados de investigação num repositório de dados de acesso aberto



Como estamos a fazer no LNEC

Plano de gestão de dados



*Recorrer ao **DMPonline** para criar/apoiar na elaboração do plano de gestão de dados.*

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Como estamos a fazer no LNEC

Plano de gestão de dados

Signed in as wadi@lneec.pt

DMP ONLINE

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WADI DMP (Horizon 2020 DMP)

89 questions answered
approx. 40% of available space used

Plan details Initial DMP Detailed DMP Final review DMP Share Export

1. Data summary (1 question, 1 answered)

Provide a summary of the data addressing the following issues:

- State the purpose of the data collection/generation
- Explain the relation to the objectives of the project
- Specify the types and formats of data generated/collected
- Specify if existing data is being re-used (if any)
- Specify the origin of the data
- State the expected size of the data (if known)
- Outline the data utility: to whom will it be useful

B I [List icons] [Link icon] [Grid icon]

The main objective of WADI is to develop an innovative airborne water leak detection surveillance service to provide water utilities with adequate information on leaks in water infrastructure outside urban areas (rural areas) and optimise their related performance in this field. Throughout the project, data will be produced and reused to support the development of research and innovation activities focused on: defining end-user requirements for water leaks surveillance service (WP2), defining system requirements including optical devices coupling and optimisation and their application on aerial platforms (WP3), developing cost-effective data processing techniques, reliable data processing and new interface for end-users (WP4), evaluating WADI's service feasibility using a performance matrix and the environmental and economic impacts (WP7), validating and demonstrating in both French and Portuguese demonstration sites (WP5, WP6), conducting a comprehensive legal and regulatory analysis (WP8), and developing pertinent market study, marketing strategy, and business plan (WP9). Table 1 summarizes the types of data produced / made available in different work packages of WADI project. A more detailed description of data and its use (or re-use), the formats, the standards and metadata, the data availability (open, confidential), the expected resources to store, curate and preserve (size, backup frequency, resources to maintain it after project ends, repository choices for open and private data) is presented in Table 2.

Guidance Share note

- DCC guidance on Existing Data +
- DCC guidance on Data Volumes +
- DCC guidance on Data Format +



Como estamos a fazer no LNEC

Depósito dos dados de investigação em acesso aberto

Onde?

- > Localmente, através da criação de uma infraestrutura / repositório para o efeito?
- > Num repositório nacional (“RCAAP” para dados de investigação)?
- > Em repositórios já disponíveis

- Genérico (zenodo.org) 

- Temático (re3data.org) 



Como estamos a fazer no LNEC

Depósito dos dados de investigação em acesso aberto

Localmente, através da criação de uma infraestrutura / repositório para o efeito, desde que se assegure:

- *Implementação de um sistema de backups*
- *Implementação de um sistema de autenticação , autorização e sobre dados depositados*
- *Implementar um DOI único, universalmente reconhecido, por dataset*
- *Permitir associação de direitos de acesso , licenças etc, de acordo com as normas estabelecidas*

Localmente não: Falta de recursos e meios para implementar em tempo útil



Como estamos a fazer no LNEC

Depósito dos dados de investigação em acesso aberto

Num "RCAAP" para dados de investigação

- > Solução não disponível à data, nem em tempo útil compatível com necessidades existentes
- > Sugestão da FCCN foi:





Como estamos a fazer no LNEC

Depósito dos dados de investigação em acesso aberto

> Optamos pelo  que assegura:

- *backups*
- *um sistema de autenticação , autorização e sobre dados depositados*
- *um DOI único por dataset*
- *associação de direitos de acesso , licenças etc, de acordo com as normas estabelecidas*
- Sem custos associados
- “garantia” CERN



Como estamos a fazer no LNEC

The screenshot shows the Zenodo website interface. At the top, there is a blue header with the Zenodo logo, a search bar containing the text 'bingo', and navigation links for 'Upload' and 'Communities'. Below the header, the main content area displays 'Communities created and curated by users' with a search bar containing 'bingo'. A message indicates 'Showing 0 to 1 out of 1 communities.' Below this, a community card for 'H2020 BINGO Data Repository' is shown. The card includes a 'View' button and the text 'To be completed later' and 'Curated by:'. A detailed view of this community is shown in a modal window on the right, featuring the BINGO logo (a globe with the word BINGO) and the following information: 'H2020 BINGO Data Repository', 'To be completed later', 'Curated by: bingo', 'Curation policy: To be completed later', 'Created: October 12, 2016', and 'Harvesting API: OAI-PMH Interface'.



Como estamos a fazer no LNEC

zenodo Search Upload Communities

Communities created and curated by users

WADI


Showing 0 to 1 out of 1 communities. Sort by -

H2020 WADI Data Repository View

The H2020 project WADI - Water-tightness Airborne Detection Implementation aims at reducing losses in water transmission systems, therefore decreasing the related energy consumption. The project will develop an airborne water leak detection ...

Curated by:

Community



H2020 WADI Data Repository

The H2020 project **WADI - Water-tightness Airborne Detection Implementation** aims at reducing losses in water transmission systems, therefore decreasing the related energy consumption. The project will develop an airborne water leak detection surveillance service to provide water utilities with adequate information on leaks in water infrastructure outside urban areas, thus enabling prompt and cost-effective repairs. WADI targets the recovery of up to 50% of the water lost at lower cost than conventional ground techniques.

Website: <http://www.waditech.eu/>

This project has received funding from the European Union's Horizon 2020 Programme for research, technological development and demonstration under grant agreement No. 689239

Curated by:
wadi

Curation policy:
To be completed later

Created:
February 13, 2017

Harvesting API:
[OAI-PMH Interface](#)

LNEC, Joaquim Neto, março de 2017



Futuro?

- > Necessidade de repositório de dados de investigação interno, que solução:
 - DSpace (<http://dspace.org/>)
 - Invenio (<http://invenio-software.org/>)
 - eprints (<http://www.eprints.org/uk/>)
 - Ckan (<https://ckan.org/>)
 - Outro?

- > Vamos ter "RCAAP" para dados de investigação



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Obrigado!

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LNEC, Joaquim Neto, março de 2017