

B2G Data Sharing: Governing data in the public interest

28 June 2023

Welcome Jan Pörksen



The New Hanse Francesca Bria



Our Vision

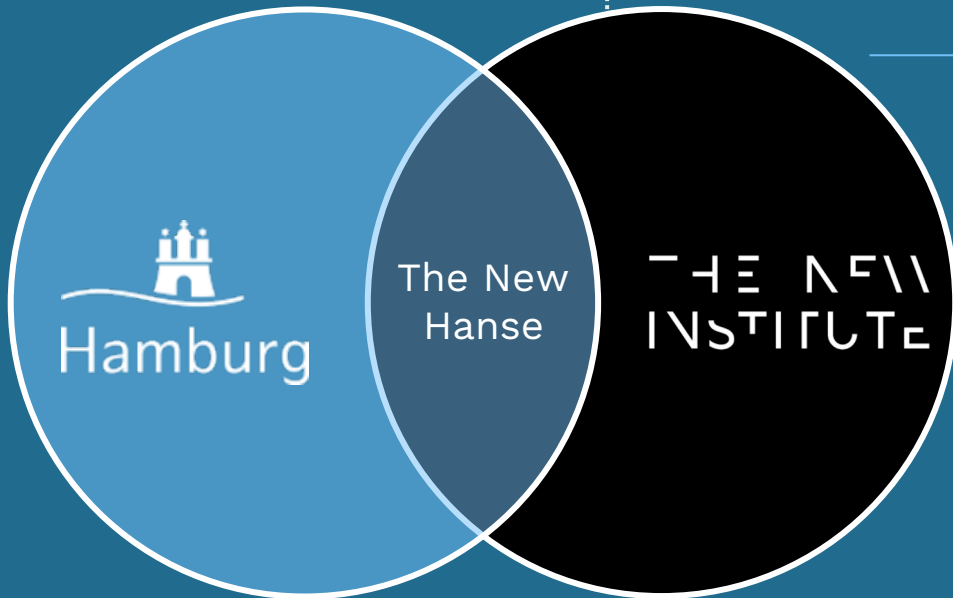
The New Hanse

THE NEW
INSTITUTE

What and Why



The New Hanse is a collaborative urban innovation project exploring, testing and disseminating new data governance models for the public interest, enabling net zero policies. Headed by Jan Pörksen & Francesca Bria



- The goal is to support the City of Hamburg on its chosen path to becoming a **model city** for democratic digitalisation and net zero transformation
- **Cities are laboratories** for new practices and democratic standards for data sharing that protect citizens digital sovereignty and enable the EU Green Deal.
- **Europe as Regulator of the Digital Age** (Data, AI Act) and as **Entrepreneurial State**, with innovation rooted in democratic principles and values.

Data sharing for the public interest

We want to help cities leverage the transformative and democratic potential of data and digital infrastructures through data sharing for the public interest.


In this way, we hope to contribute to creating greener digital cities that are more inclusive, liveable and participatory.

We see data as public infrastructure, a public good that should create public value and be at the service of cities and citizens to take better decisions and actions.

From Business to Government to Society (B2G2S): We aim to develop, test, and scale new collective, fair and democratic data management and governance models to stimulate the urban innovation ecosystem.

A win-win-win not winner-take-all: Businesses as well as governments and the citizens will benefit from a stronger data ecosystem, ensuring data protection, trust and fair competition.

A path towards progressive green digital cities: We will capture our insights in blueprints that enable cities to replicate and scale B2G2S data sharing frameworks, informing national and EU levels.

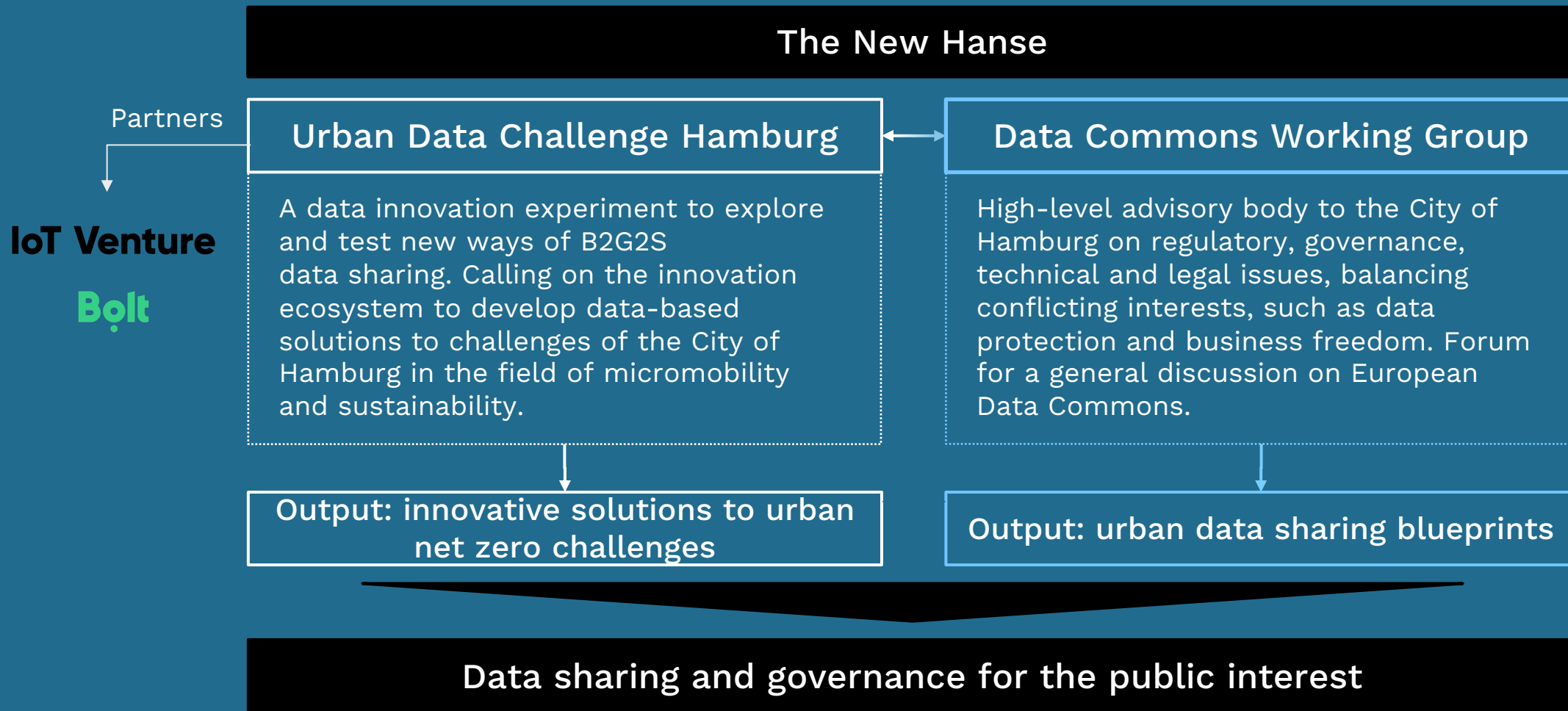


New models of data governance

Our Project

The New Hanse

THE NEW
INSTITUTE



DCWG Chair & Stream Leads



Francesca Bria
Italien Innovation Fund &
The New Institute



Aline Blankertz
Wikimedia



**Maximilian von
Grafenstein**
UdK Berlin Career College,
Einstein Center Digital
Future



Fernando Fernandez-Monge
Bloomberg Harvard City
Leadership Initiative



Kattel Rainer
UCL London



Olegur Sagarra
Dribia Barcelona



Boris Otto
Fraunhofer ISST



Dominik Piétron
Humboldt University



Paul Keller
Open Future



Paul, Nemitz
European Commission



Moritz Hennemann
University of Passau



Renata Avila
Open Knowledge
Foundation



Marina Micheli
European Commission



Maria Savona
Luiss University



Malcolm Bain
Across legal



Linnet Taylor
Tilburg Institute of Law



Raffaele Laudani
Comune di Bologna



Marco Ciurcina
NEXA Center for Internet
and Society



Henriette Litta
Open Knowledge
Foundation Germany



Geoff Mulgan
UCL London



Stefaan Verhulst
TheGovLab

Thank you!

DG CONNECT: Data governance for the public interest

Javier Orozco-
Messana





Governing data in the public interest

EU Smart Cities and Communities

Business-to-Government Data Sharing

The new Hanse project

Javier Orozco, DG CNECT

Unit C3 Technologies for smart communities

28th June 2023

Digital Europe Program

- Reinforcing trust: certification
- Data discoverability and reuse: HVDSs
- Sectorial approach: role for Smart Communities
- Digital EU infrastructures:
 - Cloud based delivery
 - EU Data Spaces
 - Federation of data and services
- EU principles:
 - Data altruism
 - Transparent governance
 - Once only approach
 - Value creation



Low-trust data sharing

Data for common good

Technical obstacles

Limited data sharing despite economic and social potential

Breaking data
market control

Unlocking value
from data

Cross-border data
driven innovation

Avoiding vendor
lock-in

Dominant market
actor's power

- B2G, B2C and B2B data sharing
- Data-holders' obligations
- Unfair terms prohibited
- Portability
- Standards setting

Speed
Visibility

EU market
Innovative
services

Business centered
Flexibility
Efficiency

Time to market
Escalability

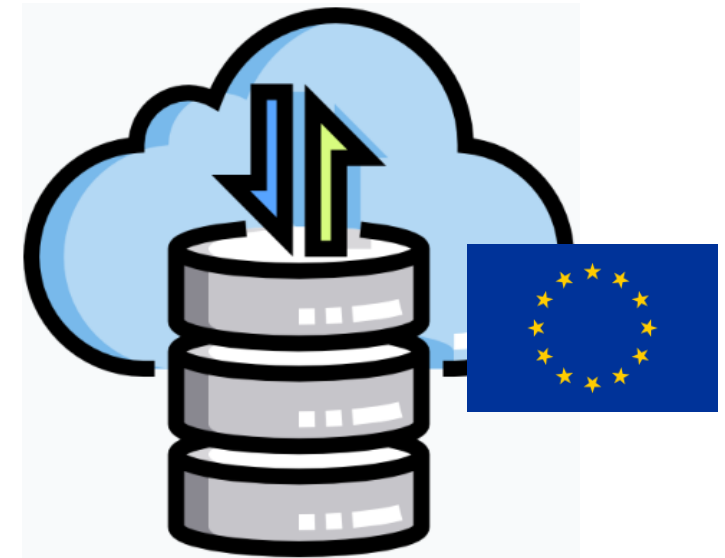
Market driven
innovation
Cost-sharing

Categories for High value Datasets:

- *Geospatial*
- *Earth observation and environment*
- *Meteorological*
- *Statistics*
- *Private Companies and ownership,*
- *Mobility*

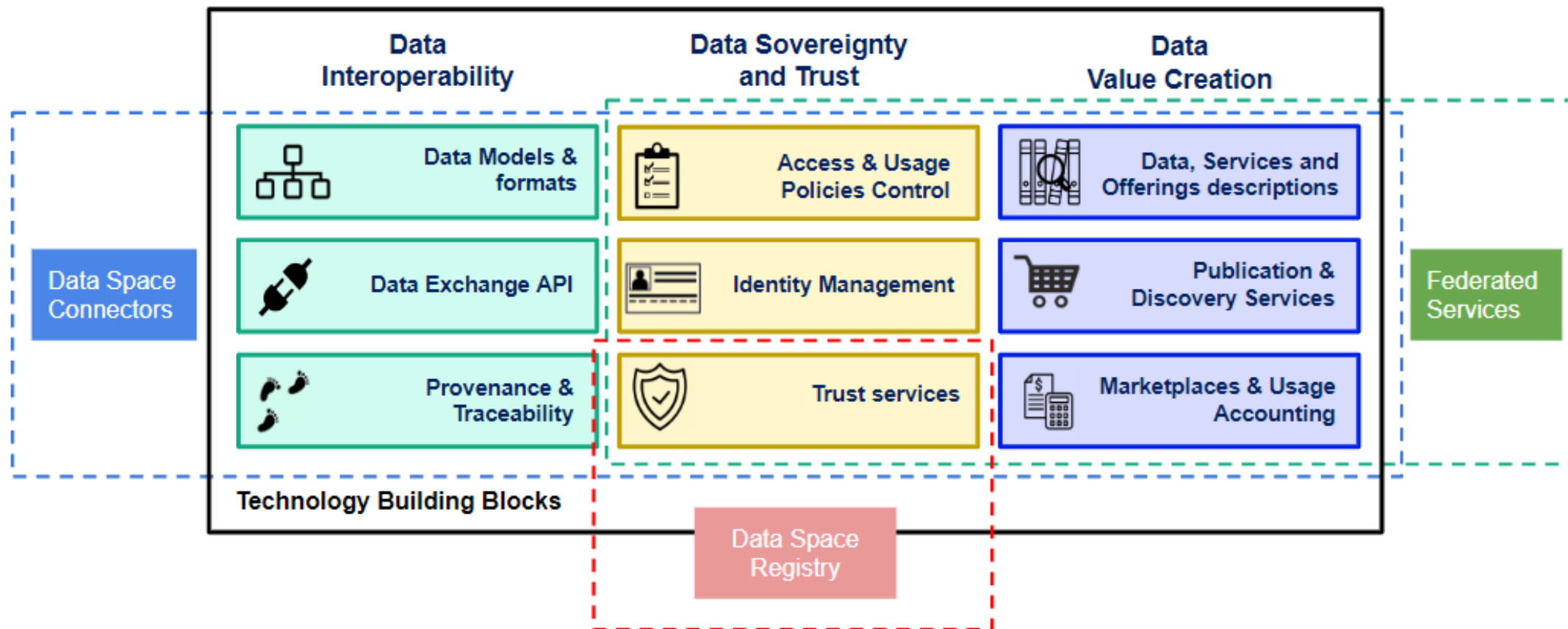
Requirements for HVDs:

- *Available free of charge*
- *Machine readable*
- *Provided via APIs. For bulk download, where relevant*
- *Provisions for publication and re-use compatible with open data licenses*



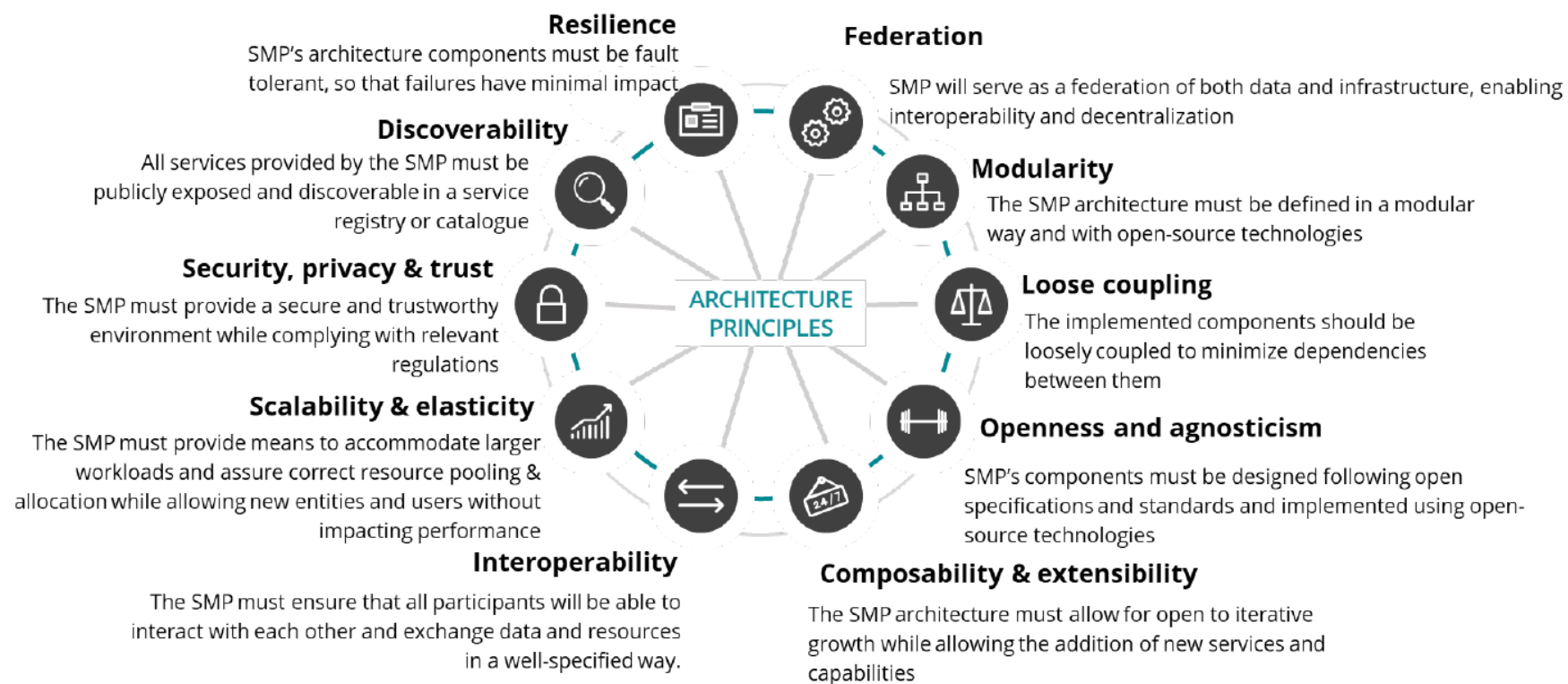
<https://op.europa.eu/en/publication-detail/-/publication/6aa0e08c-d0d9-11ea-adf7-01aa75ed71a1/language-en>

<https://op.europa.eu/en/publication-detail/-/publication/5b20f52a-db7e-11ea-adf7-01aa75ed71a1/language-en>



Smart Middleware Platform

1 pilot on DS Smart Communities



Architecture principles

LDT toolbox

The following objectives correspond to the services procured:

1. Map EU-based technology providers and users active in the development and/or deployment of components of (local) digital twins (LDT).
2. Identify and collect performance requirements to form a complete and consistent set of technical requirements for the LDT toolbox.
3. Propose and validate the concept design for the LDT toolbox and the deployment scenarios.
4. Draft the detailed technical specifications and composition of the LDT toolbox based on the best deployment scenario.
5. Propose and validate a plan and a roadmap for the large-scale adoption of the LDT toolbox across the EU.

CitiVERSE

- Exploit the long tradition of EU in cultural and media content
- Implement CitiVerse prototypes
- Leverage the latest EU technology providers
- Propose legal framework for a robust, open and interoperable CitiVerse

<https://digital-strategy.ec.europa.eu/en/events/info-day-developing-citiverse>



**Innovative Massive Public
Administration inter-Connected
Transformation Services**

**European Cybersecurity
Skills Academy**

Language technologies

SKILLS

GOVERNMENT

**European Blockchain
Partnership**

INFRASTRUCTURES

Copyright Infrastructure

Mobility and Logistics Data

BUSINESS

Human genome

**Networked Local Digital
Twins Towards CitiVerse**



EDIC Networked Local Digital Twins

- European Digital Infrastructure Consortium (EDIC): Non-benefit public entity established by EU member states recognized by EU law for:
 - Receiving direct public funding, digital content, and physical infrastructures from the European Commission for its management and exploitation
 - Shaping and implementing EU policy
- Possible benefits:
 - Taxation benefits as a non-profit public entity
 - Joint investment to address digital infrastructure investments collaboratively
 - Shared maintenance and update costs of joint infrastructures and resources
 - Enabling big-buyers benefits through commercial agreements and joint procurements.
 - European data utilities and services company for smart cities and communities
- Built-in sustainability mechanisms:
 - Shared risks
 - Benefits reinvestment
 - Market leader
 - High trust certification and capacity building

Thank you!

European Parliament Think Tank - Artificial Intelligence and Urban Development (fresh from the print):

[https://www.europarl.europa.eu/thinktank/en/document.html?reference=IPOL_STU\(2021\)690882](https://www.europarl.europa.eu/thinktank/en/document.html?reference=IPOL_STU(2021)690882)

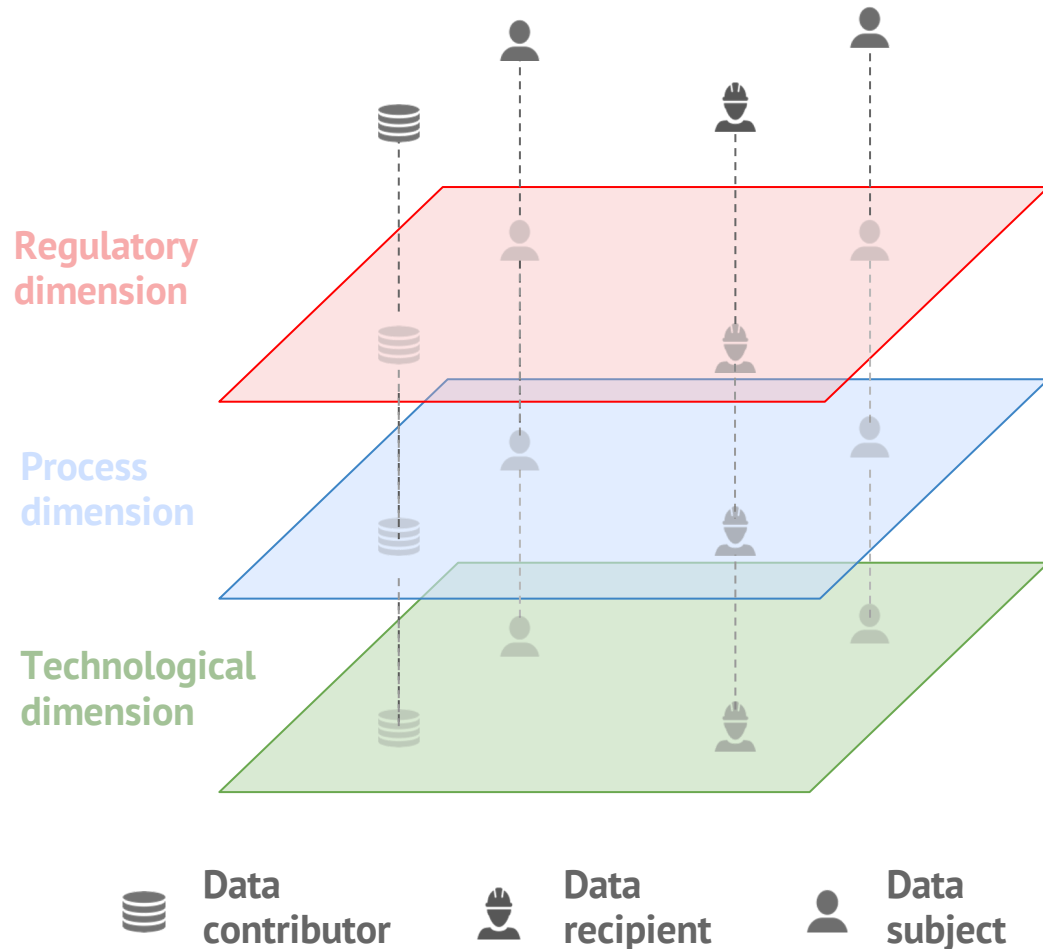
Legal assessment: Initial findings

Max von Grafenstein



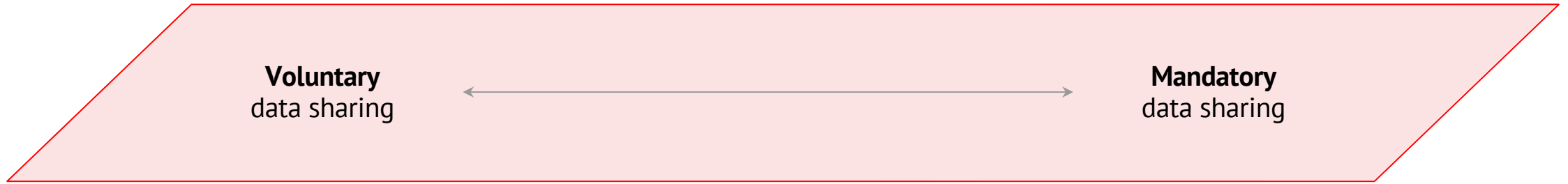
Does a Universal Data Sharing Law solve the value for risk dilemma in data sharing?

Main challenges



- Many different laws (often conflicting each other) are applicable to the sharing of data according to the type of actors involved, their data in question and the respective data usage purposes
- Regulatory, technical and organisational/business aspects are tightly interwoven → **too complex, too burdensome (too high compliance risks/costs)**
- Dynamic assessment, since these aspects constantly change according to new data usages

Basic approaches for data sharing



Voluntary approach: When is data sharing worthwhile?

Voluntary
data sharing

Value of data (use)

>

Risk of data (use)

+

Costs of

Voluntary approach: Here comes the problem

Voluntary
data sharing

Value of data (use)

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- Data protection
- Trade secrets
- IT security

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Costs of

- exploiting the value
- minimising the risks

Voluntary approach: Here comes the problem

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Voluntary approach: So, what would it take to get data shared?

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Voluntary approach: How to specify and increase the value?

The diagram consists of a large red parallelogram at the top containing the text 'Voluntary data sharing'. Below it is a horizontal equation. On the left is a green rounded rectangle containing 'Value of data (use)' and a large question mark. This is followed by an equals sign, then a green rounded rectangle containing 'Value for data user', followed by a plus sign, and finally a green rounded rectangle containing 'Sharing with holder'.

Voluntary
data sharing

Value of data (use)

?

=

Value for data user

+

Sharing with holder

Voluntary approach: How to specify and increase the value?

Voluntary
data sharing

Value of data (use)

?

=

Value for data user

?

+

Sharing with holder

Voluntary approach: How to specify and increase the value?

Voluntary
data sharing

Value of data (use)

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=

Value for data user

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+

Sharing with holder

- **a market price !**

Voluntary approach: How to specify and increase the value?

Voluntary
data sharing

Value of data (use)

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=

Value for data user

?

+

Sharing with holder

- **a market price ?**

Voluntary approach: How to specify and increase the value?

Voluntary
data sharing

Value of data (use)

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Sharing with holder

- **a market ?**

Voluntary approach: How to specify and increase the value?

Voluntary
data sharing

Value of data (use)

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=

Value for data user

?

+

Sharing with holder

- a market ?

compliance risks may be too high

Voluntary approach: How to specify and increase the value?

Voluntary
data sharing

Value of data (use)

?

=

Value for data user

?

+

Sharing with holder

- Services for free
- Quid pro quo-sharing
- Moral satisfaction

Voluntary approach: How to specify and increase the value?

Voluntary
data sharing

Value of data (use)

?

=

Value for data user

?

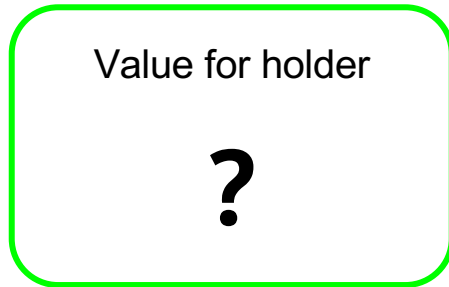
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Sharing with holder

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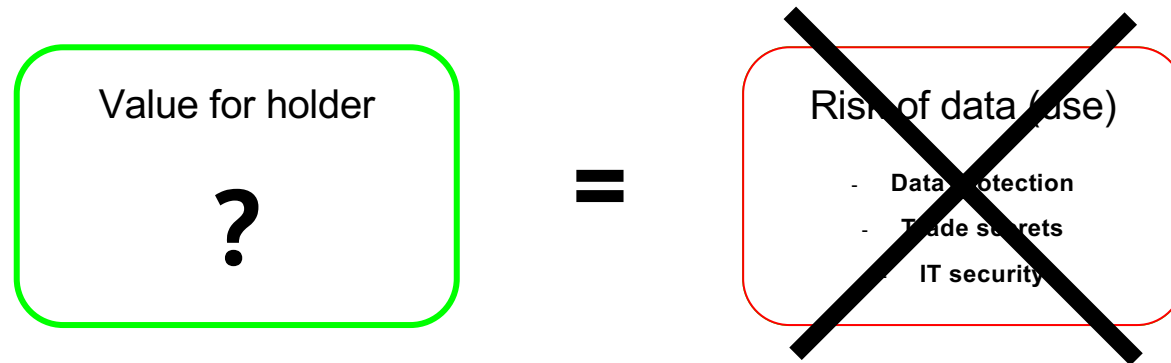
solutions may remain in niches

Let's wait a second: Why should value be shared with data holder?



=

Let's wait a second: Why should value be shared with data holder?



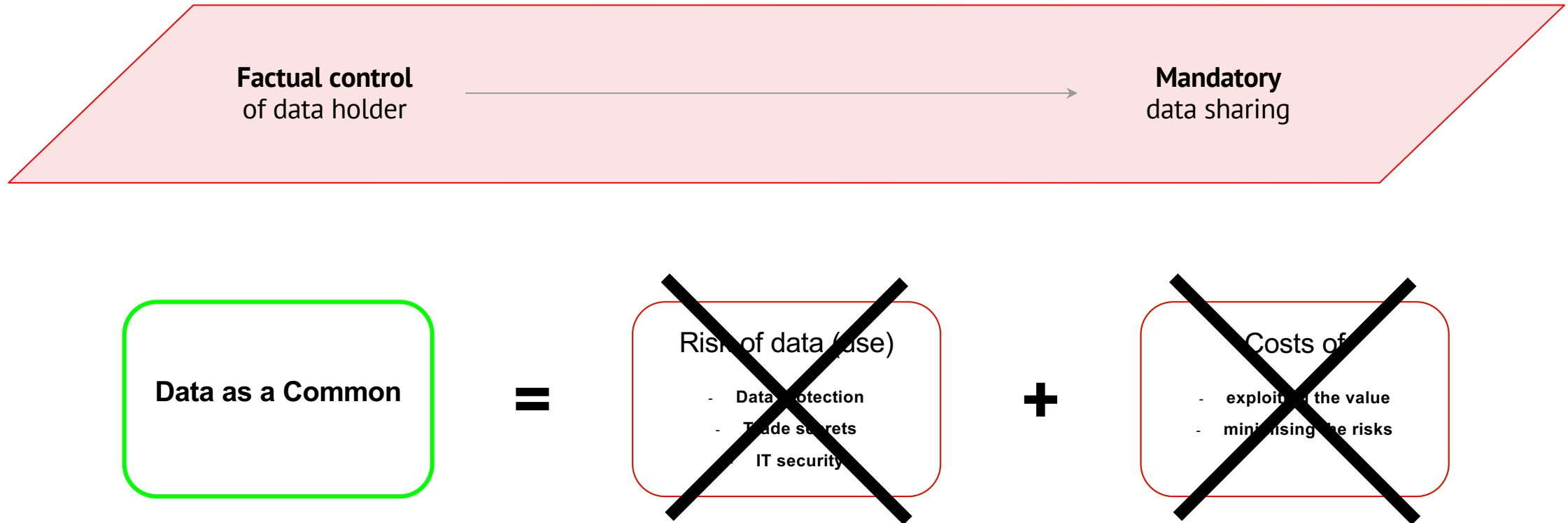
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Let's wait a second: Couldn't be “no-risk and no-cost data” be a common?



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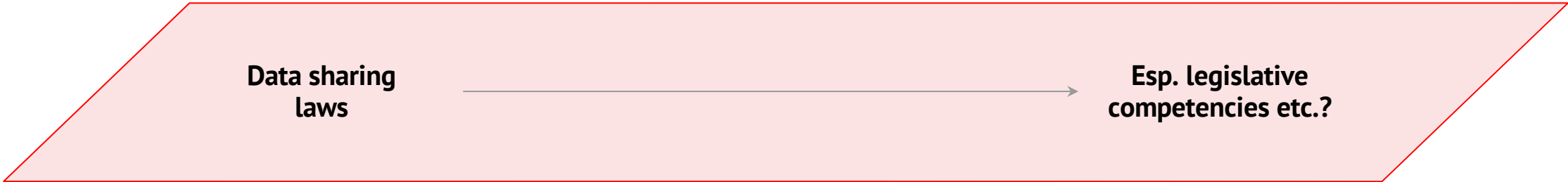
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at least **for data generated through the use of public infrastructures**
(e.g. through the use of public roads or public funds)

and **in favour of public authorities acting in the public interests (B-G)**

Data sharing laws: what are the legal and political requirements?



Data as a Common

=

~~Risk of data (use)~~

- Data protection
- Trade secrets
- IT security

+

~~Costs of~~

- exploiting the value
- minimising the risks

at least for
data generated through the use of public infrastructures
(e.g. through the use of public roads or public funds)

Panel discussion moderated by Georg Diez



B2G Data Sharing for the public interest: what are the legal and political requirements?

Food and drinks!