presentation

Gaia-X Web3 Ecosystem

Sovereign Computation from Edge to Cloud







why do we need a data mesh like Gaia-X?

Availability. Most valuable data is **not available in a data mesh** due to the **fear of losing control** over confidential or valuable information.

Trust Framework. Today the management and discovery of valuable data is costly. We lack a trustworthy, scalable and secure framework.

Utility. Most data is **not product or process-based**. It is time-consuming, complex, and costly to create valuable solutions.

Lock-In. The market is characterized by strong lock-in effects and high concentration / centralization.

Potential. We do not make the most out of the renewable and infinite resource data is.

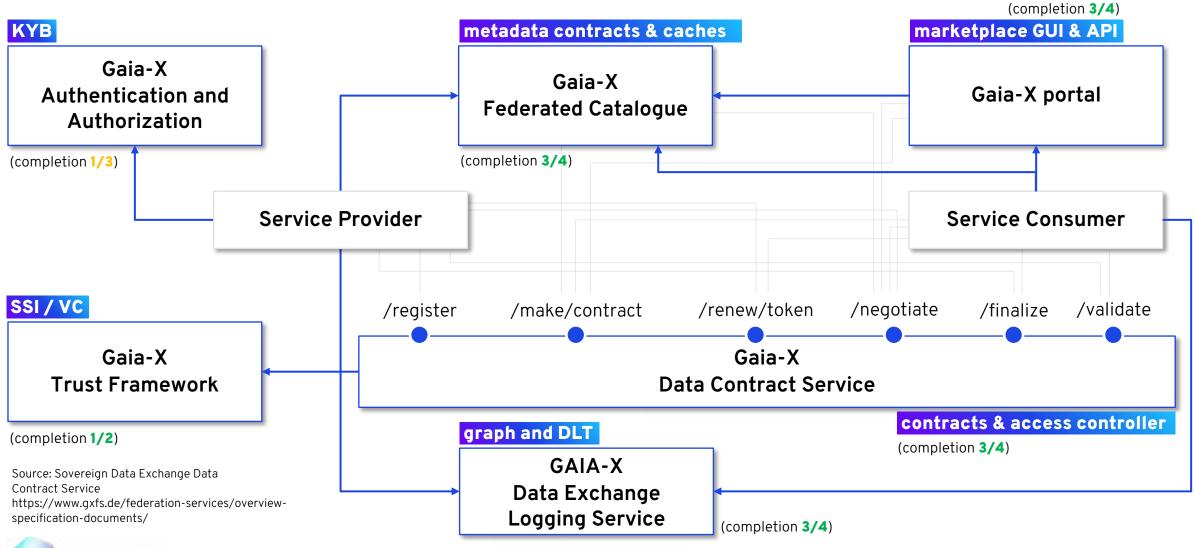
staying on track with the original Gaia-X roadmap



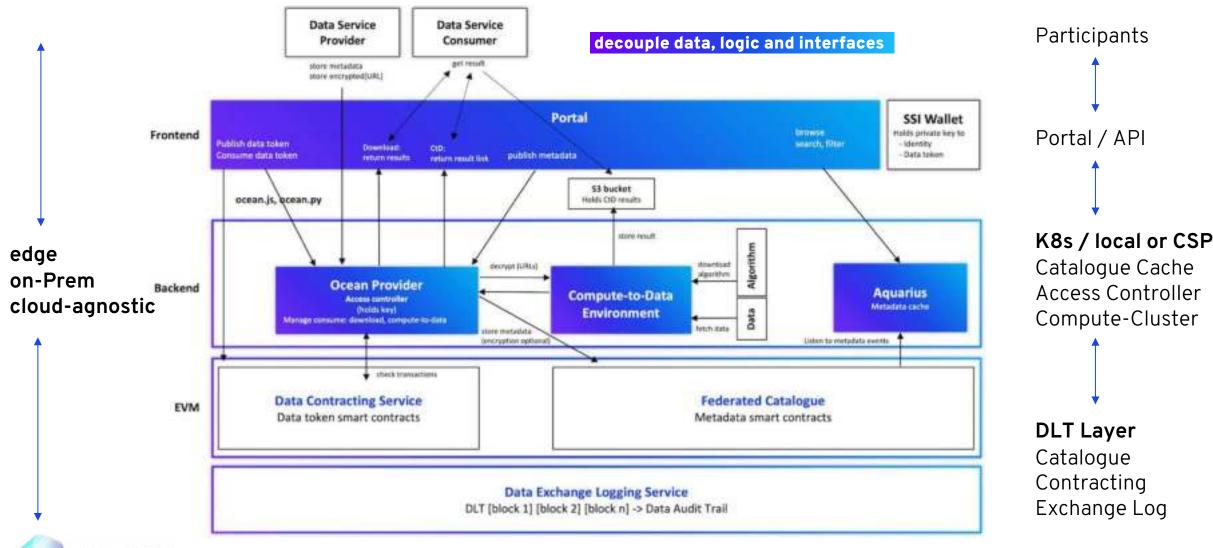




Gaia-X federation services & the web 3.0 ecosystem demonstrator

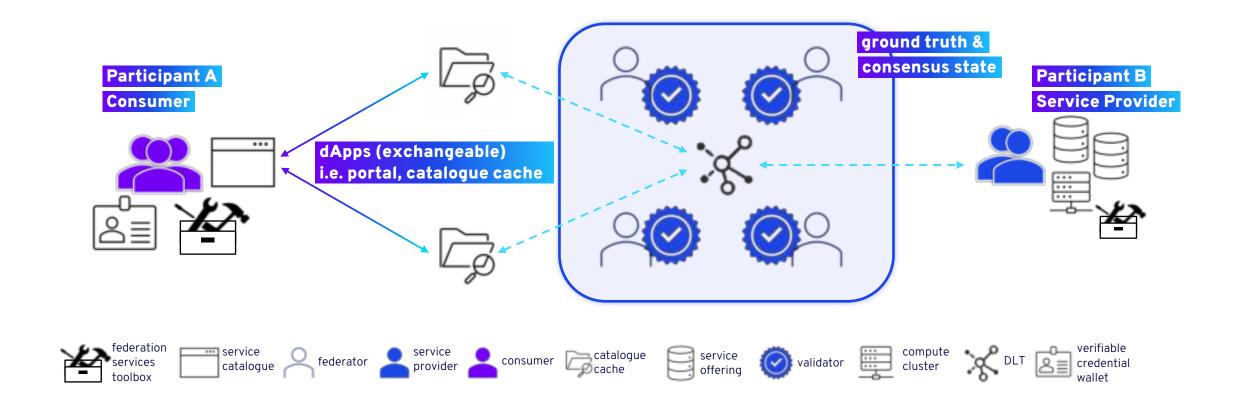


modular components, based on a DLT core grid, without lock-in



deltaD\() | data economy solutions - GDPR compliant | contact@delta-dao.com

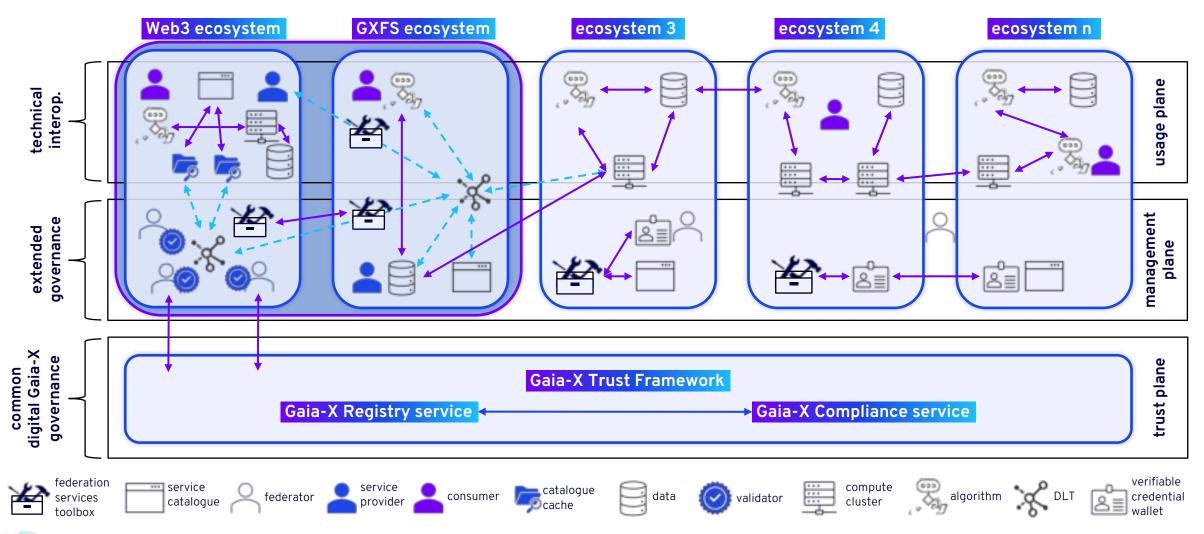
removing all single points of failure and control through federation





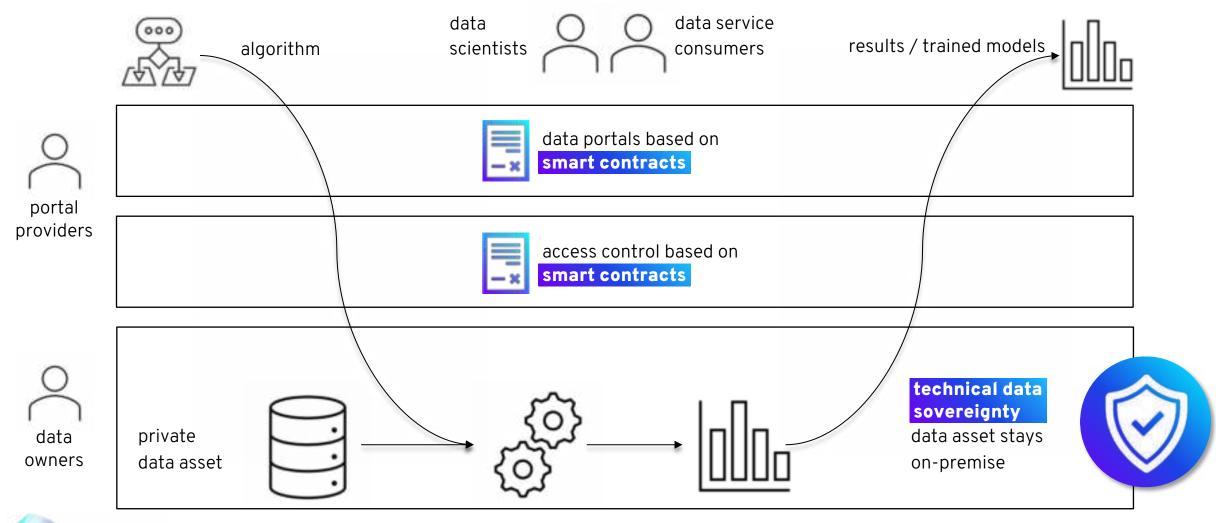
web 3.0 ecosystem & GXFS, interoperability is key







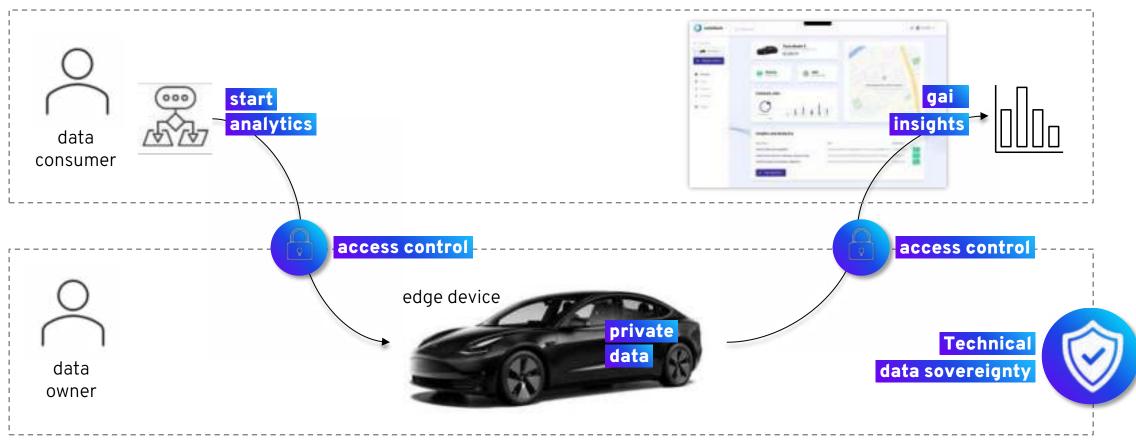
compute-to-data enables true technical data sovereignty





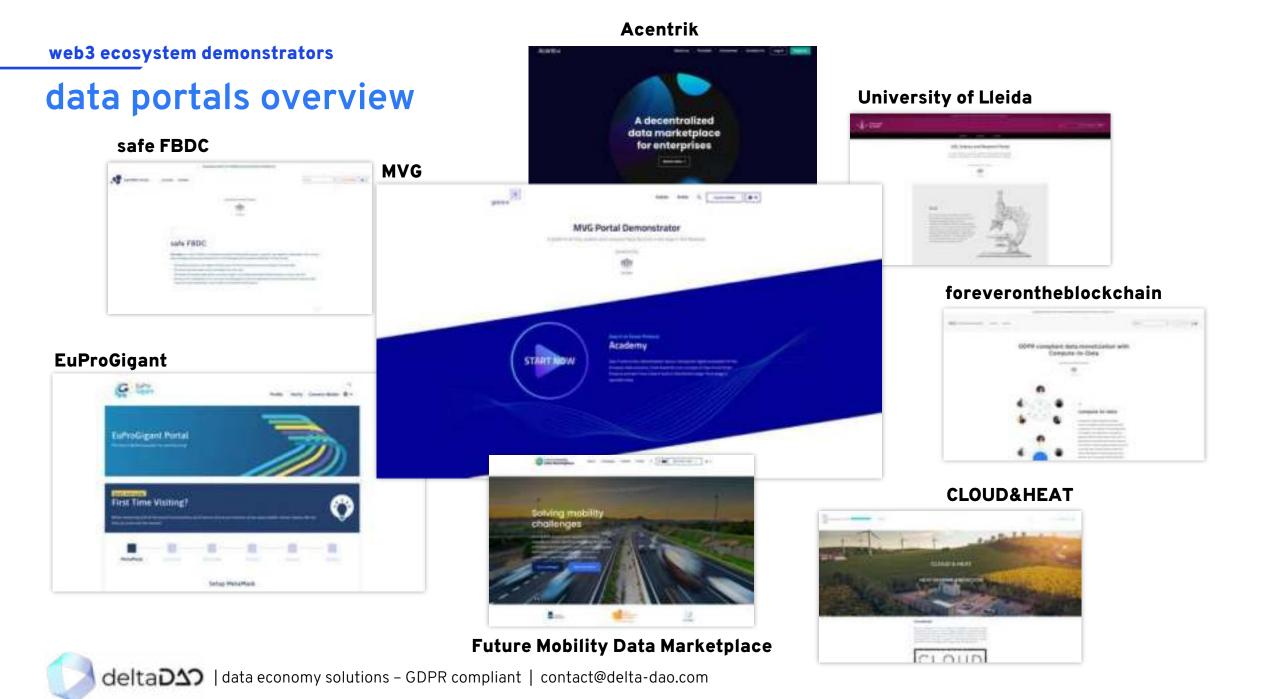
compute-to-edge enables technical data sovereignty for IoT & EoT

Bring compute ...



... to where data is.





made with love and open-source software









































ubuntu®

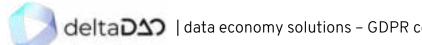




Demonstration

https://euprogigant.portal.minimal-gaia-x.eu/

https://portal.minimal-gaia-x.eu



useful resources after demonstration

Minimal Viable Gaia-X:

- MVG Portal: https://portal.minimal-gaia-x.eu/
- Publisher: https://portal.minimal-gaia-x.eu/publish
- DID Resolver: https://portal.minimal-gaia-x.eu/verify
- Exchange Logging: https://exchangelog.minimal-gaia-x.eu/
- Repositories: https://github.com/deltaDAO

Gaia-X Trust Framework:

- Trust Framework: https://gaia-x.eu/mediatech/publications/
- Gaia-X Compliance Service: https://compliance.gaia-x.eu/docs/
- Repositories: https://gitlab.com/gaia-x/lab/compliance
- Gaia-X Registry: https://registry.gaia-x.eu/docs/

Gaia-X Architecture Document Repository: https://gaia-x.gitlab.io/technical-committee/architecture-document/

Gaia-X Trust Framework Repository: https://gaia-x.gitlab.io/policy-rules-committee/trust-framework/



Backup

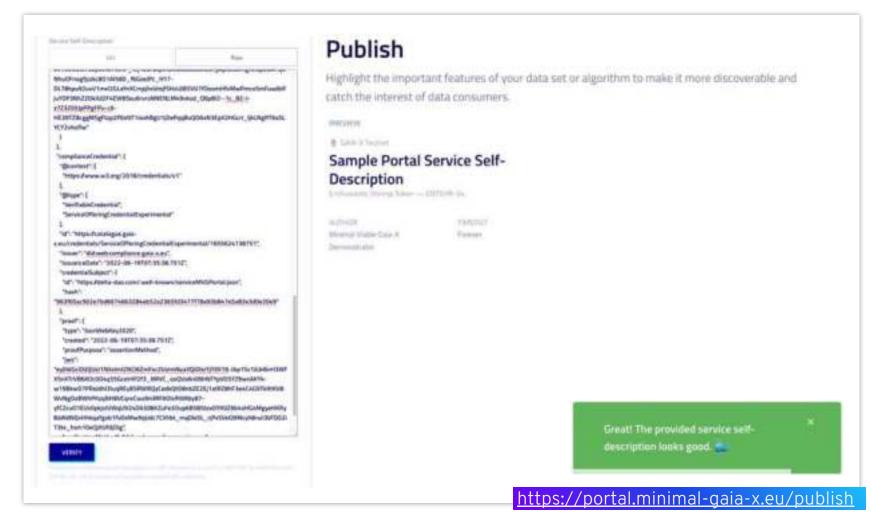
https://euprogigant.portal.minimal-gaia-x.eu/

https://portal.minimal-gaia-x.eu



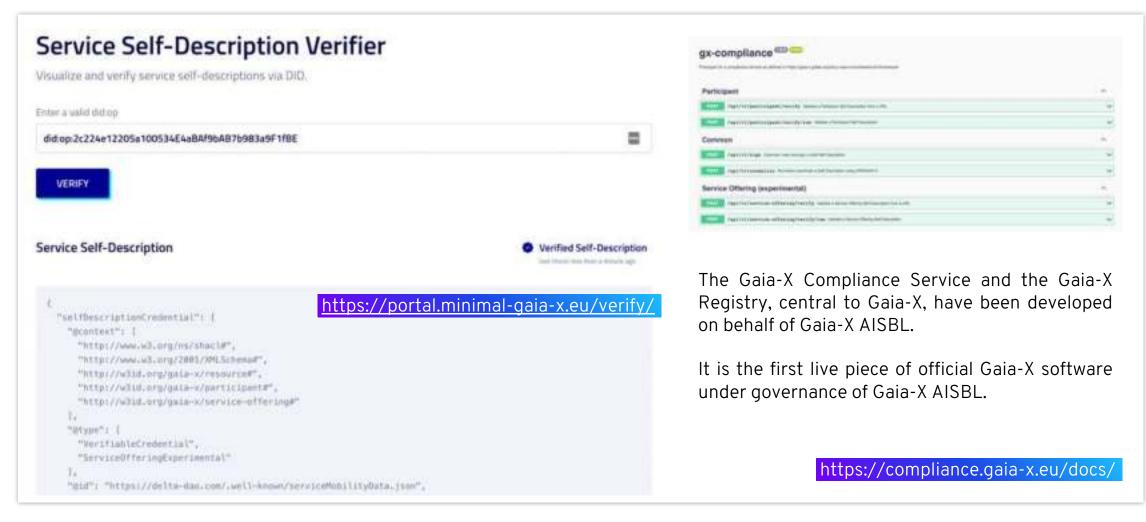
Gaia-X Trust Framework & Compliance Service

including Self-Descriptions





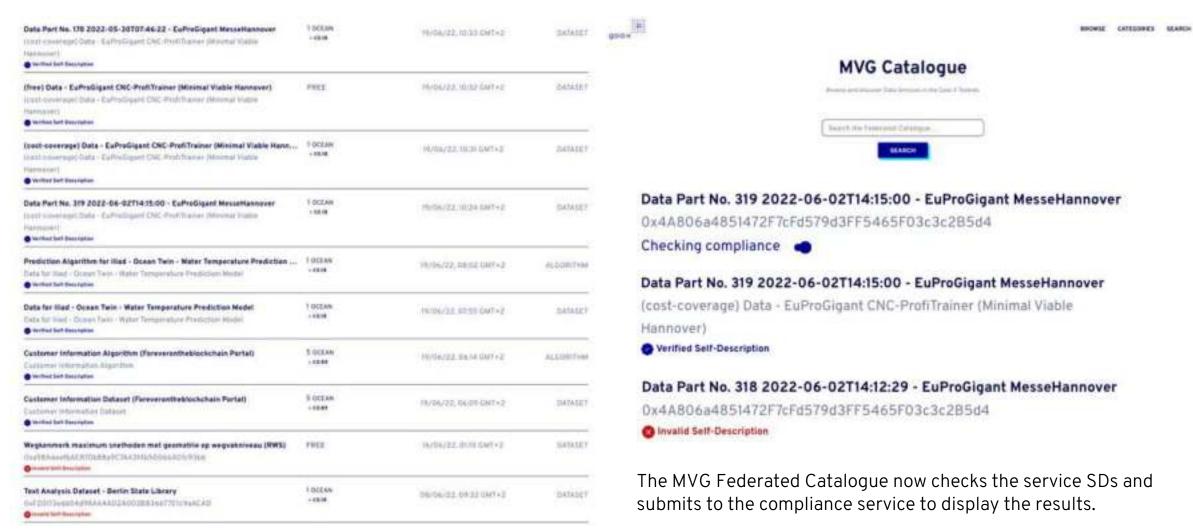
Self-Description Verifier and DID resolver





Gaia-X Trust Framework & Compliance Service

catalogue incl. Gaia-X credentials and compliance service





Gaia-X Exchange Logging & Contracting Service

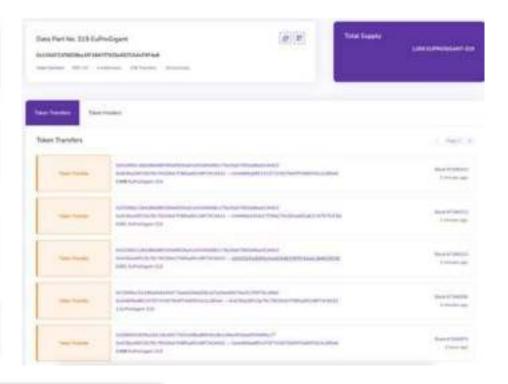
access control and exchange logging

basis is **tokenized access control** on DLT that can be extended with policies from self-descriptions

access to services managed by smart contracts and access controller components

if a consumer spends a **datatoken**, access is granted additional **conditions** are possible

Enables transparency, audit-trails and on-chain settlement (optional)



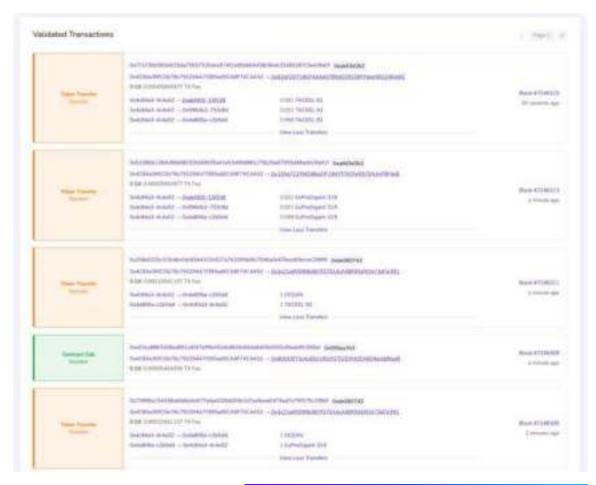
data access rights in the form of datatokens can be transferred on-chain

smart contracts become a tool to pool data and conditionalize data sharing





automatic audit trails & security and privacy by design



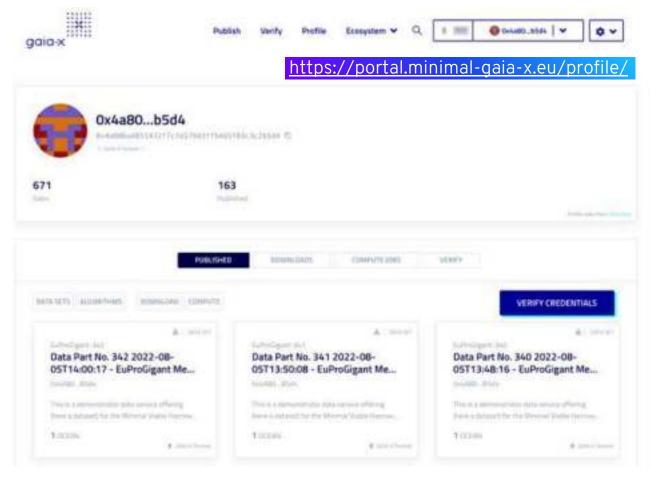
https://exchangelog.minimal-gaia-x.eu/

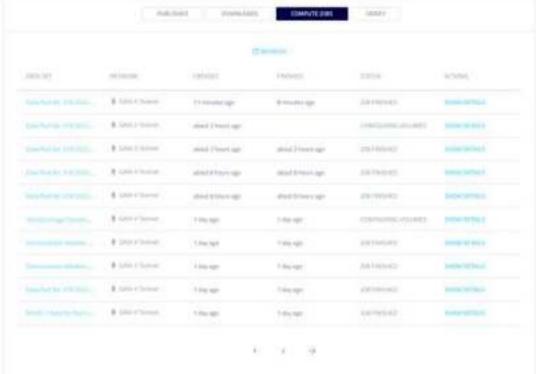






overview for service providers and management









data economy solutions - GDPR compliant

deltaDAO AG

Geibelstraße 46b 22303 Hamburg Germany

Website https://delta-dao.com

Mail contact@delta-dao.com

Twitter @deltadao

LinkedIn deltadao

YouTube deltaDAO

Presented by

Kai Meinke

+49 151 1257 9443

Co-Founder and Business Lead deltaDAO AG kai@delta-dao.com

Sea Creatures and Ocean logo licensed under <u>CC-BY-SA-4.0</u>, <u>Ocean Protocol Foundation Ltd.</u>