

Towards a Dataspace on Animal Health and Welfare?

Exploring the concept

4th EMA Veterinary Big Data Stakeholder Forum

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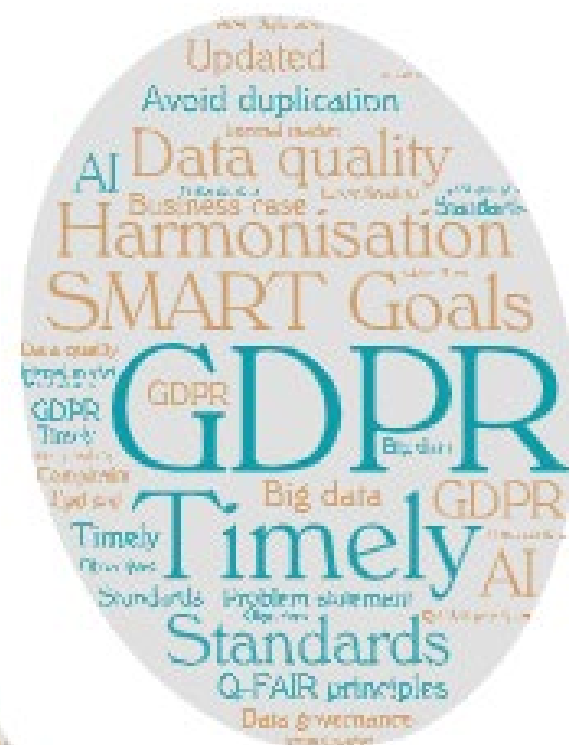




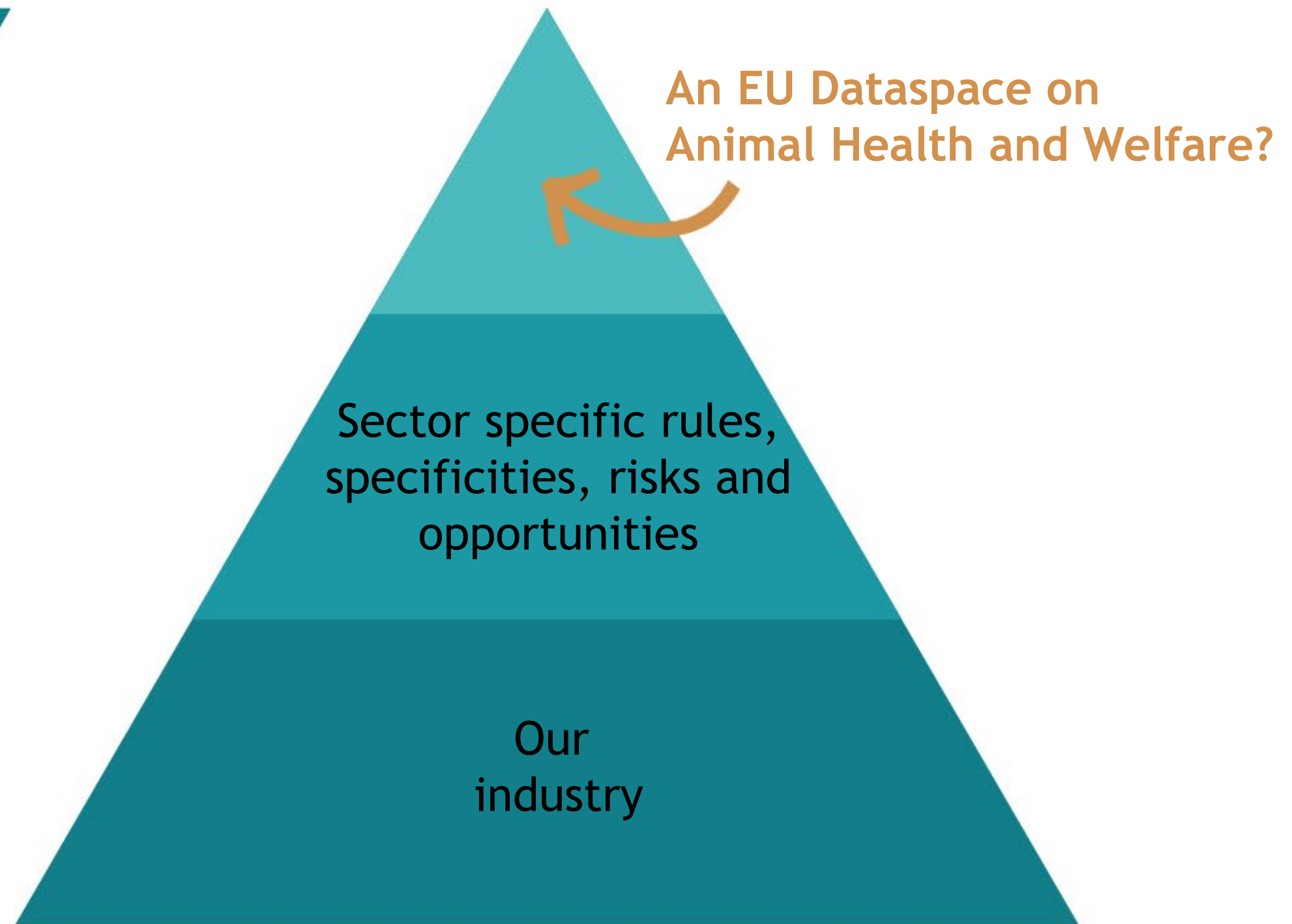
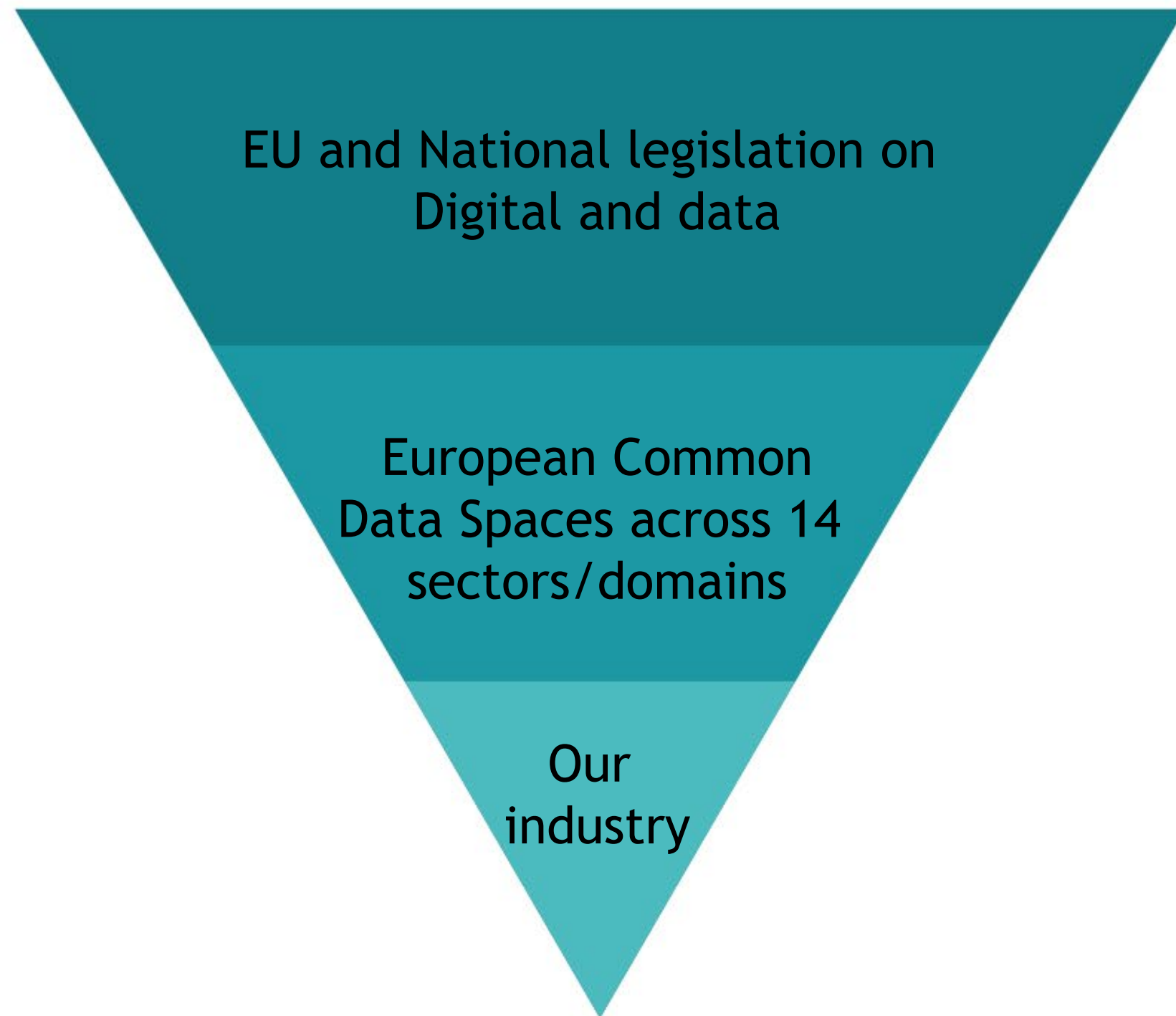
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Slido event code: **#4thVetData**



The context



AnimalhealthEurope Workshop Programme

10.00	Welcome, introduction & setting the scene	AnimalhealthEurope Secretariat Moderator (Roxane Feller)
10.15	Presentation of existing Data Spaces related to animal health - Human Data Space (EFPIA) - Agriculture Data Space (CEMA)	EFPIA Thomas Brookland CEMA Ivo Hostens
10.45	Tour de table Reactions by key stakeholders on the relevance of creating a “Animal Health and Welfare Data Space”	European Commission Andrea Gavinelli (DG SANTE) Miguel Fernandez (DG AGRI) European Medicines Agency Damien Paul Lynn (HMA/EMA joint Big Data Steering Group) Federation of Veterinarians of Europe Nancy de Briyne
11.45	Q&A	AnimalhealthEurope Digital and Data Strategic Group Members
12.00	Closing remarks	AnimalhealthEurope Secretariat

European Health Data Space

“An EU wide health specific ecosystem comprised of rules, common standards and practices, infrastructures and a governance framework”

Considered as one of the key enablers of future innovation in Europe

Obligatory

- Part of the Pharma Strategy for the EU
- Result of public consultation (Q1 2022)
- Draft adopted on 5 Apr. 2022

Interoperability to remove barriers to health data sharing:

- Increasing individuals' autonomy and control over their health data
- Improving The Delivery of Healthcare through better Primary Use of data
- Building a consistent, trustworthy and efficient set-up for secondary use of health data for better R&D, innovation and policy-making

Financing: €12 billion (Recovery and Resilience Facility) + 810 million (European Commission) + 280 million (EU4HEALTH) + to be defined (Digital Europe Program, Connecting Europe Facility and Horizon Europe)

Common European Agriculture Data Space (CEADS)

“A federation/Network of interoperable Data Space Initiatives”

There are multiple Data **SHARING** Initiatives, but few Data Space Initiatives

Voluntary

Specific legislation applies, depending on the use case and data concerned

Interoperability for joint use cases

Bottom-up approach: open to new use cases

New data space initiatives are expected to start up and many connections are to be made within the CEADS directly between Data Space Initiatives

More simplicity in handling complexity

Financing: €8 million (direction)+ 16 million (deployment)+ membership fees

- 1st call: investigate the pathways for a common agricultural data space - technical building blocks, governance, legal, business, roadmap - 18 months (ended in April).
- 2nd call: implementation - the platform, the rules - duration 3 years - 50% support.

European Health Data Space

Common European Agriculture Data Space (CEADS)

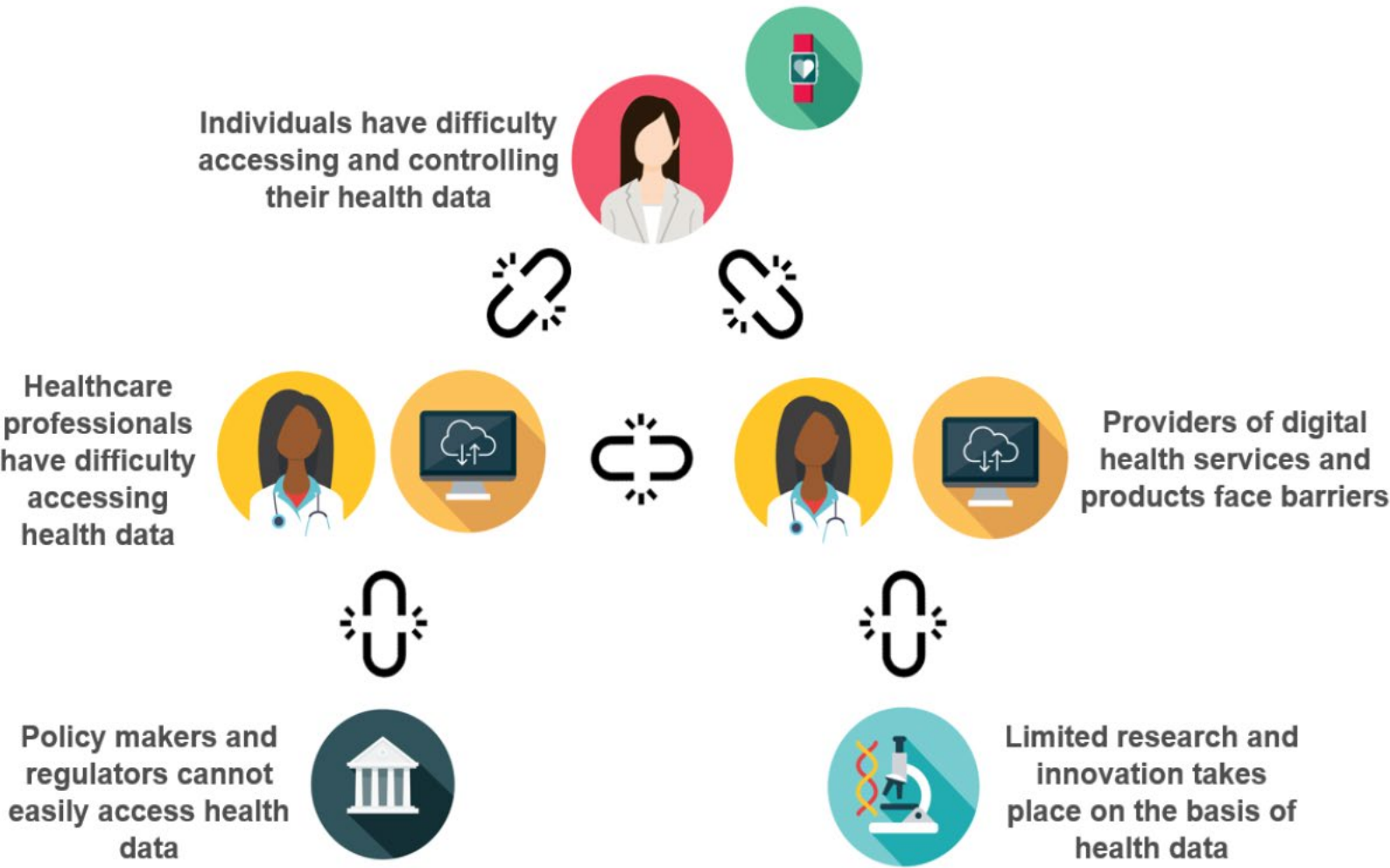
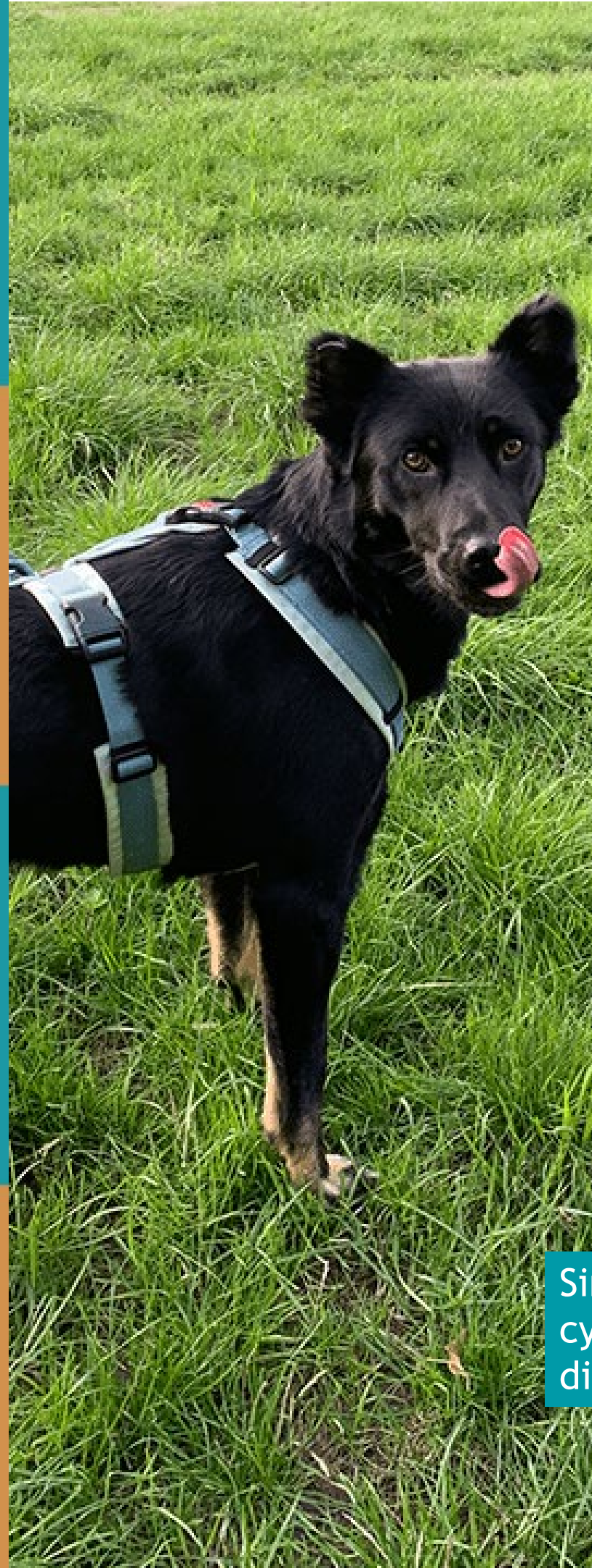


Figure 2 - Problems in controlling, using and sharing health data

Table 2: CEADS core Use Cases

CEADS CORE USE CASES				
Use Case	Type	Sector	Collaboration with DSIs	Countries
1. Agri-environmental and accountancy data for monitoring farm performance	B2G/ G2B B2B	Arable Farming Horticulture Livestock	Green Deal Data Space DjustConnect Agdatahub Lumbara AgriDataValue Natural Value Performance AgrospAI Adagio CTIC Ruraltech AgNav	NL, ES, PT, EL, FR, BE, DE, EI, IT
2. Research and innovation data for improved AI algorithms performance	B2G B2B	Arable Farming Tree crops Horticulture Viticulture Livestock	AgrifoodTEF Green Deal Data Space Smart Communities Data Space	FR, IT, ES, BE, PL
3. Certified data to secure farms environmental sustainability	B2B	Arable Farming	DjustConnect Agdatahub	FR, BE, PL, RO
4. Genetic data for animal production improvement	B2C B2G B2B	Livestock	iDDEN AgrifoodTEF DjustConnect Agdatahub	AT, DE, FR, BE
5. Enhancing Machinery Data Sharing Across Europe	B2C B2G B2B	Arable Farming	DjustConnect Agdatahub Tritom AgIN Agronod eDWIN WALLeSmart	BE, FI, SE, PL, DE, FR
6. Using data spaces for risk management in agriculture	B2C B2G/G2B B2B	Tree crops Viticulture	AgrifoodTEF Agdatahub DjustConnect AgrospAI	IT, FR
7. Cross-sectoral data for sustainable agrotourism	B2B B2C	Agriculture Tourism Energy Mobility	Tourism Data Space Energy Data Space Mobility Data Space Agdatahub NADIA platform	PL, ES, FR, BE
8. Climate Resilience, Nutritional, and Traceability Data for a sustainable wine industry	B2C B2G B2B	Viticulture Wine	Lumbara Agdatahub AgriDataValue Data Space CTIC Ruraltech	LU, ES, IT, FR, EL, PT



Similar factors drive the value of data in animal health innovation and product life cycle as those in human health. However, it's important to note that the two sectors differ significantly in terms of commercial dynamics and data accessibility.

Data space: Why - How - Who - What - When?

What is the **problem statement** to be addressed?

What are the **use cases** for a dataspace?

- Are there any **other (easier) ways to solve it**?
- Why can't it be solved through individual databases?

What are the **purposes and the objectives** of a dataspace?

1. **Who will benefit** from the data? **How?**
2. **Who will report** the data? **How?** Will it be possible to make reporting automatic?
3. How to ensure **harmonisation of data formats and methodologies** for data collection and analysis?
4. How to ensure **data quality**?
5. How to ensure **consistency and interoperability**? And how to avoid duplication of efforts?
6. How to make data collection easy and **guarantee it doesn't create administrative burden**? Could the 1-in-1-out principle be applied to mitigate the risk?
7. How to manage **GDPR**? And **cybersecurity**?
8. How to **finance the efforts** to establish such a platform? Could financing come from the **EU budget**? Any other **programmes**? Any **private funds**?
9. How to manage the **use and access** to data (who, how, for what, when)?
10. What criteria should be used to choose between a **voluntary or an obligatory system**? What are the **implications** of each one?
11. What **timelines** to follow?
12. What **terminology and definitions** to adopt?
13. What **proofs of data** would be needed, desired and feasible?
14. What would be needed to be included in the **cost - benefit analysis**?

Can we start by looking at existing individual databases?

Mapping exercise

EMA

1. Union Product Database ([UPD](#))
2. [EudraVigilance](#)
3. Data on sales and use of antibiotics

Already existing Animal Health Threats Monitoring Platforms:

1. EU Animal Disease Information System ([ADIS](#))
2. World Animal Health Information System ([WAHIS](#))
3. FAO Global Animal Disease Information System ([EMPRES-i](#))
4. Chronic Waste Disease ([CWD](#)) Data Warehouse
5. TRAdE Control and Expert System ([TRACES](#))
6. [CAPC Annual pet parasite forecasts](#)
7. Small Animal Veterinary Surveillance Network ([SAVSNet](#))

European Partnership on Animal Health and Welfare ([EU PAH&W](#)): “Build networks and develop databases for surveillance of livestock and aquaculture and implement the FAIR principles for the monitoring of (re)emerging animal health and welfare issues, and to develop a hazard monitoring and early warning service.”

One Health Consensus Report Annotation Checklist ([OH-CRAC](#)): A cross-sector checklist to support harmonised annotation of surveillance data in reports

Others:

1. WOAHA Global Burden of Animal Disease ([GBADs](#))
2. Electronic Integrated Disease Surveillance System ([EIDSS](#))
3. Global Standard for Livestock Data ([ICAR](#))
4. One Health European Joint Programme ([OHEJP](#)) Surveillance Initiative on Harmonisation of Data Collection and Interpretation ([ORION](#)) - [OH Surveillance Codex](#)
5. Veterinary Evidence Based Medicine Hub ([VetCompass](#))
6. Rapid Alert System for Food and Feed ([RASFF](#))
7. Norwegian fish health [BarentsWatch](#)
8. Global Biodiversity Information Facility ([GBIF](#))
9. The Epidemic Intelligence from Open Sources ([EIOS](#))
10. Global Public Health Intelligence Network ([GPHIN](#))
11. Platform for Automated extraction of Disease Information from the web ([Padi-web](#))
12. FEDIAF [European Pet Population and Market Data](#)
13. National initiatives (Italy- [ClassyFarm](#) - and Spain [GC4SHEEP](#))

A lot of different potential data sources but with limited or no interoperability and availability of EU wide data



Main outcome

- 1) Our animal health sector is at a stage of '**assessing possibilities**', as it significantly different from the agriculture and human health sectors.
- 2) For now, it is important for our industry to be part of **any conversations** about a potential data space for animal health and welfare.
- 3) We ask that the EMA keep the **focus** on the short term i.e. on Eudravigilance & UPD.

Thank you!



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