

Innovation throughout the Data Journey



European Convention Center Luxembourg





Walking Lunch



Welcome back!





Agenda: Afternoon

13:00	The End-to-end journey – Part 1	13:00-14:00 Workshop: Data Protection Training
14:15	Coffee break	14:00-15:00 Workshop: Data Stewardship Training
14:45	The End-to-end journey – Part 2	
15:50	Coffee break	
16:10	A look into the future	
17:00	Networking drinks	
18:00	End of the Data Summit 2024	





The End-To-End Journey - Part 1













Pinar Alper

Principal Data Steward Luxembourg National Data Service



Research Data Management

Supporting Luxembourg Institute of Science and technology (LIST) towards organisational solutions

 Data Management and Stewardship Support

- Focus on data management planning
- With state-of-the-art tools & templates









Partner presentations

Supporting organisations and researchers in Data Management.





Patrik Hitzelberger

Project Manager Luxembourg Institute of Science and Technology (LIST)

SUPPORTING ORGANISATIONS AND RESEARCHERS IN DATA MANAGEMENT

PATRIK HITZELBERGER QUALITY, DATA AND KNOWLEDGE MANAGEMENT TEAM



EVOLUTION OF RESEARCH DATA MANAGEMENT AT LIST

2003 Berlin Declaration on Open Access

"Big Data"

World

LIST

2018/21 Funding agencies requirements

2020 RDM Task force /project

2023 LIST RDM service

Supported by



Data Stewardship Wizard LIST Datashare LIST

THE ULTIMATE OBJECTIVE

"Whatever" data is based on managed data



LIST RESEARCH DATA MANAGEMENT

Support and tools for Researchers and the Organization

- Researcher support
- Organization Support
- Tools



EXAMPLE 1: DATA STEWARDSHIP WIZARD - LIST

Support Data Management Planning

- Edit DMPs based on intelligent templates
- Provide support throughout the whole Research Data Life Cycle
- Ensure standards and policies, long-term data-asset accessibility and sharing *People leave, data stay*
- Centralize all DMPs in one database







EXAMPLE 2: DATASHARE LIST

Support Data Sharing



- LIST must persist all data in a FAIR manner
- Solution: Internal repository with external references : Datashare LIST



SUMMARY

LIST is moving from unmanaged data to managed FAIR data assets:

- Commitment in the long run
- Individual and organizational focus with tools and policies
- The LUXEMBOURG NATIONAL DATA SERVICE has been a very helpful resource on this path































Danielle Welter

Principal Data Scientist Luxembourg National Data Service



Data cataloguing – the first step to effective data reuse



Secure internal data with governance best practice



Facilitate data discovery through public metadata



Enhance transparency



Foster innovation



Data Cataloguing

Supporting the "Administration de l'Environnement"'s internal data inventorying for downstream metadata publication

Data Cataloguing

Data inventory & cataloguing



guidance

Metadata model & process

development



Data Cataloguing

Leveraging existing data cataloguing efforts at the "Direction de la Santé" to facilitate metadata publication

Data Cataloguing

Curating internal metadata to



match standards for public data

catalogues





Partner presentations

Unlocking insights: Crafting our administration's data catalogue







Isabelle Naegelen

Responsable Système d'agréments & Gouvernance de données Administration de l'Environnement (AEV)

Introduction

- Goal
 - Improve data management for datasets at the Environment Agency, enabling structured access
- Scope
 - Building on 2023 pilot project: refining dataset definitions, creating workflows, and expanding metadata capture tool





Core Data Source Analysis

Initial 66 narrowed to 27 relevant data sources for cataloguing

What is the primary purpose of the data source?

Is the data primary data or derived from other data sources?

Are there any defined vocabulary lists?

Does the data have links to other data sources?

How many users does the data source have?

Does the data source constitute a "single dataset" or does it contain multiple datasets?



Workflow Design

- Adapted from AEV's financial approval procedures
- Approval flow stages
 - 1. Initial metadata entry by dataset expert
 - 2. Review and validation by group/department manager
 - 3. Leadership team review for publishing
 - 4. Publication through appropriate channels
- Broad departmental validation with minor adjustments based on feedback





Metadata Model Review

- Metadata model enhancements
 - Additional fields for areas of competence, data archiving details, and data usage duration

Personal Data Protection	
/ersion of this dataset	
This field is optional.	
Duration of administrative utility (in years)	
Duration of administrative utility (in years) This field is optional.	
Duration of administrative utility (in years) This field is optional. 10	
Duration of administrative utility (in years) This field is optional. 10 Final Disposition	
Duration of administrative utility (in years) This field is optional. 10 Final Disposition This field is optional.	



Dataset Workshops



- Purpose
 - In-depth workshops to refine dataset inventory, engage departments
- Structure
 - **9 workshops** covering dataset context, data processing, and feedback on approval flows
- Outcome
 - Successful engagement, leading to comprehensive inventory of 200+ datasets & subdatasets with standardised language and vocabulary



Metadata Capture System

- Expansion of the AEV-DCA pilot metadata capture system
 - Integrated OpenID connect (OIDC) for secure authentication
 - Activity logs for easy monitoring and reviewing of changes
 - Multiple dataset types
 - Rights statements at the distribution level
 - Grouping/nesting of keywords
 - Roles and status levels









Conclusion & Outlook

• Built a comprehensive data inventory, defined metadata approval procedures, enhanced metadata model

- Next steps
 - Implementation of metadata capture system, and procedures







Partner presentations

From Data Chaos to Clarity: Implementing a Data Catalogue Strategy






José Andrés Garcia Head of Data & Analytics / Service IT Pôle support à l'innovation, Luxembourg Health Directorate



Meriem Duhamel Data Engineer / Service IT Pôle support à l'innovation, Luxembourg Health Directorate

Initial situation



Direction de la santé

Context:

>In 2021, the datateam at DiSa was created.

> Initial situation :



- Many data sources and formats
- Tooling disagrement
- Low data quality, low trust
- Siloed data management, multi-criteria
- Data untraceable
- Guarantee data protection, legislation, compliance, standards....

Challenges



Direction de la santé



Data Governance



Raising Awareness & Building a Data-Driven Culture



Choose a data catalog solution



Technical complexity (data security, schema access ..)



Establish exhaustive contact with business users, in order to:

Discover existing data sources within the departments Identify data owners and stewards

... and, in general, understand the what, why, and how of the data.

Approach



Direction de la santé



- Data Strategy Set-up
- Collaboration to carry out the first data governance policy



- Define the scope of the data catalog
- Populate Data Glossary/Dictionary/Catalog
- Automatize the process



- Unlock the Power of Data Lineage
- Address Data Quality Issues
- Promote a data-driven culture



Benefits



Direction de la santé



Good communication with business for the follow-up



- Clear view of data accountability
- Working towards better data quality
- RCA & Impact analysis of data actions



• Metadata sharing with LNDS , IGSS, ObSanté...

DataCatalog



LE GOUVERNEMENT DU GRAND-DUCHÉ DE LUXEMBOURG Ministère de la Santé et de la Sécurité sociale

Direction de la santé

DATALIB Direction de la same		Q, Search
*		
Auto Databoords Destaboords Destaboords Demains Domains Domains Demain	Custom Fields	^
	Data owner	Yaiza Rivero
	Retention	10 ans
	Origin	European Commission
	Data steward	Pedro Marques
	Description	Dans le cadre de la loi modifiée du 11 août 2006 relative à la lutte antitabac, les fabricants ou les importateurs, qui désirent commercialiser des produits du tabac ou des produits de la cigarette électronique au Luxembourg sont tenus de déclarer à la Direction de la santé la liste des ingrédients et de leurs quantités qui les composent, par marque et par type. Show more
	Data quality scale	3-good
	Applicable Legisl	Lo du 11 août 2006 1. relative à la luite antitabac; 2. modifient lui loi modifiée du 24 décembre 1985 fixant le statut général des fonctionnaires de l'Etat; 3. modifiant lui loi modifiée du 24 décembre 1985 fixant le statut général des fonctionnaires communaux; 4. modifiant lui loi modifiée du 24 décembre 1989 portant restriction de la publicité en faveru du tabac et de ses produits, interdiction de fumer dans certains lieux et interdiction de la mise sur le marché des tabacs à usage oral. Loi du 13 juin 2017 transposant la directive 2014/d0/UE du Parlement européen et du Conseil du 3 avri 2014 relative au rapprochement des dispositions législatives, réglementaires et administratives des États membres en matère de fabrication, de présentation et de vente des produits du tabac et des produits connexes; abrogeant la directive 2001/37/CE; modifiant la loi modifiée du 11 août 2006 relative à la luite antitabac. Sitow iess
	Contact email	tabac-loi@ms.etat.lu
	Contact name	Tobacco control
	Start date	13 juin 2017
	Access rights	public
	Language	ENG
	Update frequency	Monthly
	Data protection t	commercial confidentiality
	Dataset type	Databases

DATALIB Direction de la santé

Still a long journey



Direction de la santé



Keep up with infrastructure



Data security management



Historical data management



Data quality planning and trust



Data LifeCycle management



















Pinar Alper

Principal Data Steward Luxembourg National Data Service











Obtaining Data Access

Supporting LISER in the XBorder Project

• Access Request Optimisation

- Innovative solution to link data from multiple countries
- Develop input for
 - Access request form
 - Data protection concept







Partner presentations

Challenges in Requesting Data Access





Andrea Albanese

Research Scientist, Labour Market Luxembourg Institute of Socio-Economic Research (LISER)



Data Access: Navigating the Complexities Andrea ALBANESE

Research Scientist Labour Market Department Luxembourg Institute of Socio-Economic Research 11 December 2024

Data Summit 2024, ECCL Luxembourg



A unique opportunity to study **international labor mobility**



Luxembourg is the **1st destination** in EU for cross-border workers



The cross-border project





Foreseen process – Where are we?

ST Fin fo	TEP 1 nd matching pseudonyms r the population of interest
1.	IGSS == and IAB == send encrypted pseudonyms to LNDS
2.	LNDS matches encrypted pseudonyms by proximity
3.	LNDS provides IGSS 🧮 and IAB 💻 a linkage key for connecting the data

STEP 2

Analyse pseudonymised data In a secure processing environment

- IGSS and IAB create final datasets and send to Secure Processing Environment (SPE)
- 5. LISER analyses data in Secure Processing Environment (SPE)



Foreseen process – Where are we?







- 1. IGSS and IAB pseudonyms to LN
- 2. LNDS matches end pseudonyms by pr
- 3. LNDS informs IGSS of which subset to data



Challenges in obtaining data access

• At LISER, form filling is always a **collective endeavour**



- Researchers & data office collect inputs from the legal experts, the IT and the DPO
- Form sign-off is by the organizational signing official (CEO)

• Full compliance with provider requirements is key:



- IT infrastructure
- login security
- safe-rooms / sharing offices
- screen filters, etc



Trade-off: preserving anonymity vs project feasibility

 Access requests can be a very time-consuming exercise

 Finding the right compromise between privacy and usefulness of data is a tricky balancing act





Trade-off: preserving anonymity vs project feasibility

- Obtaining access takes months, maybe even year(s)
 - Lengthy processing of the application and data preparation
 - May require several iterations between the different stakeholders involved
- Data provider requests justification to ensure anonymity of individuals
 - Some variables (e.g. health information) are more sensitive than others
 - Crossing all the variables should not lead to too small cells: variables often aggregated
- The anonymization process may enter in conflict with the research methods used for causal evaluation in observational studies where details are needed
 - E.g. many policies rely on thresholds fixed by the policymaker to define individual eligibility to the policy
 - e.g. being born after an exact date, having an income below an exact threshold, living in a certain neighbourhood etc...
 - Methods for causal inference rely on these details to implement credible analysis e.g. Regression Discontinuity Design



What goes into an access application form

ACCESS APPLICATION FORM

- Institutional contacts
- Project proposal: objectives and methods
- Information on prospective data users
- Data access expiry date
- Description of (micro) data requested
- \circ Sample size and design
- \circ Variables requested and justifications
- \circ Aggregation for anonymisation and new variable creation
- \circ Addition of extra variables provided by the researchers
- \circ Desired delivery times and planned updates

What goes into an access application form

- Data protection compliance
 - Data storage: technical and organizational data protection measures
 - Data privacy impact assessment (where necessary)
- Data access can occur in various ways, so data protection measures differ
 - Often rely on a secure processing environment
 - Data access for end-user:
 - A safe room in the institute with regulated access
 - If not, often extra security measures e.g. screen filters, only certain IP
 - More sensitive data: access only at the data provider offices (which can be abroad)



What can LNDS do?

- Navigate the process, fulfill application requirements
- Improve project proposals
 - Anonymity vs utility trade off
 - Innovative solutions to complex cases
 - Stepping in as partner with secure environment



- Navigate the legal and data protection requirements
- Help partners "pilot" projects of complex cases that can be re-usable







Thank you very much

Andrea.Albanese@liser.lu

Luxembourg Institute of Socio-Economic Research





Basheer Kalash

Senior Data Scientist Luxembourg National Data Service



Synthetic Census Data

Improve accessibility to official statistics

• Synthetic Data Factory

- Assessed methods and tools used by national statistical offices
- Recommended a method and tool
- Currently, implementing on STATEC 2021 census data









Partner presentations

Synthetic Data: Accelerating Innovation While Ensuring Privacy





Claude Lamboray

Responsable Méthodologie STATEC



Synthetic Data: Accelerating Innovation While Ensuring Privacy

Data Summit Luxembourg

11.12.2024

Claude Lamboray

STATEC

Objective

- STATEC produces and disseminates official statistics
- STATEC guarantees the non-disclosure of confidential data
 - Data are published in an aggregated form
 - Access to microdata for scientific purposes within STATEC premises
- Can we enhance user access to more granular data while preserving privacy?



Synthetic data for official statistics

- Synthetic data:
 - mimic the properties of the initial data set
 - while preserving privacy





Synthetic data for official statistics

- Use cases:
 - 🕿 Releasing synthetic microdata to the public
 - Image: Testing analysis
 - 📃 Education
 - Testing technology

Census data

STATEC





The approach

- 1. Analysis of the existing methodologies and tools
 - Full Conditional Specification (FCS) approaches
 - Existing tools (R package synthpop)
- 2. Application on STATEC census data


Outlook

- Finalise the analysis on the real census data
- Assess the utility and privacy of the obtained synthetic data
- Draft a final report describing the approach and the results







Hadiza Mahaman

Data Scientist Luxembourg National Data Service





Partner presentations

Improving Mobility through improving Data Quality



Optimizing Data Quality

Effective Transport Management

 Data Quality and Curation Service Implementation of scalable methodologies for efficient NeTEx data processing.



• Monitoring of datasets to ensure consistent data quality over time.





Gil Georges

Program Project manager Ministry of Mobility and Public Works (MMTP)





Partner presentations

Understanding Weather - Accelerate access to high quality Meteo Data







Bert Verdonck CEO Luxembourg National Data Service



Dr. Grégory Nain Co-founder, Head of Operations DataThings S.A



Transform data for standardised, fast and efficient analysis

Proof of concept: feedback requested

- Data Collection, Enrichment & Merging
- Data Quality & Curation
- GreyCat platform from:



- Prototype a generic Luxembourg Meteo Mesh API
- Ensure infrastructure is efficient to sustain
 - Low to no code
 - Low infrastructure costs

Luxembourg meteo map

- Weather stations: 50 public stations
- Sensors: up to 28 values per station
- Pace: up to 12 values/hour (5 min.)
- History: 5 years
- Large variation in .csv formats
- 50 stations x 5 years x 5 minutes = 26M records/measurement
- → Interpolated map (5 closest neighbours)
- \rightarrow Uniform API for consistent access





Demo ...



Relational DB approach

SQL Query Specifies what data to extract





Comparison in 5 years from now (+5 years of data)

Relational DB approach

41 seconds (+21s) 256Gb RAM (+128Gb)

<u>TOTAL</u> Execution 1min11s (+21s) Transfer 120Mb

Infrastructure 1 x 1150€/month (+200€) 1 x 550€/month => 20.400€/year (+2400€) GreyCat approach

24 milliseconds (+4ms) 8Gb RAM

TOTAL

Execution 90 milliseconds (+4ms) Transfer 11Kb

Infrastructure 1 x 82€/month => 984€/year



Refactoring of Luxembourg meteo data

- GreyCat analytics: directly hosted with the data
- Removed need for query execution and data extraction
- Infrastructure sized to execution time, not to the data size
- End-to-end frugality leads to substantial cost savings
- Next step: collect feedback and identify potential users
- Next step: enlarge scope to include restricted data





Coffee Break





The End-To-End Journey – Part 2



























LNDS Presents

Unveiling New Opportunities for Enabling Secondary use of data – Identifier-Management & Pseudonymisation (IPMS)







Alemayehu Taye Senior Data Scientist Luxembourg National Data Service



Xavier Adam Principal Data Scientist Luxembourg National Data Service



Clement GORLT Lead Cybersecurity INCERT







IPMS - In details • Getting a token S



IPMS - In details • Getting a token

What's in a Project - Specific Token 🥄 ?

- Project ID
- Pseudonymisation Configuration
 - Method (Reversible vs Non-reversible)
 - Treatment (Always the same or Always different)
 - Output format (Alphanumeric, Numeric, Alphabet)

Segregated roles - INCERT:

1. **INCERT** will never know who the request is for.





FIPMS - In details • Request Pseudonyms R



F IPMS - In details • Scope

IPMS - Scope

- Identifiers/Pseudonyms are never stored. Only the encryption key is kept if requested in the reversibility policy
- Data holders can have as many projects/tokens as needed!
- At the request of Data Holder A, a token with the same project ID could be generated for Data Holder B to allow **collaboration**.

Sends Project Specific Pseudonyms 🖡





LNDS Presents

Protecting the analysis of confidential data – the challenge, a concept and a solution







Todor Kondic Senior Data Engineer Luxembourg National Data Service



Karim Chaouch Senior DevOps Engineer Luxembourg National Data Service



Secure Processing Environment (SPE)

Protecting the analysis of confidential data – the challenge, a concept and a solution



How to enable modern analysis while protecting data confidentiality?

- Big data
- Flexible compute resources
- Diverse software needs

- Health records
- Trade secrets
- ...

... can't do it on a laptop

... a burden for IT departments

Guiding Principles







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Learn and discover together with our partners

Doheem ...

Centre des technologies de l'information de l'État ... and in EU





European Network of Trusted Research Environments

Luxembourg Microdata Platform on Labour and Social Protection Demo: secure data upload







≜ Upload	↓ Download	Decrypt
S3 Endpoint		
_ Bucket Name		
datasummit		
Access Key		
573a3c15c4ea20bbf67d		
Secret Key		
		V
Archive Name (e.g., my_archive)		
uatasummit		
Encryption Key		0
	🟦 Select Files	
Selected Files (2):		
data_processing.r		3.1 KB
data.csv		471.5 KB
	Upload to S3	

Upload completed successfully!


Short KREATE

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Do I know which data i need?

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Kerstin Neininger

Senior Data Scientist Luxembourg National Data Service



The last 5%: Identifying connectivity gaps in Luxembourg

Bring high-speed internet to 100% of buildings

LNDS Services

- Data Enrichment
- Data Analysis and Visualisation











Partner presentations

A data-driven approach to tackle the missing 5% of ultra-high-speed broadband in Luxembourg





Julien Larios

CEO MyConnectivity



A data-driven approach for the missing 5% of ultra-high-speed broadband in Luxembourg

LNDS Data Summit 2024



The missing 5%



How to identify? How to qualify? How to prioritize?

Challenges & process of the project

- Challenges :
 - Accessing certain datasets
 - Combining several datasets, such as :
 - 5G coverage speeds, Address cadaster, ILR's inventory
- Process :
 - 7 different LNDS services supported the end-to-end process
 - Stakeholders involvment along the entire project



Impact



Who are we?

- a neutral team in Luxembourg
- with a mission to
- accelerate connectivity topics.







100% of Luxembourg connected to veryhigh-capacity networks.

MyConnectivity in action



THANK YOU!

https://myco.lu/

Julien Larios

CEO

Julien.Larios@myconnectivity.lu

MyConnectivity G.I.E.

9, Rue du Laboratoire, L-1911 Luxembourg







































Data Sharing initiatives in the Luxembourg ecosystem





Luxembourg launched Dataspace4Health:

a groundbreaking open ecosystem designed to revolutionize secure and compliant health data exchange











Inspiration | Healthcare Industry Partnership | Luxembourg

Luxembourg launched Dataspace4Health: a groundbreaking open ecosystem designed to revolutionize secure and compliant health data exchange

The need

The project is motivated by the need for a new approach to health data sharing that respects the GDPR and the patients' rights.

Currently health data is often siloed, fragmented and underutilized, which limits the potential for innovation and research.

Solution

The project explores how to use Gaia-X as a European framework for data spaces that ensures data protection, security and interoperability.

This initiative aims to address both business and patient needs by ensuring compliance with regulations, unlocking the value of health data through responsible monetization, and exploring the potential of data and AI to develop new treatment options.

Outcomes

"

ОNTTDATA

- The built ecosystem is use-case driven and has been validated through initial use cases in diabetes and oncology, paving the way for future applications in other healthcare sectors.
- Enhanced patient care includes improved diagnoses and treatments, better understanding of diseases, and effective preventive measures.
- A decision support system based on AI that can prevent diabetes complications might be a key step in the treatment of Diabetes. In one use-case, that reliable decision support system uses thousands of anonymised patient records linked to a Digital Twin of patients from LIH to provide personalised treatment.
- It is a Gaia-X Lighthouse candidate in healthcare for Europe, setting the standard for secure and compliant health data exchange across the continent.







This visionary project paves the way for secure and compliant health data exchange,









Partner presentations

The End-to-End Journey concludes

GDI: From Data to Discovery: Empowering Clinical Insights





Bruno Rodrigues

PhD, Responsable du Service Statistiques et du Service Stratégie data Ministère de la Recherche et de l'Enseignement supérieur (MESR)



A genome is the complete set of an organism's genetic material.





Understand the genome can lead to better personalized treatments





Massive data, AI and high performance computing are needed





Especially true for rare diseases: European collaboration is vital!



source: https://eu-rd-platform.jrc.ec.europa.eu/_en

1+ Million Genome initiative (1+MG)



LE GOUVERNEMENT DU GRAND-DUCHÉ DE LUXEMBOURG

European governmental initiative to give cross-border access to genomic and health data for personalised medicine



- Access to genomic and health data in a national secure processing environment
 - To support clinical decision making
 - To research for better prevention, diagnosis and treatment
 - To support policy making for personalised medicine



health 2018 2026 2020 2022 2024 Scale-up & Sustainability European Commission B 1MG European arizon 2020 **Genomic Data** European Union funding Luxembourg is a for Research & Innocation Infrastructure signatory and has been invited to lead Population Genomics the working group Luxembourg was Genome of Europe responsible for on "Ethical, Legal, and Social Issues" the ethical and Luxembourg leads Luxembourg leads the ELSI work and legal aspects of (ELSI). several important the project. contributes data. functions.

Cross-border access to genomic data, implementation of genomics-based

Genomic Data Infrastructure



LE GOUVERNEMENT DU GRAND-DUCHÉ DE LUXEMBOURG

- Project started in November 2022 (end: October 2026)
- Objectives:
 - Deploy a federated data infrastructure for the secondary use of genomic and clinical data across Europe
 - Establish a sustainable data governance policy and coordination mechanism
 - Contribute to improving the interoperability of genomic and clinical data
- Luxembourg:
 - Leads the sustainability pillar, aiming to create a durable legal framework and financial model.
 - Leads the European Operations work package and develops the user portal

1+MG – realising the vision



LE GOUVERNEMENT DU GRAND-DUCHÉ DE LUXEMBOURG

- Build a trusted and trustworthy data governance and provide for the necessary legal framework
- Gain patients and citizens' buy-in for a co-creation to enable better healthcare in Luxembourg
- Build the technical implementation from end-to-end



Entities involved in the project for

national implementation



LE GOUVERNEMENT DU GRAND-DUCHÉ DE LUXEMBOURG



LE GOUVERNEMENT DU GRAND-DUCHÉ DE LUXEMBOURG Ministère de la Santé et de la Sécurité sociale



LE GOUVERNEMENT DU GRAND-DUCHÉ DE LUXEMBOURG Ministère de la Recherche et de l'Enseignement supérieur





LUXEMBOURG INSTITUTE OF HEALTH







Pivotal moment in the project

Creation of the a legal entity and its headquarters of the infrastructure as in a Member State (Luxembourg is currently the designated host).





Pivotal moment in the project

Creation of the legal headquarters of the infrastructure likely as an EDIC hosted in a Member State.

EDIC: European Digital Infrastructure Consortium (EDIC) is an instrument made available to Member States under the Digital Decade Policy Programme 2030 to speed up and simplify the setup and implementation of multi-country projects. EDICs will enable the achievement of the Digital Decade general objectives and targets.

Genome EDIC



LE GOUVERNEMENT DU GRAND-DUCHÉ DE LUXEMBOURG

- A new entity operationalising the genomic data infrastructure of the Genomic Data Infrastructure project.
- It will promote the secondary use of genomic data to enhance research, personalized healthcare, and the development of new health policies.
- The data will be accessible across all states joining Genome EDIC, enabling doctors to use data on rare diseases across Europe for their patients.
- Only researchers and doctors who need the data for their work will have access through a secure computing environment.



an opportunity for Luxembourg

- > The first country to host a data space with a very high impact
- Positions Luxembourg as a leader in the digital sector
- Strengthens Luxembourg as a hub for highly skilled workers
- Enhances our national data infrastructures (LNDS, Meluxina, Meluxina-Q...)
- Numerous interactions with EHDS: the national implementation of EHDS will bring significant economies of scale to Genome EDIC!




Coffee Break















Keynote

A Day in the Life of Alice in the world of Web 3.0 Data Space





Alex Tourski

Founder Post-Platforms Foundation



Alice

One day from life of Alice In Wonder Web 3.0 Data Space

See the video-recording of the keynote, created by Post-Platforms Foundation, <u>here</u>.

POST PLATFORMS FOUNDATION

Alex Tourski Alex.tourski@postplatforms.org



Looking back at Data Summit 2024



















Luxembourg National Data Service



Verdonck CHO Reflexive Nervice Ministry of State – Department for Media, Connectivity and Digital Policy

Björn De Vidts And CEO Se Athumi B

ure we cruising:

Ana Garcia Robles Secretary General Big Data Value Association (BDVA) Association (BDVA)

Innovation throughout the DATA JOURNEY









DATA SUMMIT Luxembourg

Innovation throughout the **DATA JOURNEY**



3 next steps



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