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## Q&A Management

- Questions will be shown on the screen and managed live in the Q&A session
- EMA colleagues will attempt to **address questions in writing throughout the session**
- EMA colleagues will **verbally address (unanswered) top voted questions** at the end in the live Q&A session.



## Unanswered questions

- This can be due to high volume of questions or assistance of a specific colleague not available today is required.
- Unanswered questions will be reviewed, and the **most relevant ones may be addressed** in other webinars or in a FAQ document.
- We may request that you ask **Questions on specific issues/cases** in Service Desk to be tracked, investigated and adequately assigned.



**Presentations** will be\* available at:

- SPOR Portal Documents section
- EMA Events Web Page

\*1<sup>st</sup> version of presentation already published,  
to be updated with final version (if necessary)



**Recordings** will be available at:

- EMA YouTube Channel
- EMA Events Web Page



***Registered participants*** may receive webinar materials (when all available) via email.



EUROPEAN MEDICINES AGENCY  
SCIENCE MEDICINES HEALTH

## SPOR Data Governance

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2 October 2023, 10:00 – 12:00 Central European Summer Time (CEST)

*Presented by Isabel Chicharo*

SPOR Webinar Series – 2-12 October 2023





During **SPOR webinars**, EMA's Regulatory Data Management Service team talks about all aspects of regulatory data management and how it works today.

 Webinar title	 Date	 Time
<b>SPOR and XEVMPD Data Governance</b>	2 October 2023	10:00-12:00 CEST
<b>Referentials Management Service (RMS)</b>	3 October 2023	10:00-12:00 CEST
<b>Organisation Management Service (OMS)</b>	4 October 2023	10:00-12:00 CEST
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<b>EMA Account Management</b>	11 October 2023	10:00-12:00 CEST
<b>SPOR application programming interface (API) - SPOR API</b>	12 October 2023	10:00-12:00 CEST



Explain how SPOR data is governed



Provide context for the other topics of SPOR week



Explain how the Agile transformation has changed data governance



1

**Welcome**  
10:00 – 10:05

2

**SPOR Data Governance Framework**

3

**Data Governance - Strategy**

4

**Data Governance - Processes**

5

**Data Governance - Policies & standards**

6

**Data Governance - Organisational structure/ Roles & responsibilities**

7

**Data Governance - Enablement**

8

**Key takeaways and Conclusions**



9

**Q&A Session**  
11:45 – 12:00

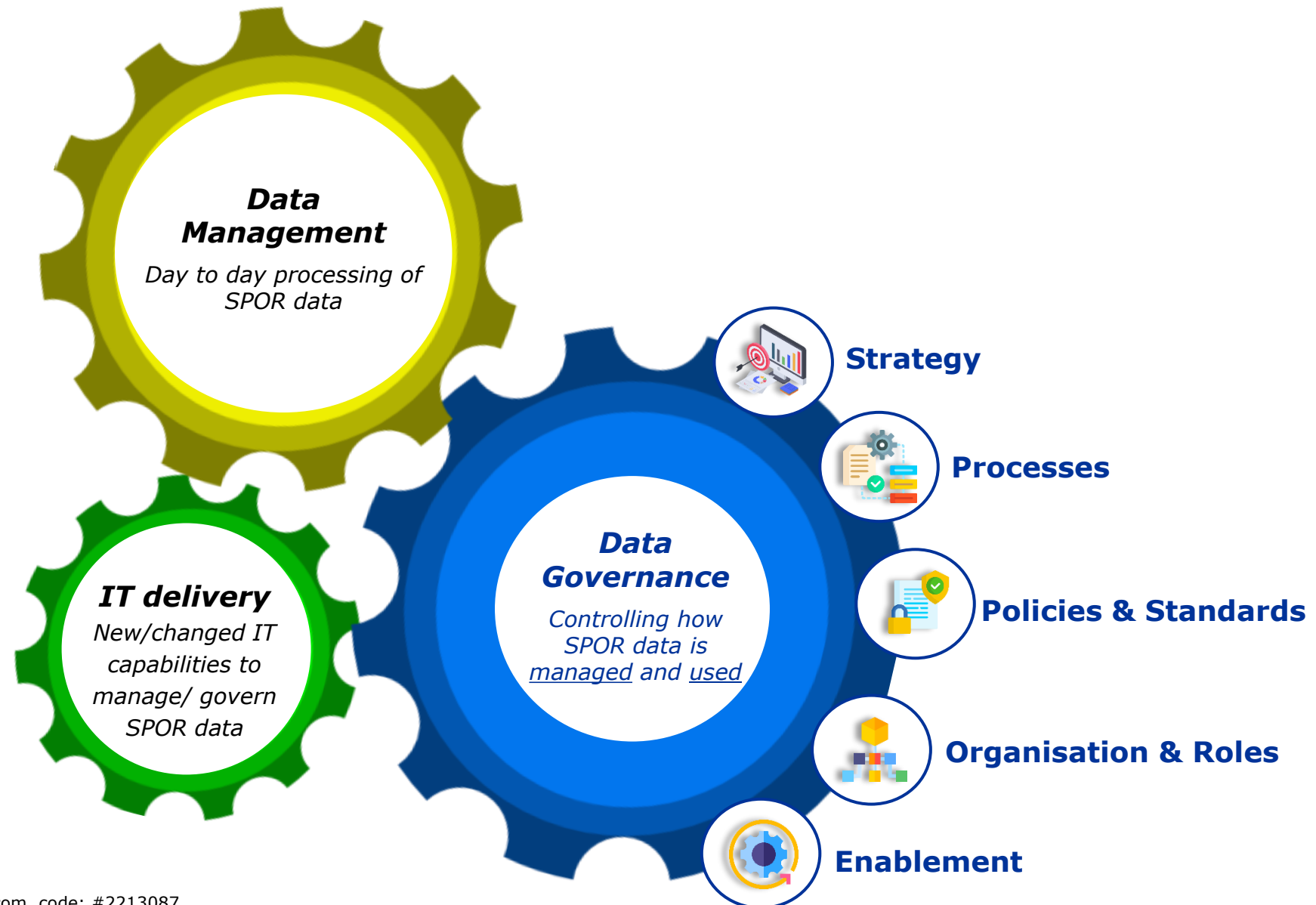


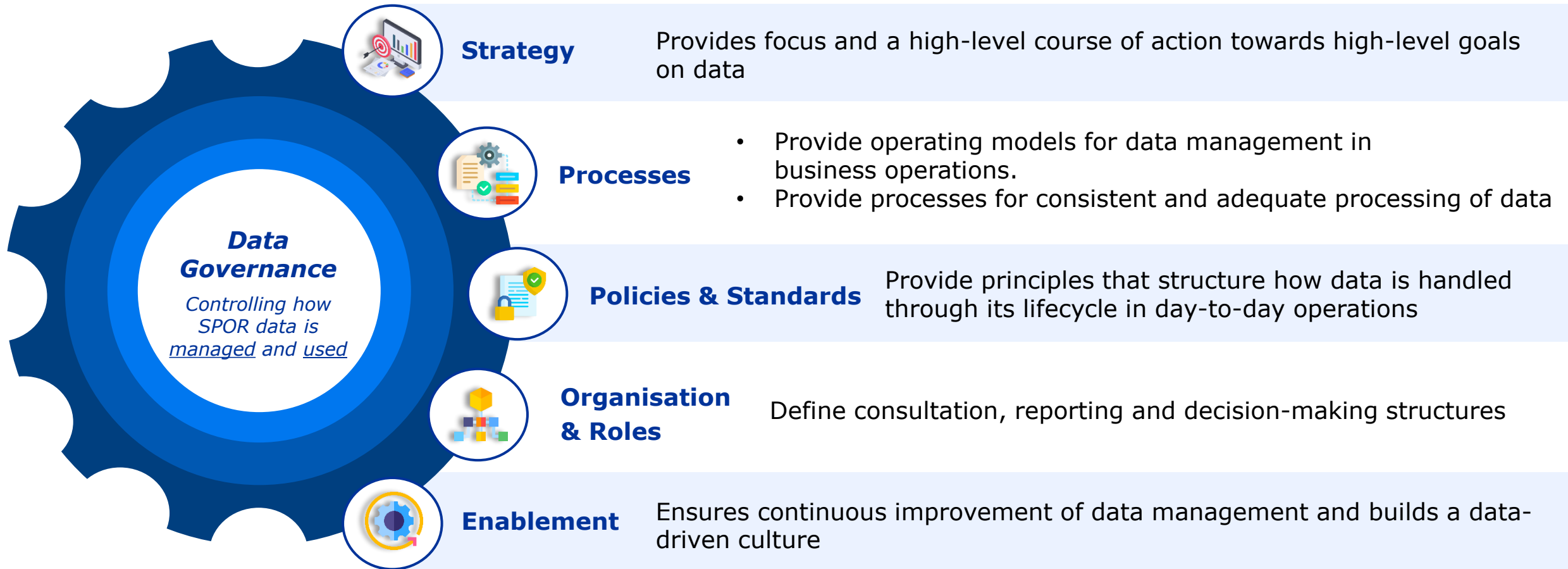


# SPOR Data Governance Framework

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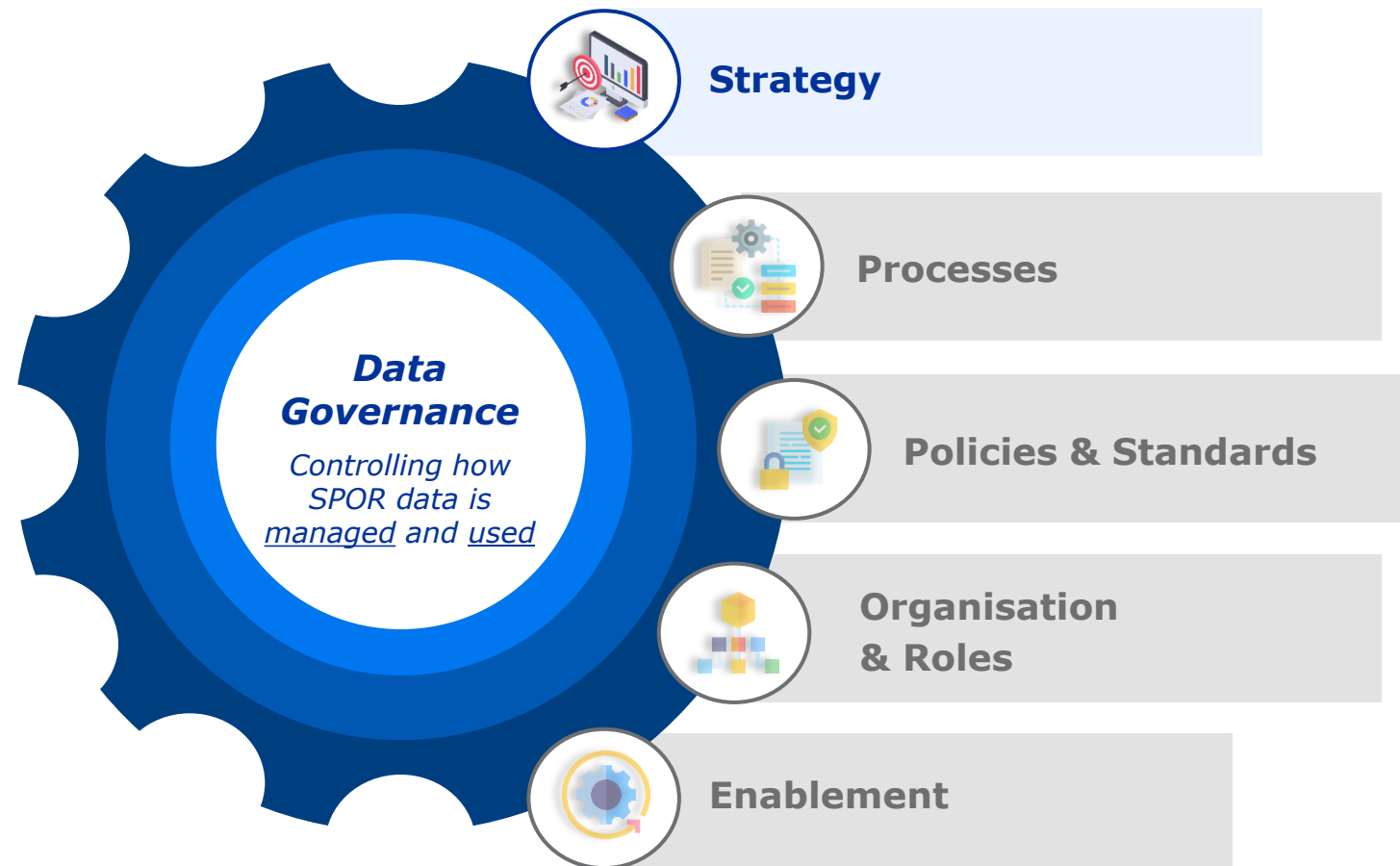




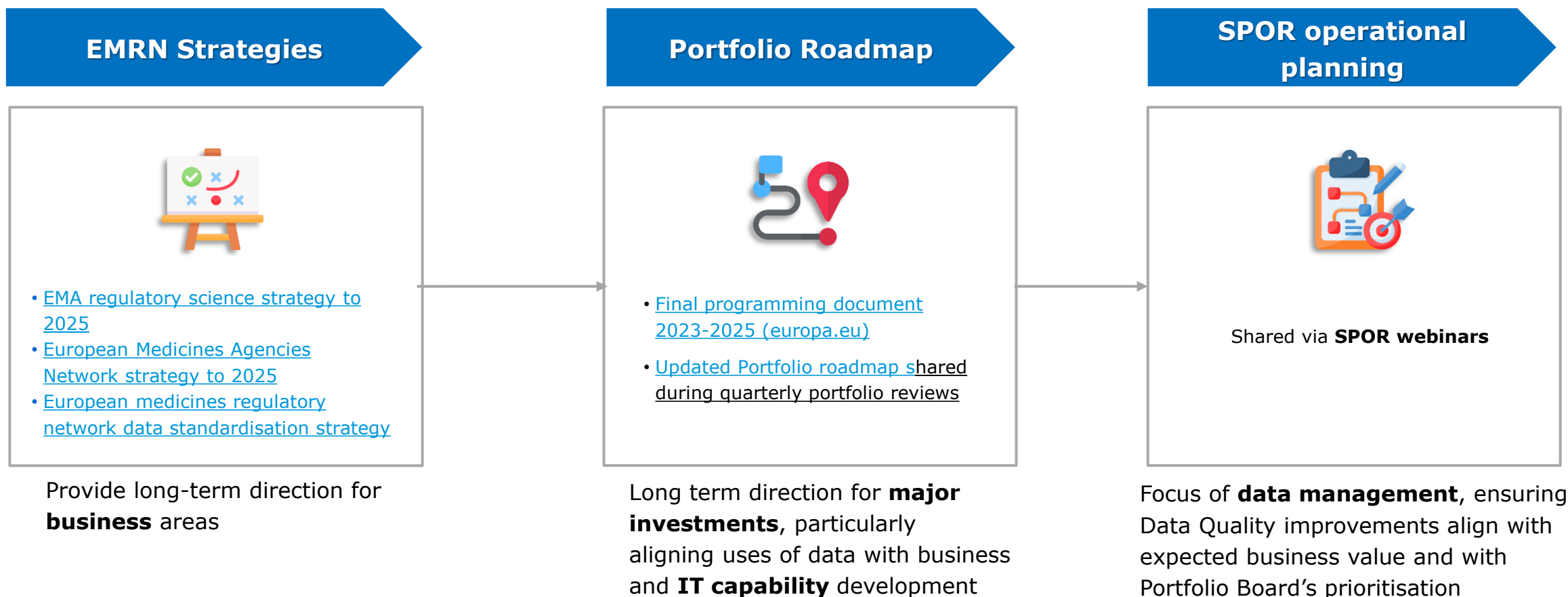


# Strategy

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EMA provides master data quality services on **Substances, Products, Organisations and Referentials** that enhance the quality of the medicinal product data used by the Network, the pharmaceutical industry and other stakeholders and **support regulatory activities in EU.**



## *Long-term direction for business areas*

### EMRN Strategies



- [EMA regulatory science strategy to 2025](#)
- [European Medicines Agencies Network strategy to 2025](#)
- [European medicines regulatory network data standardisation strategy](#)



EMA regulatory science strategy to 2025 → **SPOR supports the key goals** of the strategy



European Medicines Agencies Network strategy to 2025 → **SPOR is specifically referred to in 5 of the 6 priorities** of the strategy

- **Availability and accessibility of medicines**
- **Data analytics, digital tools and digital transformation**
- **Innovation**
- Antimicrobial resistance and other emerging health threats
- **Supply-chain challenges**
- **Sustainability of the network and operational excellence**



European medicines regulatory network data standardisation strategy → Contains a chapter dedicated to **SPOR/IDMP and standardisation of Medicinal Product data**

## *Aligning uses of data with business and IT capability development priorities*

### Portfolio Roadmap



- [Final programming document 2023-2025 \(europa.eu\)](#)
- [Updated Portfolio roadmap shared during quarterly portfolio reviews](#)

### **Portfolio activities supporting SPOR IT enablement**

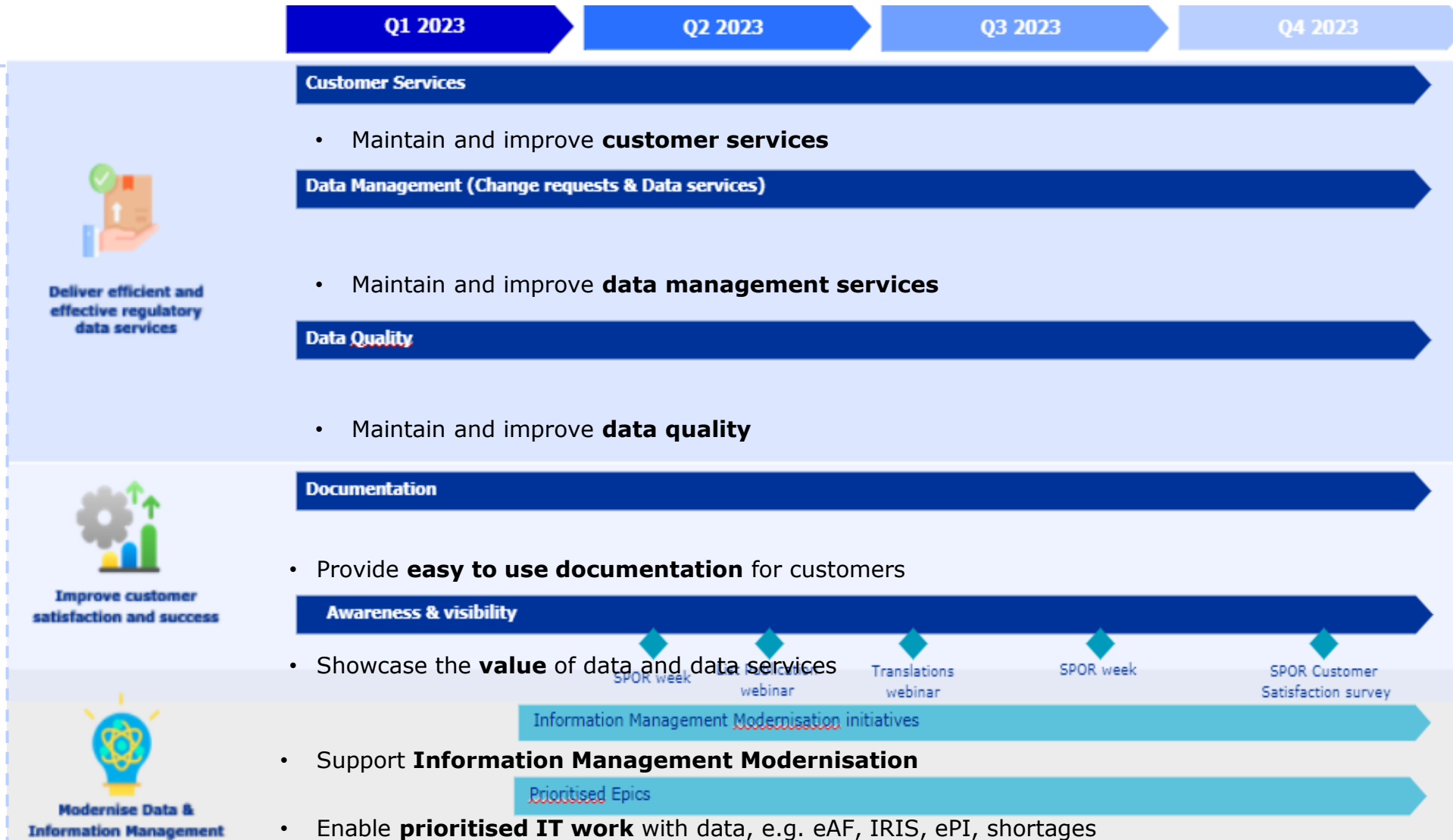
- Research & Development Value Stream - SMS UI/Portal to support access and transparency to substance data
- Research & Development Value Stream - SMS-EU-SRS integration to improve substance data quality
- Product Lifecycle Mgmt Value Stream - Work on Product management services (PMS) which supports other portfolio activities
- No specific portfolio activities for RMS & OMS as major IT enablement was completed in 2017

### **Portfolio activities driving SPOR operational work**

- RMS is preparing new lists for different projects e.g. Real World Data lists
- OMS is mapping, revising rules and registering new organisations e.g. Manufacturers of medical devices
- SMS is enriching data to support Antimicrobial Sales and Use (ASU) data reporting
- PMS is increasing the monitoring of medicinal product data to minimise migration/synchronisation issues across databases (xEVMPD/SIAMED-PMS-IRIS-DADI)

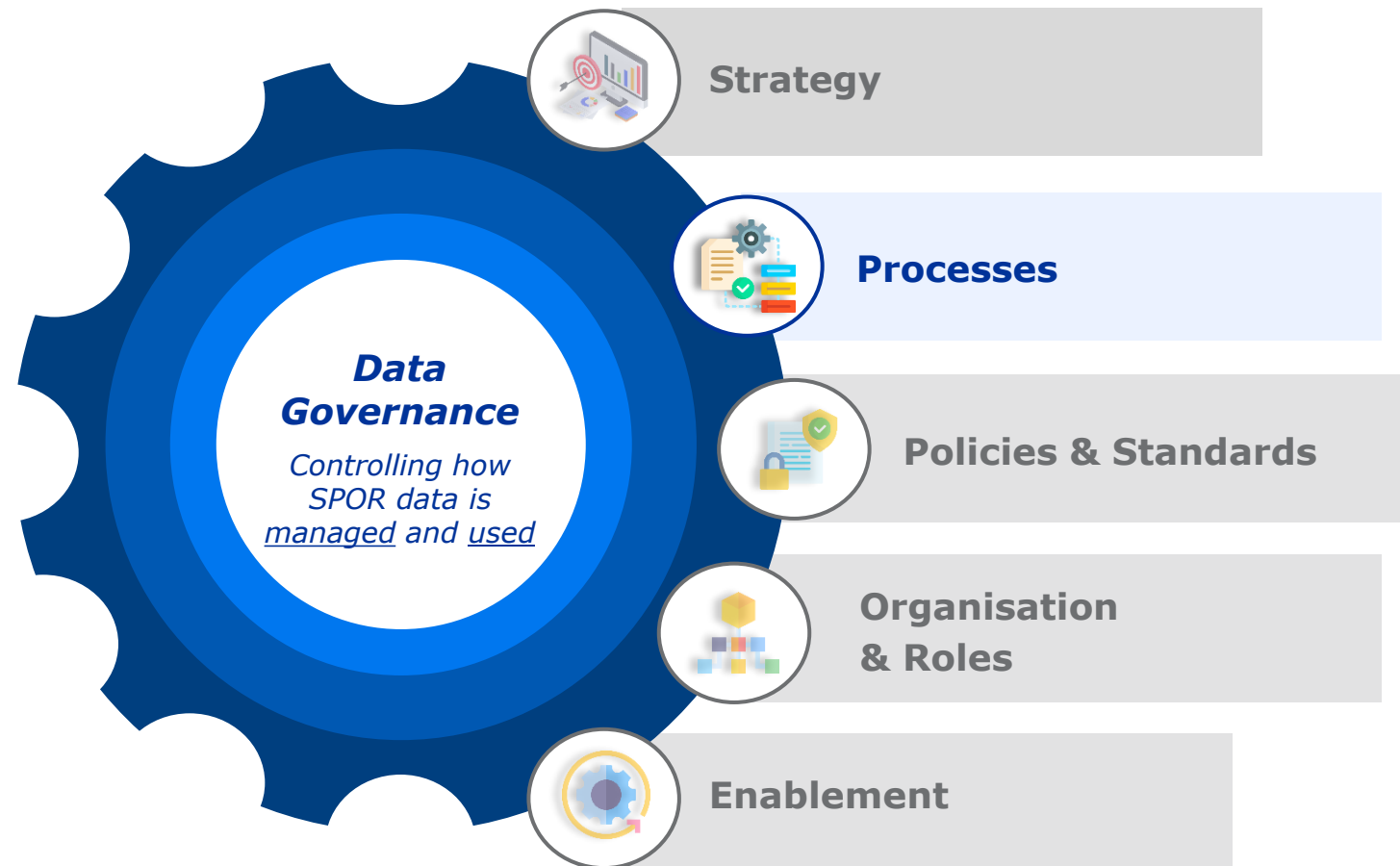
**Ensuring Data Quality improvements align with expected business value and with Portfolio Board's prioritisation**

- SPOR data service **objectives** translated into annual operational plans
- 1 plan **per SPOR domain**
- operational plans shared in **SPOR webinars** 2x a year



## Processes

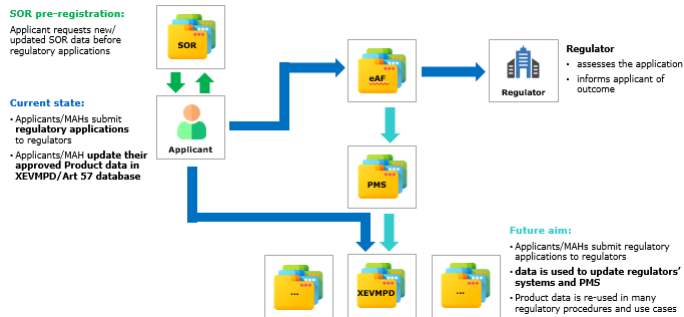
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## Operating Model

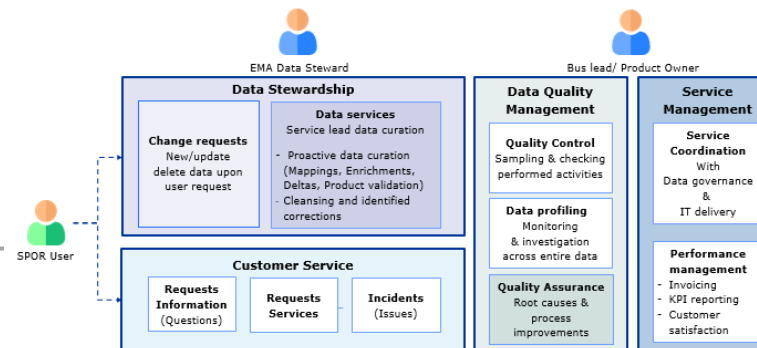
### Data mgt in the regulatory business context



- Industry and NCAs **pre-register or update SPOR data** before regulatory applications or submissions
- Industry **submits authorised product data**

## Data Mgmt processes

### High-level data mgt processes carried out



- EMA provides Data stewardship and Customer services to Stakeholders
- Data Quality mgt and Service mgt processes are in place to guarantee high level data quality and service performance

## Data operations

### Actions performed on data



- Create
- Update/merge/unmerge/ nullify
- Delete – EMA never permanently deletes any data!

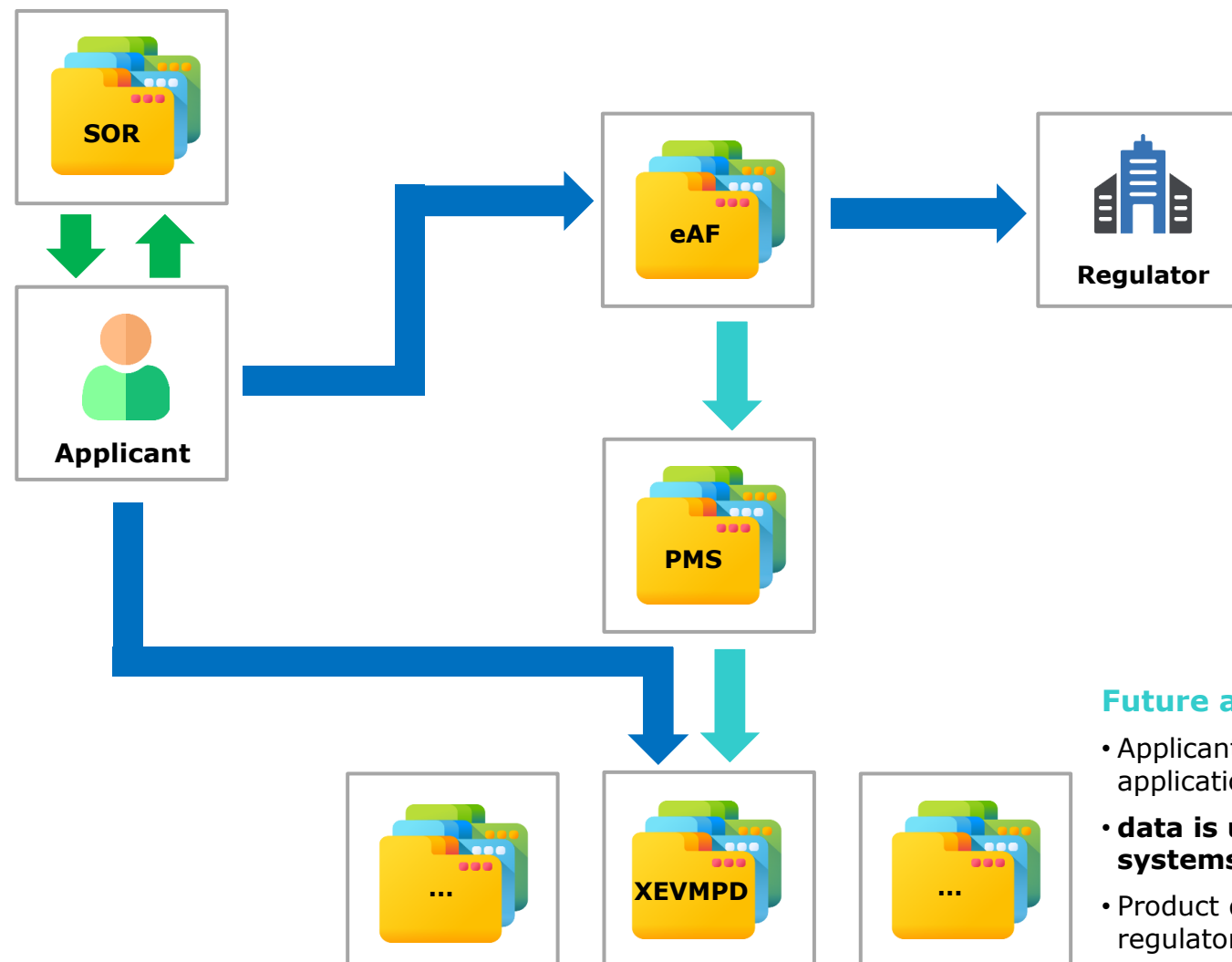


## SOR pre-registration:

Applicant requests new/updated SOR data before regulatory applications

## Current state:

- Applicants/MAHs submit **regulatory applications** to regulators
- Applicants/MAH **update their approved Product data in XEVMPD/Art 57 database**

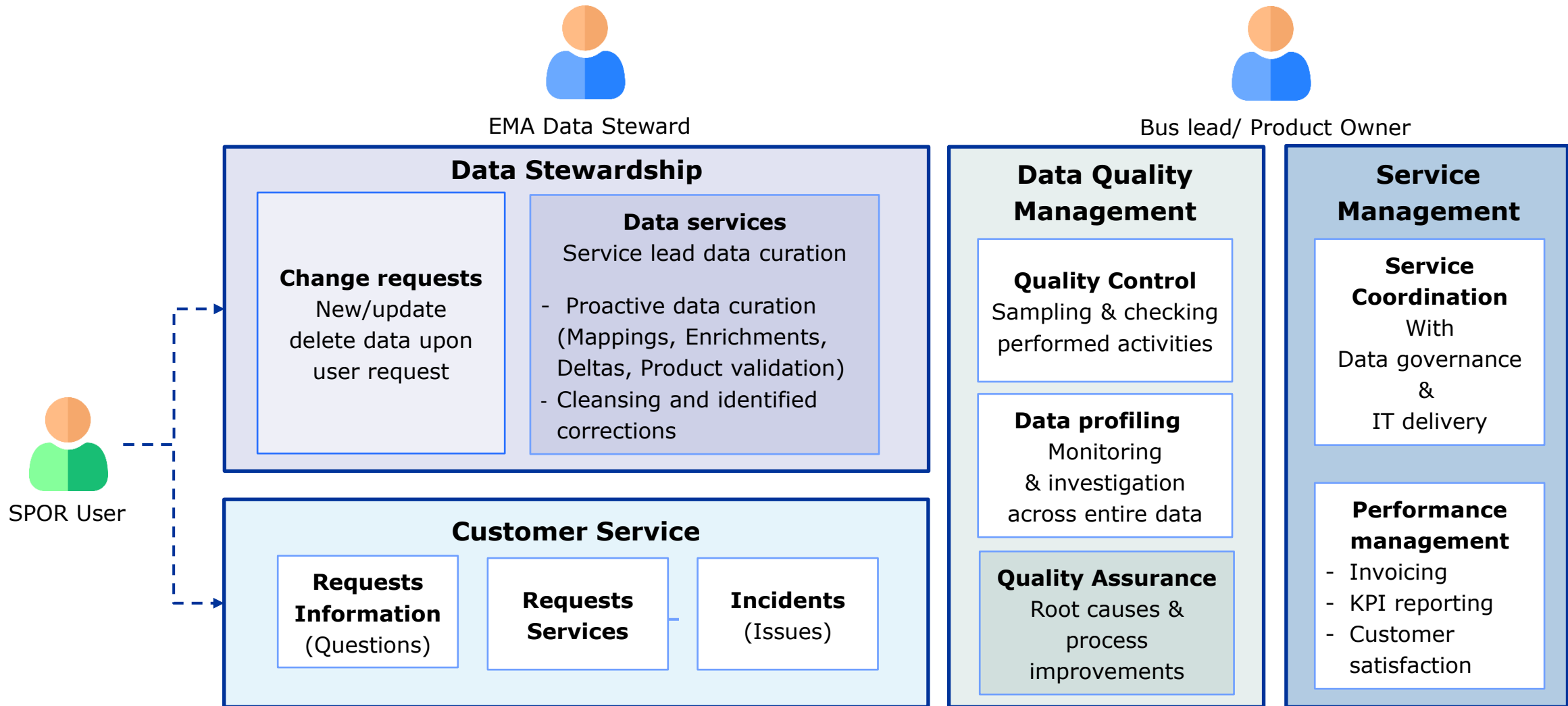


## Regulator

- assesses the application
- informs applicant of outcome

## Future aim:

- Applicants/MAHs submit regulatory applications to regulators
- **data is used to update regulators' systems and PMS**
- Product data is re-used in many regulatory procedures and use cases

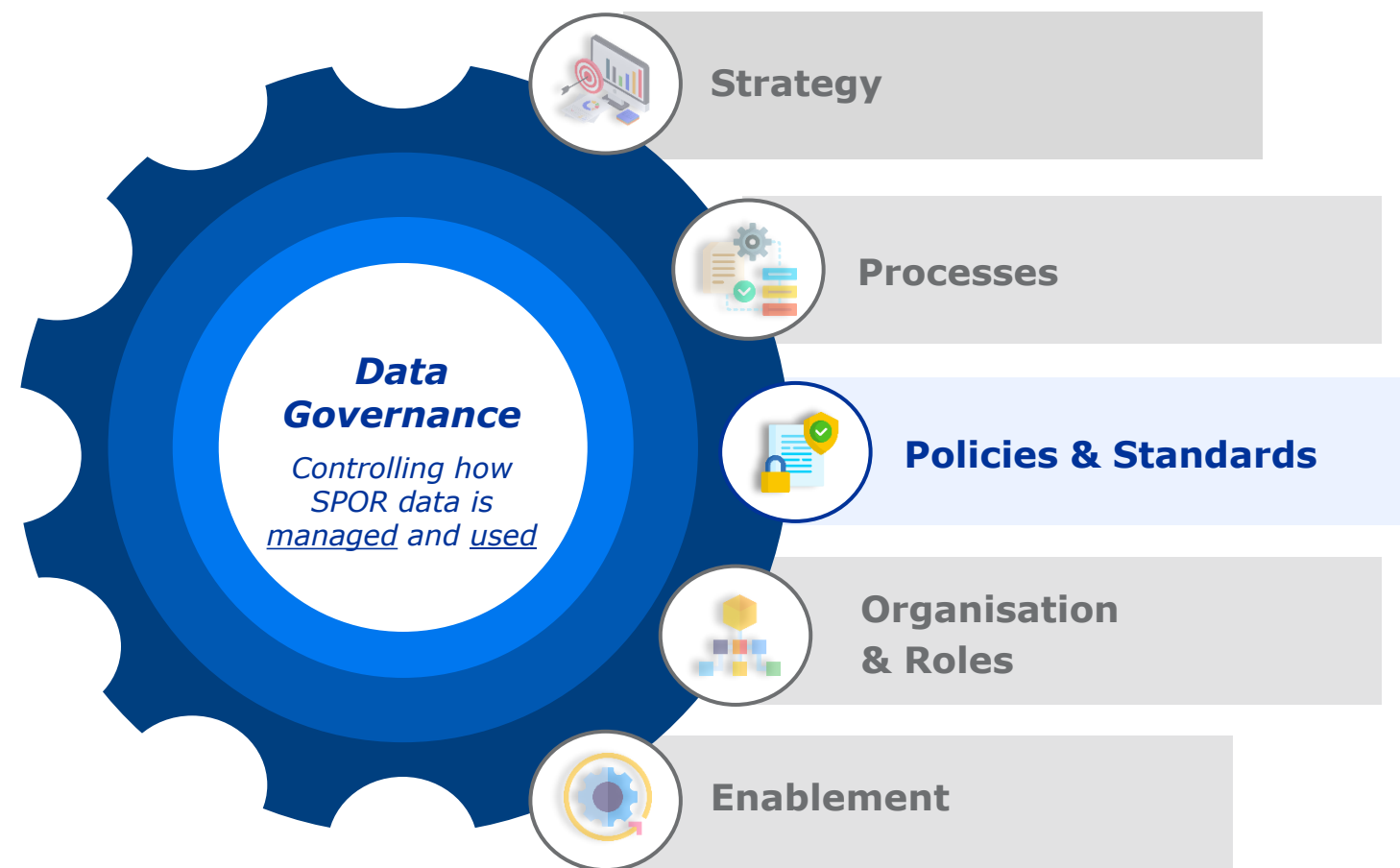


***Data management processes are defined, operational and are monitored/reported on***

Details for each SPOR domain elaborated in individual webinars in current & next week.

## Policies & standards

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- **Policies & Standards**

- provide broad principles of operation
  - give structure to how data handling during its lifecycle in day-to-day operations.
- 
- SPOR applies **International Standards** (ISO IDMP and FHIR)
    - International Organisation for Standardisation (ISO), Identification of Medicinal Products (IDMP) standards
    - HL7 Messaging Specifications: messages used to exchange IDMP information, based on HL7 (Health Level Seven) Standards particularly [Fast Healthcare Interoperability Resources](#)
  - SPOR applies [EMA policies](#)
  - SPOR **policies and data quality rules** are defined in **domain specific documentation**  
e.g., OMS Data Quality rules, RMS list information, XEVMPD guidance
  - Domain specific policies and rules further elaborated during **SPOR webinars**

## SPOR portal & EV restricted area

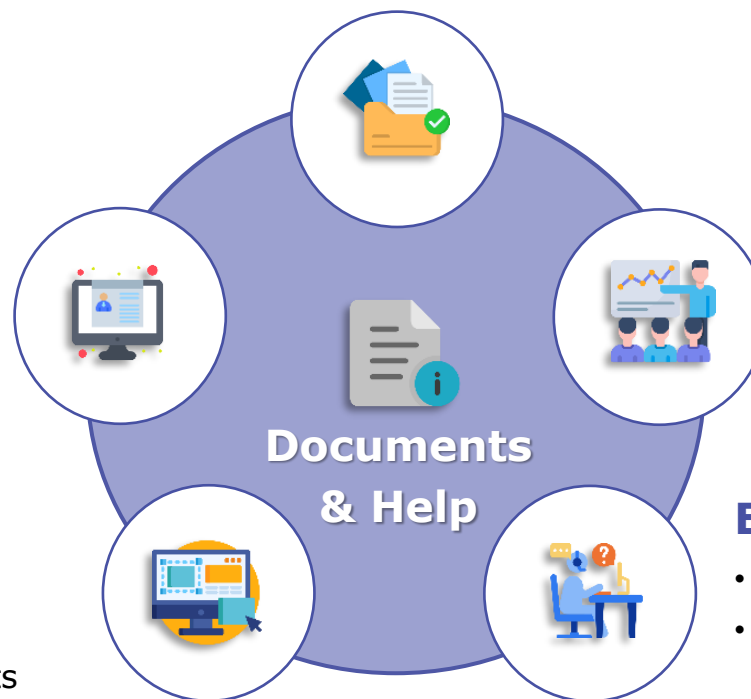
- SPOR reference documentation - primary documentation needed to successfully use SPOR services
- XEVMPD user support section – technical documentation

## EMA Account Management Portal

- Guidance on to obtain access to EMA systems (including SPOR)
- Create a new EMA account and request SPOR user role

## EMA corporate website

- SPOR vision and general introduction to SPOR projects
- SPOR related information and documents
- XEVMPD data submission requirements



## Training opportunities

- [@emainfo channel](#) contains Videos of SPOR webinars with tips/tricks and questions raised from users
- [XEVMPD e-learning](#) available
- [XEVMPD training organised by DIA](#)

## EMA Service Desk

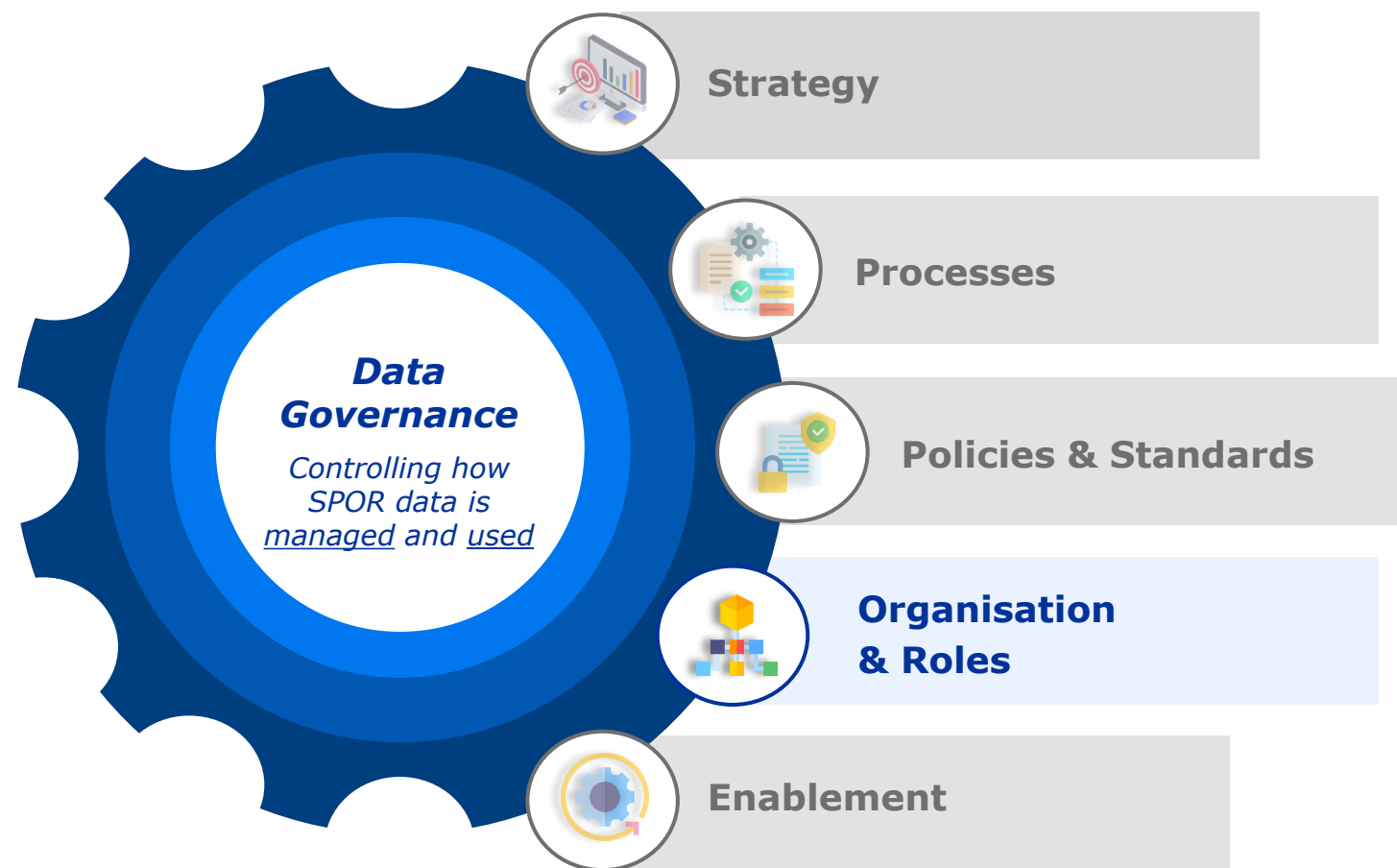
- For any help needed and not found in other documents
- Including: Service requests, issues, requests for technical support
- submitted through the [ServiceNow Portal](#)



*Find demos and further details in other SPOR webinars, as documents are domain-specific*

## Organisational structure/ Roles & responsibilities

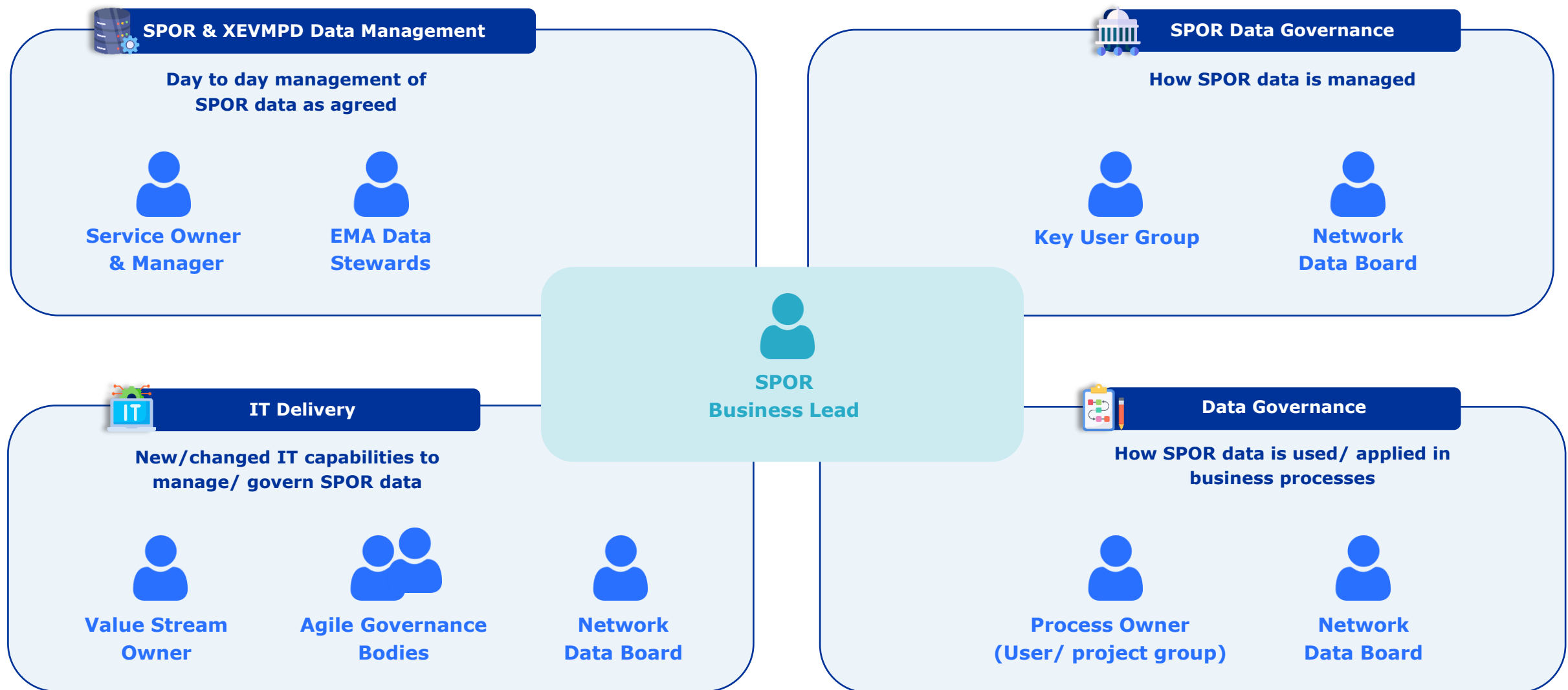
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# Organisation, roles and responsibilities – who does what?



EUROPEAN MEDICINES AGENCY







## SPOR & XEVMPD Data Management

Day to day management of SPOR data as agreed

### Service Ownership

has overall accountability for SPOR data services and ensures quality and availability of the data services

**Service Owner**

*Head of Information Management*  
Hilmar Hamann

*Head of Core Services*  
Christoph Pillichshammer

**Service Manager**

*Head of Regulatory Data Management*  
Isabel Chicharo

**Data stewardship** ensures that data processes, policies and standards are in place and are being followed

**Substance Business Lead**  
Pedro Batista

**Product Business Lead**  
Marcos Fernandez &  
Veronika Baker

**Organisation Business Lead**  
Debora Martins Braga

**Referentials Business Lead**  
Jaume Gonzalez

**EMA Data Stewards**

**EMA Data Stewards**

**EMA Data Stewards**

**EMA Data Stewards**

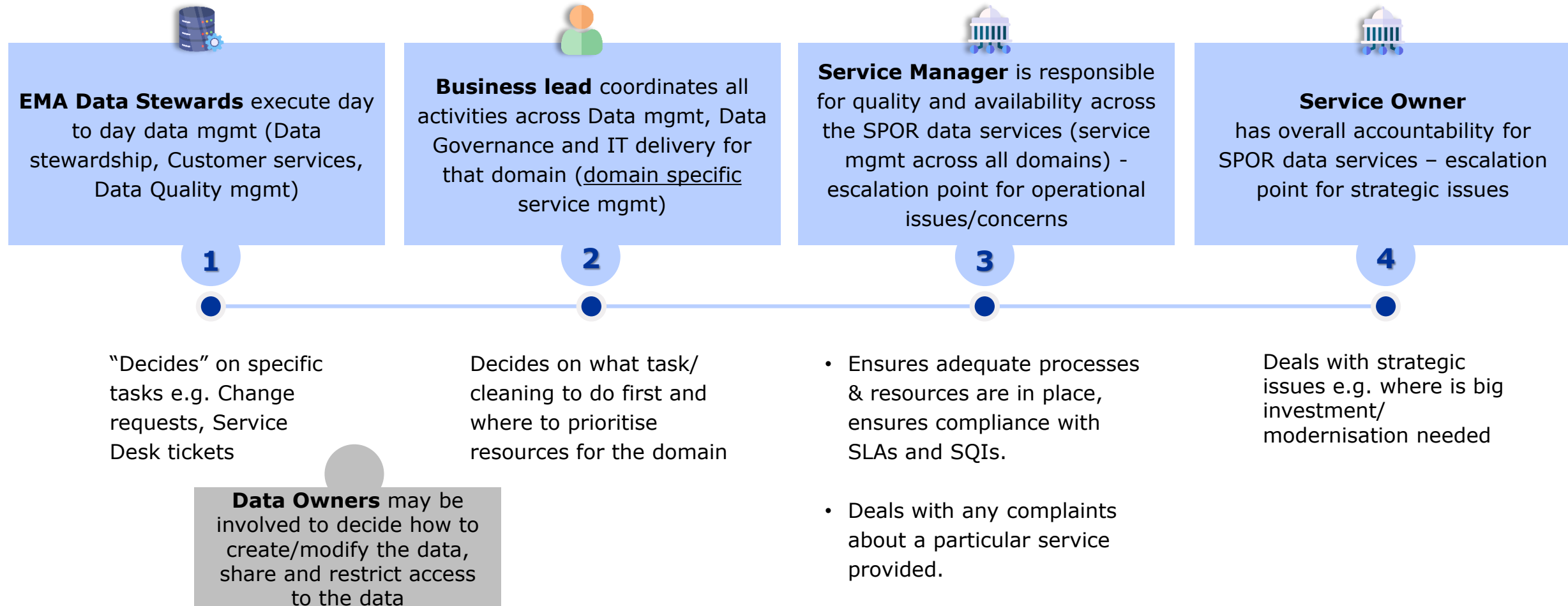
**Data ownership** decides how to create/modify the data, share and restrict access to the data

**Substance data owner**  
Substance Validation Group

**Product data owner**  
Industry/MAH

**Organisation data owner**  
EMA

**Referentials data owners**  
EDQM, EMA/BfArm, ISO, MSSO, WHO, EMA





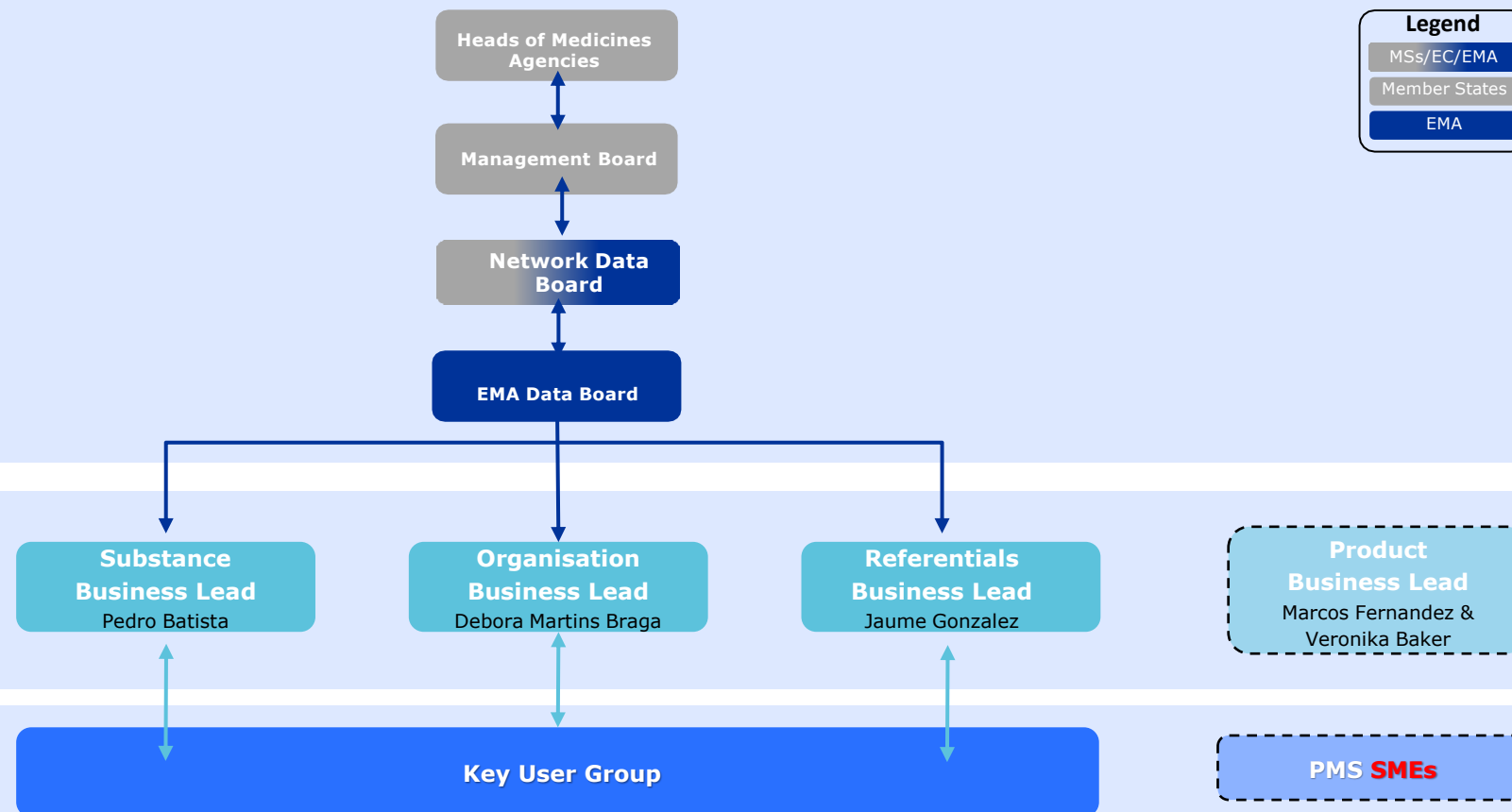
## Data Governance

How SPOR data is managed and used

**Data Governance** controls the management and use of data i.e. decides on **major changes** to SPOR data mgmt

**Data leadership** ensures agility in data mgmt changes i.e. decides **small changes** to SPOR data mgmt

**User groups** ensures stakeholder views are considered



### Notes:

- xEVMPD is being managed as per rules defined by Art 57 Implementation Working Group (IWG).
- PMS will replace xEVMPD and is being governed by Agile Governance and supported by POs and SMEs.
- When PMS is in operation it will be governed under SPOR governance (KUG & NDB)



**EMA Data Stewards**  
execute day to day data  
mgmt and collect issues  
via Service Desk/Change  
Requests

Escalation to **Business Lead**  
who understands issue and  
requirements, explores  
options and prepares to  
consult Key User Group

**Key User Group** advises  
on changes  
to SPOR data mgmt

**Business lead**  
decides/implements  
changes that have no  
significant impact to SPOR  
data mgmt

**EMA/Network Data  
Board** advises/decides  
changes that have  
significant impact to SPOR  
data mgmt

1

2

3

4

5

How can I **capture**  
**Large volume receiver**  
addresses in OMS?

This is a problem in  
Germany → Local SMEs  
are consulted → Advice  
is provided

- OMS Data Quality rules  
doc is updated with new  
large volume receiver  
rules and published;
- New rules are  
implemented for  
new/updated orgs/locs

E.g. dealing with  
Multiple/combine  
d locations



**Stakeholders** are informed via SPOR Portal, dedicated  
communication or via SPOR webinars



**Feedback is collected from users** by Key User Group or EMA Data Stewards

1

How is OMS becoming mandatory for CP?  
What are the impacts?



Escalation to **Business lead** who consults **Network Data Board**

2

Understands issue and user concerns, explores options



**Network Data Board** advises process owners on best data mgmt practices across business areas

3

- Stakeholder readiness
- Information needed for users
- Detailed rules/instructions (Applications should not be rejected; Dossier does not need to be aligned)
- ...



The **process owner** decides how to implement SPOR in its business area

4

- H-div considers advice but ultimately defines the timelines and rules of how this will be implemented
- Timelines extended & FAQ prepared



**Business lead** steers any needed changes and data stewards implement them

5

- Business lead contributes to FAQ
- FAQ is published and advertised by KUG



**Stakeholders** are informed **by Process Owners**.

SPOR team may contribute to the elaboration of information such as FAQ or dedicated webinars.



## IT Delivery

New/changed IT capabilities to manage/ govern SPOR data

**Governance Bodies** provide strategic direction and govern major investments

**Agile Governance Bodies**



[Click here for further information](#)

**Value Streams (VS)** align delivery with expected business value, provide tactical/strategic focus

**Technology lifecycle  
mgmt information  
security VS**

**VSO:** Leonidas Tertipis  
**VSM:** Pedro Rodriguez

**Managing the Agency VS**

**VSO:** Mireia Castillon  
**VSM:** Rob Hopping

**Research and  
development VS**

**VSO:** Steven Le Meur  
**VSM:** Nektaria Varela

**Product Lifecycle  
Management VS**

**VSO:** Karl Hamilton  
**VSM:** Melanie Loveday/  
Hannes Kulovits

**Monitoring VS**

**VSO:** Pedro Pina Ferreira  
**VSM:** Pedro Oliveira

**Product teams** deliver the product/solutions



**OMS PO**  
Debora  
Martins



**RMS PO**  
Jaume  
Gonzales



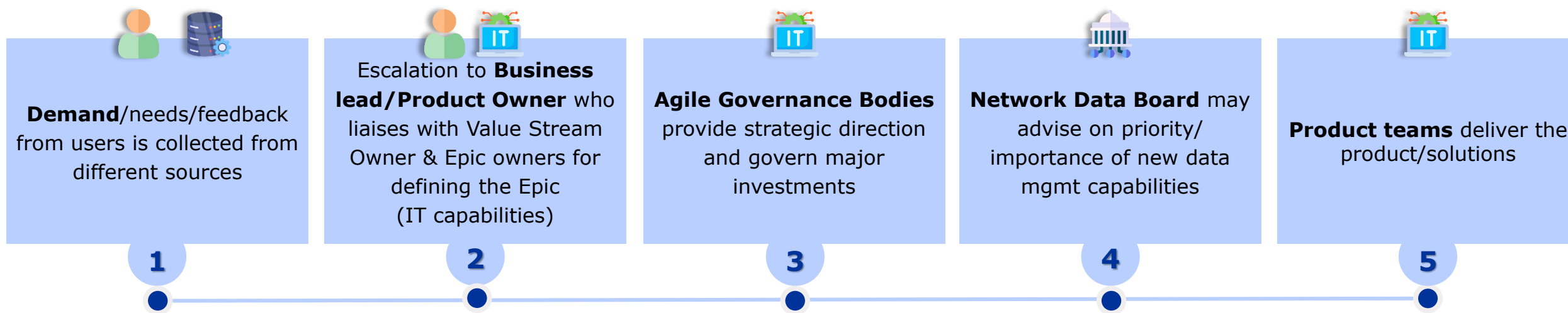
**SMS PO**  
Pedro Batista



**PMS PO**  
Marcos F. Gomez &  
Veronica L. Di Paola  
Dino Soumpasis (Network)  
**XEVMPD PO**  
Marcos F. Gomez &  
Veronika Baker

**VSO:** Value Stream Owner  
**VSM:** Value Stream Manager  
**PO:** Product Owner

**SPOR Epic Owner – Isabel Chicharo**



- KUG collects feedback from users on data mgt tools – changes & improvements.
- EMA Data Stewards collects Data Quality/process input via EMA Service Desk/Change Requests.
- Process owners can provide data requirements on how to use SPOR data in its business process/context

- Prioritisation is done by **Portfolio Board** and **Network Portfolio Advisory Group**

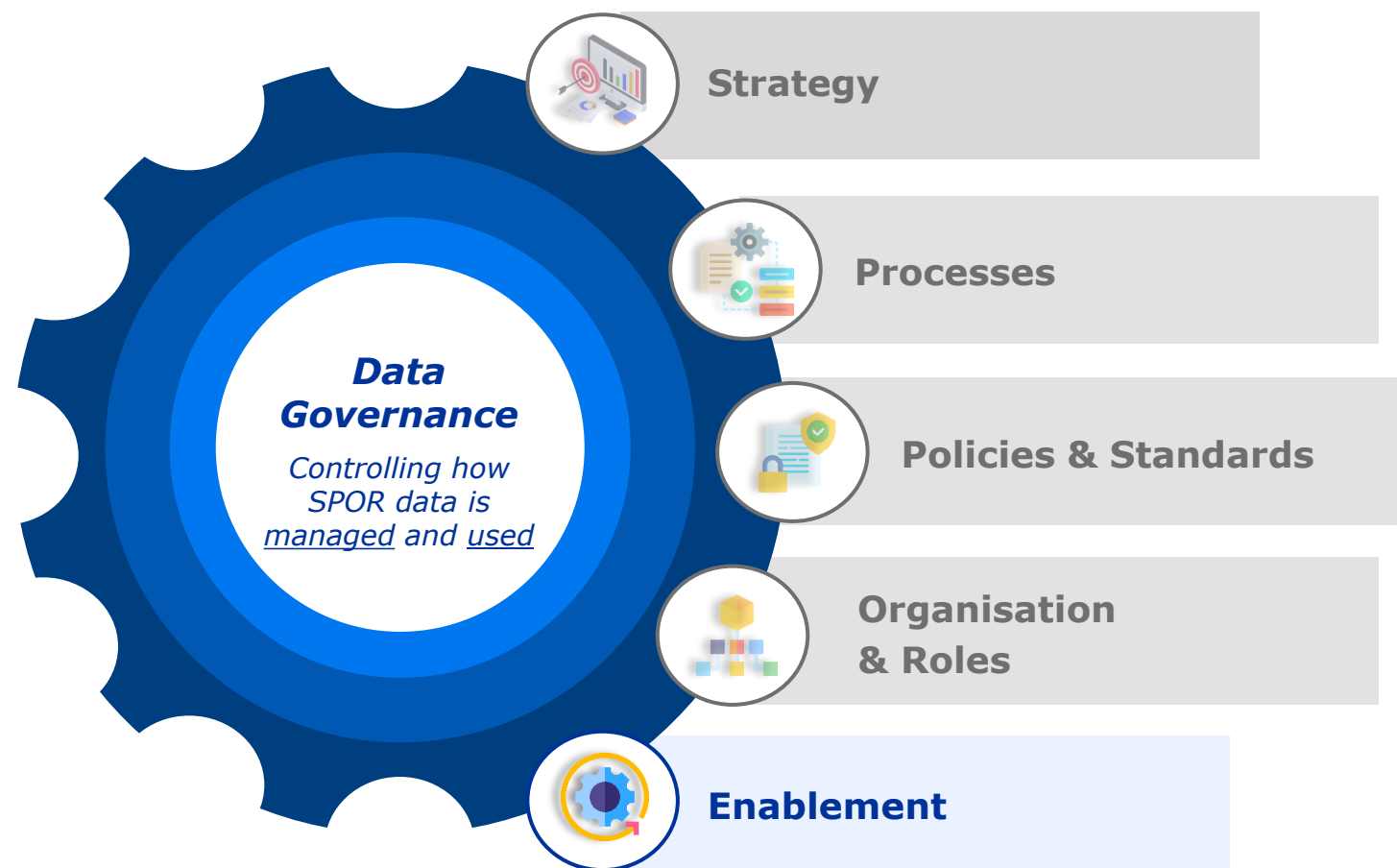


**Stakeholders** are informed via Agile ceremonies and events – advertised on [EMA Website](#)

**Anybody** can provide **feedback** via the **quarterly system demos** which are open to the public

## Enablement

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## Continuous improvement

**Key Performance Indicators** (KPIs) defined on:

- **Volumetrics** - what data is managed, growth rates, update rates
- **Data mgmt** - types of activities (Change Requests, data services, customer services), SLA compliance
- **Service quality** – Data Quality errors detected & overall level of Data Quality/activity
- **Data quality** – Data Quality profiling metrics

*Monthly/quarterly monitoring and measuring of relevant KPIs*

**Key metrics are shared** with stakeholders for transparency

- Statistics are reported in SPOR webinars 2 times per year and published in SPOR portal
- Aggregated yearly statistics are published with the Customer satisfaction survey in SPOR portal
- Work is ongoing to improve reporting & Business Intelligence capabilities to enhance transparency of data mgmt activities

# What data do we manage?



EUROPEAN MEDICINES AGENCY

## Data volume as of January 2023

### Substances

**63.948**

Substances

### Products

**1.456.103**

Products

### Organisations

**47.403**

Organisations

**80.674**

Locations

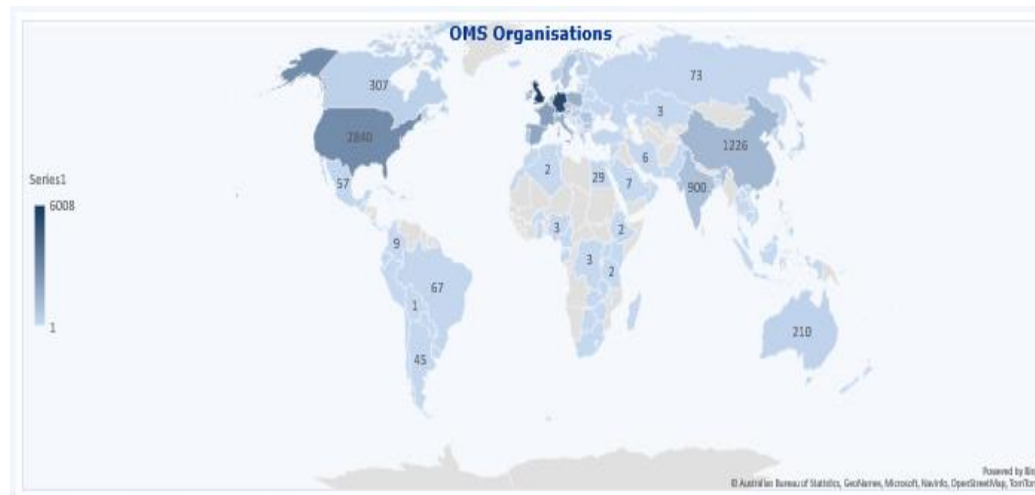
### Referentials

**212**

Lists

**129.774**

Terms



## Change rate in 2023

### Growth rate

#### Substances

**0,92%**

New  
Substances

**1,84%**

New  
Names

#### Products

**0,84%**

Products

#### Organisations

**0,98%**

New  
Organisation

**0,77%**

New  
Locations

#### Referentials

**4,48%**

New Lists

**0,65%**

New  
Terms

### Update rate

#### Substances

**22,81%**

Updated  
Substances

#### Products

**0,75%**

Updated  
Products

#### Organisations

**91,50%**

Updated  
Organisations

**92,38%**

Updated  
Locations

#### Referentials

**20,28%**

Updated Lists

**2,21%**

Updated  
Terms

## Engagement



**SPOR & XEVMPD webinars** are held at minimum 2 times per year



### Customer satisfaction survey

- Sent to registered (active) SPOR users
- Run at the end of each year
- Results are compared with previous year
- Results are published in SPOR portal
- Feedback from users is used to identify areas for improvement



**Your opinion matters to us!**

Please reply to the next customer satisfaction survey in Q4 2023!

**Start: Mon 30<sup>th</sup> Oct**

**End: Fri 10<sup>th</sup> Nov!**



### Training

- Videos of SPOR webinars containing tips/tricks and questions raised from users in the @emainfo channel
- XEVMPD e-learning available
- XEVMPD training provided by DIA



## Data Governance/ Operations



### **S, P, O & R Webinars H1 2024**

Discussion of new developments, updates in SPOR and new releases.

***Mar-Apr 2024***

*Announced via EMA's Website  
Events Pages*



### **S, P, O & R Webinars H2 2024**

Discussion of new developments, updates in SPOR and new releases.

***Sep-Oct 2024***

*Announced via EMA's  
Website Events Pages*



### **SPOR customer satisfaction survey**

Feedback from users

***Oct-Nov 2024***

*Announced via SPOR  
webinars & email*



## Key takeaways and conclusions

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## Strategy

EU strategies, Network Portfolio roadmap and SPOR Operational planning are in place and enable to focus actions around data value



## Processes

Operating Models and Data mgmt processes are defined and operational. Data is consistently and adequately processed.



## Policies & Standards

SPOR applies international standards (IDMP, FHIR) and EMA policies. Domain specific policies and Data Quality rules are available.



## Organisation & Roles

Governance structures (reporting and decision making lines) are defined. Data mgmt, SPOR Data Governance, Data Governance and IT delivery roles and responsibilities are defined.



## Enablement

Metrics, monitoring and reporting are in place and made available to stakeholders. Engagement takes place via webinars and Customer satisfaction survey.



## Data Governance



EMA has a **structured approach** to SPOR data governance based on the data management **best practices**.



EMA's Agile transformation is changing how IT enablement is planned and executed and influences what the SPOR data management teams priorities are.



EMA's SPOR team provides day-to-day data services that cover data management, data governance and support IT enablement.

→ This presentation explained **how SPOR data is currently managed and governed** and therefore provides an introduction and context to the remaining webinars in the SPOR & XEVMPD week.

*More details will be covered in subsequent webinars.*







# Any questions on the webinar?

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During **SPOR webinars**, EMA's Regulatory Data Management Service team talks about all aspects of regulatory data management and how it works today.

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<b>SPOR and XEVMPD Data Governance</b>	2 October 2023	10:00-12:00 CEST
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<b>SPOR application programming interface (API) - SPOR API</b>	12 October 2023	10:00-12:00 CEST



## Further information

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## Glossary

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Acronym	Name
<b>API</b>	Application Programming Interface
<b>Art. 57</b>	Article 57 of Regulation (EU) 726/2004, which requires marketing authorisation holders to electronically submit to the Agency information on all medicinal products for human use authorised in the EU
<b>CAP</b>	Centrally Authorised Product
<b>CR</b>	Change request
<b>CTIS</b>	Clinical Trials Information System
<b>DADI</b>	Digital Application Dataset Integration
<b>DMP</b>	Development Medicinal Product
<b>DCP</b>	De-centralised Procedure
<b>DQ</b>	Data Quality
<b>eAF</b>	Electronic Application Form
<b>ePI</b>	Electronic Product Information
<b>eCTD</b>	Common Technical Document in electronic format
<b>EMA DB</b>	European Medicines Agency Data Board
<b>EMRN</b>	European Medicines Regulatory Network
<b>Epic</b>	<p>An epic is a container with one common objective, for a development initiative large enough to require analysis, definition of a minimal viable product (MVP) and financial approval before implementation. An epic usually takes more than one Programme Increment to complete and is broken into multiple Features.</p> <p>Business epics are large initiatives that deliver Solutions needed by the business/customers</p> <p>Enabler epics are pieces of work that extend the architectural infrastructure of the solution under development or improve the performance of the value stream</p>



Acronym	Name
<b>ESMP</b>	European Medicines Shortages Monitoring Platform
<b>ESMDP</b>	European Medicinal Devices Shortages Monitoring Platform
<b>EURS</b>	European Review System for eCTDs
<b>EU-SRS</b>	European Substance Reference System
<b>EUTCT</b>	European Union Telematics Controlled Terms
<b>FHIR</b>	Fast Healthcare Interoperability Resources
<b>HMA</b>	Heads of Medicines Agencies
<b>IAM</b>	Identity and Access Management
<b>ICSR</b>	Individual Case Safety Report
<b>IDMP</b>	The ISO IDMP standards specify the use of standardised definitions for the identification and description of medicinal products for human use
<b>INN</b>	International Nonproprietary Names
<b>IRIS</b>	A secure online platform for handling product-related scientific and regulatory procedures with EMA ( <a href="https://iris.ema.europa.eu">iris.ema.europa.eu</a> )
<b>KUG</b>	Key User Group
<b>KPI</b>	Key Performance Indicator
<b>MAA</b>	Marketing Authorisation Application
<b>MAH</b>	Marketing Authorisation Holder
<b>Mon</b>	Monitoring Value Stream



Acronym	Name
<b>MRP</b>	Mutual Recognition Procedure
<b>NAP</b>	Nationally Authorised Product
<b>NCA</b>	National Competent Authority
<b>NDB</b>	Network Data Board
<b>NICTAC</b>	Network ICT Advisory Committee represents the network IT community
<b>NPAG</b>	Network Portfolio Advisory Group represents the Management Board and HMAs
<b>OD</b>	Orphan Designation
<b>OMS</b>	Organisation Management Service
<b>PB</b>	Portfolio Board
<b>PI</b>	Programme Increment, a three month period of work
<b>PI Planning ceremony</b>	A quarterly event to plan work for the entire Value Stream in the next quarter, ensuring that teams and stakeholders have a shared mission and vision
<b>PIP</b>	Paediatric Investigation Plan
<b>PLM</b>	Product Lifecycle Management Value Stream
<b>PMS</b>	Product (Data) Management Service
<b>PO</b>	Product Owner (PO) is the Agile team member primarily responsible for maximizing the value delivered by the team by ensuring that the team backlog is aligned with customer and stakeholder needs.
<b>RMS</b>	Referential Management Service
<b>R&amp;D</b>	Research and Development Value Stream



Acronym	Name
<b>SAFe</b>	Scaled Agile Framework
<b>SIAMED</b>	An Information System for the management of regulatory procedure for centrally authorised products
<b>SLA</b>	Service Level Agreement
<b>SPOR</b>	Substance, Product, Organisation and Referential
<b>SmPC</b>	Summary of product characteristics
<b>SMS</b>	Substance Management Service
<b>SQI</b>	Service Quality Indicator (metric)
<b>SVG</b>	Substance Validation Group
<b>UNII</b>	Unique Ingredient Identifier
<b>USAN</b>	United States Adopted Names
<b>Value Stream</b>	Value Streams represent the series of steps that an organization uses to implement Solutions that provide a continuous flow of value to the Business/Customer
<b>VSM</b>	EMA Value Stream Manager (VSM) is a "Servant Leader and Coach" for the Value Stream teams
<b>VSO</b>	EMA Value Stream Owner (VSO) has the primary responsibility for the business outcomes, including the delivery of business outcomes, in their Value Stream
<b>XEVMPD</b>	eXtended EudraVigilance Medicinal Product Dictionary