RDM Readiness
The experience of the LEARN project

7º Fórum de Gestão de Dados de Investigação
18th November 2020

Ignasi Labastida
Universitat de Barcelona

This project has received funding from the European Union’s Horizon 2020 research and innovation programme under grant agreement No 654139.
The project

- EU funded project June 2015-May 2017

- Aimed at delivering a model of RDM policy and a Toolkit to support its implementation based on the LERU Roadmap for Research Data

- http://learn-rdm.eu
The origins: The LERU Roadmap

• A guide for universities and research organisations on how to engage with the potential and tackle the challenges of data-driven research

• Published December 2013

• Available at: https://www.leru.org/publications/leru-roadmap-for-research-data
The origins: The LERU Roadmap

Policy and Leadership
- Identifies how RDM policy development and leadership are undertaken

Advocacy
- Who undertakes advocacy and what are the messages?

Selection, Collection, Curation, Description, Citation, Legal Issues
- Issues around the collection and curation of research data

Research Data Infrastructure
- Where should research data be stored, and by whom?

Costs
- How much does it effective RDM cost?

Roles, Responsibilities, Skills
- What skills are required by which communities?

Recommendations to different stakeholder groups
- Who does what?
RDM Readiness Survey

Policy
Leadership
Roles
Information
Dissemination
Infrastructure
Costs
Legal
Selection of data
Publication and sharing
Training
Revisions
Open Data
RDM Readiness Survey

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Ready to manage research data
On the way
Not yet started

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RDM Readiness Survey

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Results from the Readiness Survey

373 Valid answers from the both versions
42 Countries identified

All data available in Zenodo http://dx.doi.org/10.5281/zenodo.810493

Mainly answers from Europe (3 from Portugal), Latin America and Caribbean
Also from Australia, Canada, New Zealand, India, and United States
Results from the Readiness Survey

**DISSEMINATION**
- My institution has created some materials on the management of research data
- There are some links with information on research data on the library/research office website
- Researchers need to look outside my institution for information on the management of research data

**SUMMARY**
- 1784; 37%
- 1091; 22%
- 1974; 41%

**COST MODEL**
- My institution has established a list of free and paid services based upon an analysis of costs
- My institution offers some services for free and some need to be paid but there is not a public list of paid services
- There has not been any analysis regarding the cost of managing research data at my institution
- 240; 64%
- 88; 9%
- 100; 27%
Key Performance Indicators

Project’s KPIs should help each individual research institution measure how successful they are being in implementing the recommendations of the LERU Research Data Roadmap and the Toolkit being produced by LEARN

KPI aligned with the work in elaborating a policy

KPI about the implementation of a policy
KPI: Elaboration

Existence of a policy
Alignment with the model
Creation of new services, new roles
Dissemination and information
Analysis of costs
Analysis of infrastructure
Procedures for selection and publication
KPI: Implementation

Number of Data Management Plans
Number of Datasets stored, published, shared
Number of Researchers using facilities
Number of Training sessions
Costs monitoring
Updates and reviews
# KPI measurement and rationale

## List of KPIs for preparation

<table>
<thead>
<tr>
<th>Number</th>
<th>KPI</th>
<th>LEARN Toolkit Theme</th>
<th>Measurement</th>
<th>Expected Value</th>
<th>Rationale for measure</th>
</tr>
</thead>
<tbody>
<tr>
<td>P1</td>
<td>Institutional policy</td>
<td>Policy and Leadership</td>
<td>Policy exists</td>
<td>YES</td>
<td>Any research performing institution should have a policy on RDM in place</td>
</tr>
<tr>
<td>P1.1</td>
<td>Alignment with the LEARN RDM Model</td>
<td>Model RDM Policy</td>
<td>Review of items in Policy which are included in the LEARN model</td>
<td>90%</td>
<td>To avoid multiplicity of policy models, LEARN suggests a comparison with the LEARN model</td>
</tr>
<tr>
<td>P2</td>
<td>Steering committee dedicated to RDM</td>
<td>Advocacy, Policy and Leadership</td>
<td>Steering Committee exists</td>
<td>YES</td>
<td>Any research performing institution should have a steering committee or a designated group to lead the institutional policy on RDM</td>
</tr>
<tr>
<td>P3</td>
<td>Services created to work on RDM</td>
<td>Roles, Responsibilities and Skills</td>
<td>Number of new services created</td>
<td>&gt;1</td>
<td>Any research performing institution should have at least a service for data stewardship and to help researchers on RDM tasks and duties</td>
</tr>
<tr>
<td>P4</td>
<td>Staff involved in RDM</td>
<td>Advocacy, Roles, Responsibilities and Skills</td>
<td>FTE staff dedicated to RDM</td>
<td>&gt;2</td>
<td>Any research performing institution should assign part of its staff for data stewardship and to help researchers on RDM tasks and duties</td>
</tr>
<tr>
<td>P5</td>
<td>Job profiles dedicated to RDM</td>
<td>Roles, Responsibilities and Skills</td>
<td>Number of new job profiles created or updated</td>
<td>&gt;1</td>
<td>Any research performing institution should create new job profiles for working on data stewardship and to help researchers on RDM tasks and duties</td>
</tr>
<tr>
<td>P6</td>
<td>Information point on RDM</td>
<td>Advocacy</td>
<td>Information Point exists</td>
<td>YES</td>
<td>Any research performing institution should have at least one information point, physical and virtual, on RDM.</td>
</tr>
<tr>
<td>P7</td>
<td>Training sessions on RDM</td>
<td>Advocacy, Roles, Responsibilities and Skills</td>
<td>Number of sessions developed in a year</td>
<td>&gt;5</td>
<td>Any research performing institution should train its staff, researchers and students on RDM best practices</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>Number</th>
<th>KPI</th>
<th>Measurement</th>
<th>Expected Value</th>
<th>Score</th>
<th>Red/Amber/Green</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>Datasets stored outside the policy-designated infrastructure</td>
<td>Number of datasets stored</td>
<td>&lt; 13</td>
<td></td>
<td></td>
</tr>
<tr>
<td>16.1</td>
<td>Number of datasets shared outside the policy-designated infrastructure</td>
<td>Number of datasets shared outside the policy-designated infrastructure</td>
<td>&lt; 14.2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>Active researchers using policy-designated facilities</td>
<td>Percentage of active researchers using facilities</td>
<td>90%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>Amount of research income dedicated to RDM activities</td>
<td>Percentage of research income dedicated to RDM. The costs should include infrastructure (18.1), staff (18.2), and activities (18.3)</td>
<td>&gt;5%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>Training sessions on RDM</td>
<td>Number of sessions developed in a year</td>
<td>&gt;5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>19.1</td>
<td>Active researchers attending training sessions</td>
<td>Percentage of active researchers attending training sessions in a year</td>
<td>&gt;10%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Queries for support received</td>
<td>Number of queries in a year</td>
<td>&gt;50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Data Management Plans created</td>
<td>Number of plans created</td>
<td>&gt;20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11.1</td>
<td>Data Management Plans published</td>
<td>Number of plans published</td>
<td>90% of 111</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
In 2021 the survey and KPI need a review

The FAIR Guiding Principles for scientific data management and stewardship were published in 2016

The application of the GDPR in 2018

EOSC was launched in 2018

Ten principles for machine-actionable data management plans were published in 2019
THANK YOU!

Ignasi Labastida
ilabastida@ub.edu