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Demystifying Gaia-X for the UK

Amanda Brock, CEO, OpenUK

London, 31st March 2022

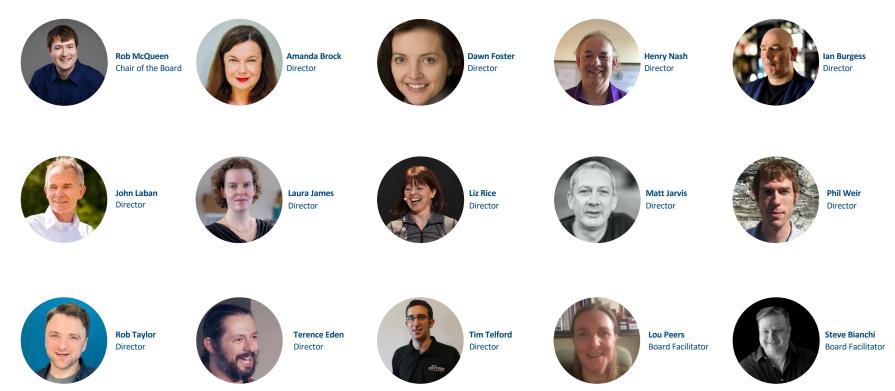






Board





Leadership





Amanda Brock CEO and Chief Policy Officer



Alison Dowdney Head of Student Outreach



Andrew Martin Chief Security Technology Officer



Chris Eastham Chief Legal Officer



Cristian Parrino Chief Sustainability Officer



Gen Ashley Chief Open Technology Partnership Officer



George Brooks Copywriter



Jamie Harper Recruitment Officer

Leadership





Katie Gamanji **Chief Future Founder**



Kris Sharma **Chief Business Community Officer**



Lou Peers **Project Manager Lead**



Mark Kember **Chief Communications** Officer



Matt Barker Entrepreneur in Residence



May Cheung Chief of Staff



Robert Carolina Chief Security Policy Officer



Robert Grannells Chief Future Leader



Rochelle Farmer General Counsel



Shaz Ali **Chief Technology Officer**

"III011000"" 101,000





Anais Urlichs Ambassador



Andre Maia Chagas Ambassador



Andrei Cioaca Ambassador



Ashleigh Monagle Ambassador



Ashley Nicolson Ambassador



Carla Gaggini Ambassador



Charlie Hull Ambassador



Chris Kranz Ambassador



Chris Lloyd-Jones Ambassador



Chris Simmonds Ambassador



Chris Howard Ambassador



Danny Abukalam Ambassador





David Burns Ambassador



Dominique Top Ambassador



Eddie May Ambassador



Fiona Nielsen Ambassador



Gen Ashley Ambassador

lan Watt Ambassador



Ingo Weiss Ambassador



Jason Bell Ambassador



Jason Evans Ambassador



Jon Seager Ambassador



Jordi Mon Companys Ambassador



Julieta Arancio Ambassador





Justin Cormack Ambassador



Laura Czajkowski Ambassador



Leanne Kemp Ambassador



Lewis Denham Parry Ambassador



Lorna Mitchell Ambassador

Mark Baker Ambassador



Mark Dansie Ambassador



Mauricio Salatino Ambassador



Michael Cade Ambassador



Mo Ladha Ambassador



Neil McGovern Ambassador



Nelly Kiboi Ambassador

101,000





Nick Jones Ambassador



Pushpita Dey Ambassador



Nicki Watt Ambassador

Richard Morrell

Ambassador



Nigel Abbott Ambassador



Paula Kennedy Ambassador



Sonya Moisset Ambassador



Steve Helvie Ambassador



Will Hall Ambassador





Community: Building a cohesive and visible Community around Open Technology in the UK:

- Awards
- NY Honours List
- Ambassador Program
- Supporters
- Sponsors and Doneors







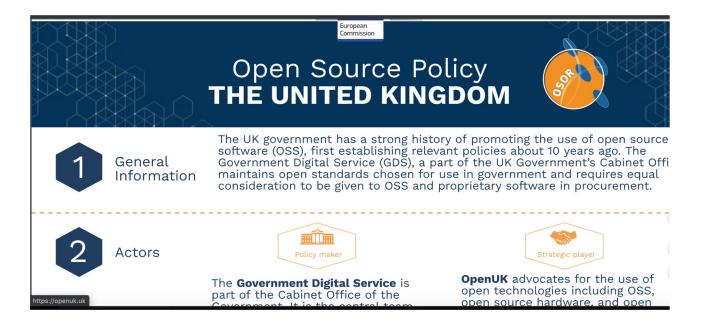


Influencing Legal and Policy to make sure the UK is a great place to do Open

- Invited to speak with UK Trade on aspects of treaty negotiations
- Joint report on UK and Open with OSOR 2020
- Amicus Brief in Google v Oracle decided 5 April 2021
- Review of new laws and policy, respond to consultations
- Future Leaders Report on Government Procurement
- Day One Member Gaia-X
- State of Open: The UK in 2021 Report 3 Phases
- COP26 Blueprint for data centre & Sustainable Open Technology Day









No. 18-956

IN THE Supreme Court of the United States

GOOGLE, LLC, Petitioner,

v.

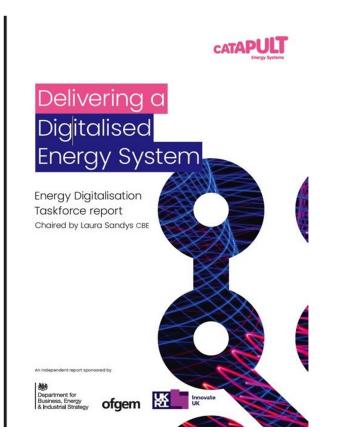
ORACLE AMERICA, INC., Respondent.

ON WRIT OF CERTIORARI TO THE UNITED STATES COURT OF APPEALS FOR THE FEDERAL CIRCUIT

BRIEF FOR AMICI CURIAE PYTHON SOFTWARE FOUNDATION, TIDELIFT, OPEN UK, AND PROTOCOL LABS, IN SUPPORT OF PETITIONER

VAN LINDBERG JILL WHEATON* DYKEMA GOSSETT PLLC 112 E. Pecan Street #1800 San Antonio, TX, 78215 jwheaton@dykema.com vlindberg@dykema.com Ph. (210) 554-5294 * Counsel of Record LUIS VILLA TIDELIFT, INC. 50 Milk Street 16th Floor Boston, MA 02109 luis@tidelift.com









State of Open: The UK in 2021

Phase One March 2021



State of Open: The UK in 2021 Phase Two: UK Adoption 7 July 2021

Het.

Open:UK 🜔

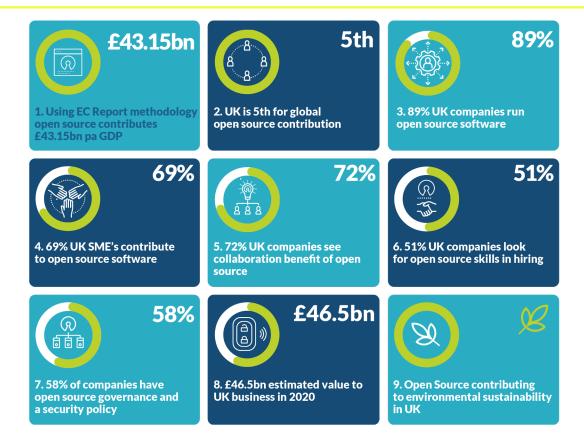
Open UK 🌅

State of Open: The UK in 2021 Phase Three The Values of Open October 2021

Open UK 🚺



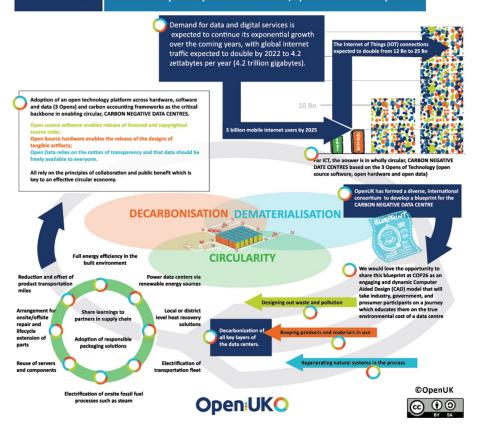
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Open:UK 🜔

An open source blueprint for the CARBON NEGATIVE DATA CENTRE based on the three opens - open source software, open hardware and open data











Building Learning in Open Technology

- Annual Kids' Competition
- 8200 Digital Glove kits given away
- 2 Courses second using OSD 10 definitions and Sustainable Development Goals
- Year one presented 20 October and Year 2 presented at COP26 11 November
- Digital Summer Camps
- Apprenticeship scheme creating a Knowledge Module for 2022
- Curriculum working on GCSE and Scottish equivalent for 2023
- University Partnerships and Modules in 2022







Privacy - Terms







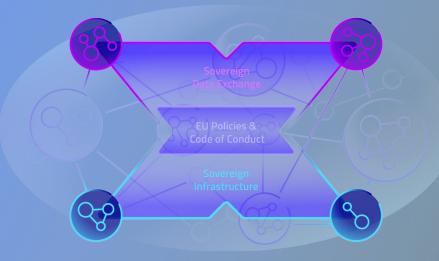


OpenUK Gaia-X Day One Member and UK Hub Coordinator

gaia-x

Innovation through digital sovereignty – that's the goal of Gaia-X.

Achieved by establishing an **ecosystem** in which data is made available, collated and shared in a **trustworthy environment**. What emerges is not a cloud, but a **federated system** that links many cloud services providers and users together.



EU calls for data economy

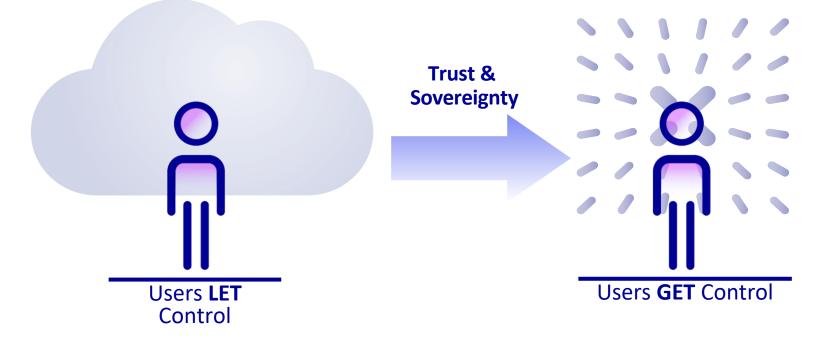
URSULA VON DER LEYEN President of the European Commission A real **data economy**, on the other hand, would be a powerful engine for innovation and new jobs. And this is why we need to secure this data for Europe and make it widely accessible. **We need common data spaces** – for example, in the energy or healthcare sectors. This will support innovation ecosystems in which universities, companies and researchers **can access and collaborate on data**.

(State of the Union Address on 16 September 2020)

From traditional Cloud to Gaia-X

- Concentrated
- Proprietary
- Opaque

- Distributed
- Open
- Transparent



What is Gaia-X?



Our vision

Access and share data through a federated data infra-structure to ensure innovation for our future thanks to the next generation of Information Technology.



European cooperation

Ensure the efficiency of European data infra-structure, based on European values and supported by the European Commission.



Transparency

Secure open interfaces and standards to allow the aggregation of data while driving innovation and efficiencies within a transparent environment.



Our objectives

Foster the creation, formation, roll out and growth of digital ecosystems that can be used commercially in and across data spaces.



Maximum security

Maximise data sovereignty for business, customers and governments through services that ensure interoperability and privacy by design.

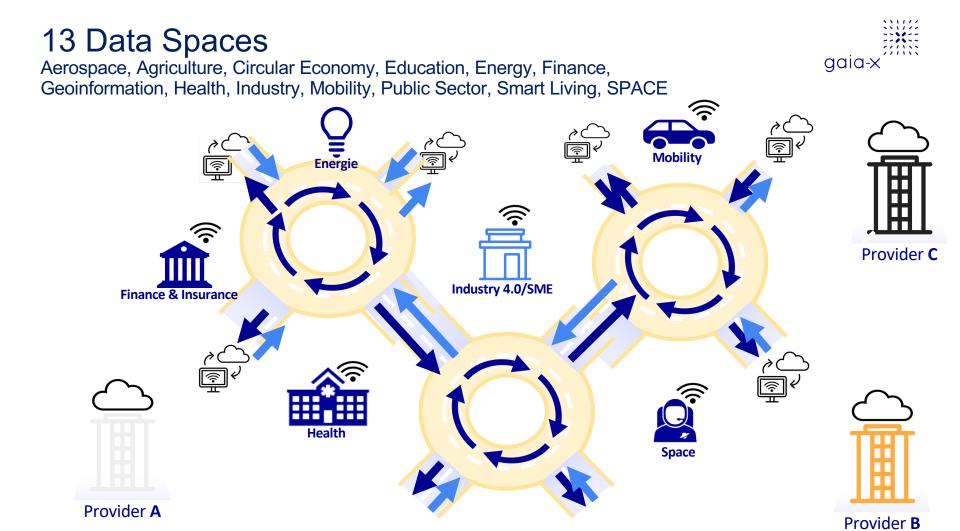


Rights protection

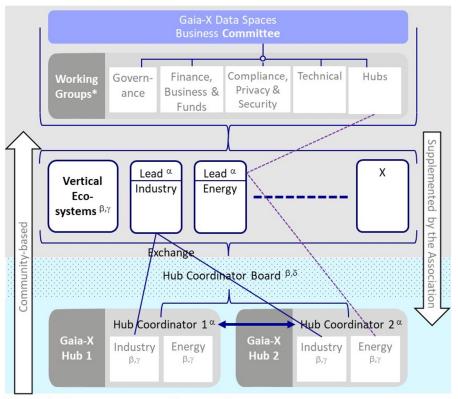
Guarantee citizens' privacy as a human right and respect the sovereignty of other nations.

gaia-x

Gaia-X Data Spaces and Use Cases



Gaia-X Data Spaces

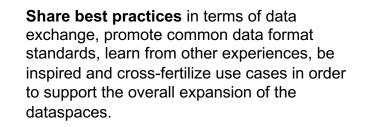


- ^{*a*} Membership in Association strongly requested
- ^β Alignment, Reporting, Feedback
- ⁷ Lead and Vice Lead election and rotation may use the ruling of the Gaia-X Association
- [§] Proposal of Lead and Vice Lead candidates
- * Is subject to changes by the Gaia-X Association

Gaia-X Dataspace Business committee



DSBC stands for Dataspace Business committee and gathers working group organized by vertical domain (Aerospace, Agriculture, Circular Economy, Education, Energy, Finance, Geoinformation, Health, Industry, Mobility, Public Sector, Smart Living, SPACE...).





Position papers of each of these dataspace describe the main goals, challenges and use cases foreseen to develop each of them.

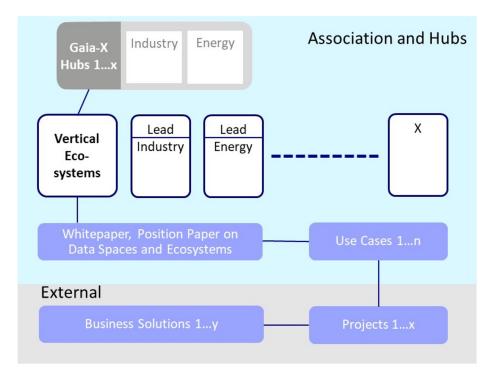


First challenge: obtaining a good level of data interoperability/quality which will for example faster and ease the creation of efficient and relevant decision making dashboard in each of their respective area.



These dataspaces are creating value thanks to the use of better data exchange : energy, finance, health, agriculture, mobility, education

Gaia-X Use/ Business Cases



Gaia-X Program Criteria

- 1. Aligned with the vision and the goals of Gaia-X (What is Gaia-X), https://gaia-x.eu/what-is-gaia-x
- 2. Adopt the Gaia-X policies, rules (PRD), architecture (AD) and the label document
- 3. Impact on EU economy and/or society
- 4. Pan-European scale (i.e. deploy and scale in more than one country)
- 5. Large potential user-base (i.e. small medium enterprises in addition to larger players)
- 6. Target scale and scale potential (i.e. the target scale after initial ramp-up and the longer-term scale potential)
- 7. Clear use cases, value/business case and deliverables
- 8. Critical mass of committed stakeholders
- 9. Openness: creating open ecosystems for data exchange, non-proprietary only (not monopolistic platform approaches)
- 10. Funded and resourced
- 11. Time to initial go-live and time to initial target-scale
- 12. Complementary to and linked to data spaces

Gaia-X Business Cases and Lighthouse Projects



More to follow

- Health-X (Philips, Siemens Healthineers, Sanofi, Takeda, Paris hospitals APHP, Charite Berlin, etc.
- Mobility: Eona-X
- Energy-X
- EU Finance dataspace (Patrick Laurens-Frings, CDP)
- Aerospace
- Space (Boost aerospace)
- Green deal Education

gaia-x

Gaia-X Labels https://www.youtube.com/watch?v=E R9H-biWOkA

Details on labels roles & levels



The Gaia-X Compliance and Labelling Framework identifies can serve both, Label Owners and Label Issuers:

- Label Owners entities that decide to define a specific Label for their business.
- Label Issuers entities, defined by the Gaia-X AISBL, that can implement and issue a Label.

Basis labels issued by AISBL

- Gaia-X will verify the compliance of a service attributes according to those specified for a specific label, but will let external authorities (Governmental, Industrial Specific, Standardization Bodies, etc.) the ability to define domain specific Labels.
- Besides externally defined Labels, Gaia-X will define three basic level of ______ compliance criteria clusters,

Level 1

Data protection, transparency, security, portability and flexibility in line with the Gaia-X Policy Rules Document and the Gaia-X Architecture Document.

ENISA European Cybersecurity Scheme Level Basic compliance

Level 2

Level 1 + a higher level of security, transparency of applicable legal rules and potential dependencies.

Service location in Europe option must be provided to the consumer.

ENISA European Cybersecurity Scheme Level Substantial compliance

Level 3

Highest standards for data protection, security, transparency, portability and flexibility, as well as **European control**.

Levels 1 and 2 + criteria that ensure **immunity to non European access** and a strong degree of control over vendor lock-in.

A service location in Europe is mandatory.

ENISA European Cybersecurity Scheme Level **High**, compliance

LABELS ARE OBTAINED THROUGH GAIA-X SERVICES IMPLEMENTATION



The Gaia-X ecosystem of services and data

Advanced Smart Services

(Cross-) Sector Innovations / Market places / Applications

Data Spaces

Interoperable & portable (Cross-) Sector data-sets and services

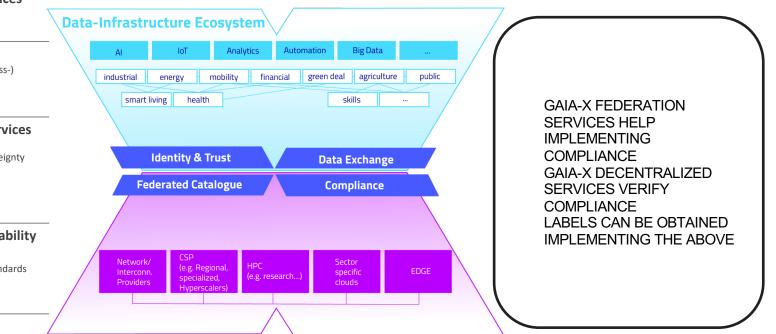
Gaia-X Federation Services

Federated & distributed for interoperability Trust & Sovereignty services

Portability, Interoperability

& Interconnectivity Technical: Architecture of Standards

Commercial: Policies



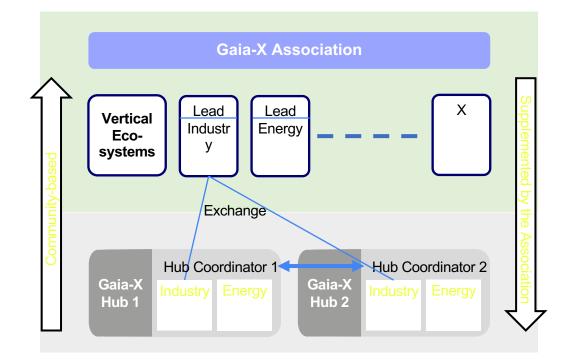
Compliance Legal: Regulation & Policies

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Gaia-X Hubs

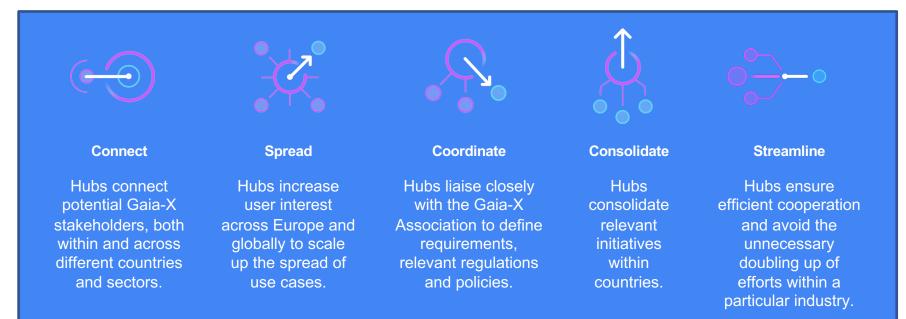
The Gaia-X Hubs – How we collaborate with the Hubs





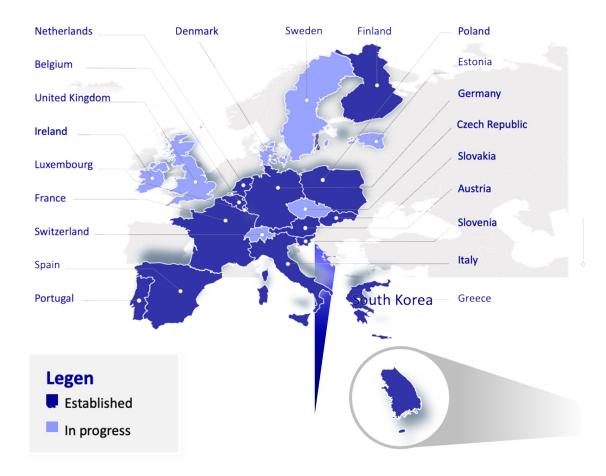
The roles of the Gaia-X Hubs

- Building the local (UK) ecosystem
- Use case/ Business Case incubation

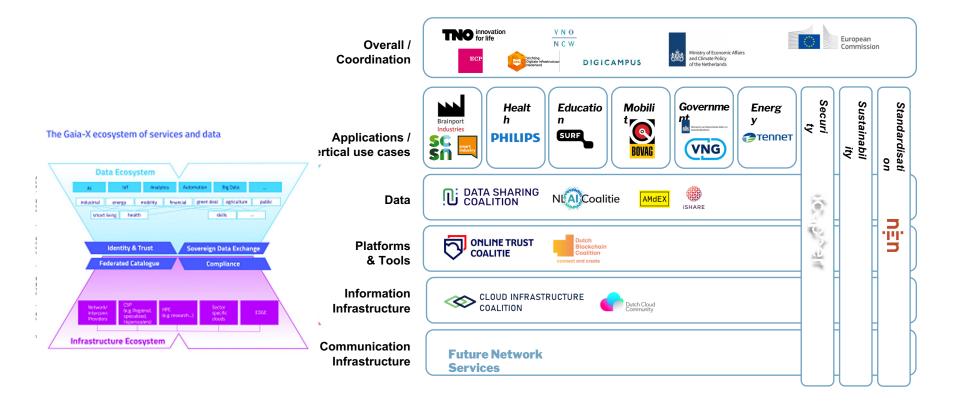


Gaia-X Hubs & Gov Endorsement

15 hubs, 1 International one (more on the way...)



Gaia-X plot on existing NL coalition ecosystem : UK will do same



Thankyou @openuk_uk / open.uk