



EUROPEAN MEDICINES AGENCY  
SCIENCE MEDICINES HEALTH

# Product Management Services & Substance Management Services (P&SMS) Projects

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Implementation of ISO IDMP standards through SPOR  
master data





## 1. Background

- SPOR vs IDMP
- What will SPOR deliver

## 2. Implementation of IDMP through SPOR

- Past
- Next Steps
- EU Guidance
- Future
- Data Migration Strategy

## 3. SPOR in the regulatory context

- SPOR in the regulatory context
- SPOR integration with eAF
- SPOR as an enabler of process changes



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# 1. Background

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- **ISO IDMP standards** (five standards) define the rules that uniquely identify medicinal product and the relevant elements to identify them
- [Commission Implementing Regulation \(EU\) No 520/2012](#) (articles 25 and 26) obliges European Union (EU) Member States, marketing authorisation holders and EMA to **make use of the ISO IDMP standards**.
- The **SPOR projects** implements the ISO IDMP standards as well as the processes to **manage** four domains of data (**master data**) in pharmaceutical / regulatory industry:
  - **S**ubstance Management Services (SMS) – ISO 11238
  - **P**roduct Management Services (PMS) – ISO 11615, 11616
  - **O**rganisation Management Services (OMS)
  - **R**eferentials Management Services (RMS) – ISO 11239, 11240
- **Delivery of SPOR is phased**
  - RMS and OMS services were delivered in June 2017
  - Delivery of PMS and SMS will follow
    - **P&SMS Iteration 1 covers authorised human & veterinary medicinal products**
    - P&SMS Iteration 2 covers Investigational medicinal products.
    - P&SMS Iteration 3 covers Clinical Particulars.
- **SPOR applies to both domains Human & Veterinary**



# What will SPOR deliver?

SPOR data is accessible via a web **User Interface** (UI) and **SPOR APIs\*** (Application Programming Interface)

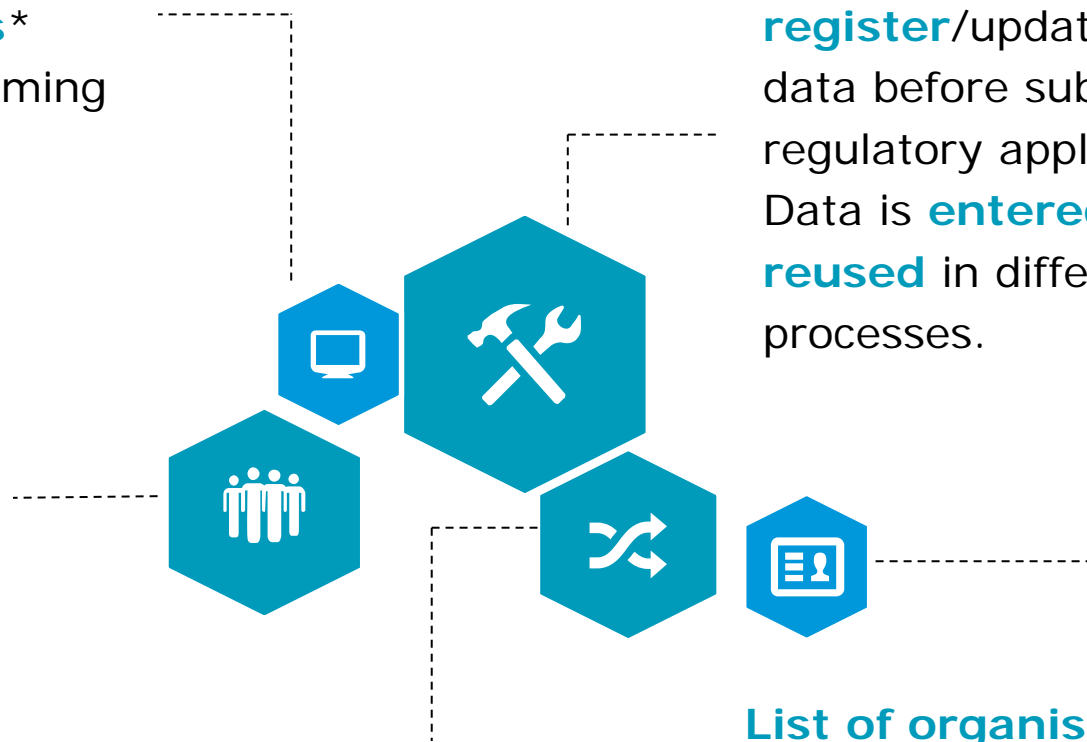
A specialised team of **EMA data stewards** will manage SPOR data and provide support to stakeholders

New **data management** approaches for industry, NCAs and the EMA:

- Data synchronisation on an ongoing basis
- Possible need for data transformation/enrichment

**New process** for industry and NCAs to **pre-register**/update SPOR data before submitting regulatory applications. Data is **entered once and reused** in different processes.

**List of organisations (OMS dictionary), Referentials Lists/Terms and Substances** for stakeholders to use in EU regulatory activities





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## 2. Implementation of IDMP through SPOR data management services

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## A. Past

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# The road behind (2015-2017) – SPOR Achievements

**Feb 2015:** Selection of the technology to support SPOR implementation.

**Mar 2015:** SPOR Roadmap agreed.

**Mar 2015:** SPOR TF set up.

**May 2015:** RMS project started.

**July 2015:** Green light form HMA for RMS & OMS Target Operating Model (TOM) .

**Jul 2015:** Technology purchase.

**Jul 2015:** OMS project started.

**Mar 2016:** Change Liaison Network set up.

**Jul 2016:** Veterinary Stakeholders join the SPOR Task Force (TF).

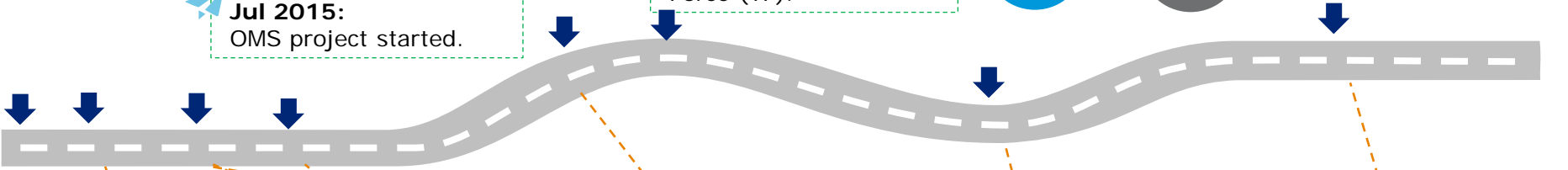
**June 2017: RMS went live and replaced EUTCT** as preferred source of regulatory referential data.

**June 2017: OMS went live** and manages regulatory organisation data. **NCA content** is available. Industry content expanded throughout 2017-2018.

**June 2017: NCA users on-boarding**  
**Dec 2017: Industry user on-boarding.**

**Q1- Q2 2017:** P&SMS project started.

**June 2017:** Initial schedule for P&SMS communicated to SPOR Task Force



**Q1 2015:** SPOR strategy and approach agreed with Industry, Regulators and EC.

**Q2 2015:** First two SPOR projects ongoing.

**2015-2016:** Engaging with Industry and regulators through SPOR TF and cascading communications through Change Liaison network.


**June 2017:** RMS implements **ISO11239** and **ISO11240 standards**; makes EMA regulatory compliant.

**2017:** Users start using SPOR Target Operating Model for **pre-registration of master data** to improve regulatory submissions.





<http://spor.ema.europa.eu/sporwi/>



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**SPOR**





laka [Logout](#)

<a href="#">Substances</a>	<a href="#">Products</a>	<a href="#">Organisations</a>	<a href="#">Referentials</a>	<a href="#">Help</a>
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## SPOR data management services

Delivering quality data management services for substances, products, organisations and referentials (SPOR) to power EU regulatory activities.

The four SPOR data management services are:

-  **Substance Management Services (SMS)**
-  **Product Management Services (PMS)**
-  **Organisation Management Services (OMS)**
-  **Referentials Management Services (RMS)**

OMS and RMS are the first services to go live and they provide the data foundations for PMS and SMS.

SMS and PMS are not currently activated. More information on the [implementation of SPOR data management services](#) is available on the EMA corporate website.

The SPOR portal provides users with the following data management services:

- view, search, export SPOR data;
- request new and updated SPOR data;
- translate SPOR data;
- browse relevant SPOR documentation.

Data management and data quality processes drive the SPOR data management services to ensure that the highest quality of data is available to support EU regulatory processes.

### Access to SPOR

Use the links in the navigation panel above to access OMS and RMS.

Please use the menus in the navigation panel to navigate RMS and OMS with 'read-only' access to SPOR.

You will need an EMA account with SPOR user roles to conduct additional tasks, such as requesting changes to data, translating data or managing user preferences.

If you already have an active account for any EMA-hosted website or online application, you should use the same credentials to log in.

If you do not already have an EMA account, you need to create an EMA account and request the specific SPOR user roles you require.

Please check if you are able to log in before registering as a new user with SPOR.

[Create EMA Account](#)

Registered users can log in using the button at the top of the page.

### Using SPOR

For more information about using SPOR see "[About SPOR data management services](#)". This document provides details on:

- SPOR projects;
- access policy and user roles;
- customer support;
- data content;
- copyright;
- data protection.



## B. The next steps

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# The next steps (2017-2018) – SPOR Plans



Q1 - Q2 2017: P&SMS project started.

Q4 2018: P&SMS It 1 Phase 1 delivers Art 57 Migration.

Q4 2017: MAH content is available.

Q1 2018: Sponsor content is available.

Q3 2018: CAP & NAP Manufacturers are available.

Q4 2017: Integrate OMS with ECD.

Q4 2018: Integrate RMS & OMS with CT Portal.

Q4 2018: Integrate RMS & OMS with Art 57/xEVMPD.

Q4 2017: Integrate OMS with eAF; RMS already integrated with eAF.

Q3/Q4 2018: Integrate RMS & OMS with CESSP (MAA).

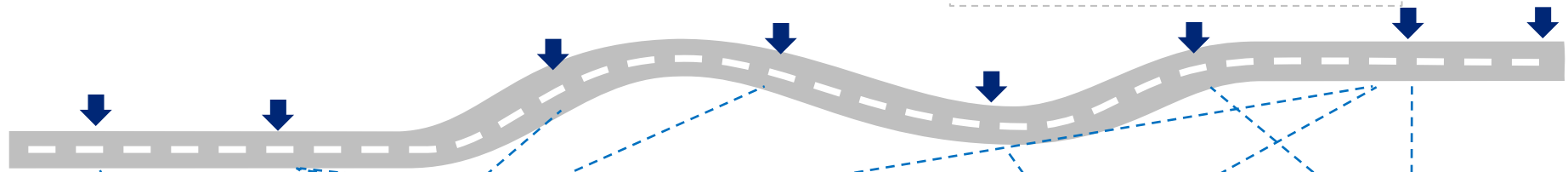
Q4 2018: (draft) API specs & User On-boarding strategy.

Q4 2017: TOM (draft) agreed.

Q1 2018: Messaging Format agreed.

Q3-Q4 2018: (draft) Data scope; Migration & Validation strategy; Business processes (Ph1) are available.

Agency Relocation



Q2 2017: Remaining SPOR projects ongoing.

2017-2018: Organisation data is incrementally available.

2017: Users start using SPOR Target Operating Model for pre-registration of R & O data to improve regulatory submissions.

2018: RMS & OMS master data is integrated with business processes i.e it is entered once and reused across different business processes.

2018: Guidance is available to support Industry and regulators implementing SPOR.



- P&SMS project was initiated early 2017
- Considering:
  - Project vision and scope
  - Available capabilities and skill set
  - Brexit and other constraints
- The approach the EU network is taking:
  - PMS implementation is led and undertaken by EMA
  - SMS implementation is shared as follows:
    - SMS - IDMP light – implemented by EMA
    - EU SRS - ISO IDMP compliant – implemented by MEB (NL)

- **PMS Iteration 1** will be the first iteration of ISO IDMP 11615 and 11616 compatible data management solution for **authorised human & veterinary products**. It will support **generation and maintenance of MPID, PhPID & PCID**
  - To fully address the implementation of IDMP 11238 further projects will be required
- PMS Iteration 1 has been divided into multiple phases. Phase 1, before relocation, is an EMA internal delivery comprising:
  - A new ISO IDMP compliant Master Data Management (MDM) hub (also covering Veterinary and other needs)
  - Two way synchronisation of medicinal product information (including S, R and O) between Art.57 database and the new MDM solution
  - Data Quality (DQ) assurance/data entry of human medicinal Product information by EMA and possibly by some NCAs



## SMS implementation is shared as follows:

### SMS "IDMP light"

- **Who:** Implemented by EMA
- **Data:** SMS data is the "simplified" PUBLIC substance data, that supports selection in regulatory processes and therefore enables you to distinguish two or more similar substances
- **Technology:** SMS solution covers:
  - Search, browse and export of PUBLIC substance data
  - Management of substance change requests
  - Translation management
- **Process/People:** EMA provides a broker service by managing substance requests, supporting translations and assuring data quality.

### EU SRS ISO IDMP compliant

- **Who:** Implemented by MEB (NL)
- **Data:** EU SRS contains ISO IDMP substance data that supports scientific identification of substances. It includes PUBLIC and CONFIDENTIAL information subject to controlled access
- **Technology:** EU SRS solution covers only Substance data management
  - Software development/implementation led by NL in the short term in collaboration with EMA, under EU Telematics governance
  - Software maintenance to be transferred to EMA
- **Process/People:** This project is responsible to set up the EU Substance Validation Group (SVG) who will:
  - Prepare the EU substance list
  - Maintain the EU list by approving substance requests and managing substance data

- **SMS Iteration 1** will be the will be the first iteration towards ISO IDMP 11238 compatible data management solution for substances
- To fully address the implementation of IDMP 11238 further projects will be required
- SMS Iteration 1 has been divided into two phases. Phase 1, before relocation, is an EMA internal delivery comprising :
  - New MDM hub for the substance management service
  - Migration of substance data from multiple EMA sources (EV H, EUTCT H, EUTCT V, EV V) to MDM hub, which support future consolidation and synchronisation
    - *This data is not yet mapped to other external sources such as G-SRS*
  - Management of substance data as per current process/DQ standards



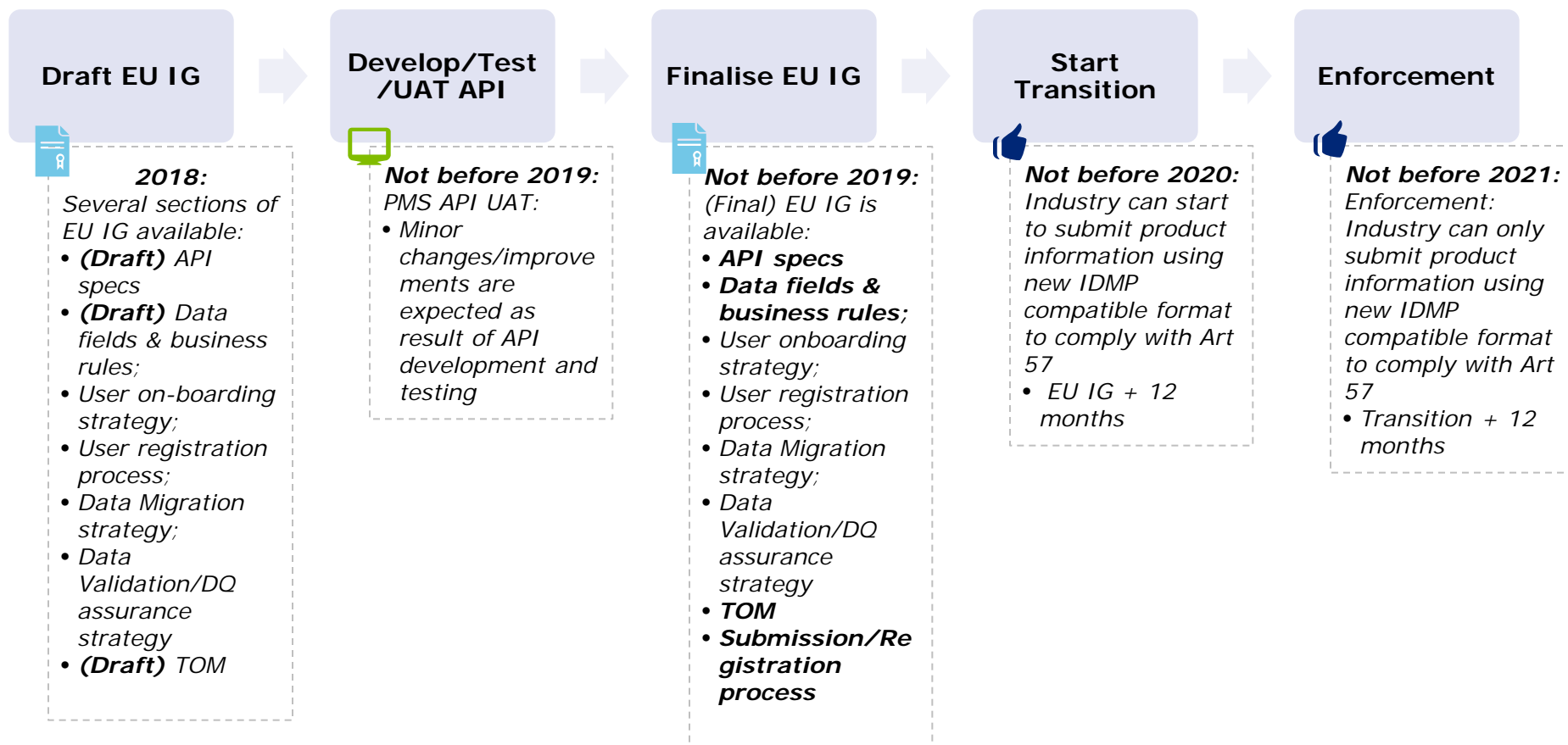
- In parallel to SMS Phase 1, EU SRS project led by MEB (NL) will:
  - Set up SVG
  - Set up initial EU list by consolidation of FDA + NCA + EMA lists in English and with some translations
  - Prepare EU SRS implementation



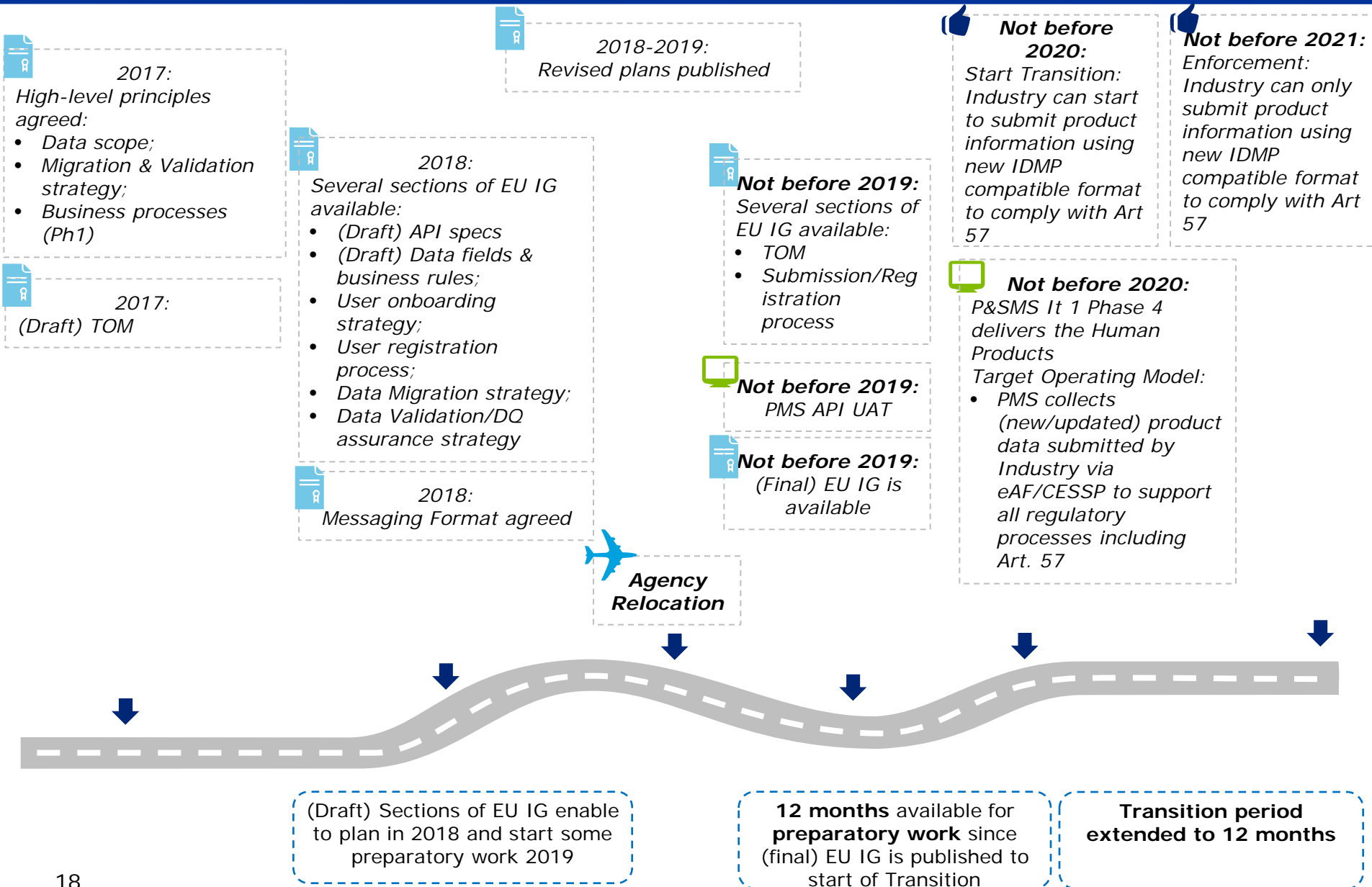


## C. EU Guidance

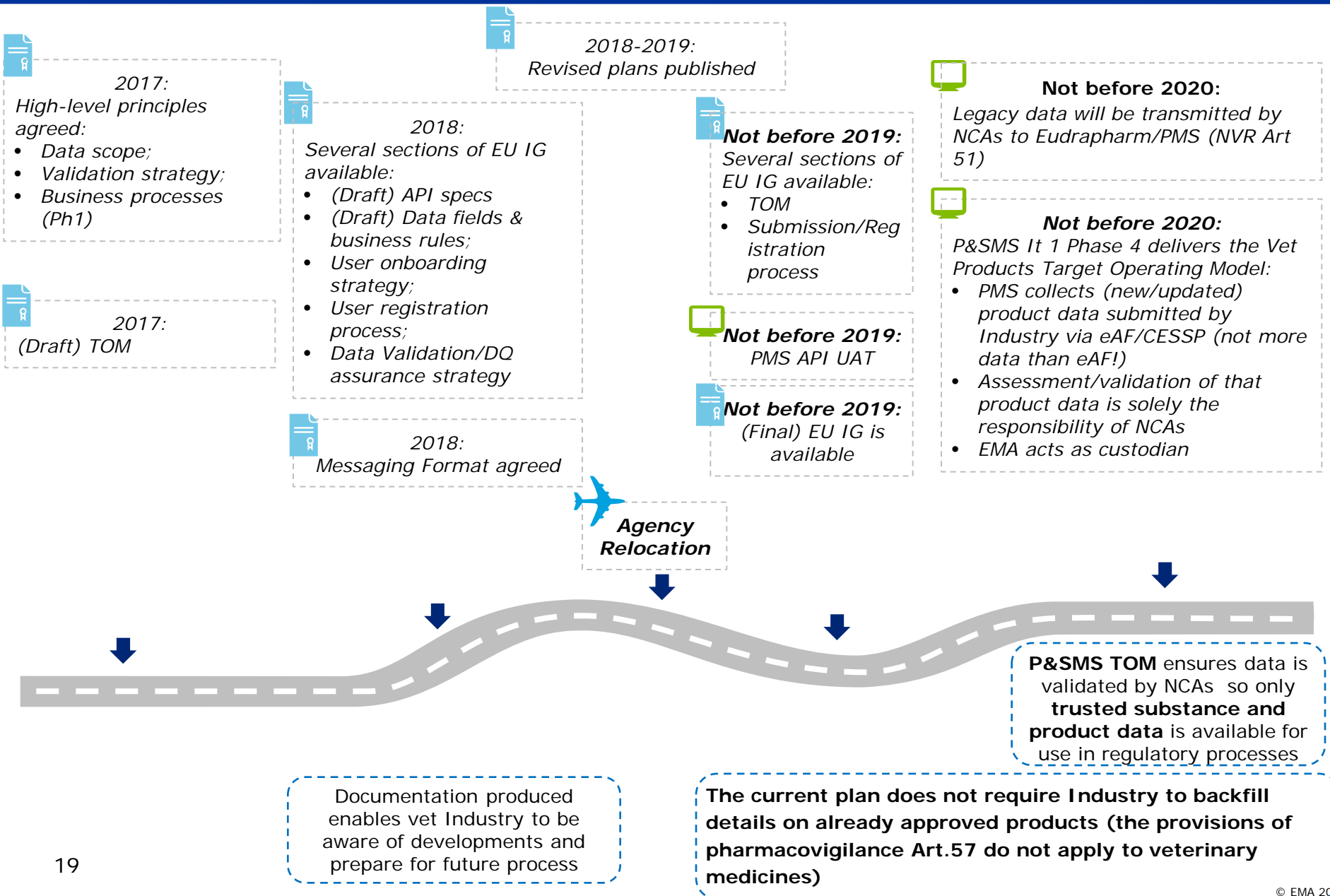
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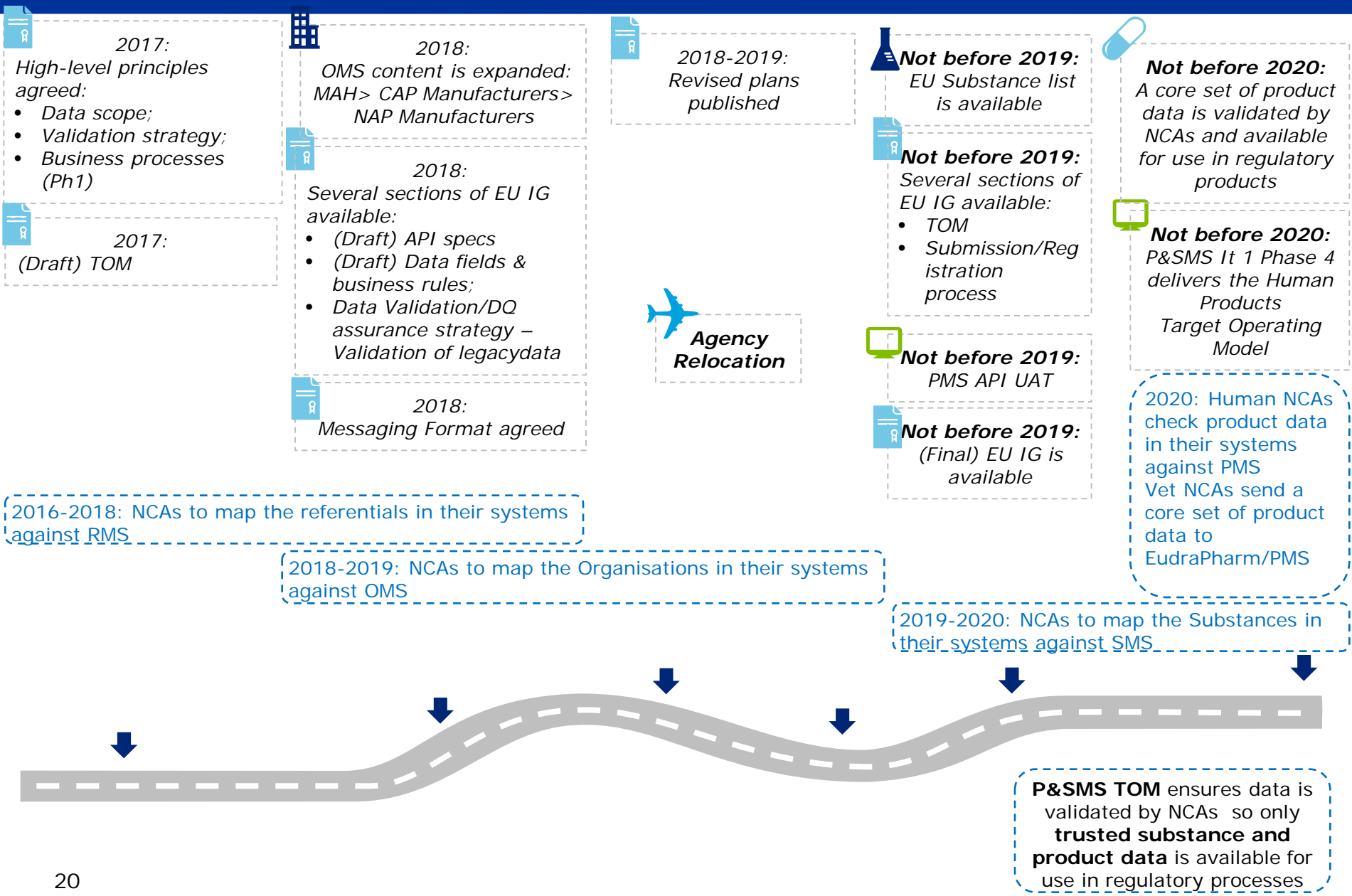


# EU Guidance and Relevant milestones for Human Industry



# EU Guidance and Relevant milestones for Vet Industry







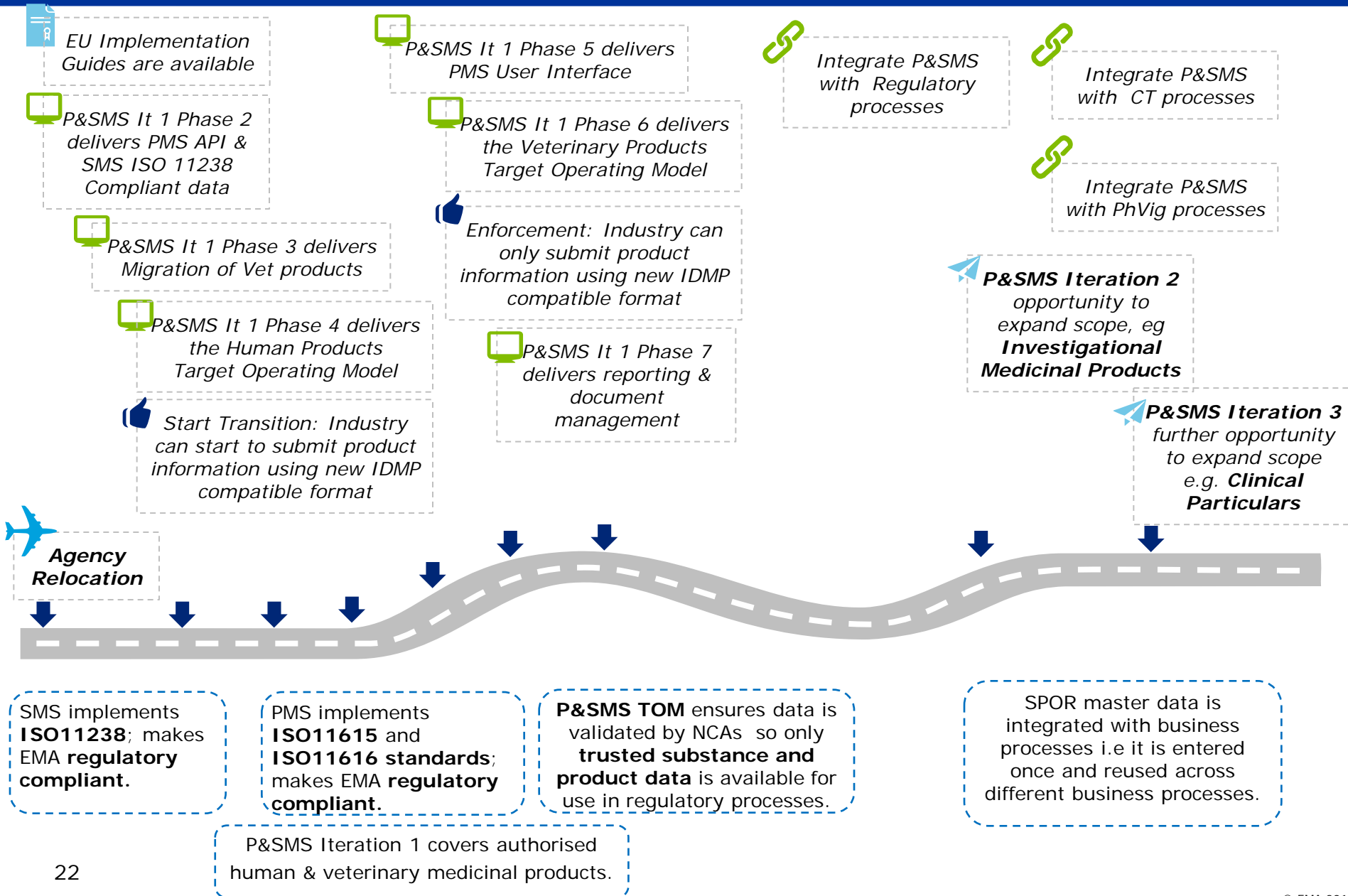
## D. Future

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# The journey ahead (2019 +) – SPOR Roadmap



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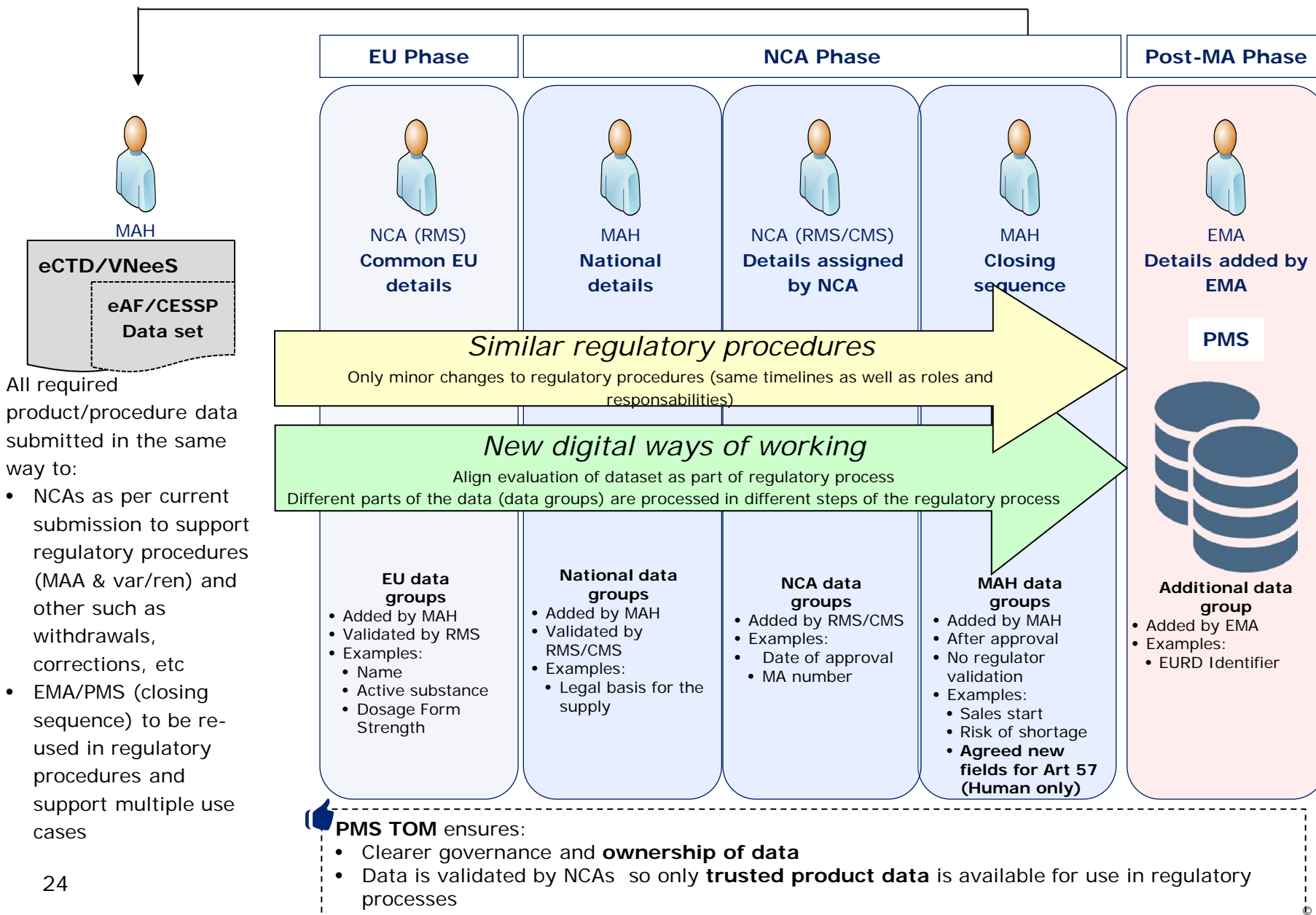




- PMS Iteration 1 has been divided into multiple phases. After relocation PMS will deliver:
  - Authorised human & veterinary medicinal products accessible via a web User Interface (UI) and SPOR Application Programming Interface (APIs)
  - New ISO IDMP compliant message
  - **Products Target Operating Model**
    - No changes to regulatory processes (including timelines as well as roles and responsibilities)
    - Simultaneous submission of product information to NCAs as part of regulatory procedures and registration in PMS to support multiple use cases
    - New ways to assess information electronically

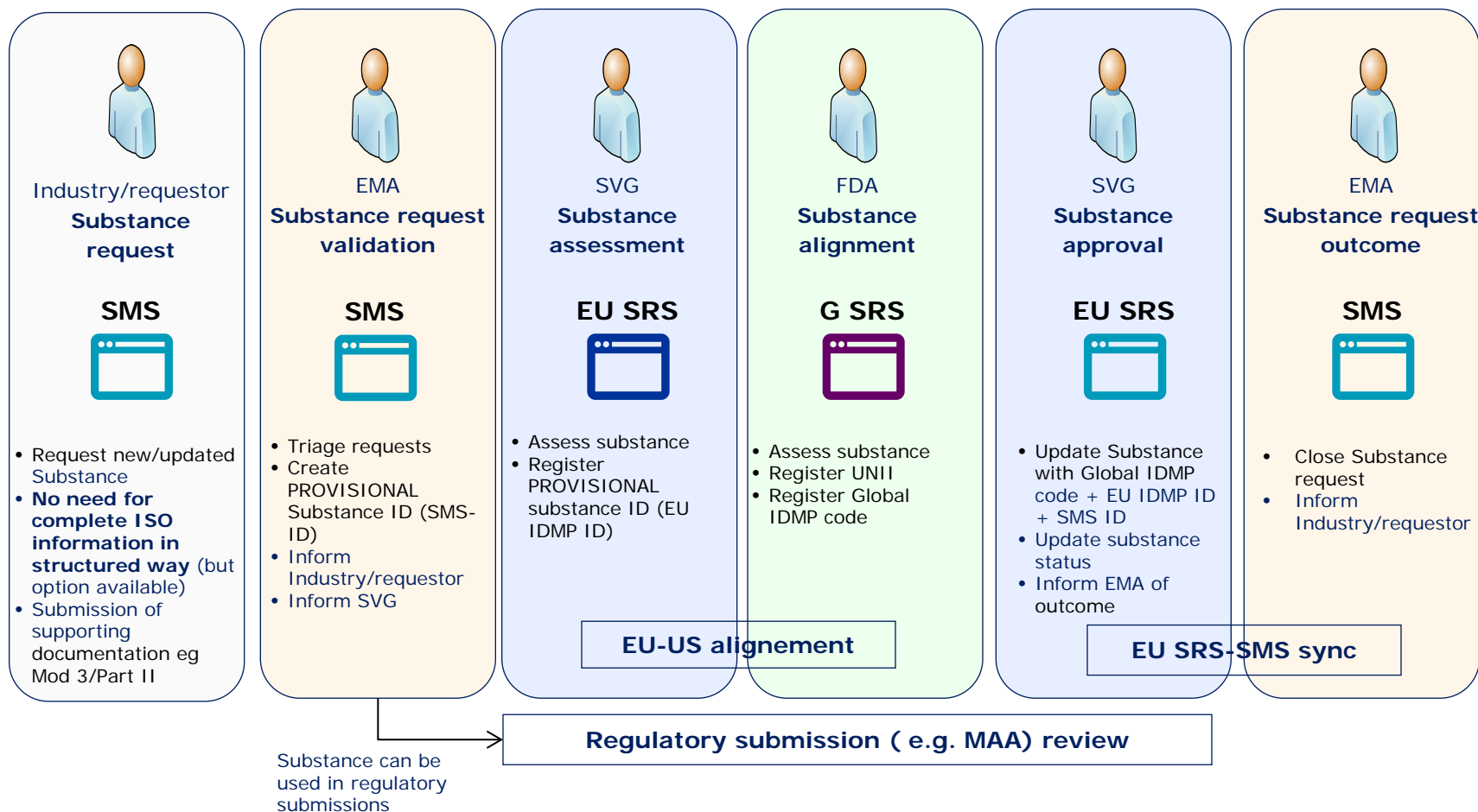


# (Draft) PMS Target Operating Model



- SMS Iteration 1 has been divided into two phases. After relocation SMS will deliver:
  - Substances accessible via a web User Interface (UI) and SPOR Application Programming Interface (APIs)
  - Synchronisation with EU SRS
  - **Substances Target Operating Model**
    - New process for industry and NCAs to pre-register/update Substance data before submitting regulatory applications
    - EU-US alignment
    - Substance data is assessed in parallel with MA review
    - Substance data is approved before conclusion of regulatory processes

# (Draft) SMS Target Operating Model



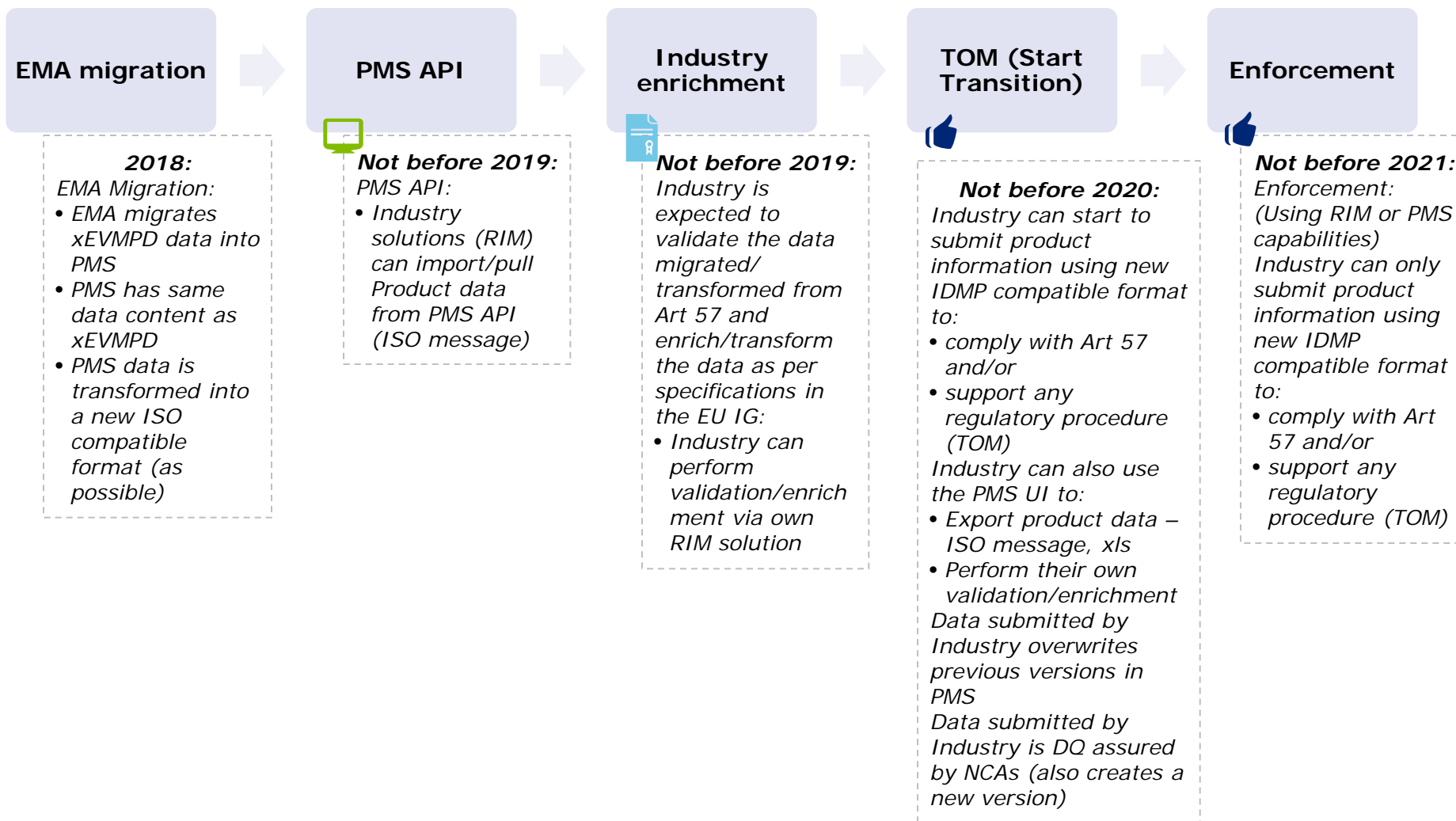
**SMS TOM ensures:**

- Regulatory processes can start as soon as substance is Provisionally registered
- EU-US alignment
- Data is approved by SVG before conclusion of regulatory processes i.e. **only trusted data is used in regulatory processes**



## E. Data Migration Strategy

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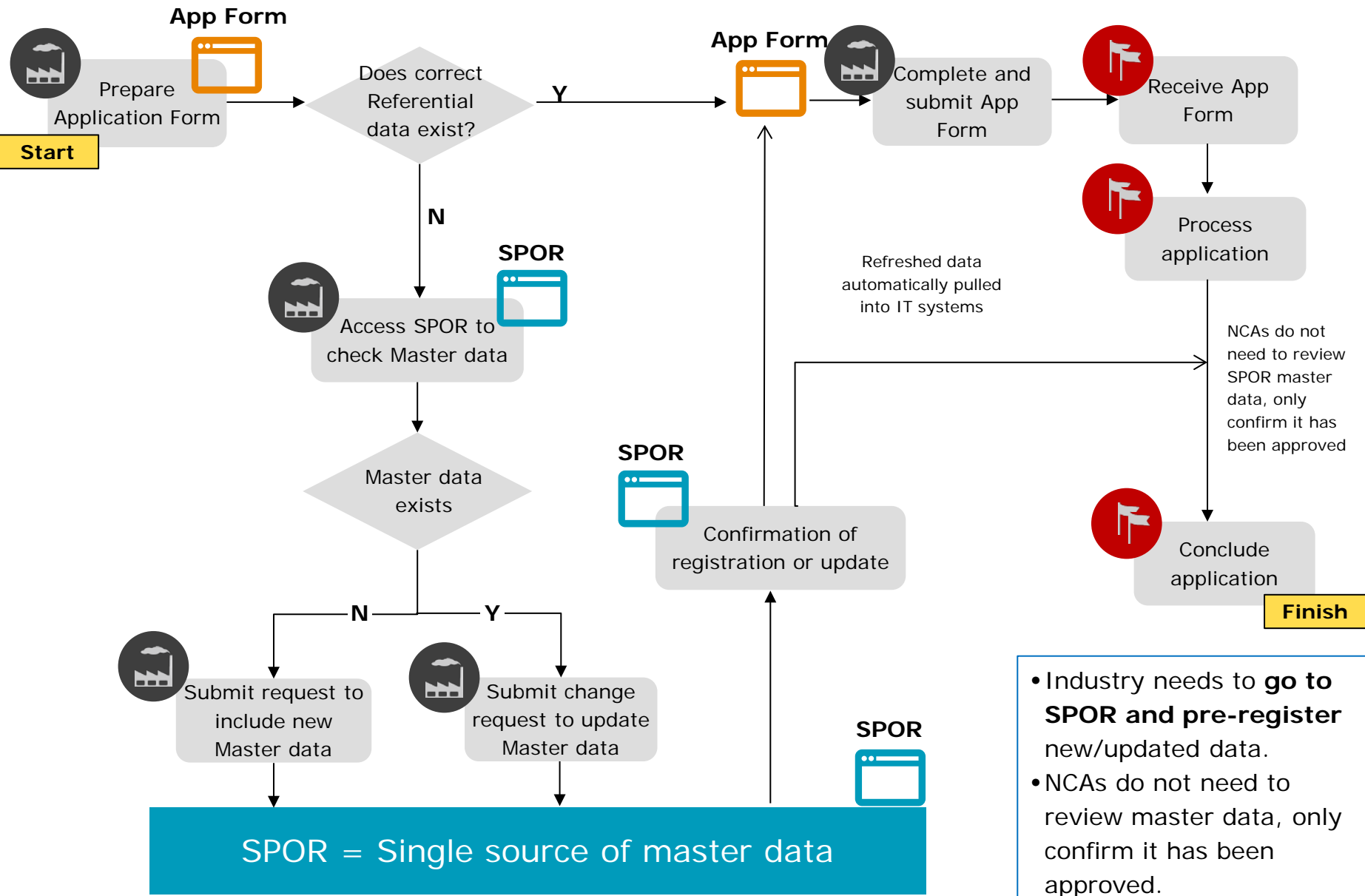
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## 3. SPOR in the Regulatory context

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# R & O (& S) in the Regulatory context



**SPOR = Single source of master data**

- Industry needs to **go to SPOR and pre-register** new/updated data.
- NCA's do not need to review master data, only confirm it has been approved.



m\_aa\_human\_v1.21.0.1.pdf - Adobe Reader

Please fill out the following form. You can save data typed into this form. Highlight Existing Fields

strength should be provided successively, where appropriate).

### DECLARATION AND SIGNATURE

Product (invented name)

Pharmaceutical Form:

Strength:  Units:

*For numeric values, please use the full stop as the decimal separator. i.e. 0.002, rather than 0,002*

Active Substance

OK Clear Cancel

Populate data in sections 2.1.2, 2.2.1 and 2.6.1

Applicant

Title

First Name

Surname

Address 1

Address 2

*(name of: city, town, village, etc)*

Postcode

Country

Telephone

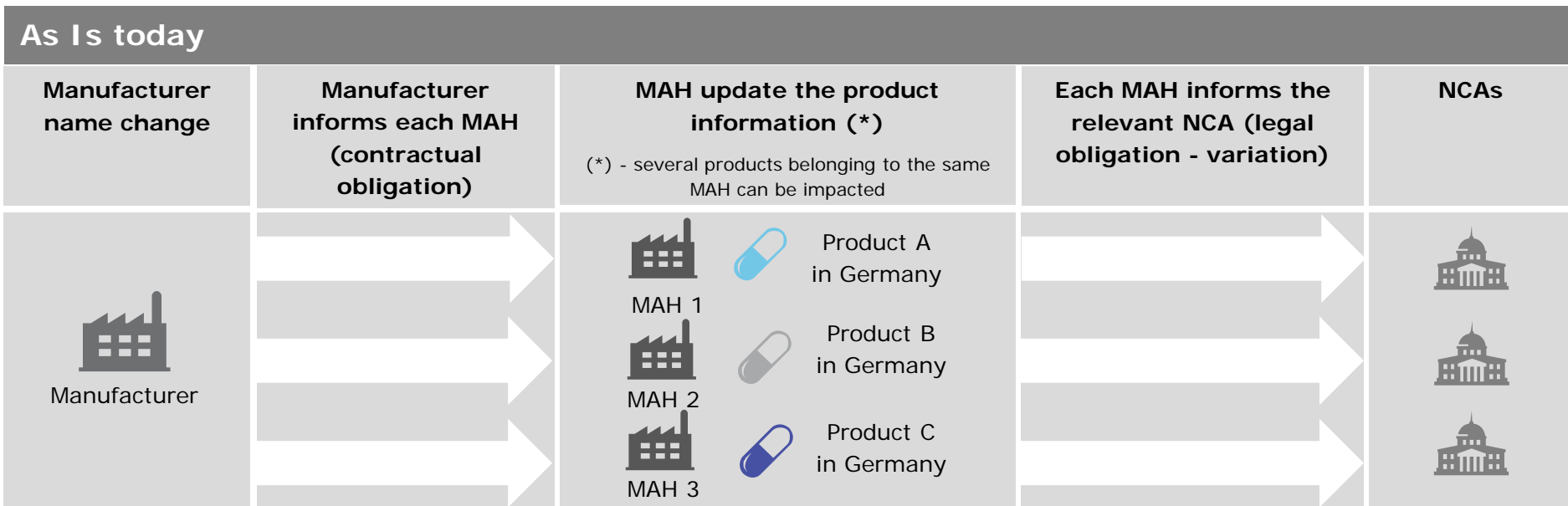
Telefax

E-mail





## Handling variations Type 1, where there is administrative change (12% of total variations)



## Handling variations Type 1, where there is administrative change (12% of total variations)

### How SPOR can improve the process and how it could work with ROG

**Pre-requisite:** there is a regulatory change (process, communication)

SPOR



Manufacturer name change

Data entered by MAH or Manufacturer

NCA & MAH are automatically informed

ROG



All products automatically updated or flagged for updating



Manufacturer



SPOR



SPOR



# Thank you for your attention

## Further information

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Please send any queries regarding the IDMP/SPOR to:

[SPOR-Change-Liaisons@ema.europa.eu](mailto:SPOR-Change-Liaisons@ema.europa.eu)

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<b>Backward compatibility</b>	Capability of a new solution to successfully interface/work with previous versions of software/hardware.
<b>CESSP</b>	The Common European Single Submission Portal (CESSP) is an ongoing Telematics programme that aims to integrate the electronic Application Form (eAF) data sets in to CESP. CESP is the current submission channel for all procedures (not technically integrated with eAF).
<b>Controlled vocabularies</b>	(aka Referentials) are lists of terms that refer to attributes of medicinal and pharmaceutical products e.g. dosage form, route of administration, unit of measurement.
<b>CT Portal</b>	(aka EU Portal and Database) will be the upgraded version of Eudra CT enabling a single entry point for submission and assessment of clinical trial applications at an EU level.
<b>eAF</b>	The eAF is a collection of Application Forms that facilitate electronic submission of data relating to Renewals, Variations, Marketing Authorisation Applications (Human & Vet).
<b>Eudra CT</b>	The existing platform for submitting and viewing information relating to regulatory activities relating to Clinical Trials.
<b>EUTCT</b>	A repository and provider of controlled terms (or controlled vocabularies) in multiple languages. It is the predecessor of RMS. RMS will replace EUTCT with regards to management of controlled vocabularies. EUTCT can only be fully replaced after SMS implementation as it also contains substances.
<b>Unique identifiers</b>	The ISO IDMP standards outline a set of attributes/data elements that make up a <b>unique identifier</b> . This enables the creation of a unique record for each medicinal product, packaged product, pharmaceutical product, substance and referential.