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RDM Services at Luxembourg National Data Service

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Abstract. The Luxembourg National Data Service (LNDS) was established on 28 July 2022 by the Luxembourg government and public research institutes. LNDS is a national organisation providing services for value creation from public sector data from different domains. LNDS' main mission is to offer technology and data services, know-how, capabilities, platform, and infrastructure to enable sharing and re-use of data for public and private data partners. LNDS aims to become a key component of Luxembourg's data innovation strategy by (1) supporting research and innovation through a high-quality service offering, (2) contributing to accelerating the development of Luxembourg towards a data economy, (3) enabling the participation of both public research and private actors in the complete value-creating chain of data, (4) enhancing data in the context of common innovation among all actors, and (5) becoming a partner of choice for joint development of the next generation of data products.

Keywords: Data stewardship, Community building, Data service

1. Background of LNDS

LNDS is a brand of the Plateforme Nationale d'Échange de Données (PNED G.I.E), an economic interest group. It is positioned to be the competent body of Luxembourg as defined in the EU Data Governance Act (DGA)¹ to support the secondary use of data from the public sectors.

Part of the LNDS' mission is developing a national research data management (RDM) community and supporting the development of RDM capacity in partner institutes through community-driven initiatives. LNDS will mobilise the national RDM community for the development of national RDM guidelines. Another key goal for the LNDS is the elicitation of professional roles for RDM practitioners. We will provide the first formal definitions for the roles of data stewardship and management to inform national stakeholders in building their RDM support workforce.

2. Service development at LNDS

LNDS is designing and building a service portfolio covering the different aspect of data reuse:

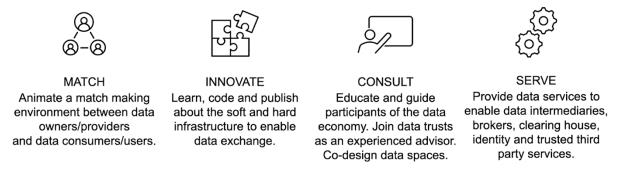


Figure 1. Type of services being developed at the Luxembourg National Data Service.

Through its service, the LNDS also aims to support research data management at research institutes in Luxembourg. The RDM support will cover the life cycle of the research data with a focus on data stewardship, FAIR data, and data sharing.

LNDS' RDM services include Data Management Planning (DMP) support through national tool deployments and templates as well as data management, data stewardship and data protection training. Services for the responsible sharing and re-use of sensitive data such as personal data subject to the GDPR. As part of GDPR support, the services include Data Protection Impact Assessment (DPIA) for prospective data sharing and re-use activities. Implementing controlled access processes for sensitive data, and finally a Trusted Third Party (TTP) service for the primary and secondary pseudonymisation of health and research data.

In addition to the "classical" RDM services, LNDS is also developing services related to other aspects of secondary use of (public sector) data for research and innovation, within the scope of the DGA¹ and the European Health Data Space (EHDS)². This includes data brokerage, secure processing environment, synthetic data, managing data access requests, etc.

LNDS is part of the ELIXIR Luxembourg Node and is represented on the editorial boards of ELIXIR's RDMkit and FAIRCookBook resources. We are also a consortium partner in EU funded projects: European Genomics Data Infrastructure (GDI), leading the Pillar 1/WP2 (long-term sustainability) and WP4 (European operation); Beyond 1 Million Genomes (B1MG), leading WP2 (Ethical, Legal and Social Issues); and the HealthData@EU Pilot (EHDS2-pilot) project.

At the CoRDI 2023 conference, we will introduce the LNDS data management and stewardship services with examples from ongoing partner projects. We will present our first year retrospective of building a national data service for Luxembourg and share experiences and lessons learned.

Data availability statement

The submission is not based on data.

Underlying and related material

Not applicable.

Author contributions

All authors contributed to the conceptualization of the work. WG, CT, PA contributed to the writing – original draft, all authors contributed to the writing – review & editing.

Competing interests

The authors declare that they have no competing interests.

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