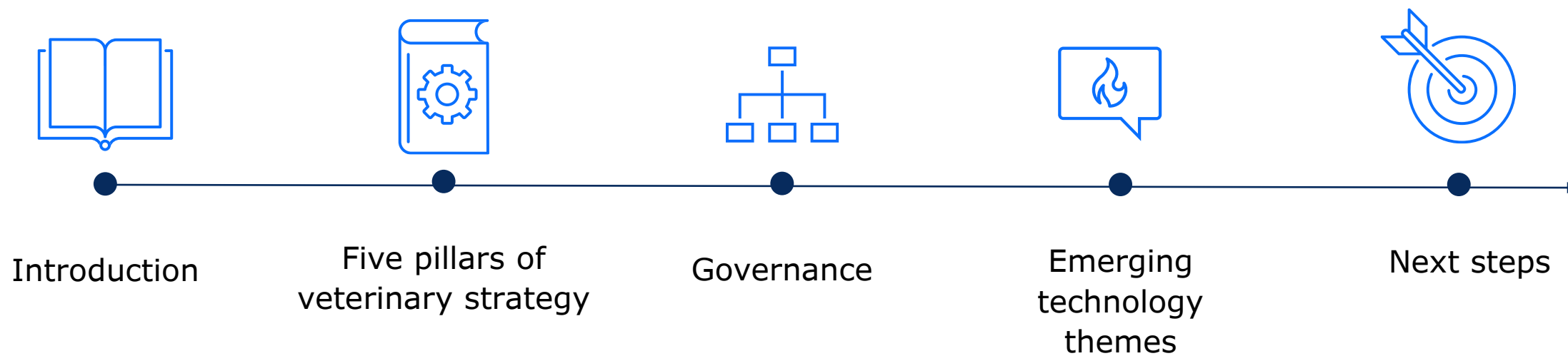


Veterinary big data strategy update

Paul Damien Lynn
Veterinary Data Scientist



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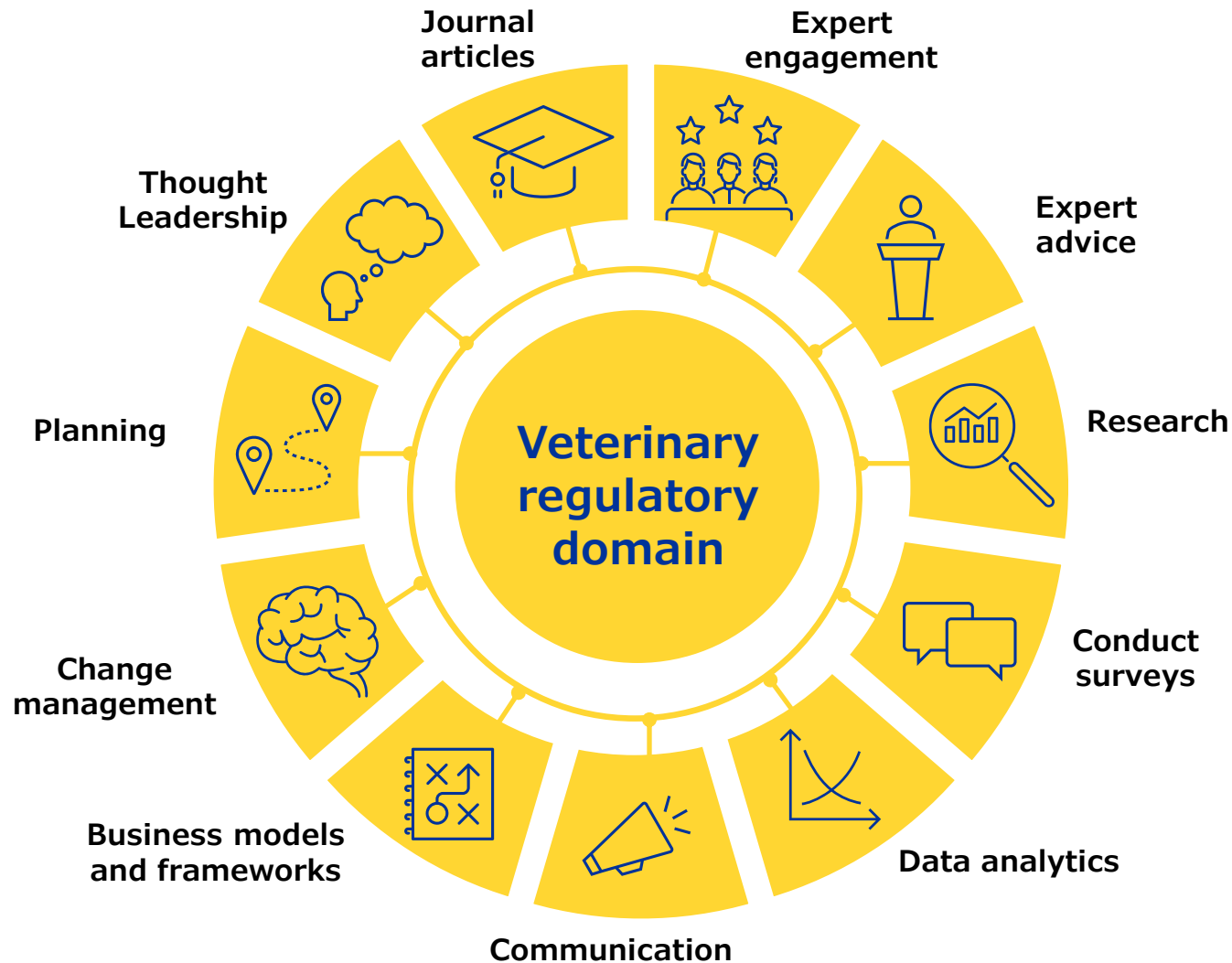


“North Star” Veterinary Big Data strategy summary



How can new capabilities in data and technology be used to implement Veterinary Regulatory domain use cases?

Veterinary big data and analytics team



What we do to drive strategy implementation

What does this mean in practice?



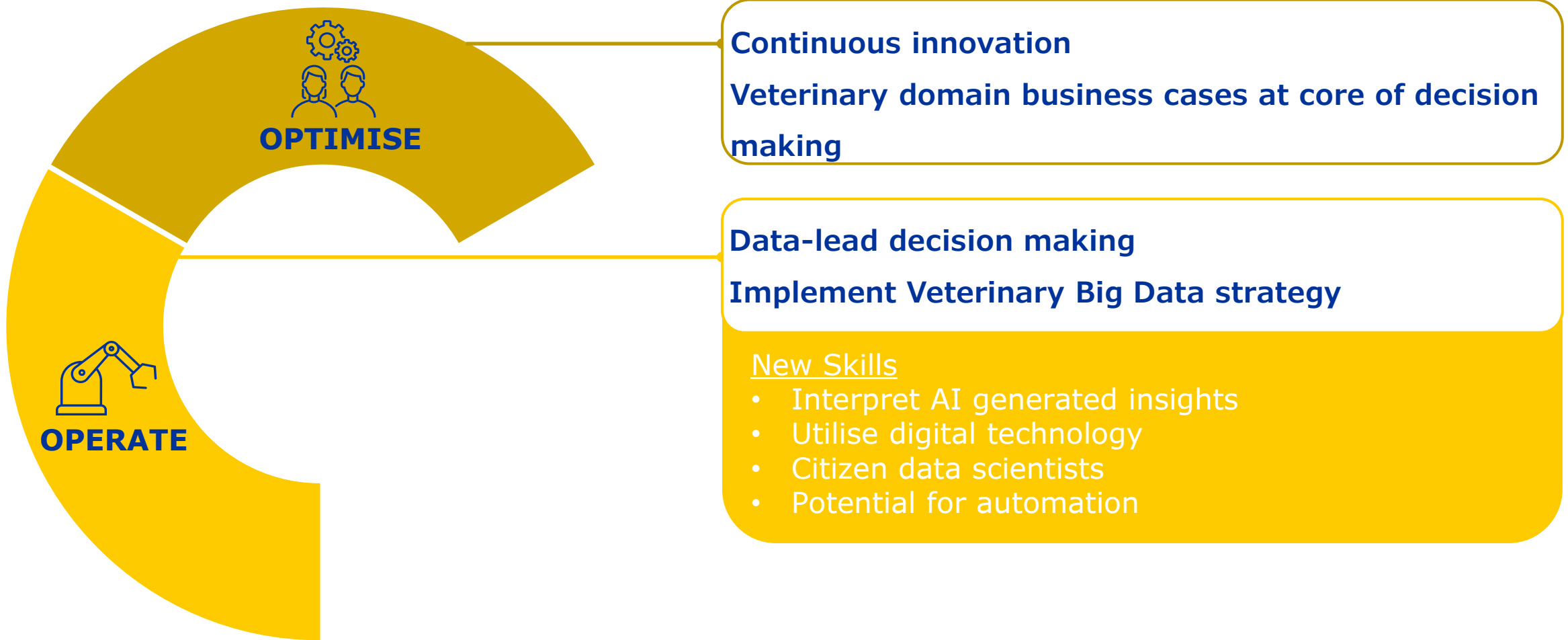
Continuous innovation

Veterinary domain business cases at core of decision making

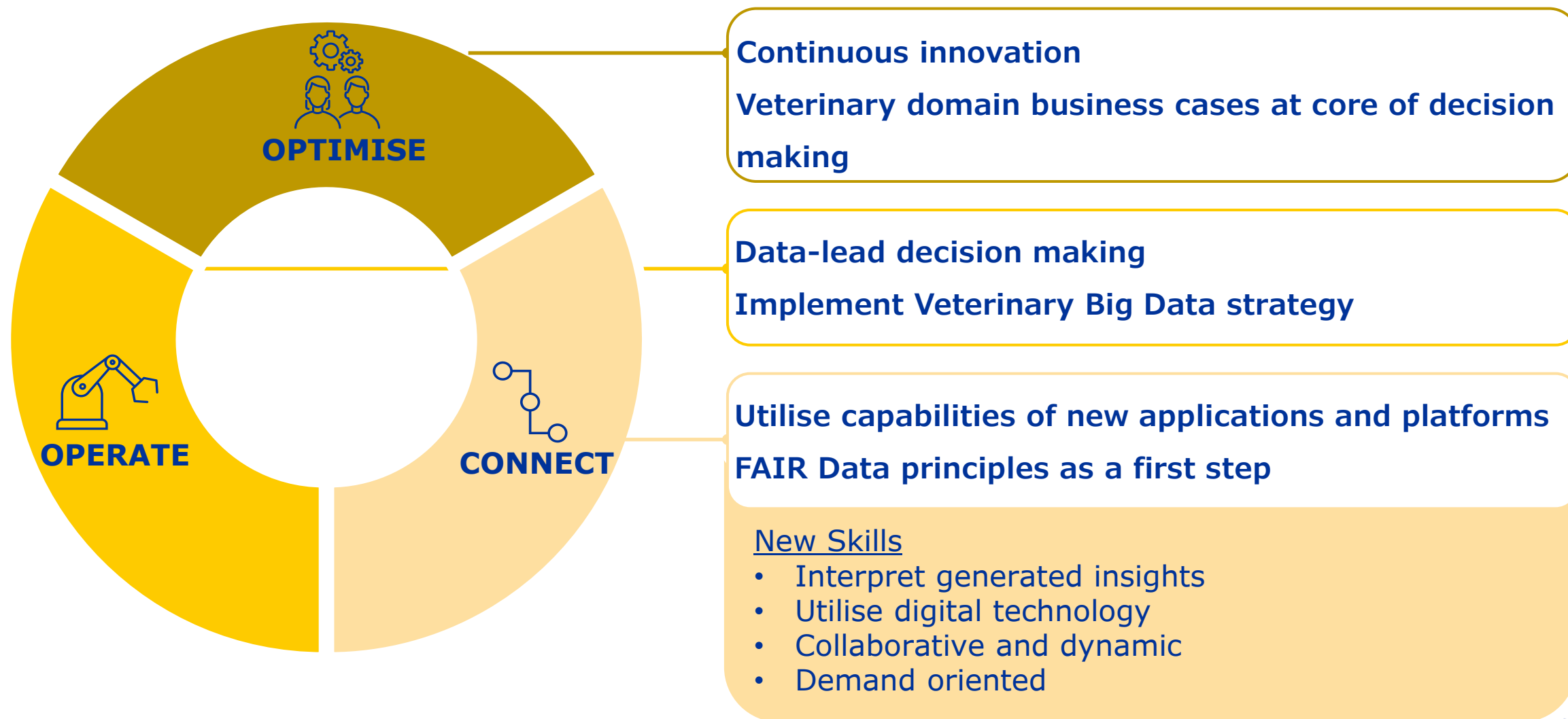
New Skills

- Evaluate potential of new technology
- Utilise digital technology
- Collaborative mindset
- Build and scale relationships

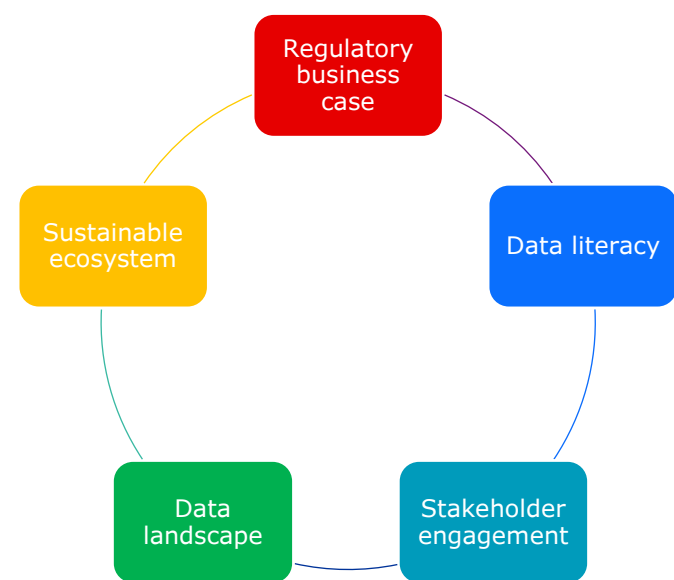
What does this mean in practice?



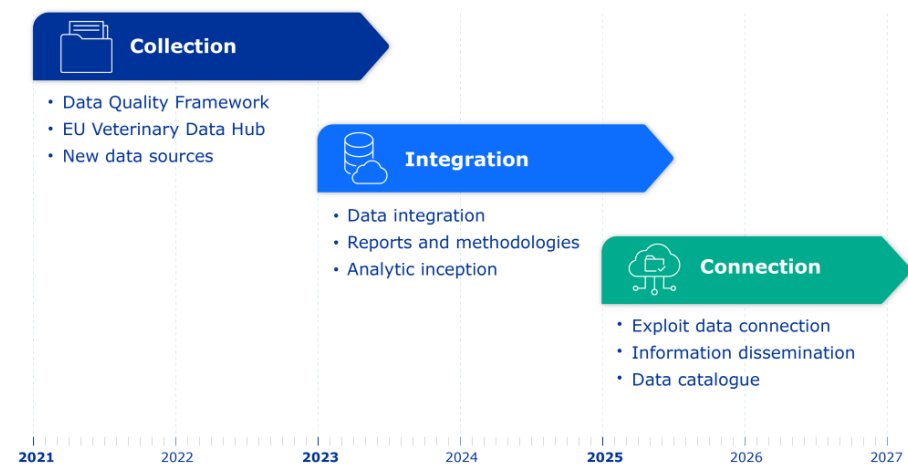
What does this mean in practice?



The strategy is...



...based on 5 key principles,

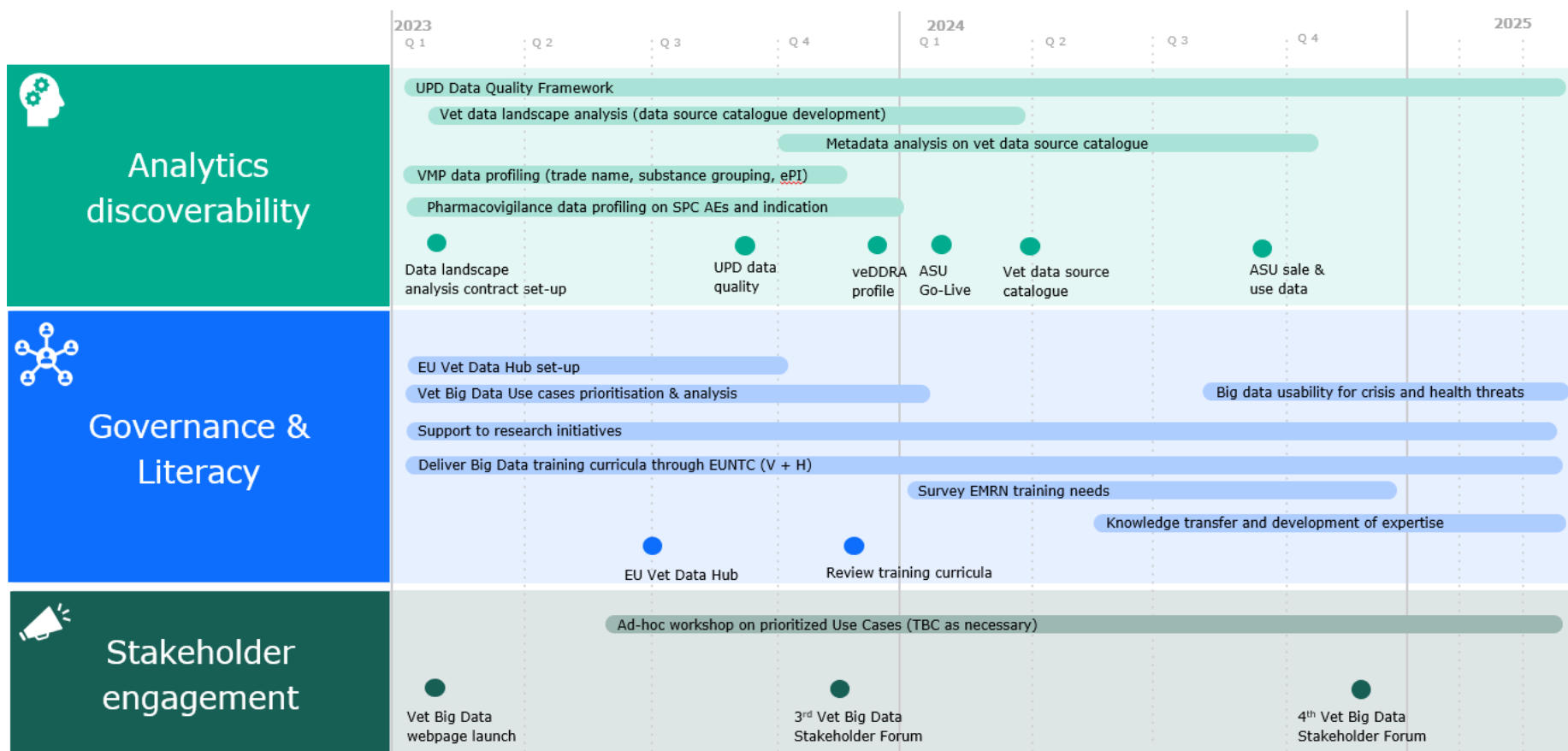



with an agreed timeline,



and according to a plan.

Veterinary big data workplan to 2025

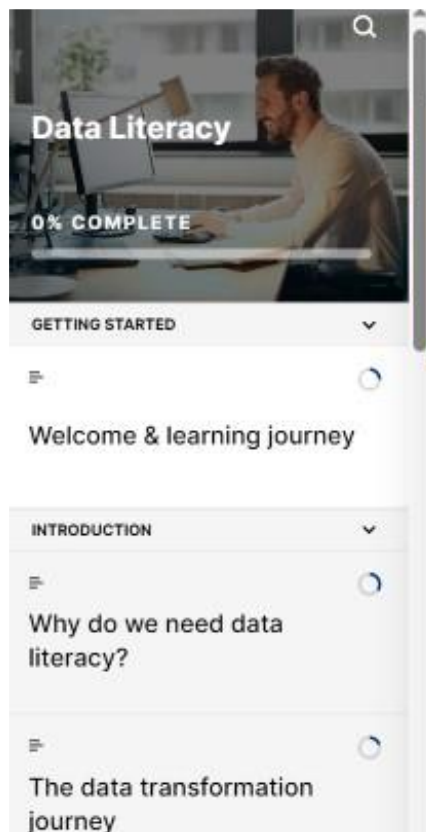


A close-up, slightly blurred photograph of a person's hands. The right hand is holding a black smartphone, and the left hand is holding a glass of dark coffee. The person is wearing a plaid shirt. The background is warm and out of focus, suggesting an indoor setting with wooden furniture and soft lighting.

"Data is everywhere, it's the new currency, it's the language of business. We need to be able to speak it to survive in the world of digital."

Nelson Repenning, MIT

Data literacy



In this module we invite you to learn more about data literacy.

Regardless of your background and your expertise level, tapping into data and mastering the fundamentals of data analytics within our regulatory environment can open worlds of possibilities. Let's embrace the transformative power of data towards innovation and progress and embark on this journey together!

Watch the welcome video below where, Paul Damien Lynn, Lead Data Scientist in the Veterinary Division (V-VSS) at EMA and Topic Lead for this module, will provide an introduction and orient you in your next steps on this learning journey.

Training goals:

- To build a community with a shared level of data awareness and data skills.
- To enable us to speak the language of data.

Data catalogue



The HMA-EMA Catalogues are repositories of metadata collected from real-world data (RWD) sources and RWD studies. They are intended to help **regulators**, **pharmaceutical companies** and **researchers** to identify and use such data when investigating the use, safety and effectiveness of medicines.

The Catalogue of RWD sources replaces the ENCePP Resources Database, while the Catalogue of RWD studies replaces the EU PAS Register®. Additionally, Catalogues of institutions and networks are also available to support the RWD sources and RWD studies catalogues. Together, these Catalogues offer an improved and more efficient service for researchers, regulators, and pharmaceutical companies to:

- **Facilitate the discoverability** of adequate data sources to generate real-world evidence for regulatory purposes (e.g., identification of RWD data sources suitable for investigating a specific research question);
- **Aid in the suitability assessment** of data sources by providing clear and easy access to information from the study protocol and study report;
- **Improve interoperability** between studies and data sources;
- **Improve transparency.**

The catalogues are fully [searchable](#) and the data available in the registered entities can be exported.

<https://catalogues.ema.europa.eu/>

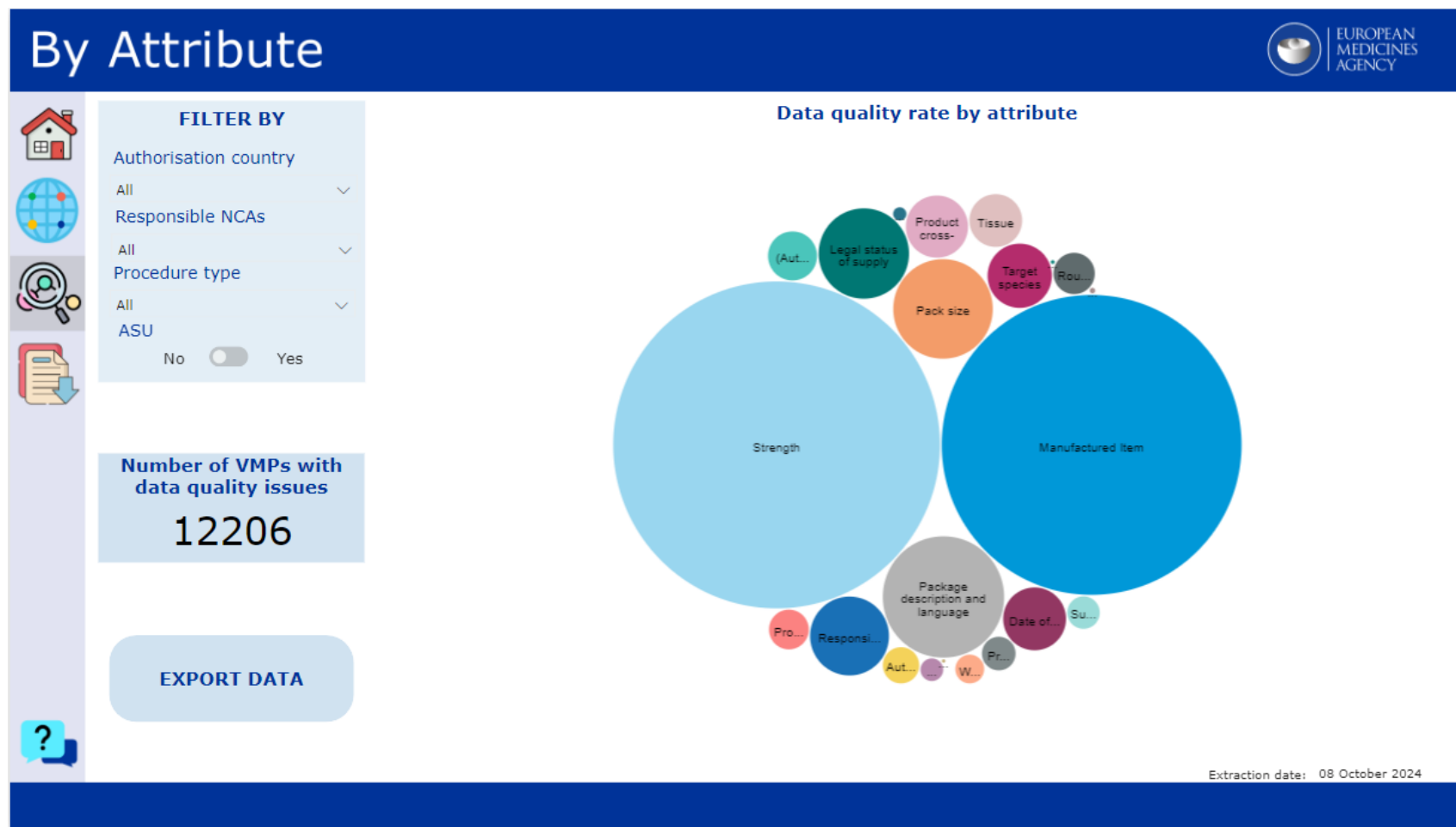
- Veterinary data sources will soon be uploaded to the HMA-EMA catalogue.
- First tranche of data sources will come from Wageningen's data landscape analysis.
- Contact Vet Analytics team to upload relevant data.

“Digital transformations will only be as successful as the quality of data available.”

McKinsey 2023 article

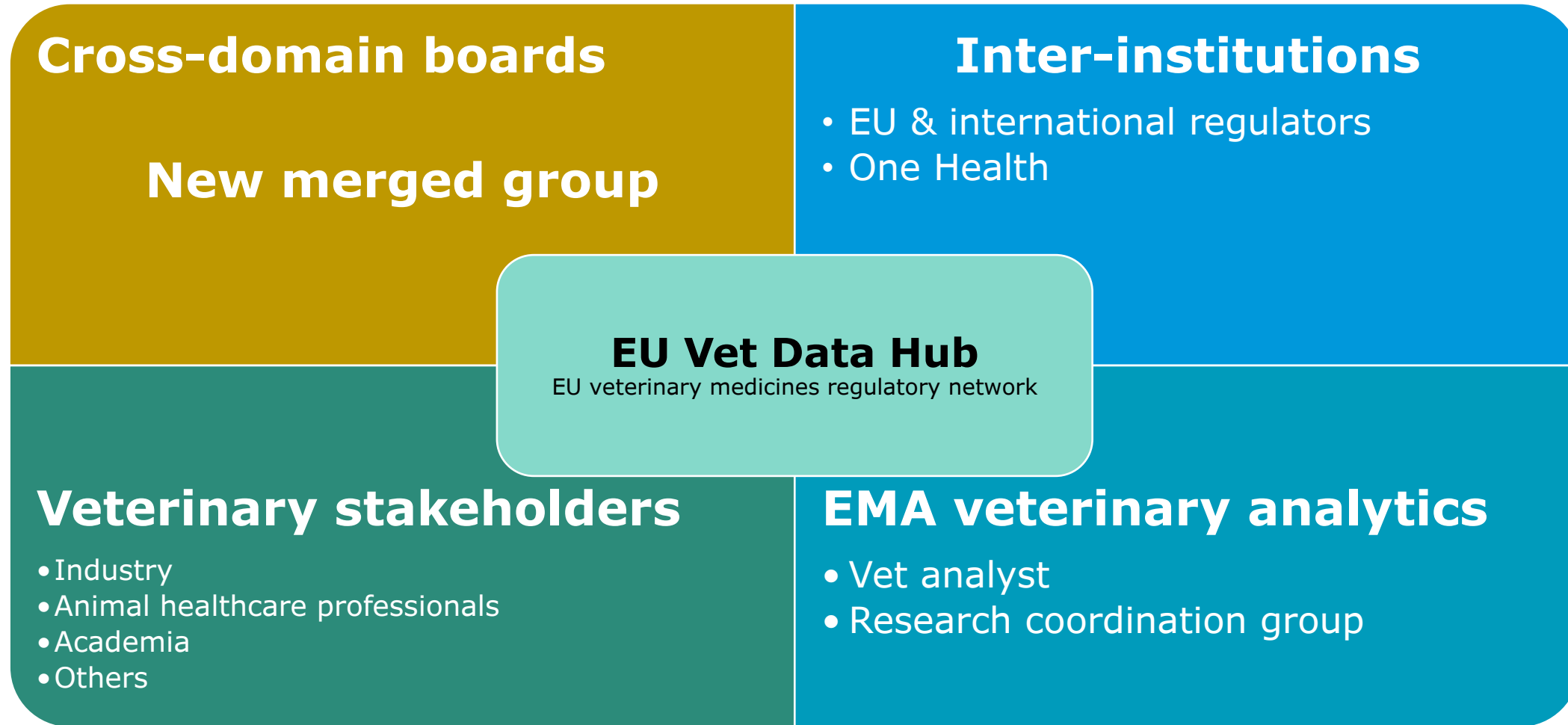


UPD data quality framework

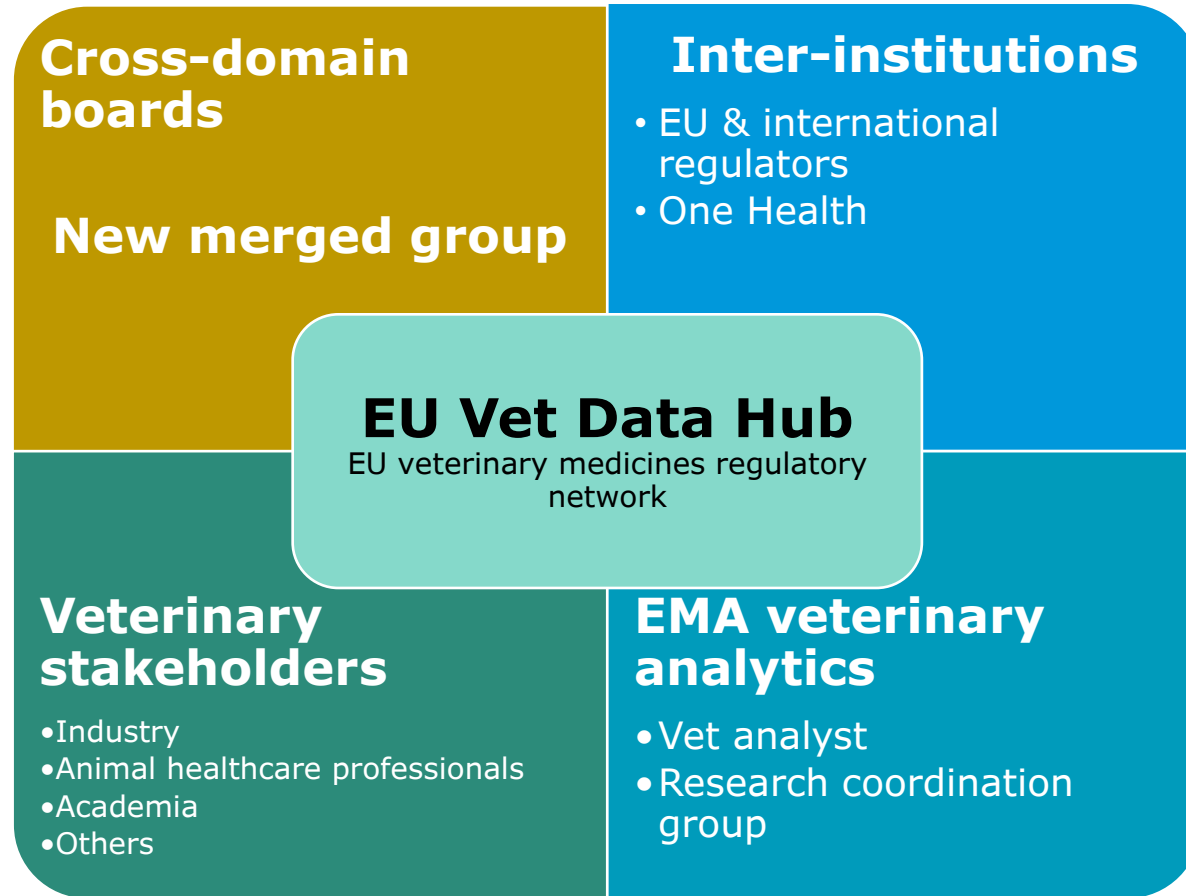


- Live for more than 1 year.
- More than 50% improvement in overall UPD data quality.
- 6th most popular dashboard in EMA.
- Ongoing project.

Governance in big data



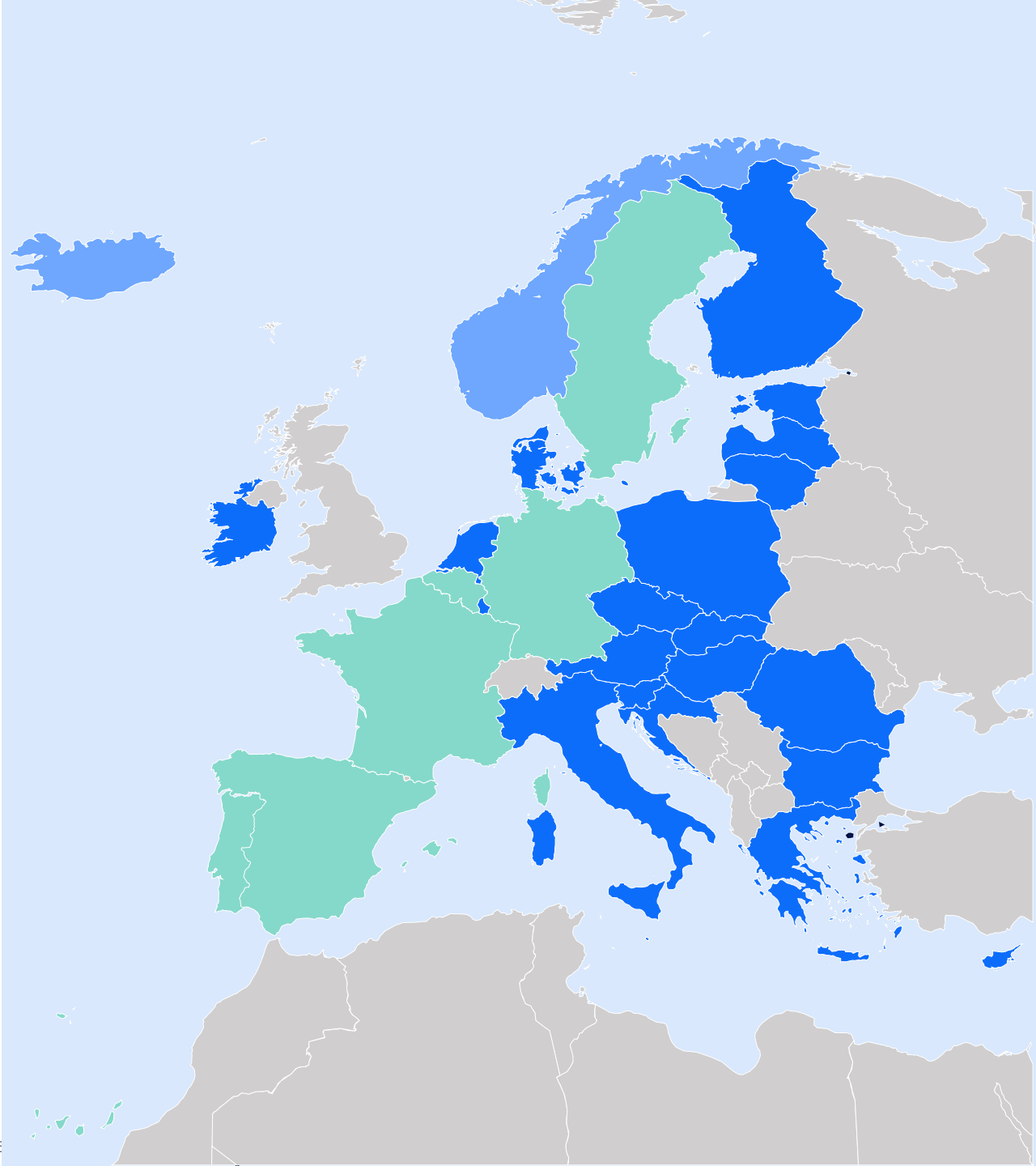
Governance in big data



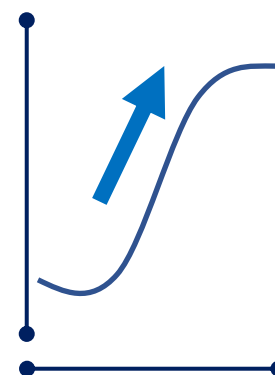
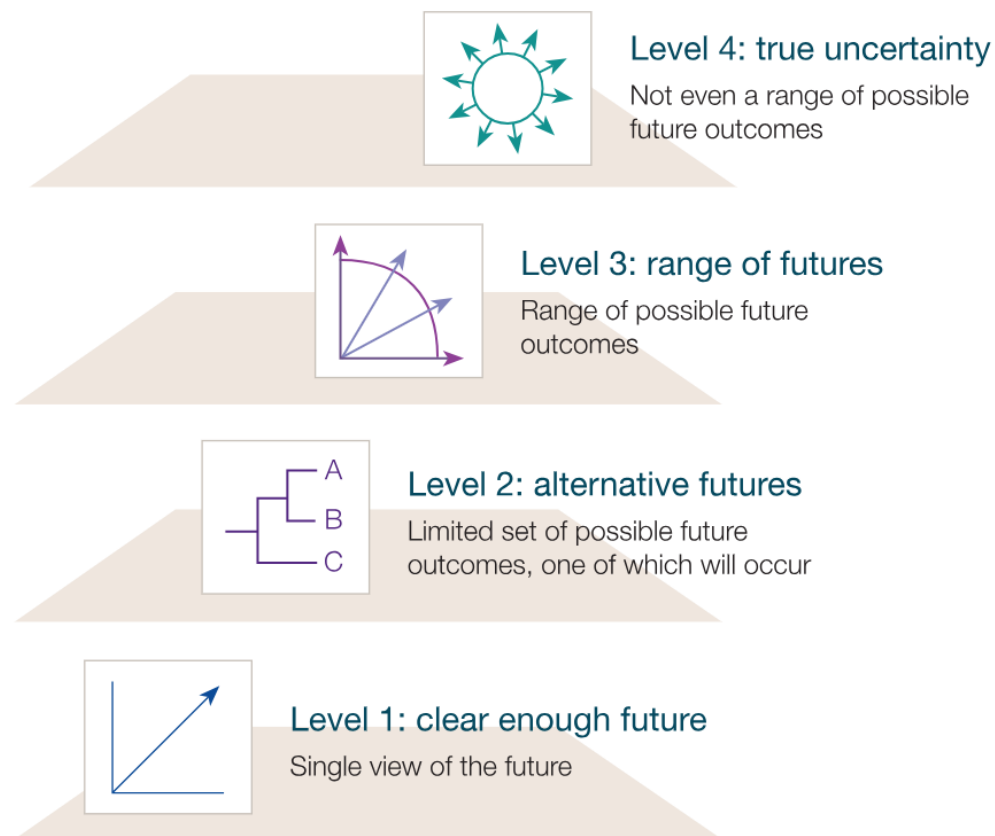
- Veterinary strategy governance and big data related topics are in the remit of the **Veterinary Big Data Hub**.
- **Additional data fora** with veterinary representation: Network Data Board and Big Data Steering Group.
- **December 2024:** BDSG + NDB will merge to form a single governance body.
- Veterinary input into new European Medicines Regulatory Network Strategy – **consultation opening soon**.

Veterinary big data hub

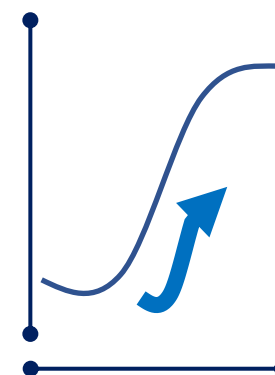
"The Vet Data Hub is a multidisciplinary forum of experts from the EU medicines regulatory network contributing to the definition of technical and structural guidance on utilization and implementation of new digital technologies to support veterinary regulatory activities."



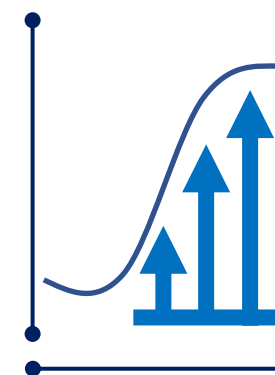
Strategic postures for new technology/process evaluation



**Shape
the
future**



**Adapt
to the
Future**



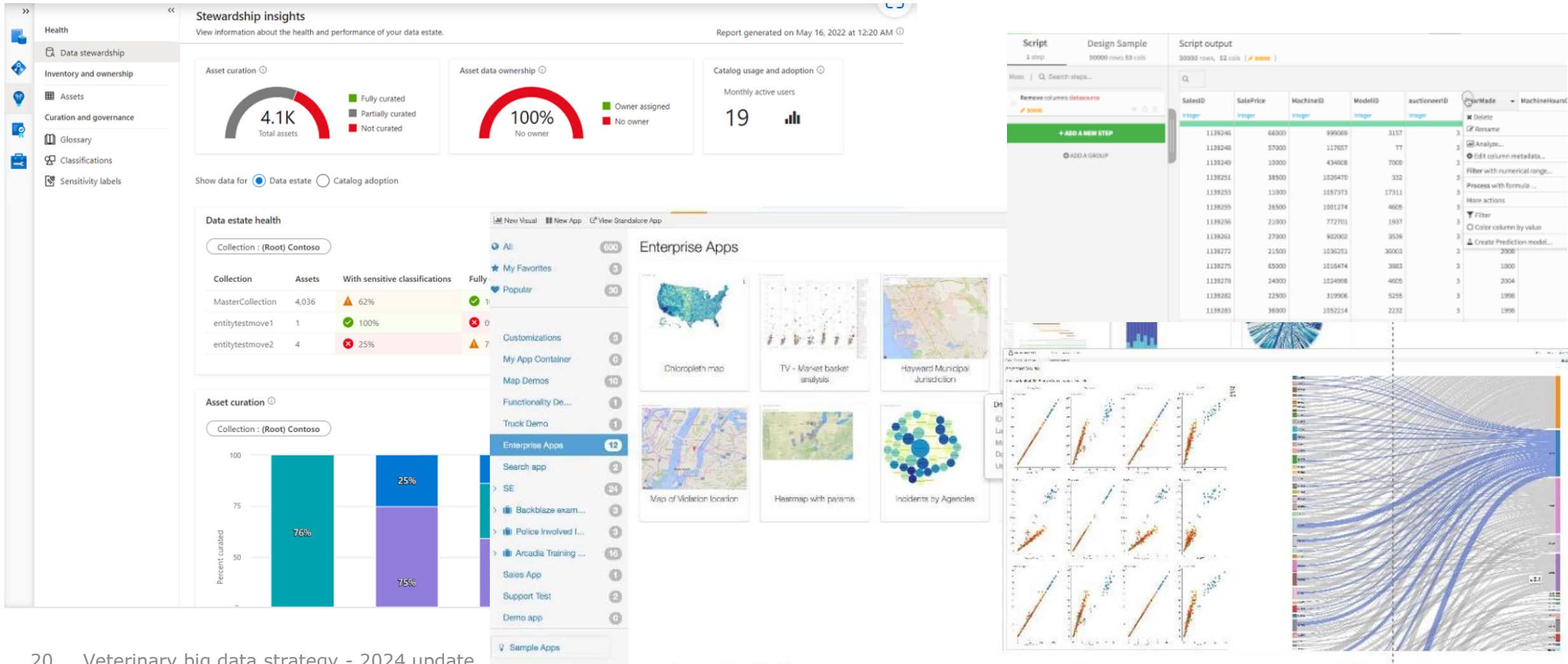
**Reserve
the right
to play**



What themes are emerging?

- AI.
- Data spaces.
- Data self-service capabilities for business users.

Business self-service for data discovery, visualisation and preparation



The next 12 months



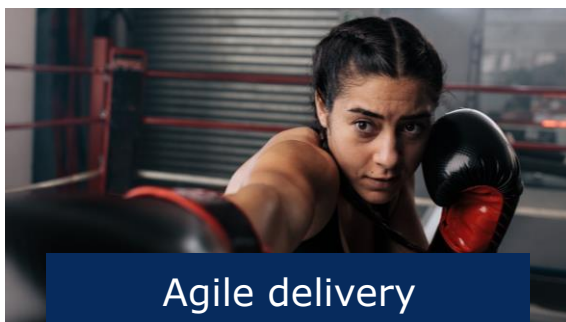
Keep “North Star” –
next iteration of big
data workplan



Clear roles and
responsibilities



Deliver value
incrementally



Agile delivery



Partnerships



Communications

Contact and dates for your diary

Contact

Send us your question to
vet-analytics@ema.europa.eu

AI multi-stakeholder workshop on 5 November 2024

- Updates on AI developments, the policy and legislative environment, the revision of the AI reflection paper, and HMA/EMA activities under the multi-annual AI workplan.
- Discussions on the progress of the AI workplan, potential updates, and AI use cases in the medicine lifecycle.

EMA/HMA Big Data stakeholder forum on 28 November 2024

- Update of the HMA-EMA Big Data Steering Group workplan.
- Discussions on progress on evidence generation, data interoperability, and exchange across the EU network to support regulatory decisions and improve medicines development.

<https://www.ema.europa.eu/en/events/upcoming-events>



ema.europa.eu



[@EMA_News](https://twitter.com/EMA_News)



[European Medicines Agency](https://www.ema.europa.eu)



vet-analytics@ema.europa.eu

Thank you for your kind attention.

Send a question via [our website](https://ema.europa.eu)

