

Health Data Space Event

4 APRIL 2022

#4 Enabler Identity, Consent & Trust

Chapter 2a: Breakout Session



Chapter 2a: Breakout Use cases



- **#4 Enabler Identity, Consent & Trust**

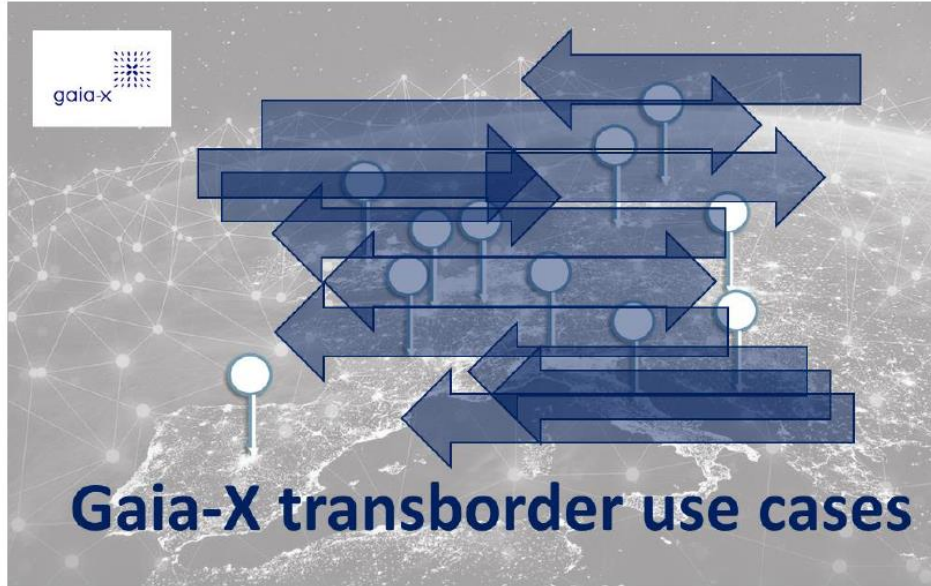
Welcome and Opening



- **Dr. Erwin Dijkstra,**
Distinguished Expert - Healthcare & Life Sciences, Atos
- **Claire Unwin,**
Innovation Architect - Healthcare & Life Sciences, Atos

GAIA-X Health – use cases

2. Trans-border use cases identified

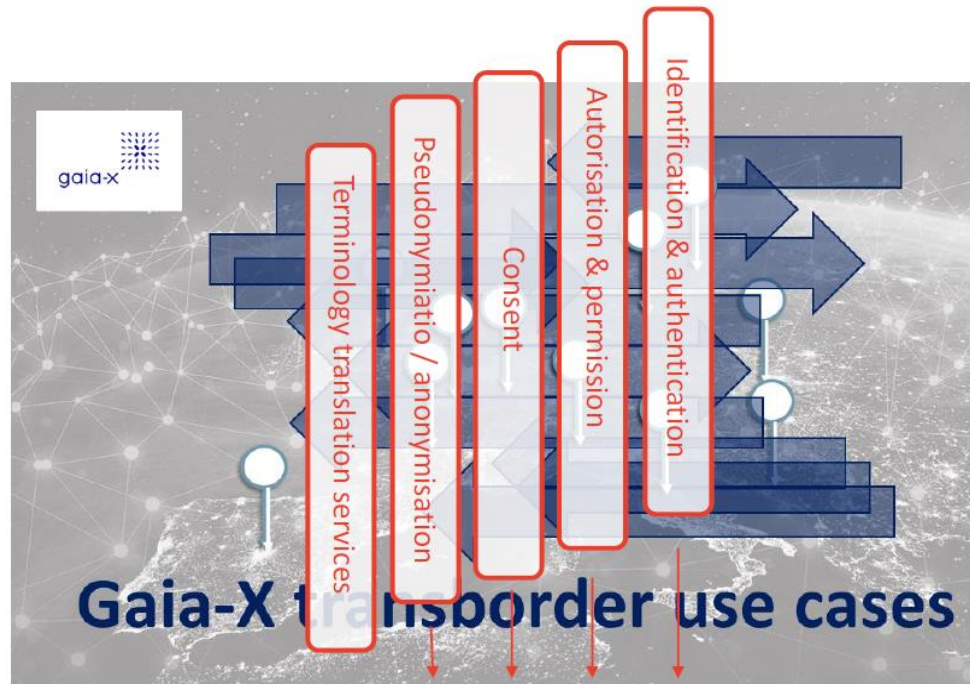


Genomics and imaging data for cancer care and rare diseases: make this data available at a large, cross-country scale, for study, and for improving diagnosis and treatment. And make the data-driven findings available at the point of care, in applications useful for the treating physician as well as to the patient.

Patient driven measurements and outcomes: bring the infrastructure in place to learn from patient centric observations at a massive scale, and to deploy smart patient applications using that data using this same infrastructure.

Medical record exploration: enable patients to get access to their medical records collected at different providers, and enable patients to provide access to their integral, longitudinal health record in a controlled manner to their doctor of choice or to a clinical study of choice.

4. Establishing working groups



“enabler”-specific transversal working groups

In order for the trans-border use cases to further Gaia-X, they should be probed by working groups for specific, common enablers

- **Each working group should be constituted by specialists around a given enabler**
 - From the countries participating in the use case
 - From other member countries interested in the use case/subject
 - From AISBL «HQ» a specialist closest to the enabler
- **Transversal working groups:**
 - Identification & authentication management
 - Authorization & permission management
 - Consent management
 - Pseudonymisation and anonymisation services
 - Terminology translation services
- Eventually, common solutions for enablers should be elaborated and proposed to AISBL

GAIA-X Health – this breakout



Welcome, opening, intro	Moderator	erwin.dijkstra@atos.net
Digital Responsibility Goals and Gaia-X	Jutta Meier	jj.meier@identityvalley.org
Data altruism and citizen trust	Joan Guanyabens	joan@guanyabens.com
Consent and agreement management	Lal Chandran	lal@igrant.io
eIDAS : Trusted Digital Identity	Domink Deimel	dominik.deimel@comuny.de
GAIA-X Trust Framework	Pierre Gronlier	Pierre.Gronlier@gaia-x.eu
Q&A with the audience	Moderator	
Polls on maturity & next step involvement	All participants	Claire.Unwin@atos.net
Next steps with the audience	Moderator	
Compile session summary	Moderator	

https://identityvalley.org/assets/download/IDV_Gaia-X-%20Analyse_Doppelseiten_220222.pdf

<https://www.saluscoop.org/>

<https://igrant.io/>

<https://digital-strategy.ec.europa.eu/en/policies/eidas-regulation>

<https://sifted.eu/articles/estonia-digital-health/#:~:text=Estonia's%20health%20service%20has%20been,to%20look%20at%20those%20records.>

<https://www.gxfs.eu/>

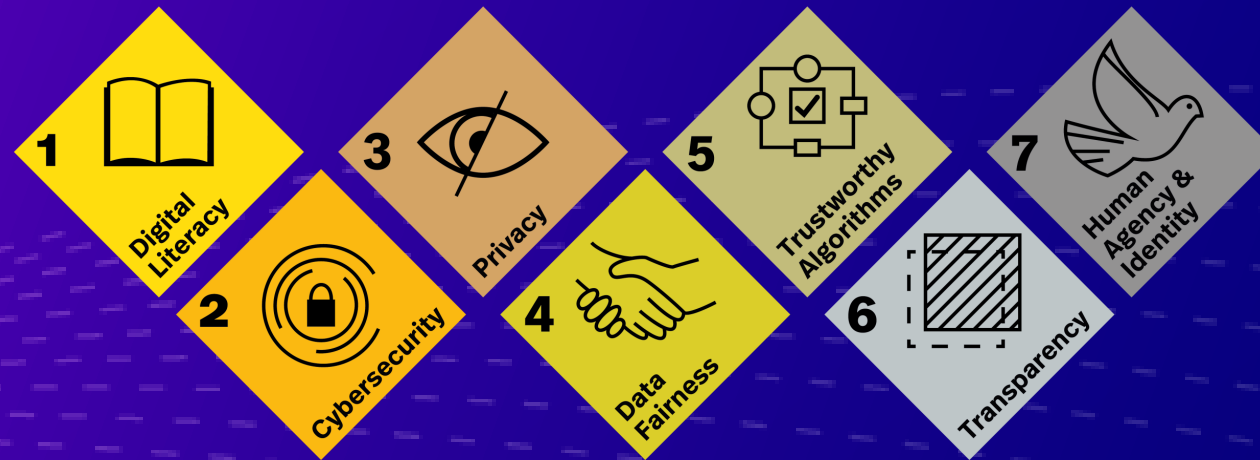
<https://atos.net/en/industries/healthcare-life-sciences>

Building blocks: identity, consent & trust. Digital Responsibility Goals & Gaia-X



Jutta Juliane Meier
Founder & CEO
Identity Valley

Digital
Responsibility
Goals

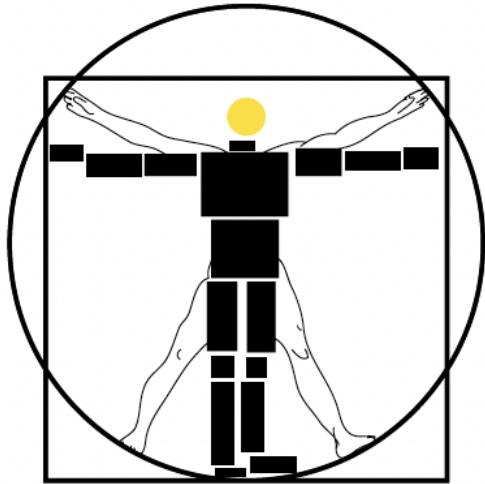


Gaia-X Healthcare Data Space Event, April 4th 2022

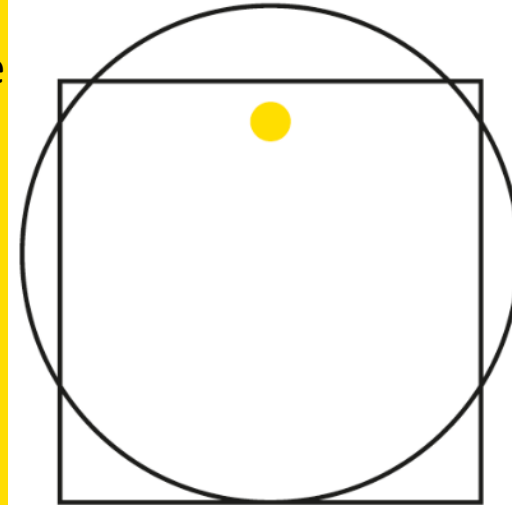
Identity Valley.
Our credo.

#itsallabouttrust

Identity Valley. Our purpose.



Inspired by da Vinci's Vitruvian Man, the Identity Valley Logo tells a story of a human-centered science and evolution.



Identity
Valley

It's all about trust.

Identity Valley. Our strategy.

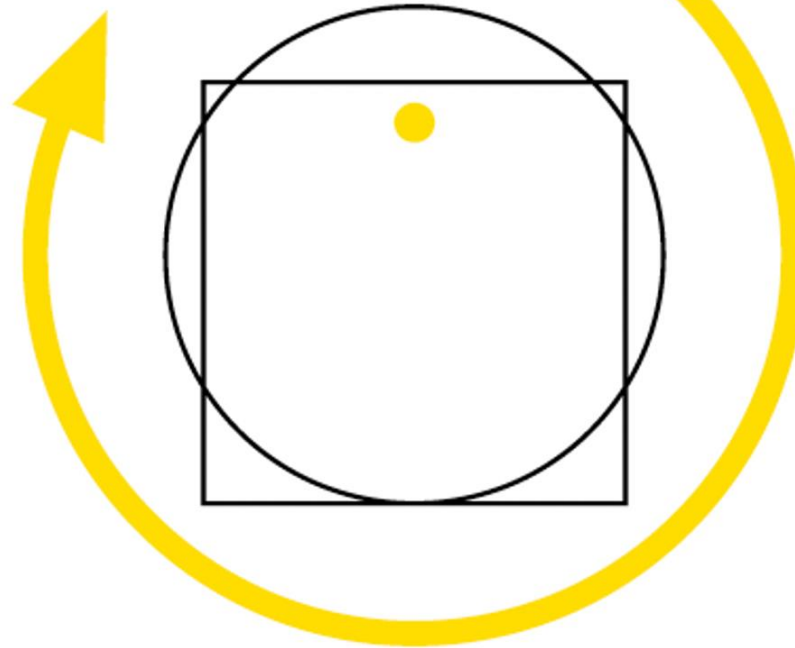
Sustainable Development
needs digital transformation.

Human-centered impact model

Trust
enables
digital
Transformation.

Digital
transformation
needs digital
responsibility.

Digital Responsibility
fosters trust.



Climate Change
&

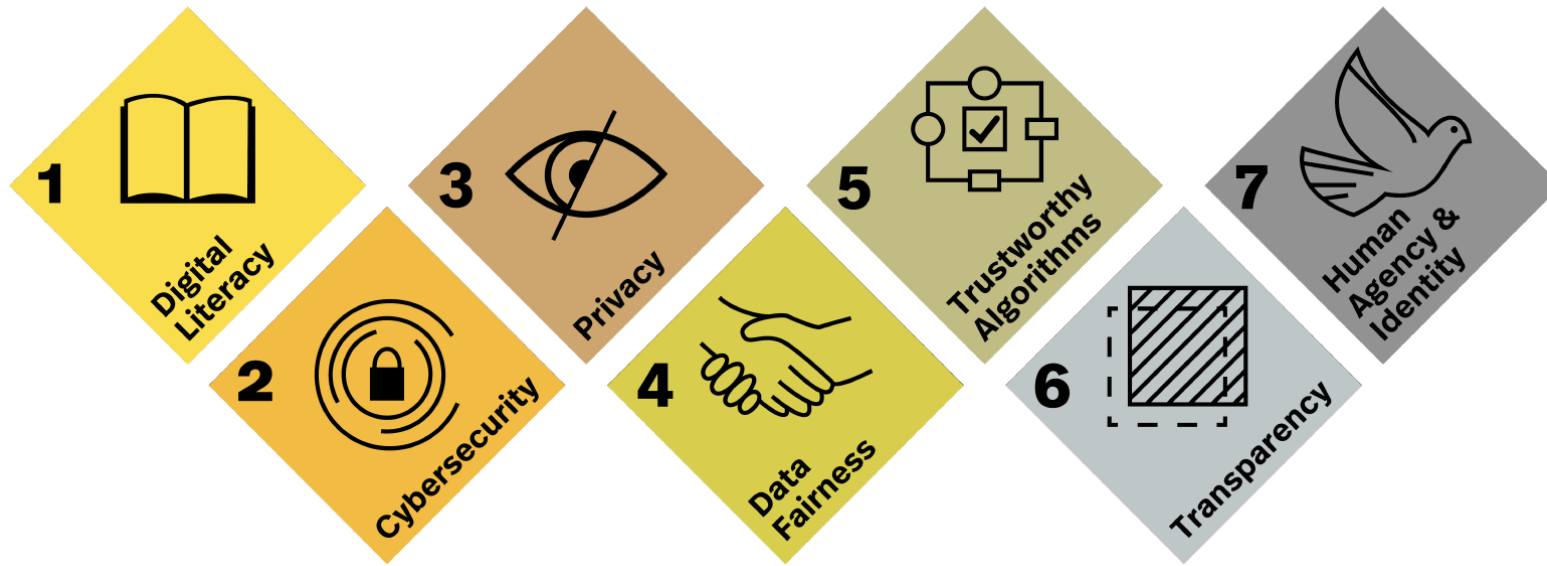
Digital Transformation.

Climate Change



**SUSTAINABLE
DEVELOPMENT
GOALS**

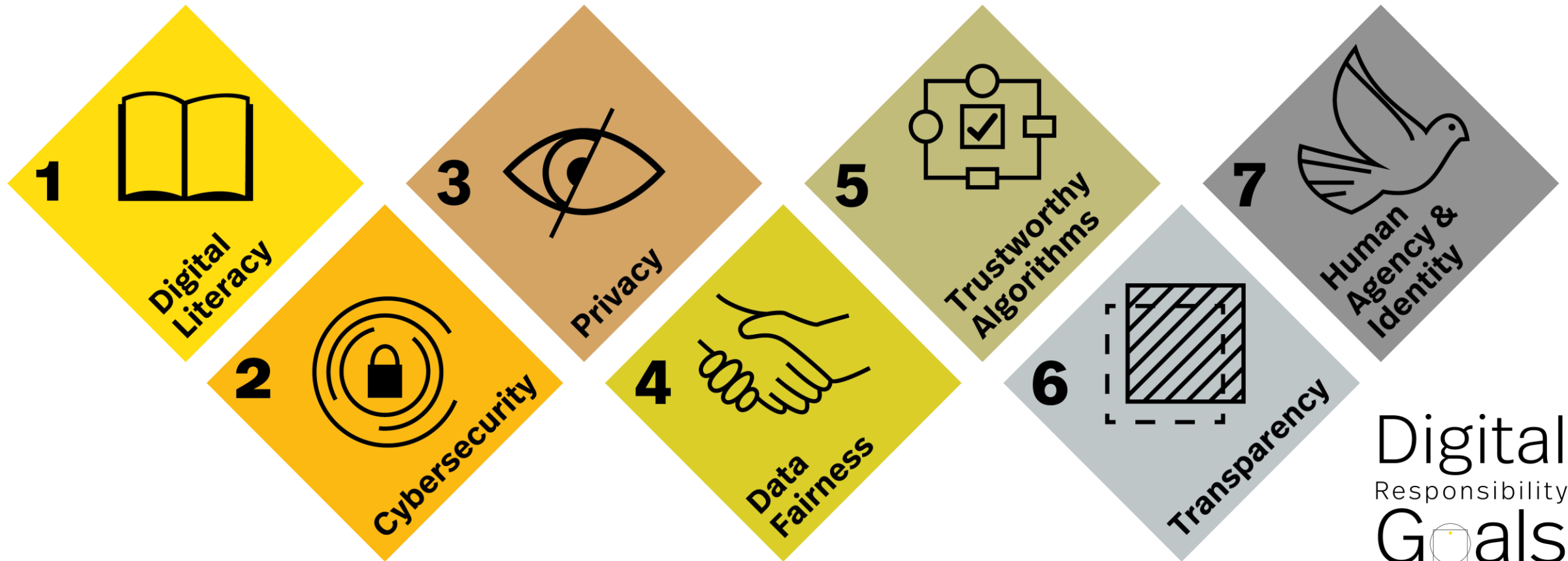
Digital Transformation.



Digital Responsibility Goals

Digital Transformation.

The 7 Digital Responsibility Goals - providing guidance on the path to greater trust and a human-centered digital transformation.



How can we build trust in the digital world – the European way?

“Europe can, and should, **create rules** for living, working and communicating in the digital space that **our citizens can rely on**. The **Digital Responsibility Goals** are a valuable benchmark for this.”*

Prof. Dr. Angelika Niebler
Member of the
European Parliament



*June 23rd 2021 – First Public Launch of the Digital Responsibility Goals – virtually @ European Parliament



How can we build trust in the digital world – the European way?

“We need to be more courageous to shape the digital space in a way that it serves humanity and strengthens democracies. The Digital Responsibility Goals offer such a framework and should become a norm in Europe.”*

Ilsabe von Campenhausen
Executive
BMW Foundation Herbert Quandt

BMW Foundation
Herbert Quandt

*June 23rd 2021 – First Public Launch of the Digital Responsibility Goals – virtually @ European Parliament



How can we build trust in the digital world – the European way?

“**Collaboration** with our industrial automation customers **can only remain successful if we ensure that the exchange of information is based on trust.** That’s why Identity Valley’s Digital Responsibility Goals are so important.”*

Curt-Michael Stoll

Vice-Chairman of the Supervisory Board

FESTO SE & CO. KG

FESTO

*June 23rd 2021 – First Public Launch of the Digital Responsibility Goals – virtually @ European Parliament



How can we build trust in the digital world – the European way?

“People will **only trust machines and algorithms** if they can be **confident that their identity and that of others will be protected**. With the Digital Responsibility Goals Identity Valley works towards **responsible action** and therefore **promotes the building of this trust** as the **basis for Digital Transformation**.”*

Dietmar Harhoff

Director

Max Planck Institute for Innovation and Competition



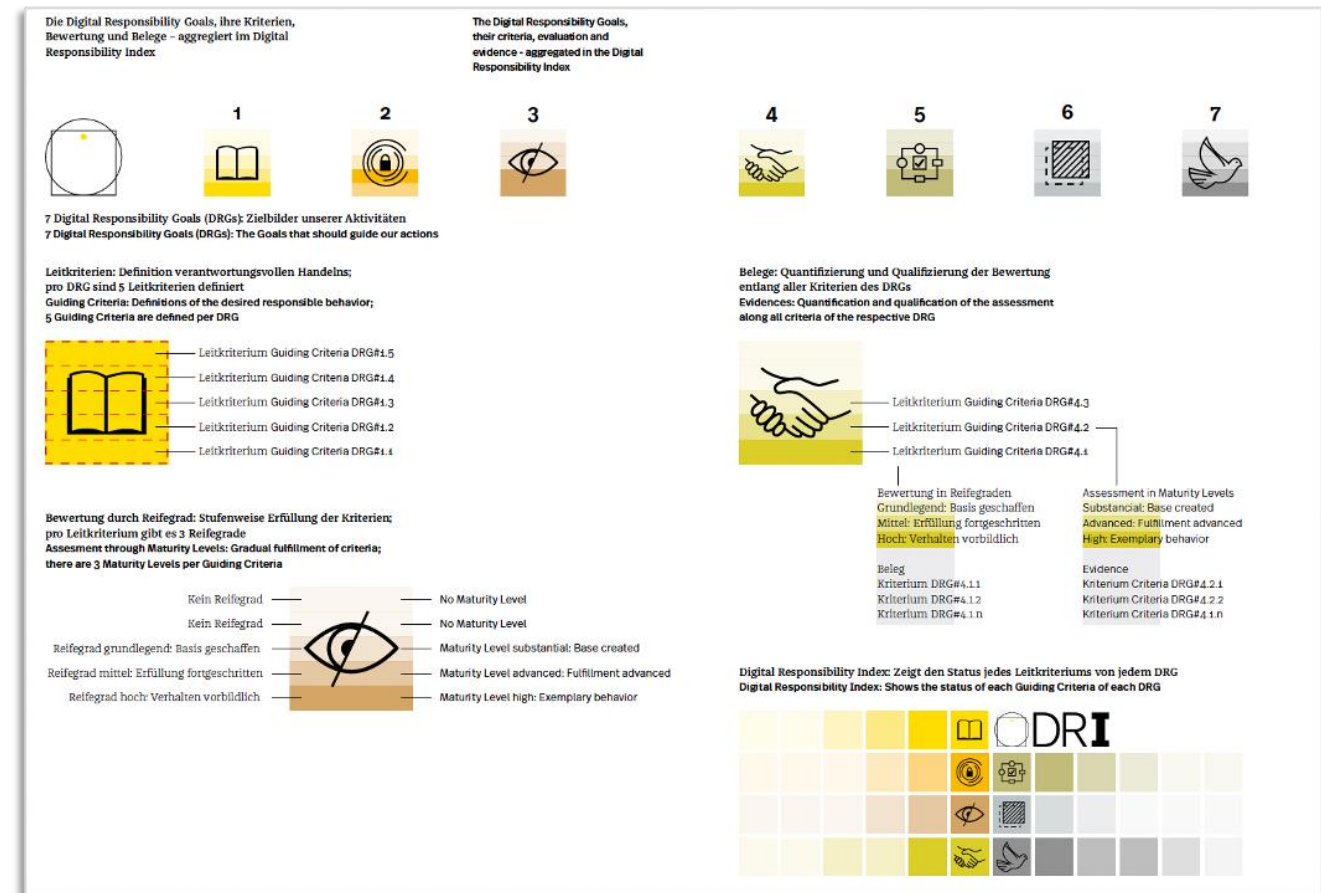
*June 23rd 2021 – First Public Launch of the Digital Responsibility Goals – virtually @ European Parliament



How can we be sure?
Through Monitoring and measuring.



Making progress visible. Through Digital Responsibility Reports.



Our first strategy paper.
Published on February 22nd at eco HQ.



”

Developing the Digital Responsibility Goals was started by a consortium - consisting of academics, NGOs, and industry experts - and will be further refined continuously in a multi-stakeholder approach.

“

Our very first analysis. Digital Responsibility Goals and Gaia-X.



”

One of the key initiatives to establish digital eco systems is Gaia-X with its firm promise to be open, transparent, sovereign, fair, independent, inclusive, free, federated, innovative and evolutionary.

“

Our very first analysis. Digital Responsibility Goals and Gaia-X.

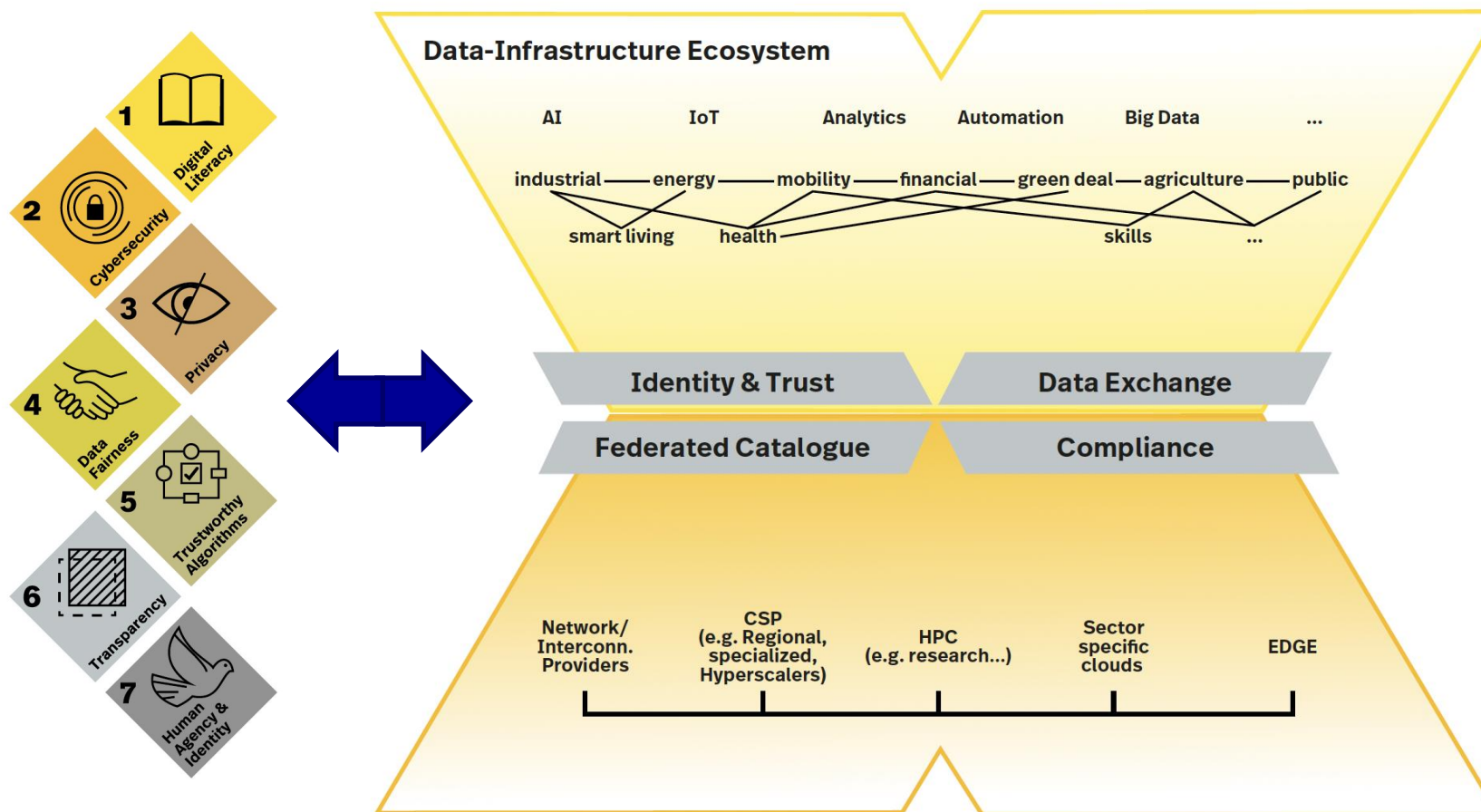









Figure: The Gaia-X Data and Infrastructure Ecosystem
Source: <https://www.bmwi.de/Redaktion/DE/Artikel/Digitale-Welt/dateninfrastruktur.html>

Digital Responsibility Goals and Gaia-X.

Our initial assessment.

	Guiding Criteria of DRGs	Policy Rules Document	Gaia-X Architecture Document	Data Space Business Committee	Initial assessment	
1	 Digital Literacy	X	X	/	/	X is not explicitly mentioned
2	 Cybersecurity	✓	✓	/	✓	/ is mentioned, but not fully according to DRG guiding criteria
3	 Privacy	/	✓	/	✓	✓ is mentioned in the full scope of the DRG guiding criteria
4	 Data Fairness	/	/	✓	✓	
5	 Trustworthy Algorithms	X	X	/	/	
6	 Transparency	/	/	/	/	
7	 Human Agency & Identity	X	X	X	X	

Status: January 2022

Panel-Discussion and Download of full papers:

<https://www.gxfs.eu/panel-discussion-on-digital-responsibility-and-gaia-x/>

Digital Responsibility Goals & Gaia-X.

“Digital responsibility is a complex topic and we at eco are pleased that Identity Valley wants to take on the challenge and make digital responsibility measurable. Gaia-X is on the right track and already addresses important elements of digital responsibility, but there is also still room for improvement.”*

Andreas Weiss

Member of the Executive Board & Lead for Digital Business Models
eco Association of the Internet Industry



*February 22nd 2022 – Public Launch of the Digital Responsibility Goals strategy paper & A first analysis of Gaia-X – virtually @ eco HQ Cologne



Digital Responsibility Goals & Gaia-X.

...“When I read this research I found it extremely interesting because it’s the translation of the social responsibility into digital responsibility where our world is transitioning from a physical ecosystem into a digital or augmented ecosystem. So it makes perfect sense.” ...

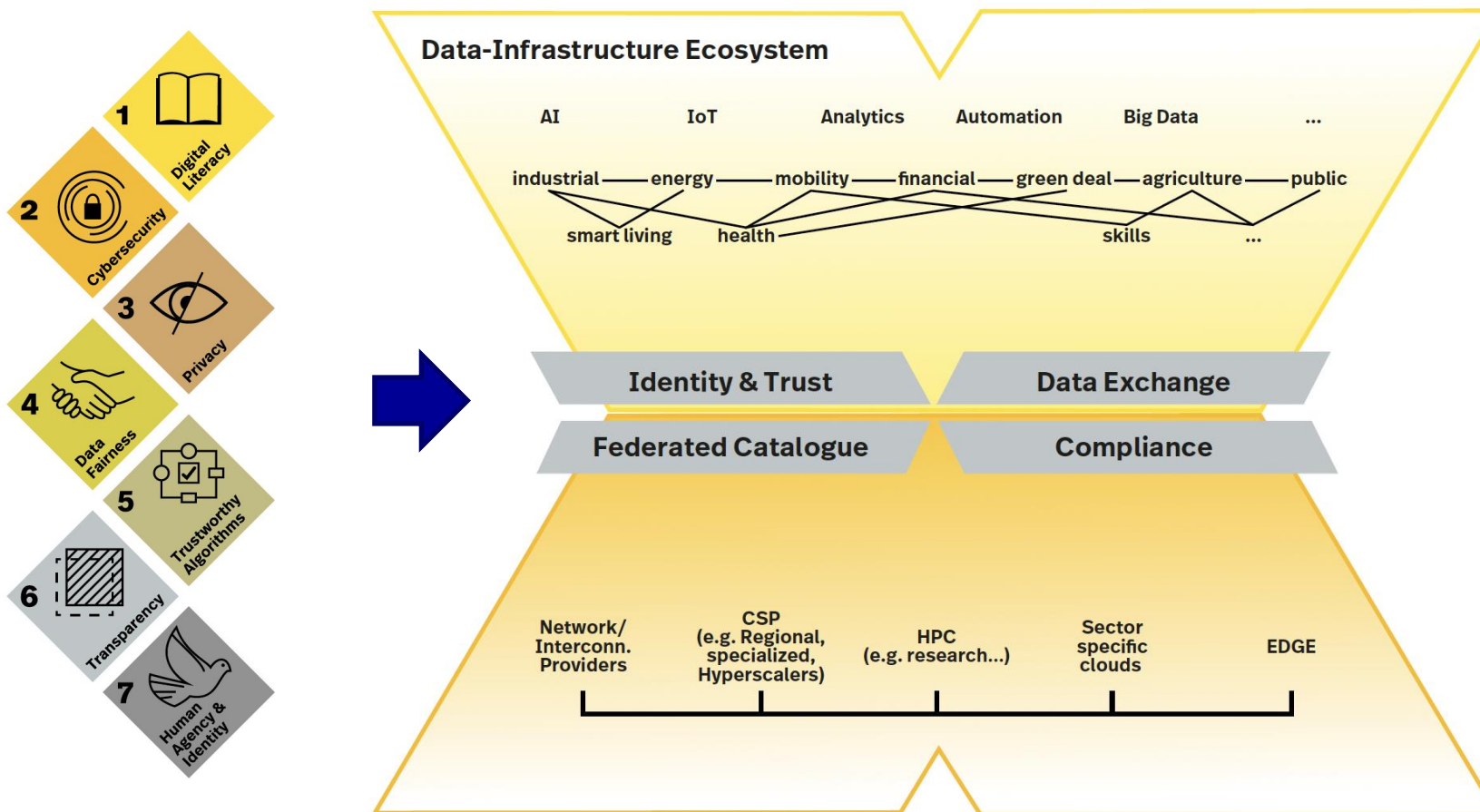
Francesco Bonfiglio

CEO

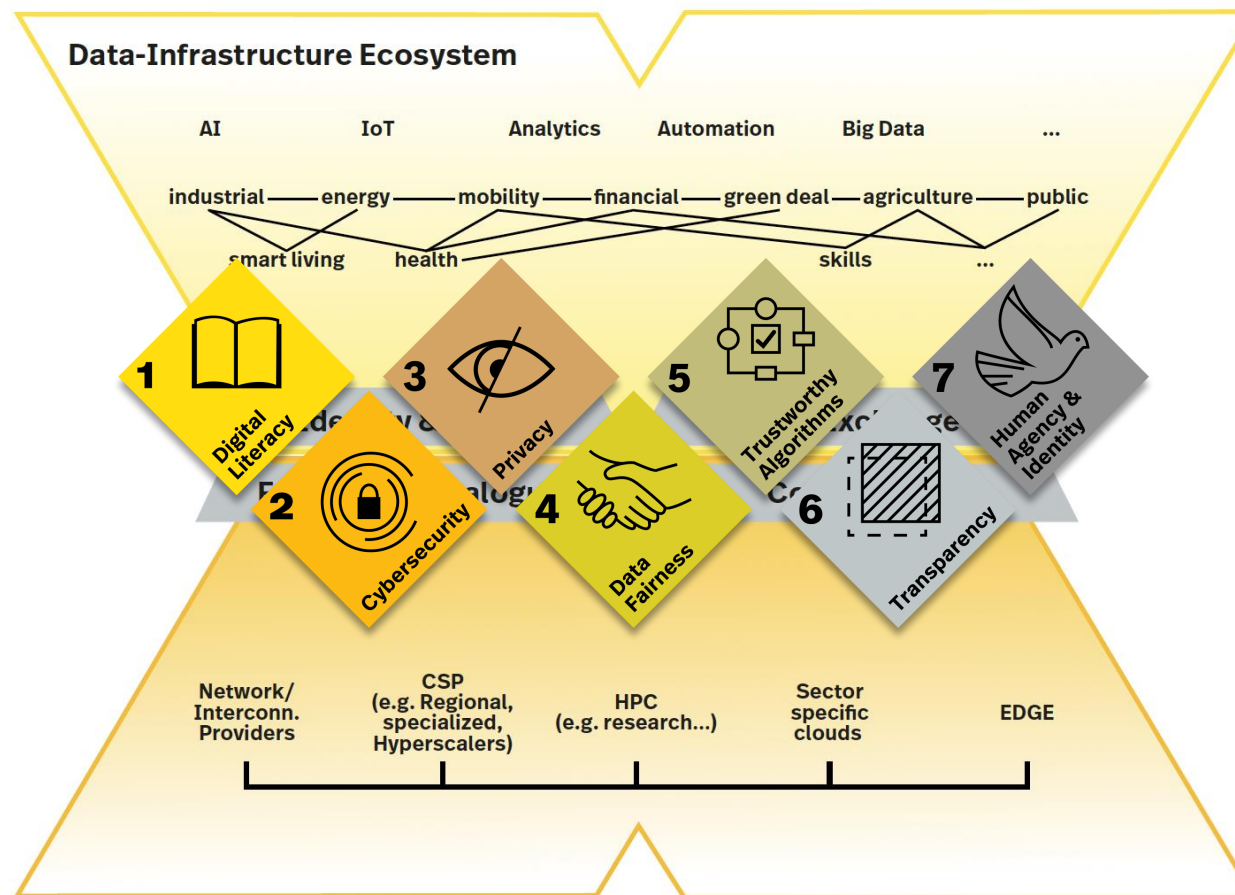
Gaia-X



Digital Responsibility Goals & Gaia-X.



Digital Responsibility Goals & Gaia-X.



Digital Responsibility Goals & Gaia-X.

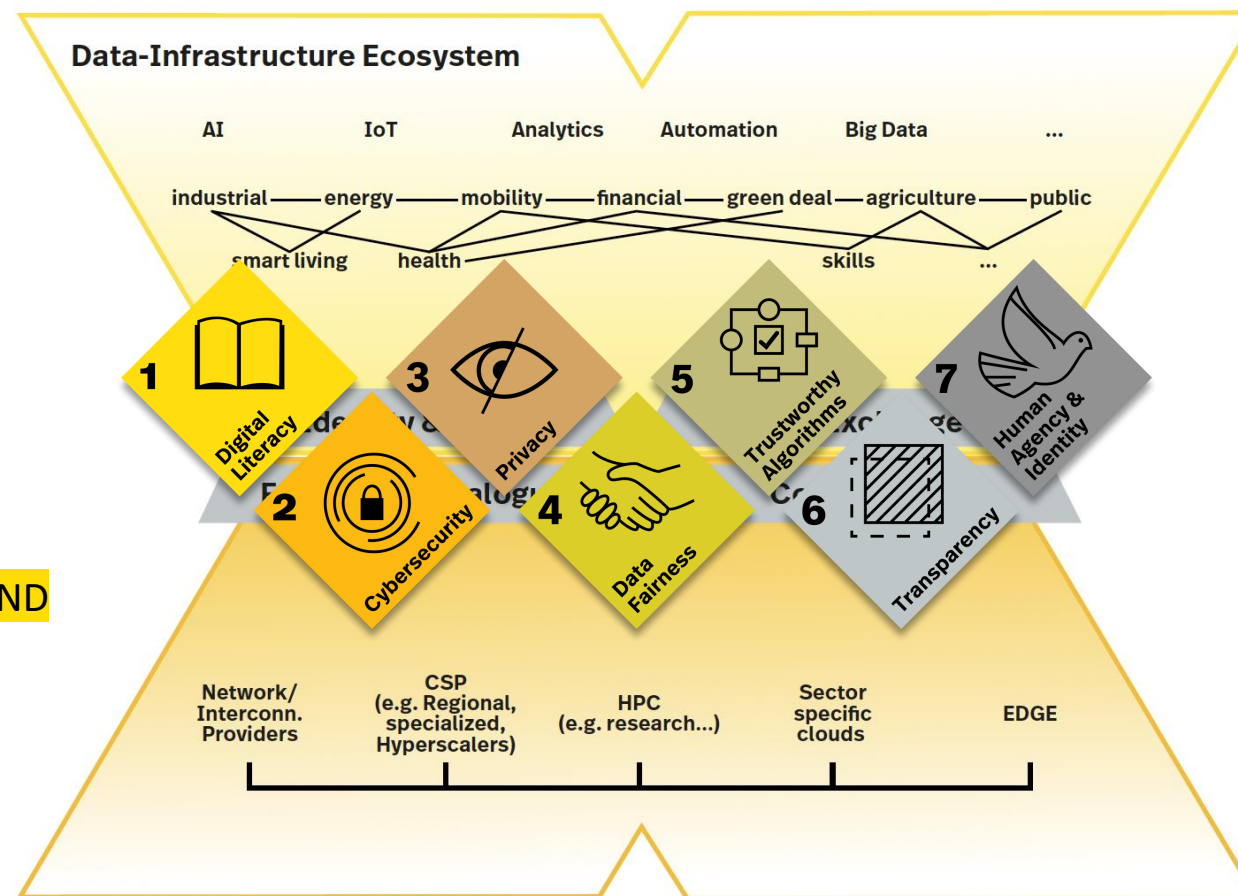
Current research project(s).



IDV & DRGs are essential parts of the consortium & ecosystem in TEAM-X AND



honorary contributors within the Patient Advisory Board of HEALTH-X



Supported by:



on the basis of a decision by the German Bundestag

TEAM-X. Trusted Ecosystem of Medical Data eXchange.



WP 2
Determination of
the general conditions
and the need for action
based on the GAIA-X
philosophy

WP 1
Framework-
conditions
and
use case
Definition

WP 6
Project Management,
Communication and
Transfer

WP 3
Concept GaiaONE,
GaiaCLOUD in nursing
and women's health
along Gaia-X

WP 4
Implementation
GaiaONE,
GaiaCLOUD
and Interweaving
of both approaches

WP 5
Accompaniment,
evaluation,
Innovation
and transfer
into ecosystem



Project Coordinator
Sebastian Hilke
Bayern Innovativ GmbH
sebastian.hilke@bayern-
innovativ.de

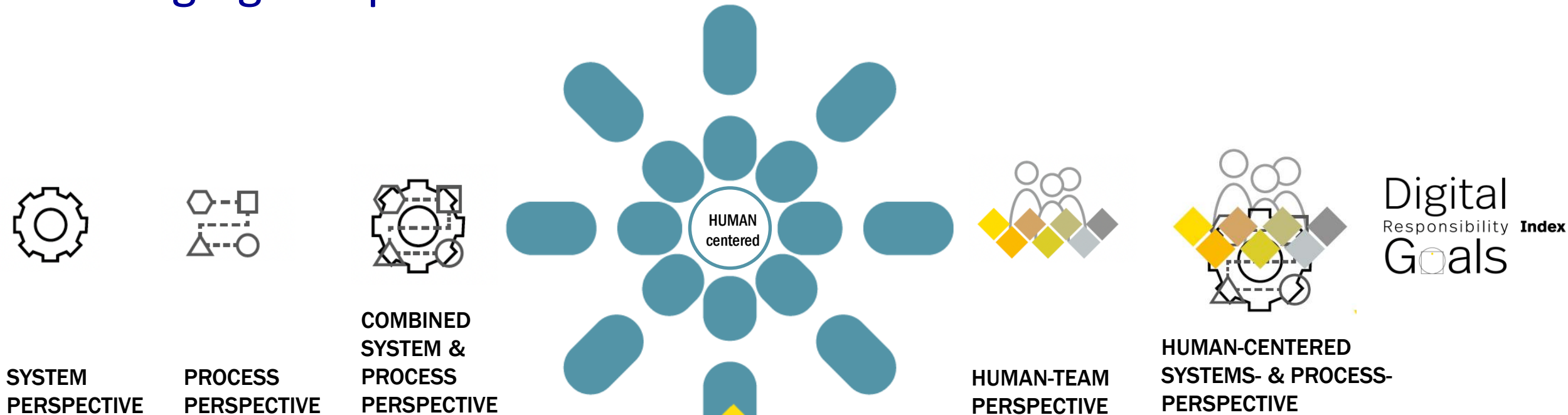
Project Spokesperson
Prof. Björn Eskofier
FAU Friedrich-Alexander-
Universität Nürnberg, MAD
bjoern.eskofier@fau.de

Supported by:



on the basis of a decision
by the German Bundestag

DRGs and TEAM-X. Changing Perspectives.



Digital
Responsibility Index
Goals

The Digital Responsibility Goals not only combine the systems- and process-perspective within TEAM-X, but also...

... add the human dimension through a human centered perspective. This is how the DRG Index will be generated in an overall holistic approach along all DRG Criteria.

DRGs and TEAM-X.

New ways of governance, tools and responsible leaders mindsets.

Governance in process

- Digital Responsibility Guiding Criteria
- Digital Responsibility Community
- Impact Assessment Committee
- Digital Responsibility Index - approaches to monitoring and measurement identify for fulfillment along the guiding criteria.
- Sector-specific further development of guiding criteria: DRG4Health
- Digital Responsibility Report
- Code of Conduct based on:
 - ❖ Innovation
 - ❖ Collaboration
 - ❖ Openness



Tools in the system

- Integration in Issue Tracker
- Integration in templates
- Development of a Digital Responsibility Canvas
- Database with examples of digital responsibility along the use cases

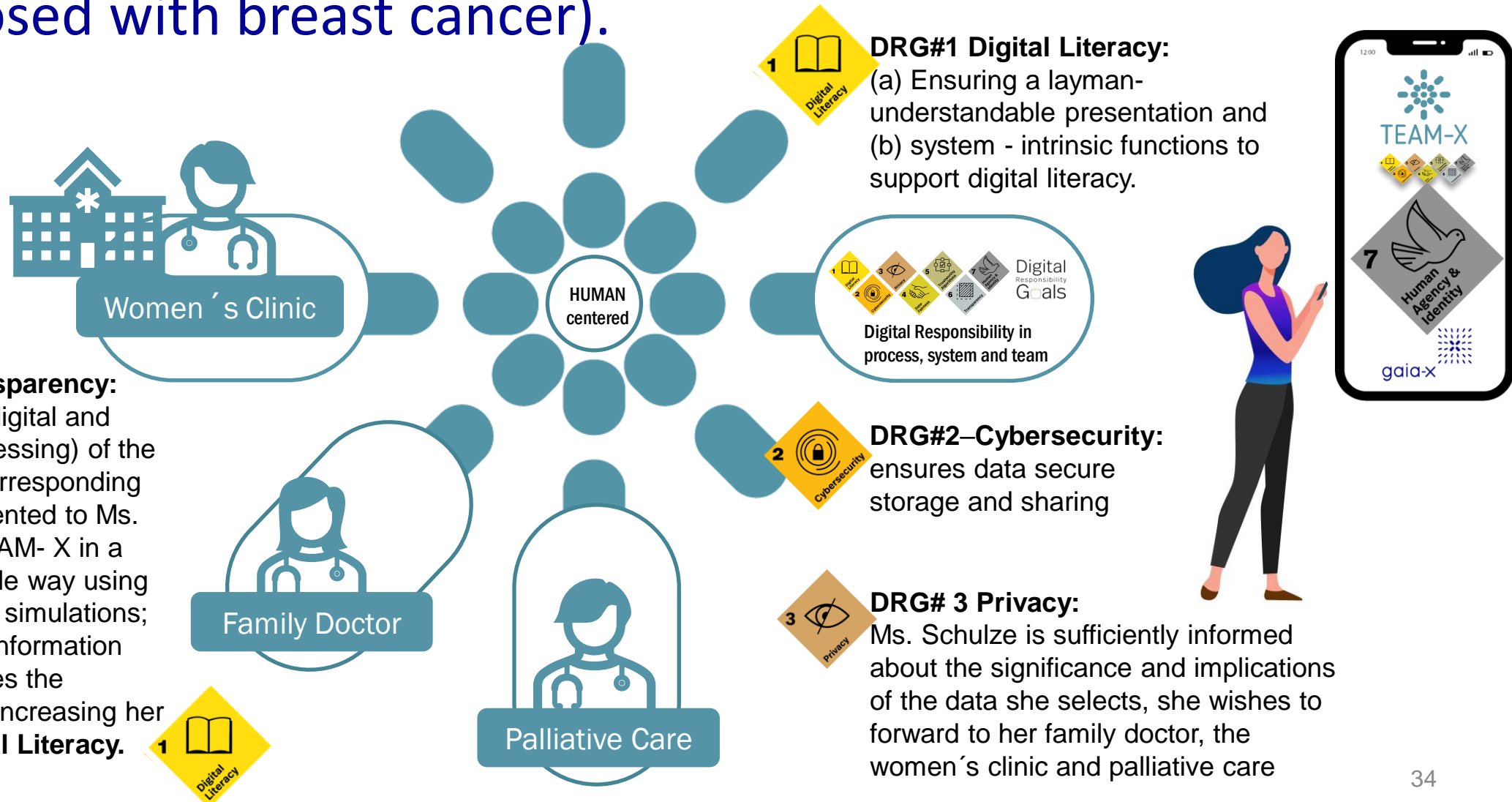


Mindset & Skills from the Team

- Expansion of digital literacy in the team
- Expansion of digital literacy among users and in the ecosystem as a whole
- Digital responsibility dialogues at state, national and European level
- Responsible leadership training
- Building an interdisciplinary digital responsibility community
- Understanding and implementing digital responsibility as a competitive advantage



DRGs and TEAM-X. Accompanying Ms. Schulze (diagnosed with breast cancer).



one more thing...

Digital Responsibility Goals & European Digital Rights and Principles.

..."It is **with great interest** that we read about your initiative aiming to establish a sustainable digital agenda based on human rights and values. **Your project is very timely**, in particular in light of the Commission's work on a **Declaration on Digital Rights and Principles.**" ...



Margrethe Vestager
Executive Vice-President
European Commission



*January 12th 2022 – Personal letter to Ms Meier, responding on a letter of several initiatives calling the EC to have a look at the DRGs



Thank you!

Let's get in touch:

 www.identityvalley.org

Identity Valley.

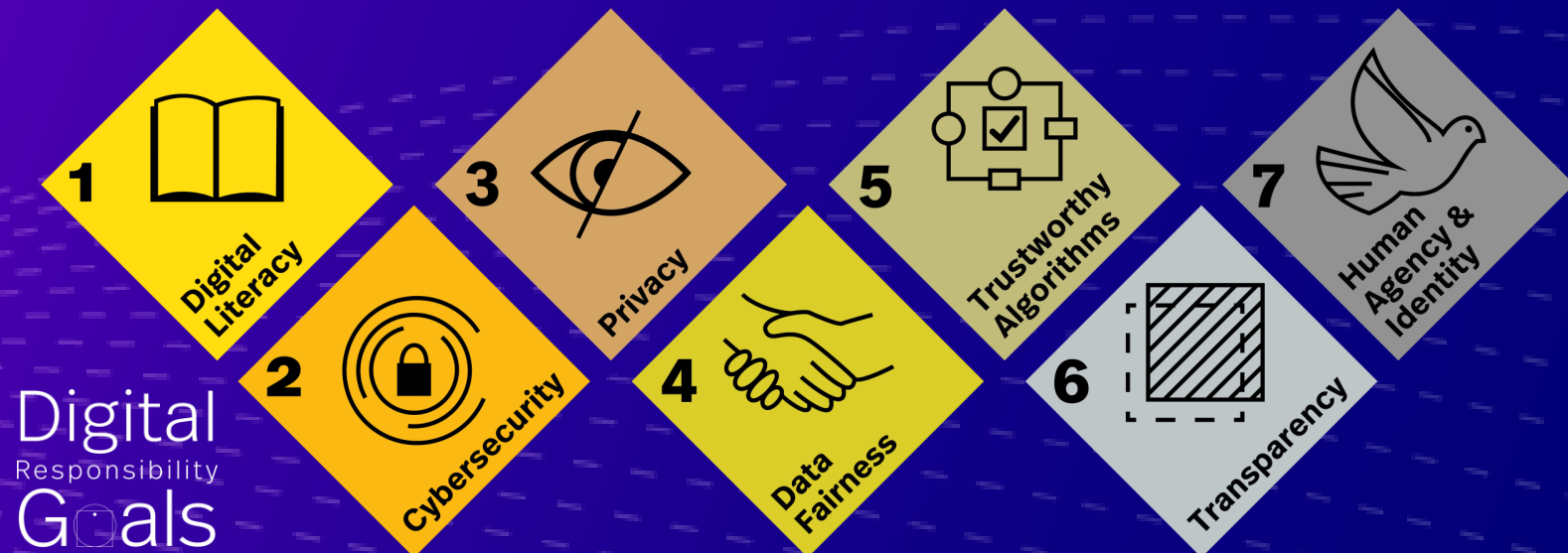
It's all about trust.



Jutta Juliane Meier

jj.meier@identityvalley.org

<https://www.linkedin.com/in/juttajulianemeier>



Data Altruism and Citizen Trust



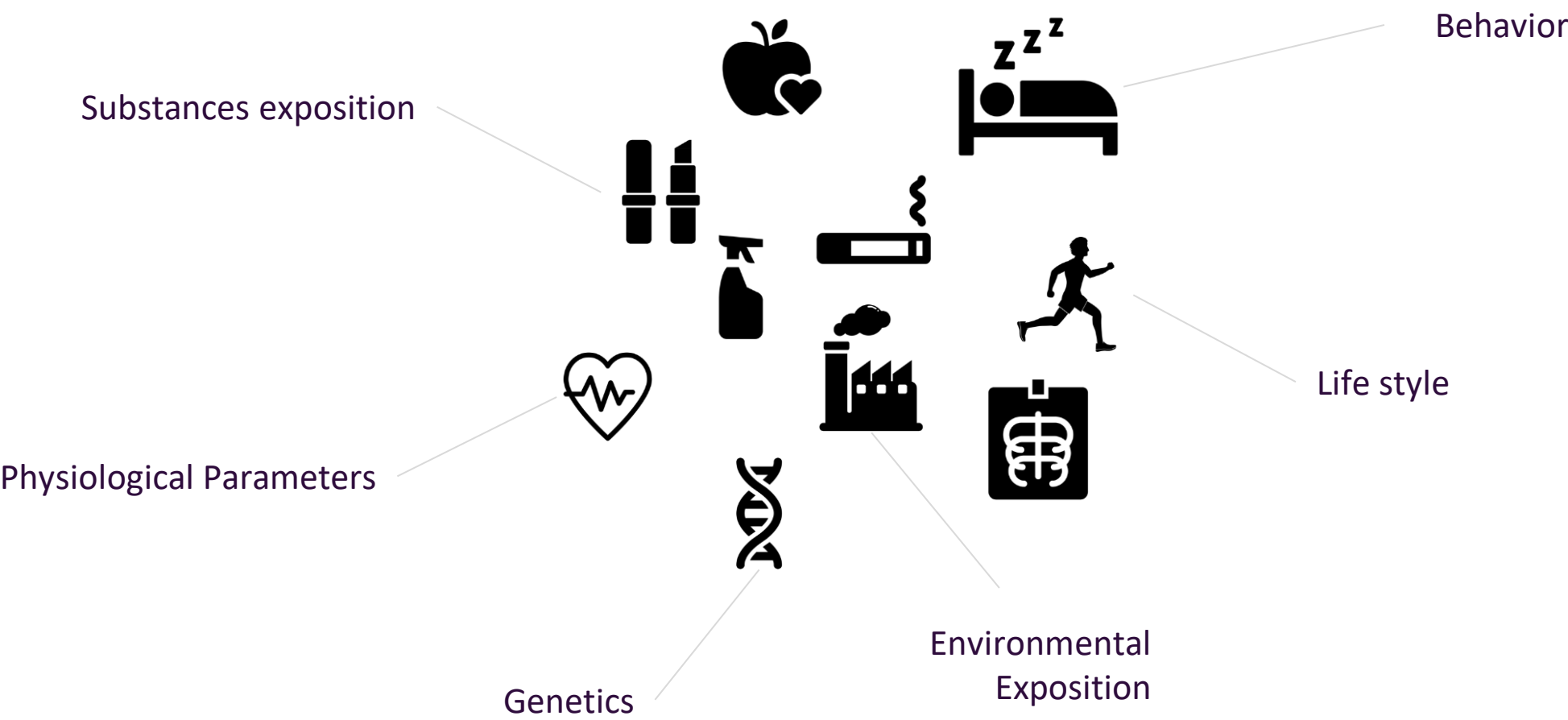
- **Joan Guanyabens, Founder SALUSCOOP**

www.salus.coop

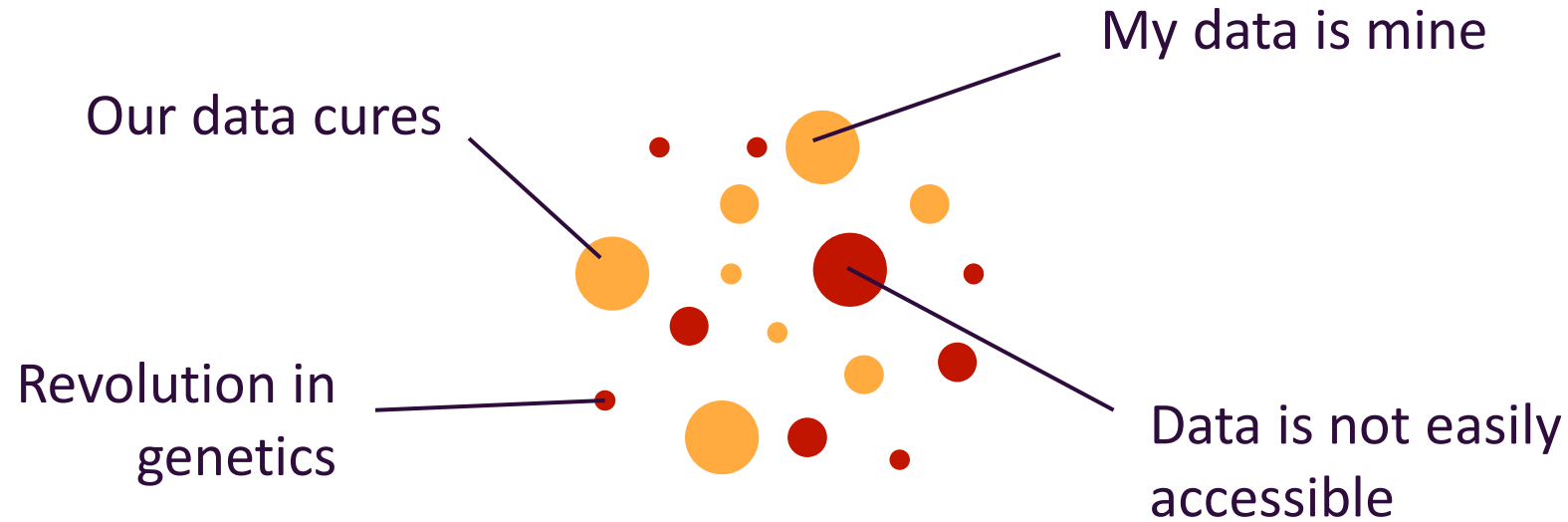
Our data cures



Understand Diseases



Our vision



Changes in the capacity of
citizens and social
demands

Data-driven innovations in
technological developments
& research

Economic pressure on public
health systems



SALUS.COOP

Citizen Initiative

New data Institution

**Citizen data cooperative for health
research**

Data Donors for common good

- 1- Accelerate research with projects aimed at improving quality of life of all.
 - 2- Promote digital heritage awareness as a form of collective empowerment.
 - 3- Empowering ourselves as citizens through research projects to make us feel:
Deciding with whom we share data.
In what terms do we do it.
-

Our vision



EMITTER



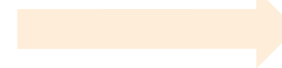
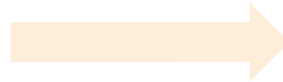
**CITIZENS AS DATA DONORS
& ADMINISTRATORS**



RECEIVER

DATA KEEPERS

- Public health centres
- Private health centres
- Apps/ wearables/ devices
- Personal



DATA USERS

For conducting research

- Research centres
- Universities
- Research units in companies

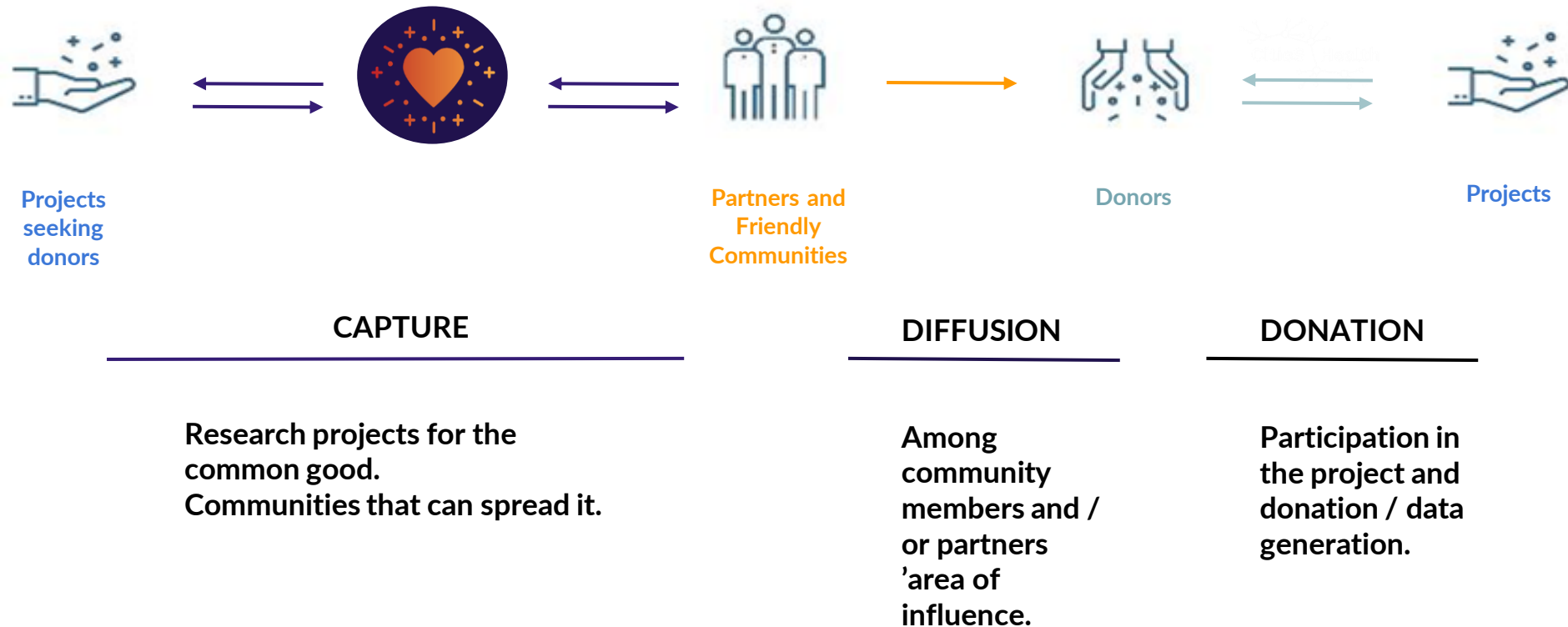


SALUS CG LICENSE

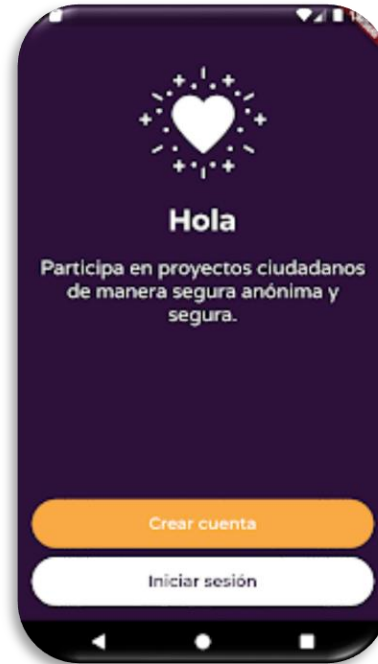
Salus Common Good Data License for Health Research

- 1 Only health:** your data will only be used for research of chronic and rare illnesses.
- 2 Non-commercial:** research projects will be promoted by entities who support general interest such as public institutions, universities and foundations.
- 3 Shared results:** results of the research will be accessible at no cost.
- 4 Maximum privacy:** all data will be anonymized prior to use.
- 5 Complete control:** you will be able to cancel or change the conditions under which your data can be accessed at any time.

How SalusCoop works?



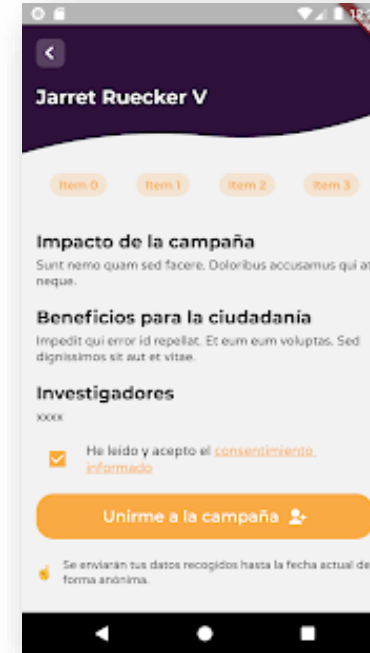
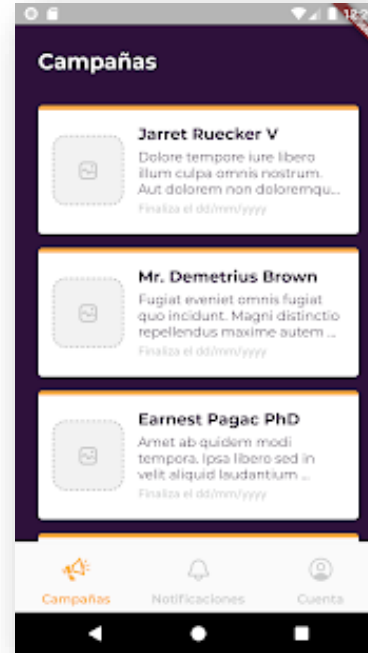
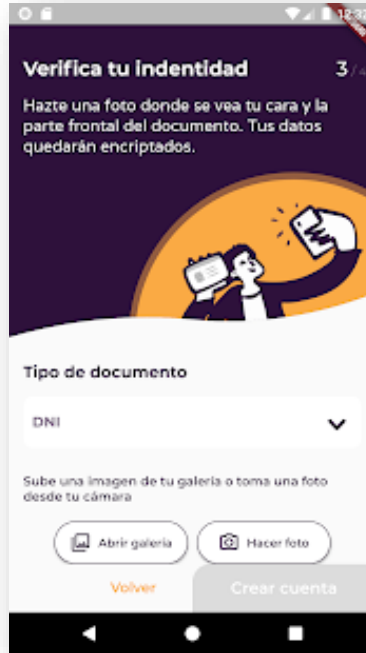
SalusCoop: App & Web Application (back office)



We use technology, blockchain, to ensure security, transparency, data immutability and auditability, all within a trusted distributed environment that guaranties:

- the identity of the participants
- no intermediary has access to the shared content
- privacy and access control to captured data

App for Donors



- ✓ Registration and identity verification of volunteers (KYC), generating a tokenized (anonymized) identity.
- ✓ Transparently captures data from surveys and habits data from Google Fit (Android) and Apple Health (IOs) devices
- ✓ Volunteer subscribes to research campaigns to which they give their data

Web Application (back office) for Researchers

The image displays a web application interface for managing research campaigns. It features a table of campaigns, a detailed view of a specific campaign, and a data export section.

Campaigns Table:

Nombre	Investigador principal	Periodo de ejecución	Fecha de creación	Estado	Acciones
CitieS-Health	Researcher Example	del 01/11/2021 al 31/12/2022	09/11/2021	Activa	
		del 08/11/2021 al 30/11/2021	08/11		
		del 10/10/2021 al 31/12/2021	29/10		
		del 01/11/2021 al 30/11/2023	17/09		

CitieS-Health Campaign Details:

Activa del 01/11/2021 al 31/12/2022

Etiquetas: covid, salud mental, contaminación, estrés

El proyecto investigará cómo la contaminación atmosférica o el uso de espacios verdes influyen las variaciones en estado de ánimo, estrés y calidad del sueño, y si esas influencias varían según la evolución de la pandemia de COVID-19 y según cómo haya afectado la pandemia a cada persona. Los participantes contestarán un cuestionario diario breve (menos de 5 minutos) durante 2 semanas y los datos se cruzarán con mapas de contaminación y espacios verdes.

<https://www.citieshealthbcn.eu/>

Summary: 3 usuarios unidos, 12382 pasos

Datos recopilados: [Exportar](#)

Usuario ID	Localidad usuario	Pasos	Distance	Fecha
-	Barcelona	3940	1824 m	01/11/2021
-	Barcelona	7923	4853 m	02/11/2021
-	Barcelona	10548	6636 m	03/11/2021
-	Barcelona	5752	3523 m	04/11/2021

Campaign Creation Form:

Datos generales | Datos de investigación | Sujetos y datos del estudio | Consentimiento

Nombre de la campaña *: CitieS-Health

Imagen de la campaña: [Seleccionar archivo](#) | Ningún archivo seleccionado

[Ver fichero actual](#)

Página web del proyecto *: <https://www.citieshealthbcn.eu/>

Palabras claves *: covid, salud mental, contaminación, estrés (Máx. 5)

Impacto de la campaña *: La relación entre variables ambientales y diferentes parámetros de salud mental se ha estudiado poco y la evidencia disponible es todavía limitada. El presente proyecto contribuirá a aportar nueva información sobre la posible asociación entre (Máx. 100 palabras)

- ✓ Research centers:
- ✓ Generates and manage research campaigns and view and export all anonymized data collected by volunteers who have subscribed to the research campaign





Governance Personal Data



The question is who owns data ? Sovereignty: control and use.

“We have lost control over our personal data” Sir Tim Berners-Lee

ALTERNATIVE MODELS

Data sharing pools:		Data as a market commodity
Data cooperatives:		Self-managed, horizontal
Public data Trust:		Data is part of a public infrastructure
Personal data sovereignty:		Reducing influences in favour of technology

Governance personal data - Conclusions



With emerging data, **social science and a citizen perspective** on data governance are needed to balance and reduce power asymmetries. A single model is not the solution but **civil and public society must be there**

Europe as the world leader in a fair and competitive digital economy for an open, democratic and sustainable society

Political-technical agreements to redistribute the value generated from the data

Consent Management and Data Agreements



- **Lal Chandran**, Co-Founder and CTO, iGrant.io (Sweden)

Contents

- What is consent? Characteristics of consent
- What drives the need for consent? What are data agreements?
- Role of data intermediaries in data agreement handling
- Data Agreement lifecycle
- Key actors and use cases
- Universal agreement workflow (e.g. with consent as a legal basis)
- Health sector use case examples

What is consent? Characteristics of consent

is a **voluntary** declaration of intent, from which a person is **free** to **withdraw** at any time

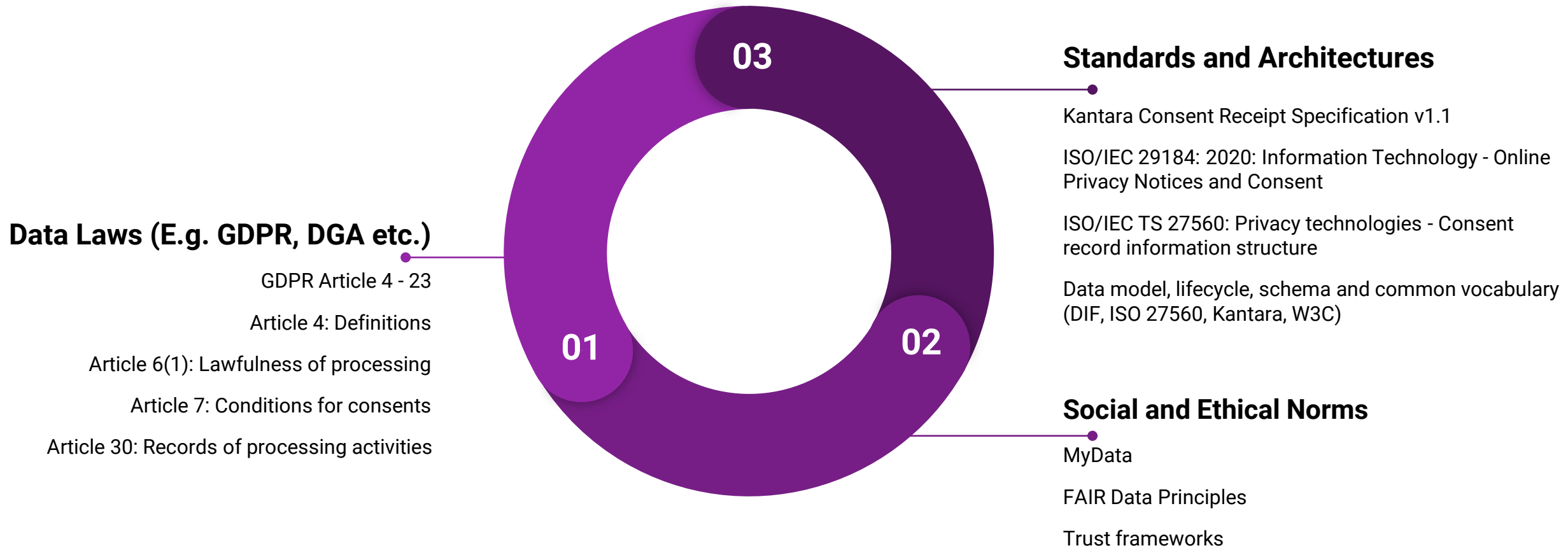
For individuals:

- **freely given, informed** and **unambiguous**
- can **opt-in** anytime through various medium
- can view and **opt-out** anytime

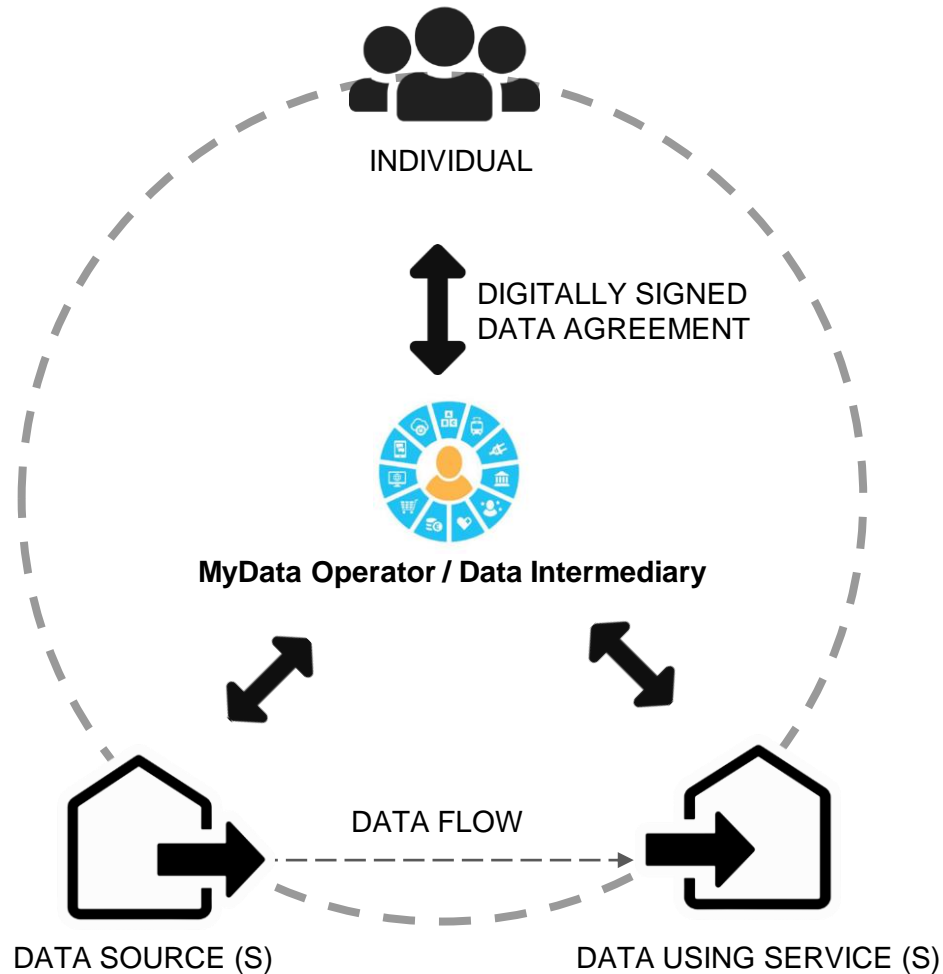
For Organisations:

- Consent is **specific**. Provisions of consent is clearly distinguishable from terms and conditions
- **Demonstrating consent** is on the data controller
- **Withdrawal** of consent shall be as easy as granting of consent
- Consent **may not be conditional** on unnecessary processing → A consent is tied to a usage purpose that the data subject can opt out

What drives the need for consent?



Role of Data Intermediaries in data agreement handling



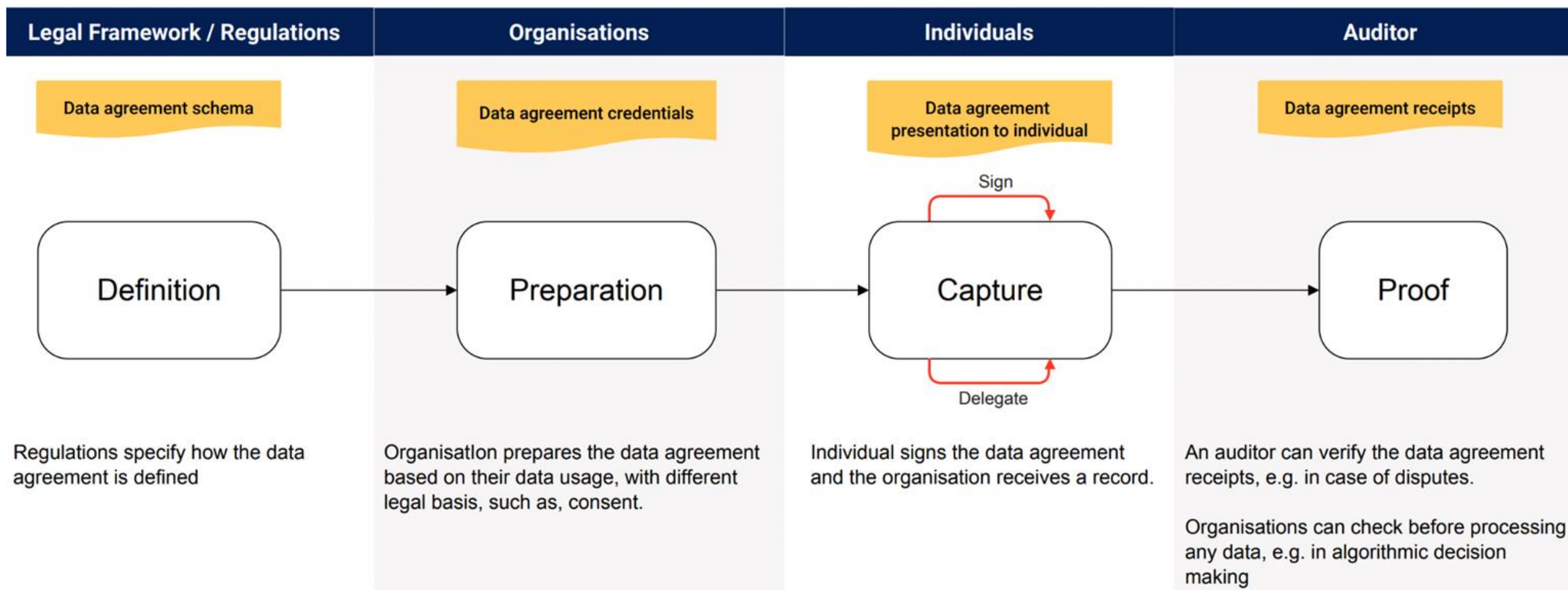
MyData Operator or a Data intermediary manages

- Permissions / Consents /Data Agreements
- Personal Data Transfer

Individual agrees to sharing data → a personal data wallet (in real-time) or via other mechanisms

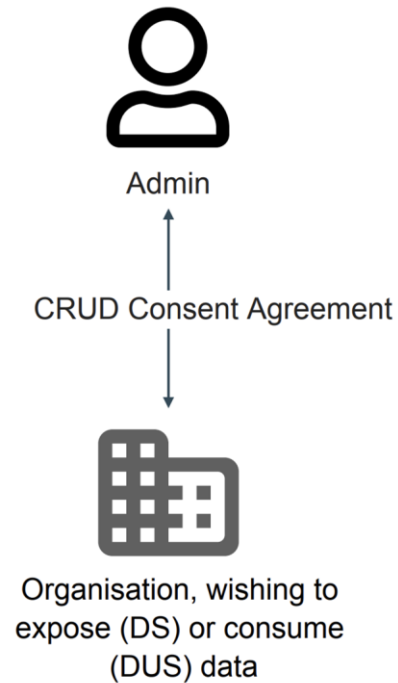
Credentials could be stored for e.g. in a decentralised data wallet app (dApp) or it can be based on centralised identifiers

Data agreement lifecycle



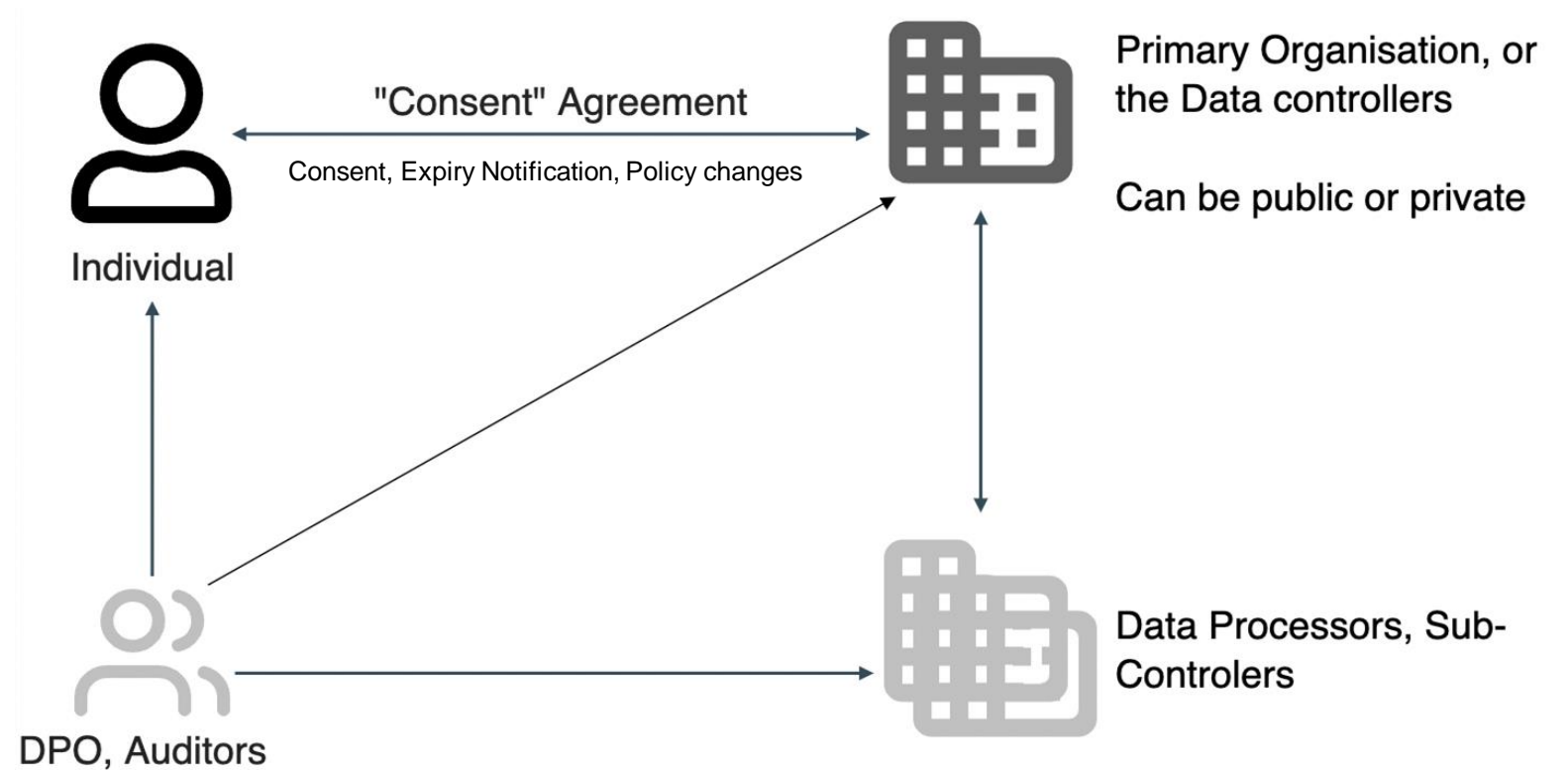
Key actors and use cases

Organisation Administrator



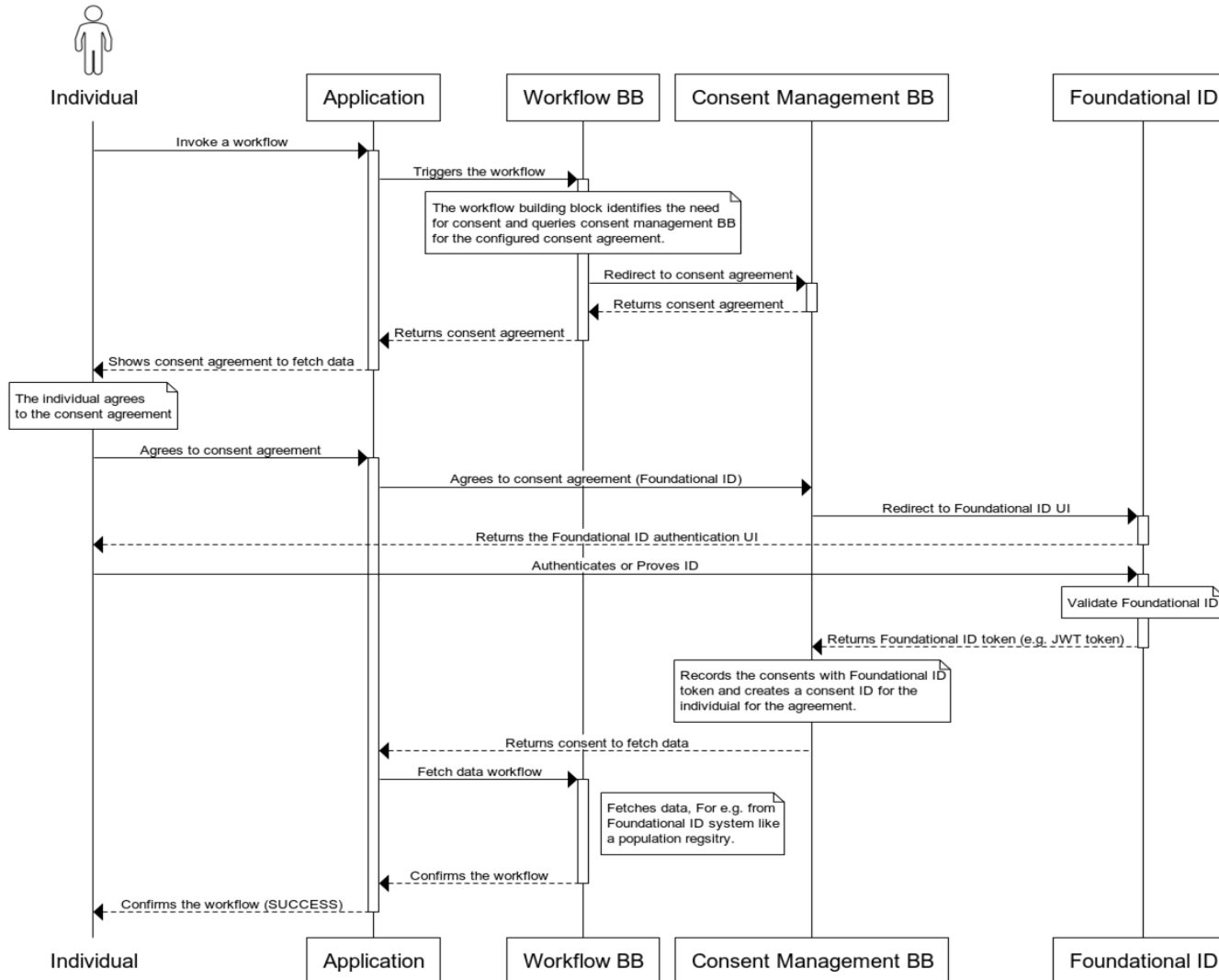
*CRUD = Create/Read/Update/Delete

Individuals and Auditors



Universal agreement workflow

(e.g. with consent as a legal basis)



Key considerations

- Applies to the processing of personal data during a digital transaction
 - Internal processing
 - Data sharing during registration
 - Data sharing post-registration
- Can be plugged into any workflow
- Rights-based approach
- Supports centralised (OAuth based) and decentralised architectures like SSI with data wallets

Health sector use case examples



Personalised care



Aggregation for self-care



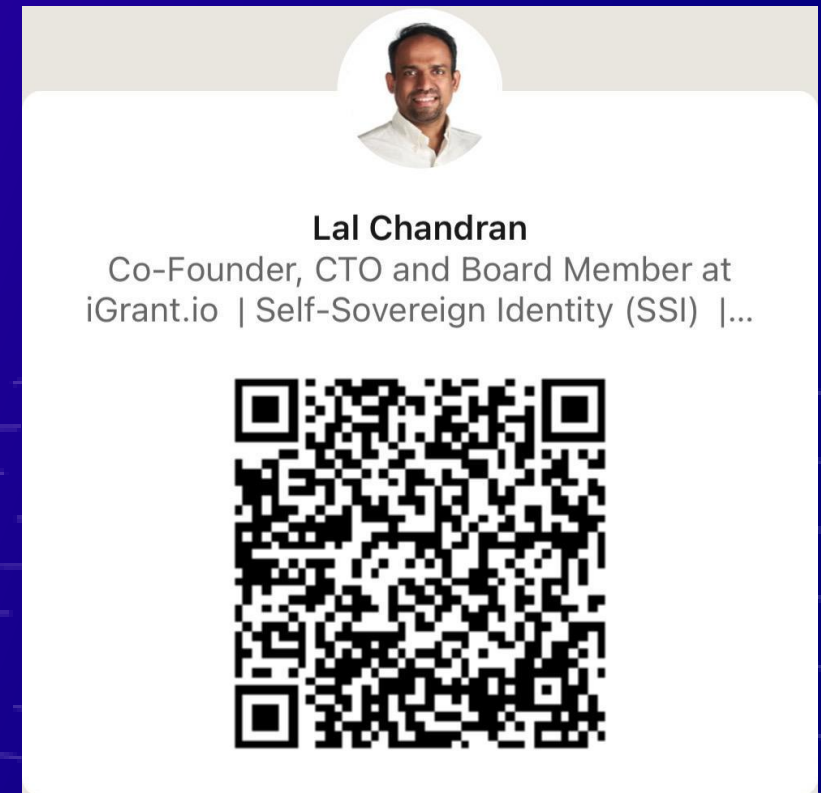
Data sharing for registration



Consents for e.g. research

Thank you!

- **Twitter: @lalchandran**
- **Email: lal@igrant.io**
- **Mobile: +46725298991**
- **iGrant.io, Sweden**



eIDAS : Trusted Digital Identity



Dr. Dominik Deimel,

CEO / Founder
comuny GmbH

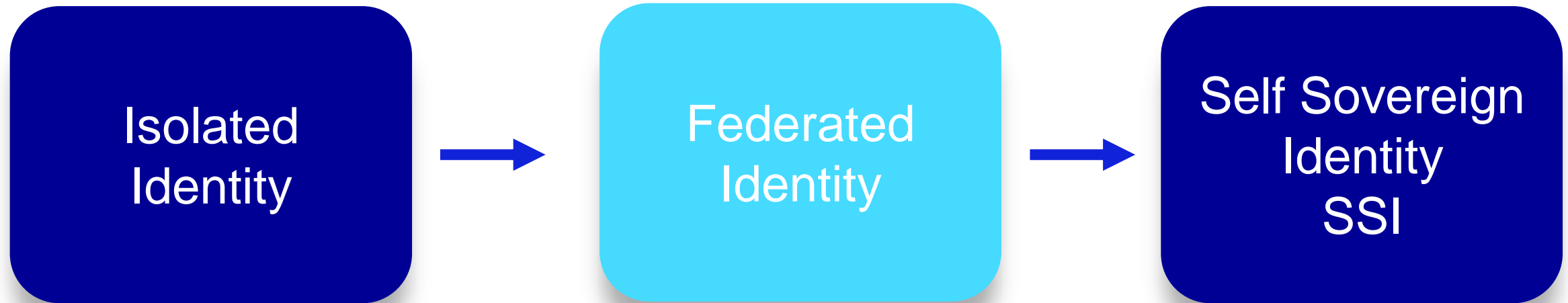
Member of MyData global
Initiator MyData German hub



Significance of digital identity for citizens



Roadmap Identity Management



EU eIDAS Regulation Framework



eIDAS 1.0 - 2014

POLICY AND LEGISLATION | Publication 02 September 2014

Publication of the Regulation on electronic identification and trust services for electronic transactions in the internal market

eIDAS 2.0 – coming now

Press release | 3 June 2021 | Brussels

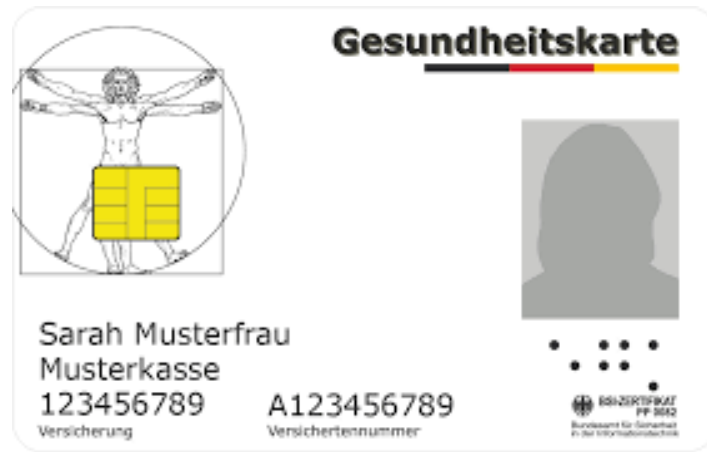
Commission proposes a trusted and secure Digital Identity for all Europeans

10 principles of self sovereign identity management

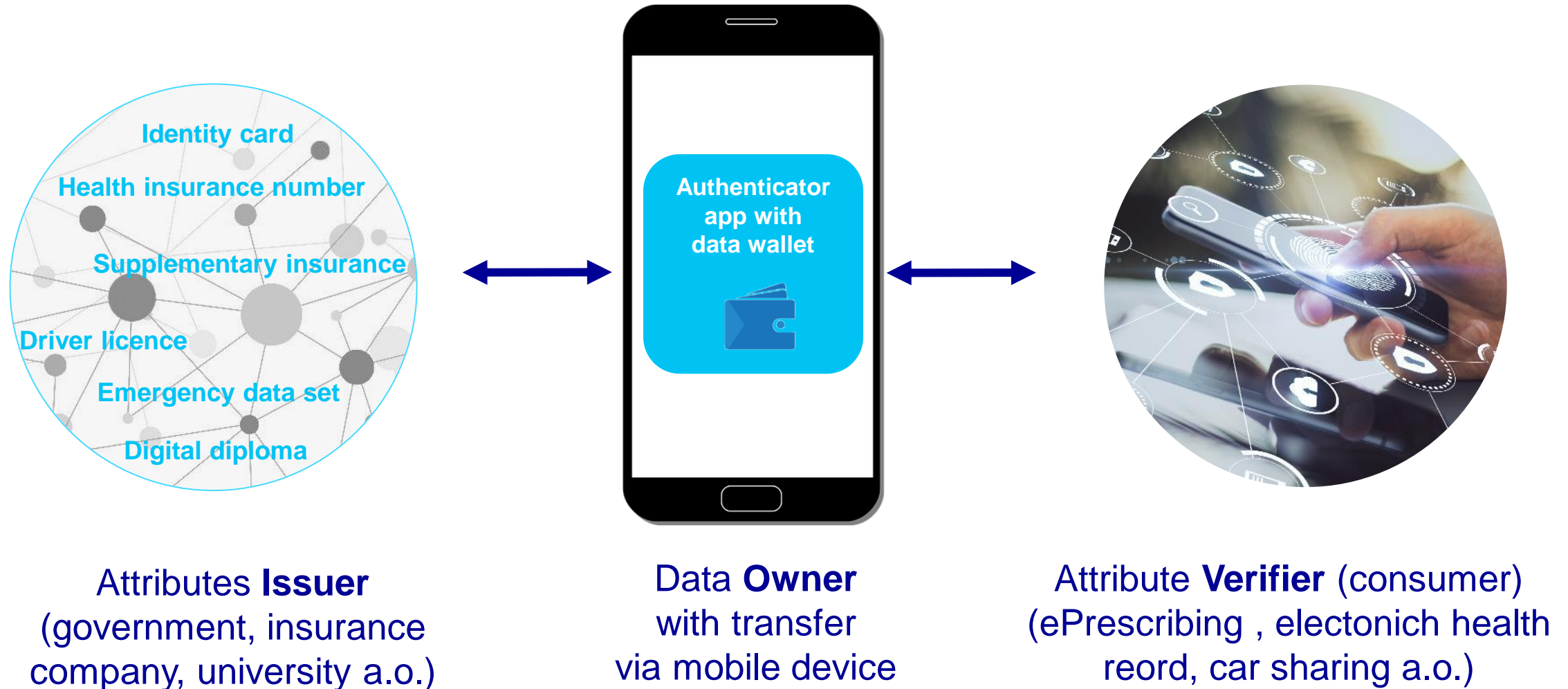


Existence
Control
Access
Transparency
Persistence
Portability
Interoperability
Consent
Minimization
Protection

Mobile phone replaces electronic health card



eIDAS 2.0 supports data management via mobile device



Gaia-X Trust Framework



- **Pierre Gronlier**, CTO, Gaia-X

Gaia-X mission



Accelerating our European digital transformation while self-determining our level of autonomy

Legal autonomy

Extraterritorial laws, contract, consent, regulation, KYC, ...

Usage policies

Technical autonomy

Data
(software + dataset)

Hardware

Infrastructure as a Service, PaaS, SaaS, ...

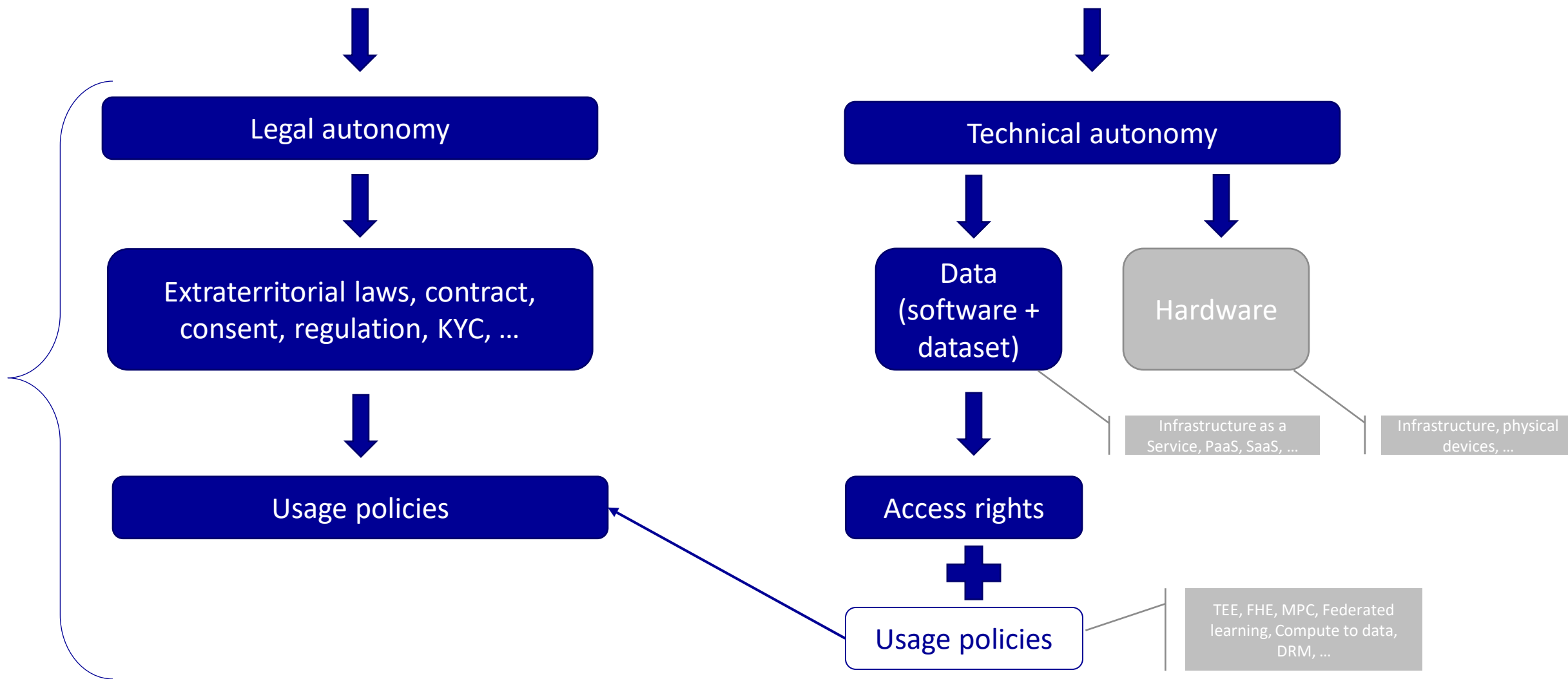
Infrastructure, physical devices, ...

Access rights

Usage policies

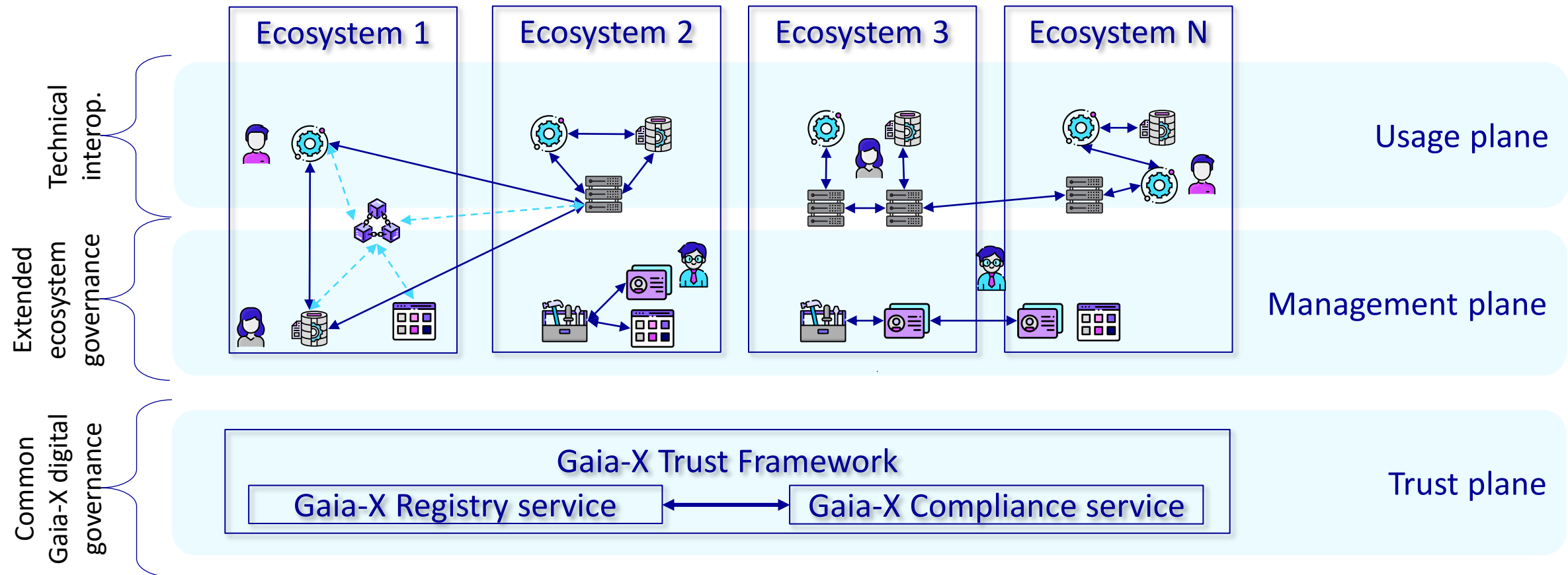
TEE, FHE, MPC, Federated learning, Compute to data, DRM, ...

Common digital governance



One Gaia-X Ecosystem, federating interoperable autonomous ecosystems.

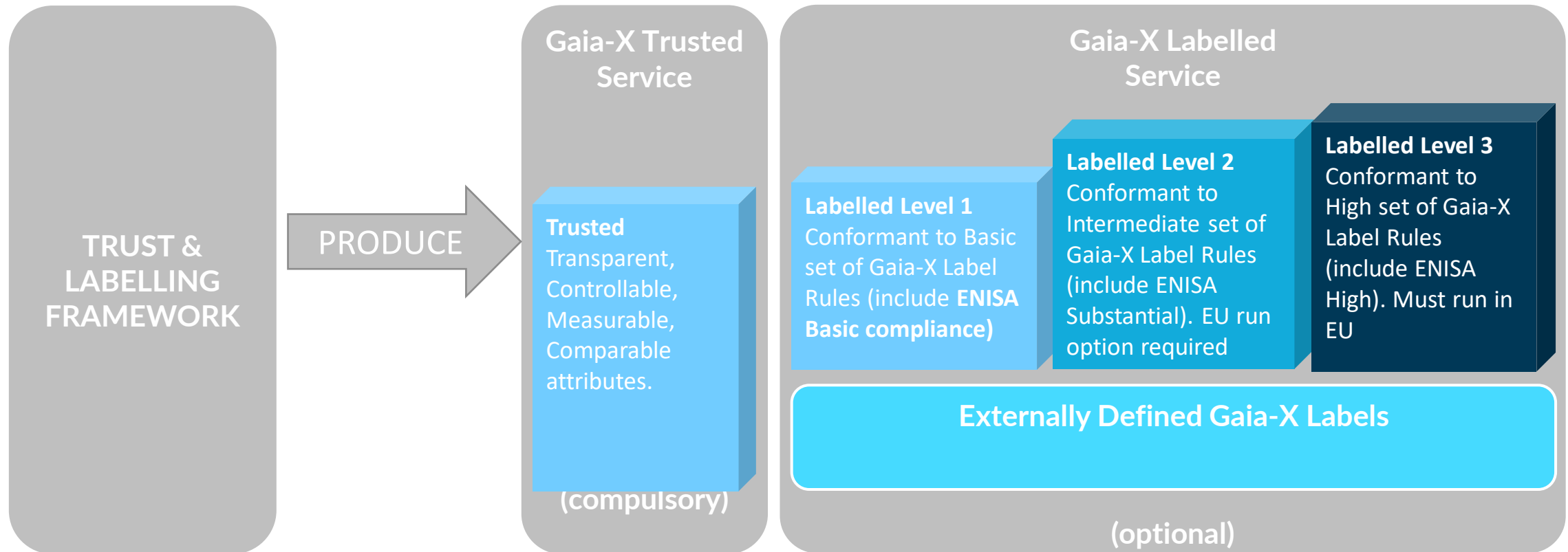
- **Gaia-X Ecosystem:** the virtual set of Participants, Service Offerings, Resources fulfilling the requirements of the Gaia-X Trust Framework.



Today's status



Gaia-X Trust & Labelling Framework

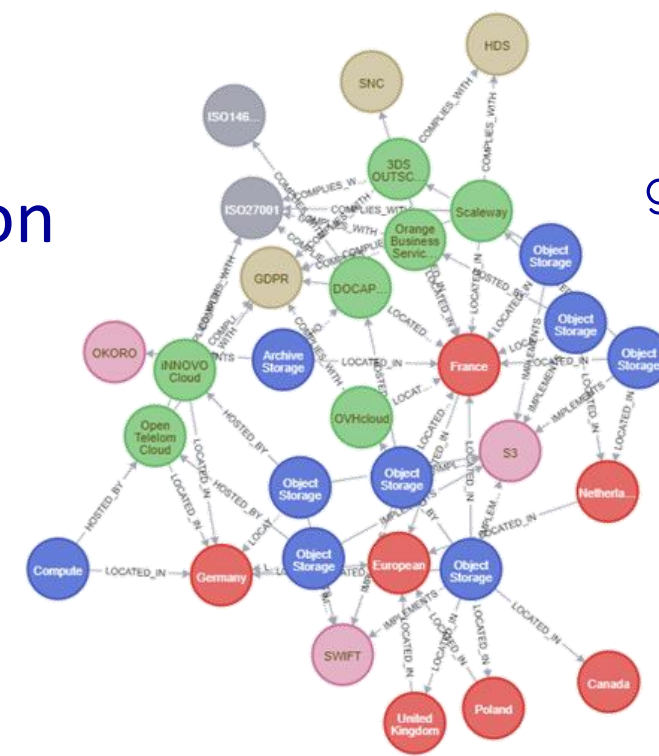


Gaia-X Trust Framework 1/2

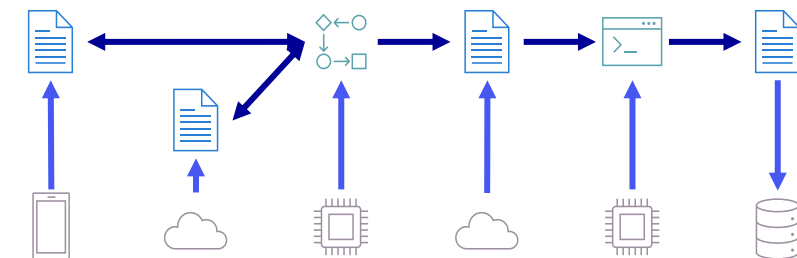
from fragmented market to service composition



- Enable the creation of more complex composite services from atomic or elementary services as well as complex services.
- Ensuring composability and hence substitution
- Creates **Transparency** with portability across providers and hosting platform



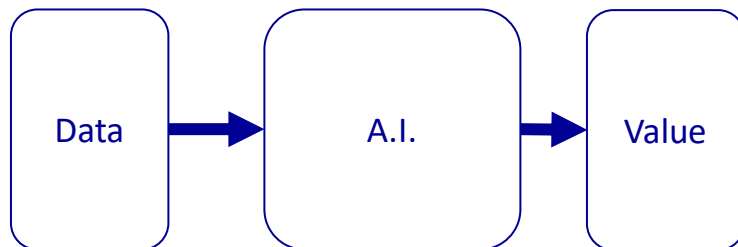
Knowledge graph of verifiable and composable signed claims
(Catalogue demonstrator - March 2020)



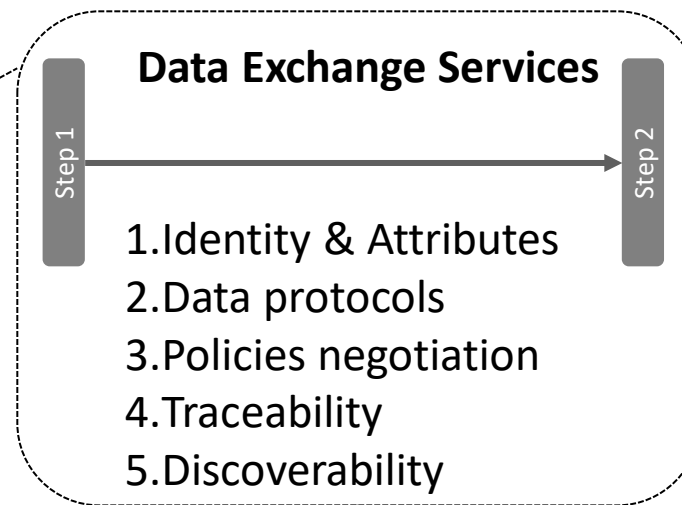
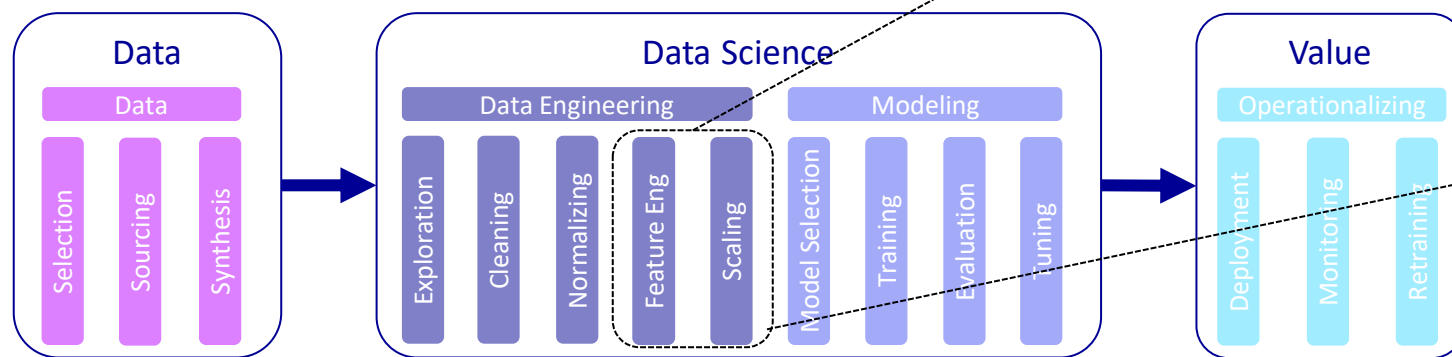
Data pipeline example, from edge (mobile) to cloud

Data Exchange services

What most think A.I. and data processing looks like



How it actually looks like



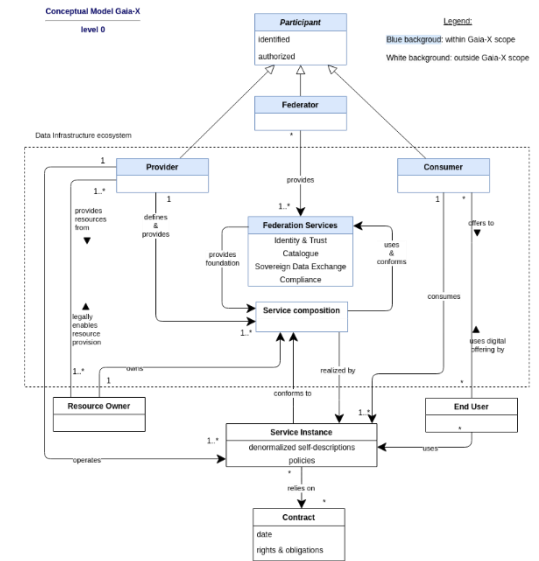
Gaia-X Trust Framework 2/2



To ensure **Trust** the Gaia-X Trust Framework is:

- Automated by Gaia-X specific components part of decentralized technology framework
- Versioned, i.e. bound to a specific version in time of the Compliance rules set
- Applied to the self-description file of all entities implied in the Gaia-X conceptual model (*)
- Aimed to verify the existence and veracity of the attributes and not judging their value

(*) as defined as part of the Gaia-X Conceptual model described in the Gaia-X Architecture document



The content

Verify if the mandatory attributes are filled in and if the values are verified.

Set of claims

attribute: value
attribute: value
attribute: value
.....

The envelop

Verify the keypair issuers and cryptographic signatures

Claims

Machine readable or plain English

Trust Framework example:

- All cars must have a color
- All Datasets must have a location
- All Services must identify their provider with its legal country of jurisdiction.

Label examples:

- cars level 1 are red, cars level 2 are blue, ...
- My dataset must be located in EU
- My services must be non-subject/immune to non-EU laws

```

@context:
  0: {}
  1: "https://w3id.org/security/suites/ed25519-2020/v1"
  cred:id: "vc.gaia-x.eu/membership/pierre.gronlier@gaia-x.eu"
  cred:type:
    0: "VerifiableCredential"
    1: "ParticipantCredential"
  cred:issuer: "did:web:vc.gaia-x.eu:issuer"
  cred:issuanceDate: "2022-01-17T22:42:34Z"
  cred:expirationDate: "2022-01-20T22:42:34Z"
  cred:credentialSubject:
    @context: {}
    @type: "schema:ProgramMembership"
    schema:id: "mailto:pierre.gronlier@gaia-x.eu"
    schema:programName: "Gaia-X AISBL"
  proof:
    0:
      type: "JsonWebKey2020"
      created: "2022-01-17T22:42:34Z"
      jws: "eyJ3b6c101350zI1N19...uK...2aTha506tmk00o0u0q8A"
      proofPurpose: "assertionMethod"
      verificationMethod: "did:web:vc.gaia-x.eu:issuer#JsonWebKey2020-RSA"
    1:
      type: "Ed25519Signature2020"
      created: "2022-01-17T22:42:34Z"
      verificationMethod: "did:web:vc.gaia-x.eu:iss...5519VerificationKey2020"
      proofPurpose: "assertionMethod"
      proofValue: "zSASFWCvpmVQT3WJ9d5Gdyx...qb0Y6nj25yHQ4hAEgHUTS"
  
```


Gaia-X Trust Framework summary

- Measurable & Comparable – **Gaia-X Trust Index** as a function of service composition and signature's identity.
- Doesn't take decision for the user – 2nd order rule
- Enforce **transparency**
- Enable **portability** – service composition
- Enable **traceability** – consent aggregation and policies attenuation
- **Automatable** – machine readable
- **Secure** – Zero-Knowledge-Proof principle
- **Scalable** – Web semantics
- **Cost efficient** – SMEs included
- Include **Remediation** / Penalties



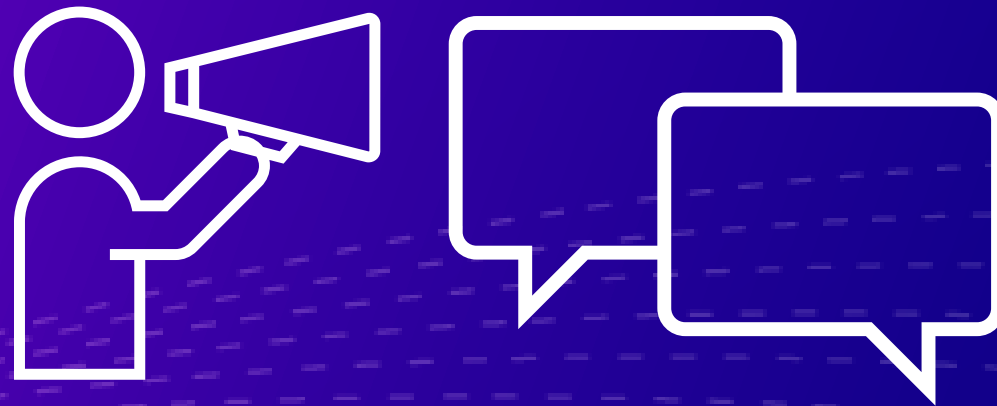


Question ?

<https://www.gaia-x.eu>

<https://members.gaia-x.eu>

Q&A



Polls on maturity & next step involvement



Maturity

Q1: 25 sec

Q2: 25 sec

Q3: 25 sec

Involvement / follow-up

Q4: 25 sec

Q5: 25 sec

Q6: 50 sec

The poll will automatically
go to the next question
after 25/50 sec.

You will find the link to the poll in the CHAT

Session Summary

