



EUROPEAN MEDICINES AGENCY
SCIENCE MEDICINES HEALTH

Product Management Service (PMS) Progress Webinar

30 May 2023, 10:00 – 11:30 Central European Summer Time (CEST)





Welcome

Marcos Fernandez Gomez, *PMS Product Co-owner, EMA*

Veronica Lipucci Di Paola, *PMS Product Co-owner, EMA*

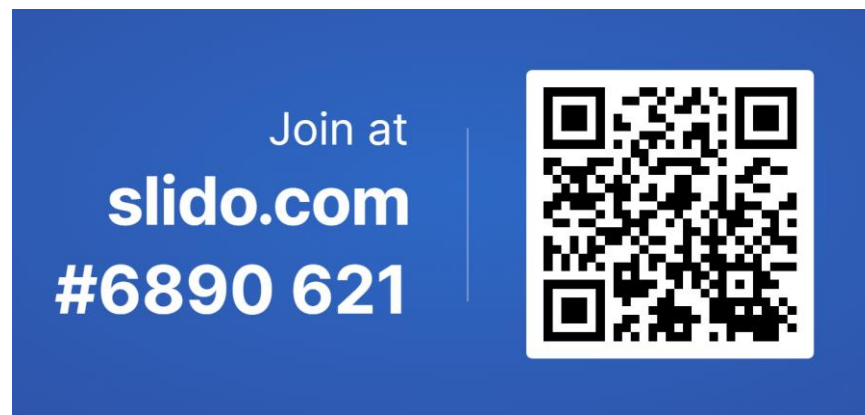


Please note that **this session is being recorded** and **will be made available** through **EMA Corporate Website and YouTube channel.**



At certain points throughout the session, participants will be able to ask questions or give their input via the audience interaction tool **Slido**.

Interaction via Slido is voluntary, and you may opt to remain anonymous. If you chose to use Slido, **you consent to the processing of your personal data** as explained in the [EMA Data Privacy Statement for Slido](#).



1. Join via the QR code or link



2. Send or upvote the questions you want to hear answered



3. Questions will be shown on the screen and managed live in the Q&A session



1

Welcome

10:00 – 10:05 (5 min)

Marcos Fernandez Gomez,
PMS Product Co-Owner, EMA
Veronica Lipucci Di Paola,
PMS Product Co-Owner, EMA

2

PMS Achievements so far

10:05 – 10:25 (20 min)

Marcos Fernandez Gomez,
PMS Product Co-Owner, EMA
Veronica Lipucci Di Paola,
PMS Product Co-Owner, EMA

3

Ongoing PMS Work

10:25 – 10:45 (20 min)

Marcos Fernandez Gomez,
PMS Product Co-Owner, EMA
Veronica Lipucci Di Paola,
PMS Product Co-Owner, EMA

4

Future PMS Work

10:45 – 11:05 (20 min)

Marcos Fernandez Gomez,
PMS Product Co-Owner, EMA
Veronica Lipucci Di Paola,
PMS Product Co-Owner, EMA

5

Q&A Session

11:05 – 11:25 (20 min)

Marcos Fernandez Gomez,
PMS Product Co-Owner, EMA
Veronica Lipucci Di Paola,
PMS Product Co-Owner, EMA
Moderator: Caterina Scarpati,
PMS Change Management Team

6

Closing

11:25 – 11:30 (5 min)

Marcos Fernandez Gomez,
PMS Product Co-Owner, EMA
Veronica Lipucci Di Paola,
PMS Product Co-Owner, EMA



Provide a summary of the **recent achievements in PMS**



Explain the **work currently under implementation/development**



Inform the attendees about the **next work the PMS team has planned**



PMS Achievements so far

Marcos Fernandez Gomez, *PMS Product Co-owner, EMA*

Veronica Lipucci Di Paola, *PMS Product Co-owner, EMA*

Context

- › **Product Management Services (PMS)** is a Network project led by EMA in cooperation with European medicines regulatory network and industry and is part of the SPOR Programme
- › PMS will enable the **implementation of globally recognised ISO standards** for the identification of medicinal products (IDMP)
- › It will **deliver comprehensive and consolidated** trusted and good-quality **medicinal product data** from different sources
- › PMS will **support the implementation of the target operating model** (TOM) for managing medicinal product data



The PMS product will change:

- › **Product data storage** from the EMA database (SIAMED) and the XEVMPD (Article 57) database to the PMS database
- › Delivery of comprehensive and consolidated product data, following one standard set of rules for product data (**ISO IDMP standards**)
- › **User Interface** to check the data in PMS

Agency Management

Capabilities to manage the Agency and coordinate and support the Network

Research and Development

Capabilities to foster R&D and generate scientific evidence

Product Lifecycle Management

Capabilities to authorize and manage lifecycle of medicines and medical devices

Monitoring

Capabilities to monitor availability and safety of products

Technology Lifecycle Management and Information Security

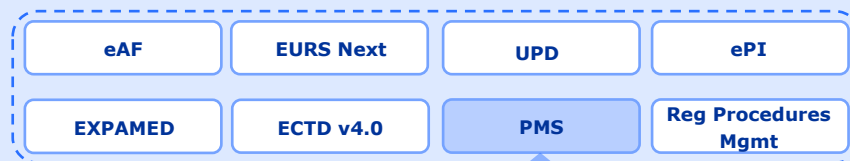
Capabilities to manage information technology and security



Product Lifecycle Management Value stream

It works on the development and delivery of systems to manage the authorisation and lifecycle of medicinal products and medical devices within the remit of EMA.

PLM VS Products



PMS is part of the Product Lifecycle Management VS

*"PMS enable the **seamless exchange of regulatory data** within the Network by establishing an integrated human medicinal product data foundation [Data-driven Network Portfolio Objective]"*

Nomination selected based on their expertise, SMEs to represent Industry and Network's voices within PMS product team.



Industry Subject Matter Experts

- **Elisabeth Godet** - Sanofi-Aventis Research and Development; member of Vaccines Europe
- **Laurent Desqueper** - MSD; member of EFPIA
- **Nora Weitbrecht** - Sandoz AG; member of Medicines for Europe
- **Roberta Bernardelli** - Gilead; member of EUCOPE



Network Subject Matter Experts

- **Barbara Yutzy** - Germany; PEI
- **Fakhredin Sayed Tabatabaei** - The Netherlands; MEB
- **Katarina Sundberg** - Sweden; MPA
- **Peter Bachmann** - Germany; BfArM



PMS Product Owners

- **Veronica Lipucci Di Paola**, EMA
- **Marcos Fernandez Gomez**, EMA



Network Product Owners

- **Dino Soumpasis** - Germany; BfArM



Event Presentations

[Training Session on Human Variations electronic Application Form \(eAF\)](#)

(2 February 2023)

[PMS Webinar on Data Migration](#)

(23 February 2023)

[PLM Portal Access Management Webinar](#)

(25 May 2023)



News and Q&A Documents

- [eAF-PMS Newsletter issue 3](#) (May 2023)
- [Joint eAF \(DADI\)-PMS general Q&A document](#)
- [Human Variations eAF-PMS Frequently Asked Questions \(FAQs\) document](#)



Where? [Substance and product data management services | European Medicines Agency \(europa.eu\)](#)



Published*

Introduction – EU Implementation Guide

Chapter 1 – Registration requirements

Chapter 2 – Data elements for the electronic submission of information on medicinal products for human use

Chapter 6 – Technical specifications on structure and format

Chapter 7 – Migration guide

Chapter 8 – Practical examples / Annex I – Complete representations

Chapter 3 – Process for the electronic submission of medicinal products information (*removed in 2022*)



To be Published

Chapter 3 – Process for the electronic submission of medicinal products information

Chapter 5 – Data access export

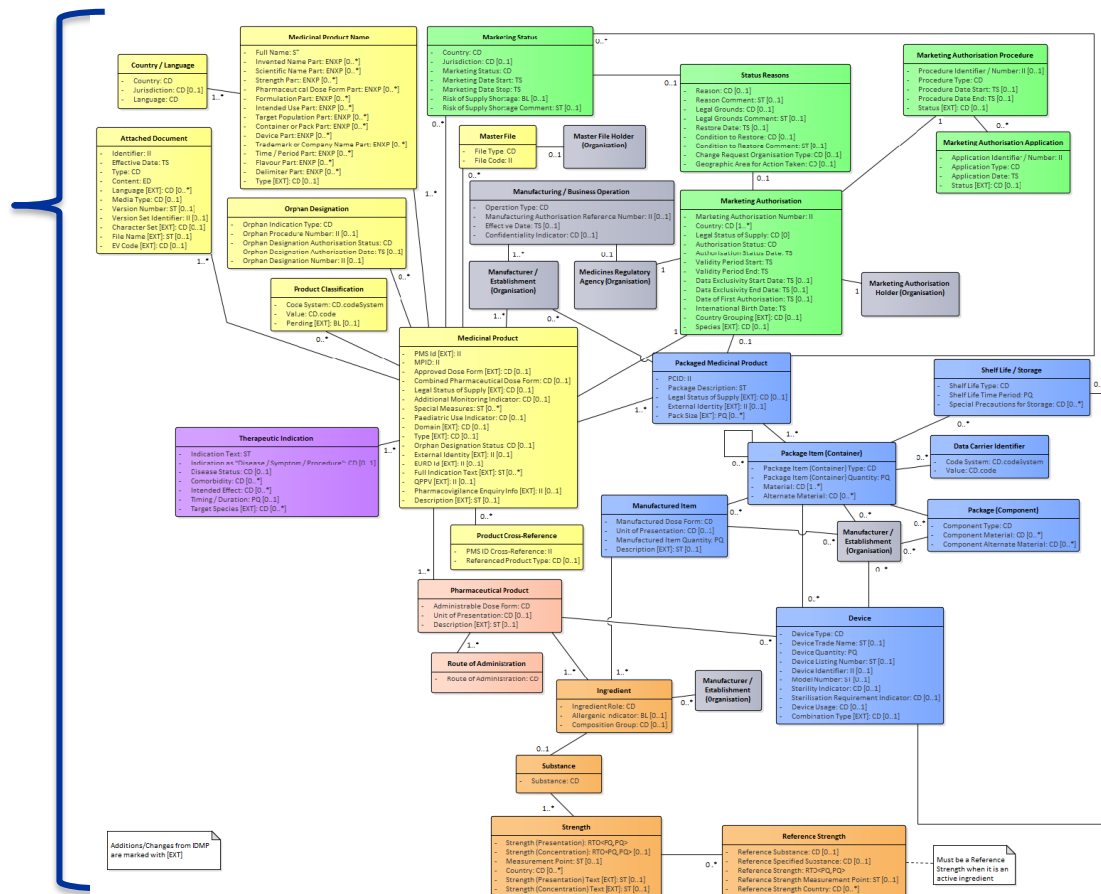
Chapter 4 – Data quality assurance

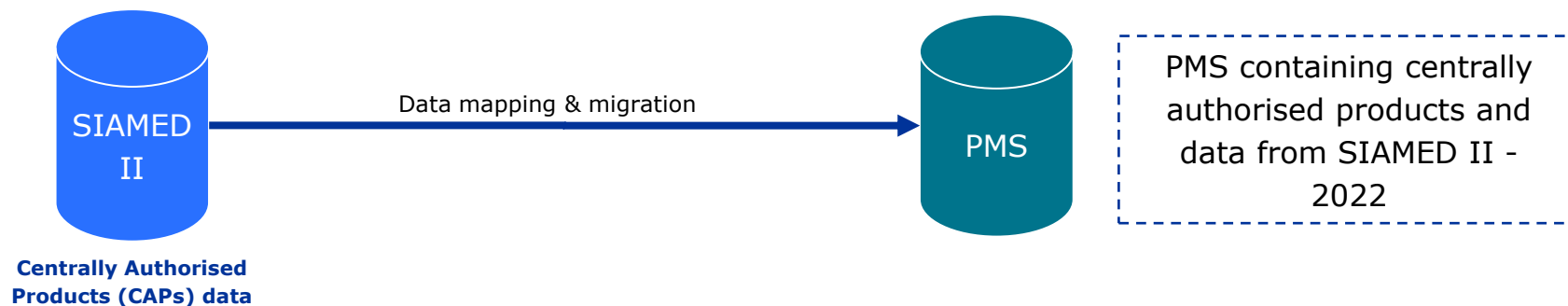
Chapter 9 – Process for submitting existing data on medicinal products authorised for human use



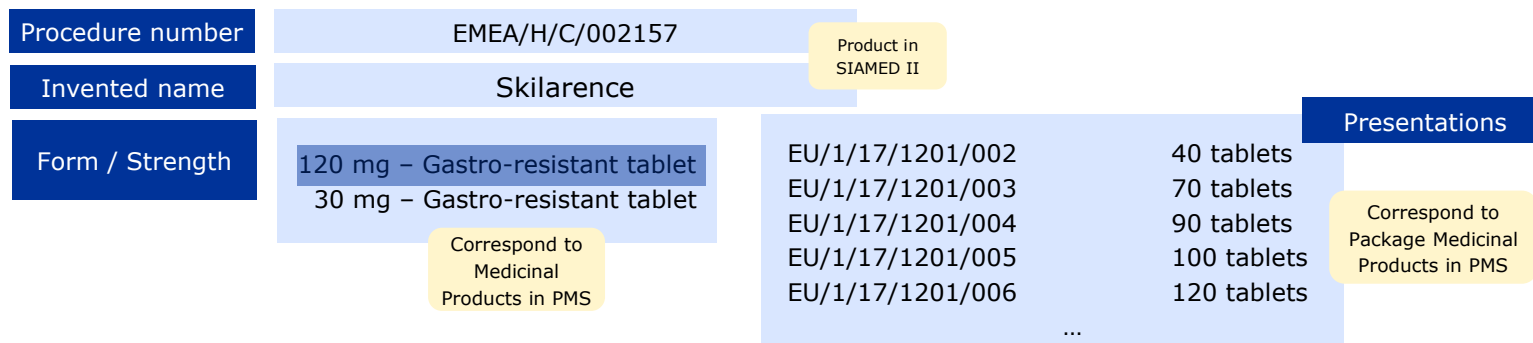
Colour legend

- Medicinal Product definition
- Regulated Authorisation (Marketing Authorisation)
- Manufacturer / Organization definition
- Therapeutic indication
- Packaged Medicinal Product Definition
- Pharmaceutical Product
- Ingredient





In **SIAMED II**, a **product is an umbrella** which can contain several medicinal products and each medicinal product can contain multiple presentations.



- SIAMED contains **data** that can be **mapped to already existing terms** in other SPOR services.
- An exercise to map these terms to SPOR has been performed by EMA.

Form/strength name	120 mg - Gastro-resistant tablet
Pharmaceutical form	Gastro-resistant tablet
Route of administration	Oral use,

Composition/ingredients	
Substance	Role
Dimethyl fumarate	Active

Applicant **Almirall S.A**

R

Identifier	100000110655
Source Of Information: SIAMED - EMA CP management system	
Source Term ID: milligram(s)	
Main Source?: no	

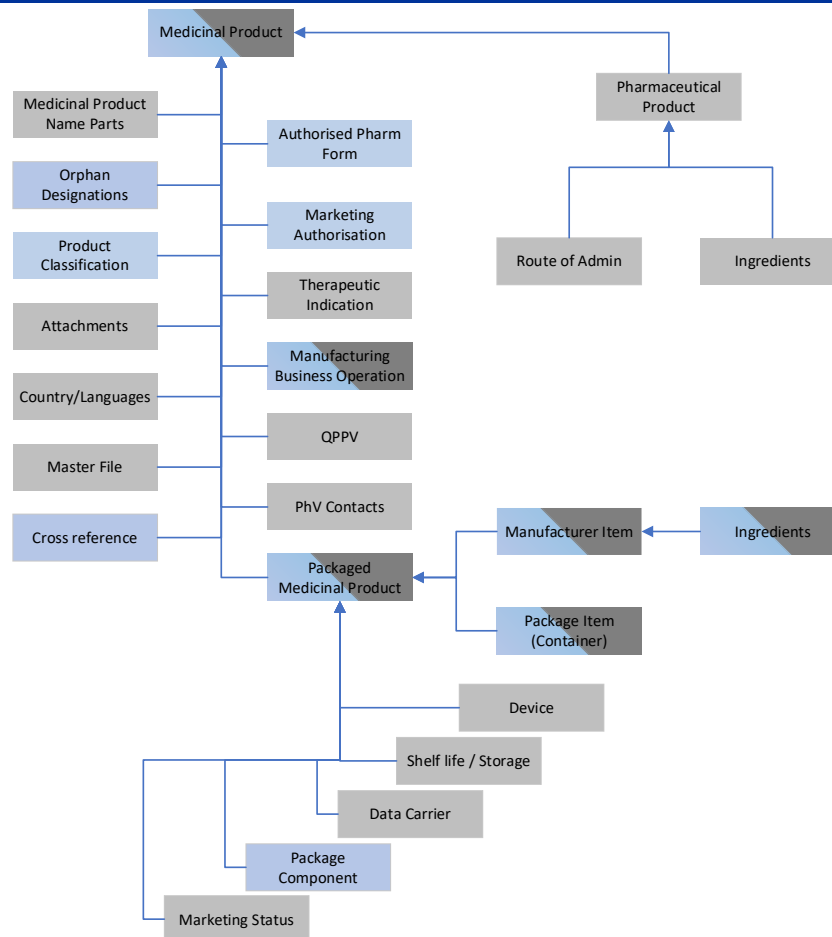
Identifier	100000073667
Operational Attributes	
Term Name	en Gastro-resistant tablet
Source Of Information: SIAMED - EMA CP management system	
Source Term ID: Gastro-resistant tablet	
Main Source?: no	

S

Term	Dimethyl fumarate
Identifier	100000079228
Status	Current

O

ORG-100000571 Almirall S.A.



Legend:

Fields coming from SIAMED

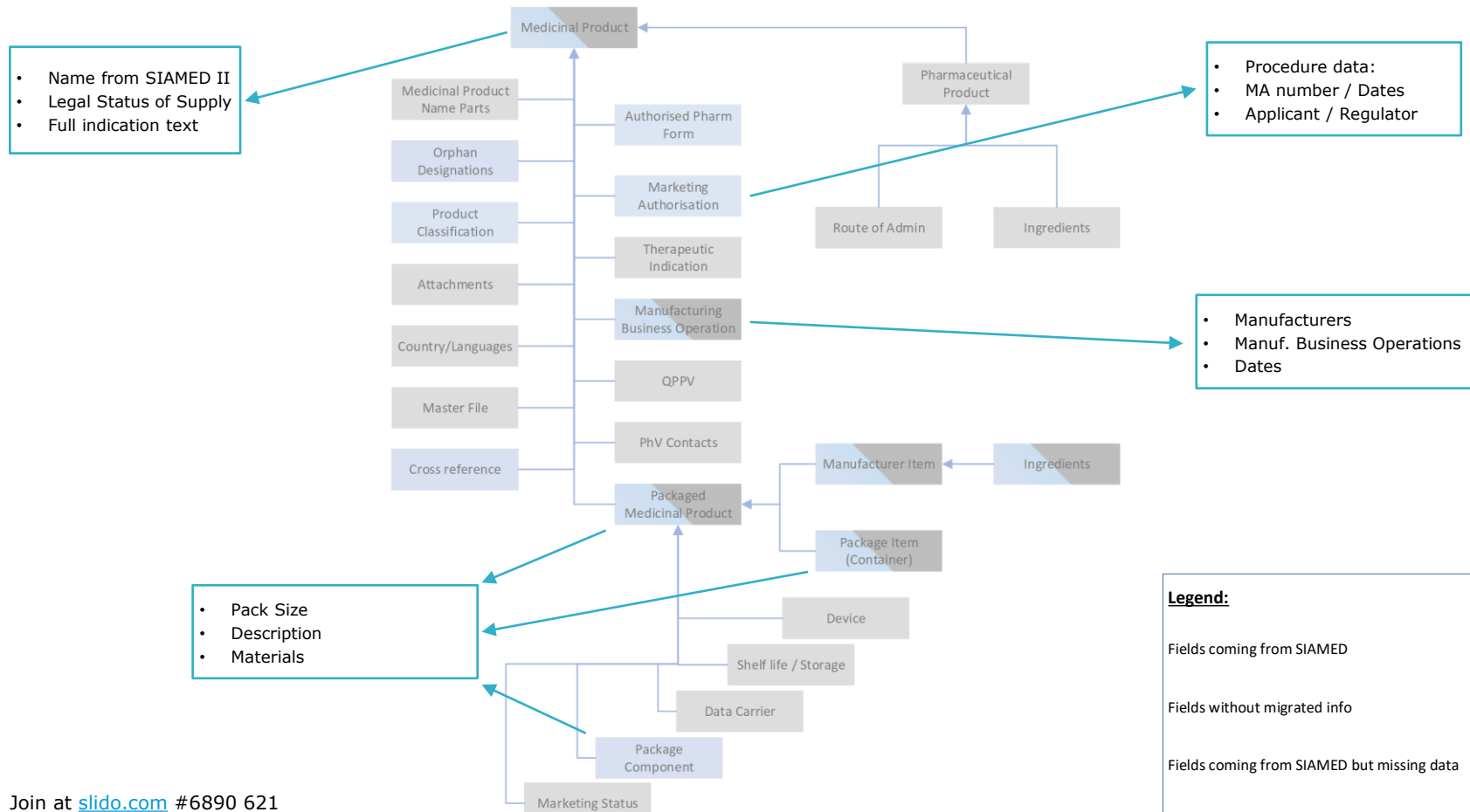
Fields without migrated info

Fields coming from SIAMED but missing data

Data migrated from SIAMED II



EUROPEAN MEDICINES AGENCY



[Home](#) > [Medicinal Products](#)

This list contains a **live copy** of all authorised human Medicinal Products from PMS to be used in the electronic Application Form.

Full Name

▼

skilarence

×

Authorised Dose Form

▼

Active Substance

▼

Authorisation Country

▼

MA Nr.

Search All Products

Q

Full Name ↑	Authorised Dose Form	Active Substance	Authorisation Country	MA Holder	MA Nr.	MRP/CP Nr. ↑	PMS ID	MP ID
Skilarence 120 mg - Gastro-resistant tablet	Gastro-resistant tablet	Dimethyl fumarate	European Union	Almirall S.A.	EU/1/17/1201	EMEA/H/C/002157	600000000258	
Skilarence 30 mg - Gastro-resistant tablet	Gastro-resistant tablet	Dimethyl fumarate	European Union	Almirall S.A.	EU/1/17/1201	EMEA/H/C/002157	6000000002964	

Total 2 entries

- PMS contains CAP data as described before while PLM portal only shows specific data elements for the time being
- More than **3,000 CAP medicinal products** in the PLM portal
- PMS products and data already in use by Inspections team and web-based electronic Application Form (eAF)

- PMS API aligned with Chapter 2 of the EU IG
- Only to be used internally at EMA

```
"fullUrl": "MedicinalProductDefinition/600000000258",
"resource": {
  "resourceType": "MedicinalProductDefinition",
  "id": "600000000258",
  "contained": [ ...
  ],
  "extension": [ ...
  ],
  "identifier": [ ...
  ],
  "domain": { ...
  },
  "version":
  "status": { ...
  },
  "indication": "Skilarence is indicated for the treatment of moderate to severe plaque psoriasis in adults in need of systemic medicinal therapy.",
  "_indication": { ...
  },
  "legalStatusOfSupply": { ...
  },
  "additionalMonitoringIndicator": { ...
  },
  "paediatricUseIndicator": { ...
  },
  "productClassification": [ ...
  ],
  "characteristic": [ ...
  ],
  "packagedMedicinalProduct": [ ...
  ],
  "name": [
    {
      "id": " ",
      "productName": "Skilarence 120 mg - Gastro-resistant tablet",
      "type": {
```



IMPORTANT: this slide **DOES NOT represent timelines or sequencing of release** but pieces of work or events to be delivered and the impact on users.



Ongoing PMS Work

Marcos Fernandez Gomez, *PMS Product Co-owner, EMA*

Veronica Lipucci Di Paola, *PMS Product Co-owner, EMA*



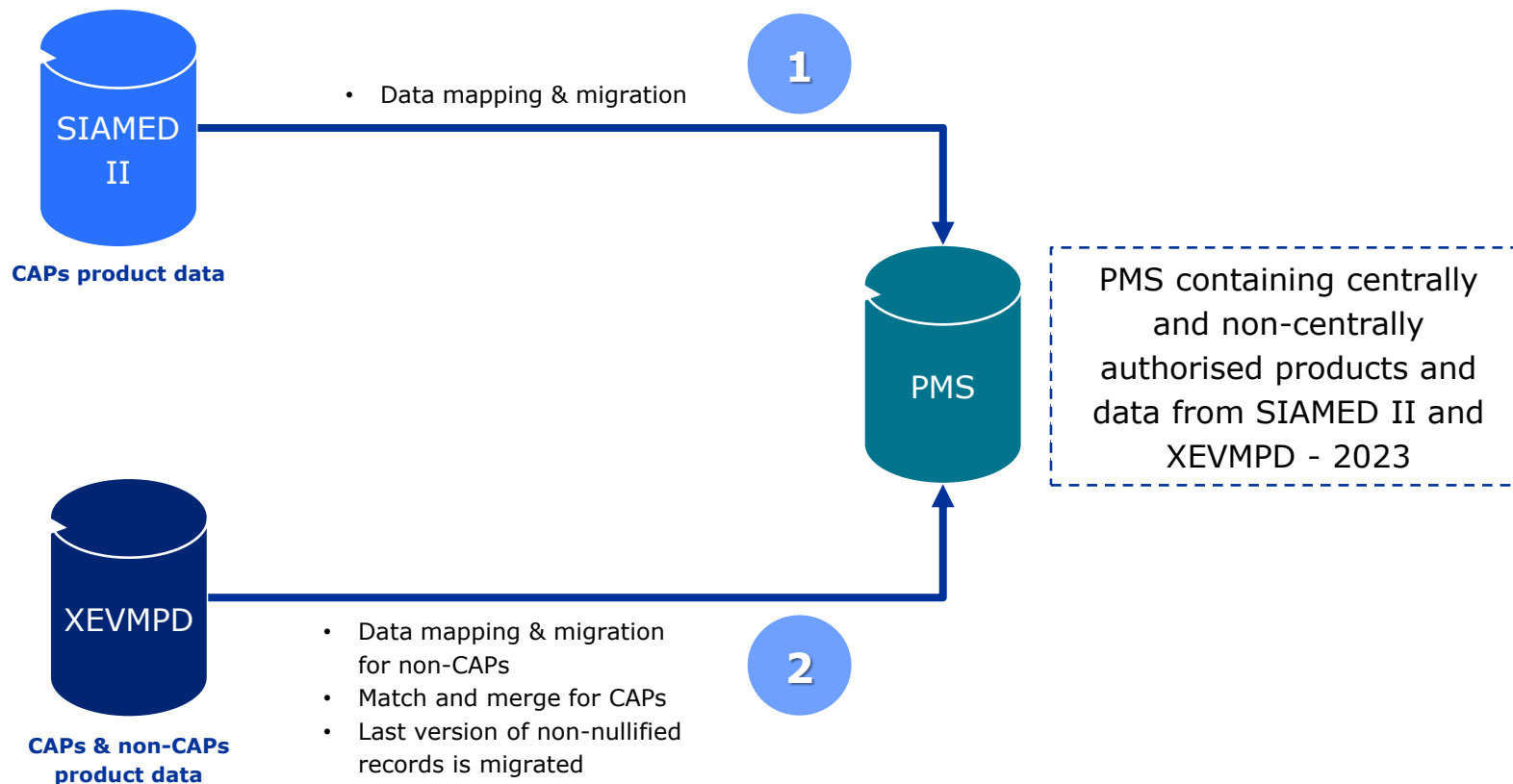
- Providing expert input on EPIC/Feature related topics for prioritisation:
 - Development of **Product User Interface design** and graphic
 - Support the development of **Product UI VIEW** and **EDIT** functionalities
 - Support the set up of **user access and security management in PLM**
 - Refinement of **EU Implementation Guide** and **PMS Data Model**
- Support the product owners with insights and identification of technical and business solution
- Provision of input in support of the prioritization of PMS user stories and features



- There are some specific products in SIAMED II which are **not following the IDMP structure**
 - **PMS** defines a medicinal product based on the name as authorised in section 1 of the SmPC
 - **SIAMED II** does not capture the full name as authorised
- That situation leads to a case where in SIAMED II we only have one medicinal product but in PMS, more than one MP should be created
- A logic has been implemented to **split these products** before the match and merge protocol
- As advised by **eAF team**, these products should not be used until they have been split to avoid issues

SIAMED STRUCTURE		PMS STRUCTURE	
Aimovig - 70 mg – solution for injection	EU/1/18/1293/001	Aimovig 70 mg solution for injection in pre-filled pen	EU/1/18/1293/001
	EU/1/18/1293/002		EU/1/18/1293/002
	EU/1/18/1293/003	Aimovig 70 mg solution for injection in pre-filled syringe	EU/1/18/1293/003
Aimovig - 140 mg – solution for injection	EU/1/18/1293/004	Aimovig 140 mg solution for injection in pre-filled pen	EU/1/18/1293/004
	EU/1/18/1293/005		EU/1/18/1293/005
	EU/1/18/1293/006	Aimovig 140 mg solution for injection in pre-filled syringe	EU/1/18/1293/006
2 products each of them with 3 presentations		4 products each of the with different number of presentations	

*As a general rule, if, for the same strength and dose form, there are **different full names authorised**, these products will be split in PMS.*



- SIAMED and XEVMPD contain **data** that can be **mapped to already existing terms** in other SPOR services.
- An exercise to map the terms in both databases to SPOR has been performed by EMA.

S

View :Olmesartan medoxomil

Term	Olmesartan medoxomil
Identifier	100000089966
Status	Current

[Extended EudraVigilance Medicinal Product Dictionary - xEVMPD](#)

Source Term ID SUB03508MIG

O

Organisation Details

Organisation ID:	ORG-100000149
Organisation Name:	Kern Pharma S.L.

Location Details

Location ID:	LOC-100002956
xEVMPD Code:	ORG [REDACTED], ORG [REDACTED], ORG [REDACTED]

R

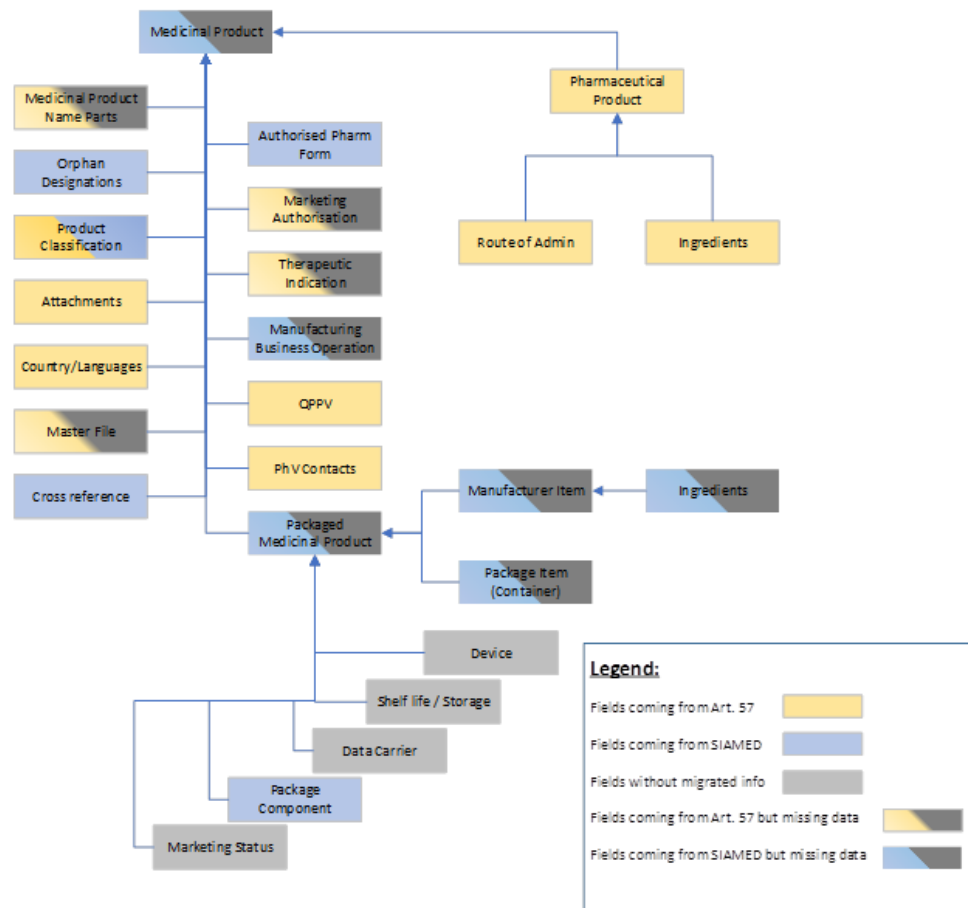
Identifier 100000073665

Term Name en Film-coated tablet

Mappings

Source Of Information: Extended EudraVigilance Medicinal Product Dictionary - xEVMPD
Source Term ID: PHF00082MIG
Main Source?: no

- **CAPs:** data sourced from SIAMED and XEVMPD
- **Non-CAPs:** limited data sourced only from XEVMPD
- Despite the initial data load from SIAMED and XEVMPD some PMS definitions & resources **will be missing** (e.g. non-CAP MBO, data carrier, device etc.)



- XEVMPD contains **CAPs** data:
 - At presentation level (i.e. one EV code per presentation)
 - 4 records per presentation (i.e. 4 countries: EU, LI, NO, IS)
- The **match and merge protocol** consists in the identification of:
 - a product in PMS migrated from SIAMED II with their respective presentation
 - the same presentation in XEVMPD and merge them

PMS		SIAMED II	MA number	XEVMPD
600000000258	Skilarence 120 mg - G astro-resistant tablet		EU/1/17/1201/002	Skilarence 120 mg g astro-resistant tablets
			EU/1/17/1201/003	
			EU/1/17/1201/004	
			EU/1/17/1201/005	
			EU/1/17/1201/006	
			EU/1/17/1201/007	
			EU/1/17/1201/008	
6000000002964	Skilarence 30 mg - G astro-resistant tablet		EU/1/17/1201/001	Skilarence 30 mg g astro-resistant tablets
			EU/1/17/1201/013	
			EU/1/17/1201/014	

Once a record from SIAMED II (*now in PMS*) and a record from XEVMPD match, there are several **business rules** defined for the merge and are described in [EU IG Chapter 7](#).

Depending on the data field, the final source of data might be different.

Is this field in SIAMED?	Is this field in XEVMPD?	Business rule	Example
NO	NO	This field will be empty	Storage conditions
YES	NO	Keep the data migrated from SIAMED	Manufacturers
NO	YES	Migrate the data from XEVMPD	MedDRA Codes
YES	YES	Define the source of data	Full name - overwritten by XEVMPD data

XEVMPD contains **non-CAPs** data:

- At presentation level (i.e. one EV code per presentation)
- At medicinal product level (i.e. no presentations are submitted to XEVMPD)
- BE, FI and LU authorised products are submitted in each official language

EV codes with the same data in the following **XEVMPD fields** are grouped under the same PMS Medicinal Product



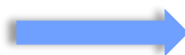
*All countries except BE, FI and LU

**BE, FI and LU

Example 1

Owner HQ ID	Authorisation Country	Substance names	Pharmaceutical Form	Full Presentation Name	Authorisation Number
CHIESI	Romania	CROSPVIDONE, LACTOSE MONOHYDRATE, MAGNESIUM STEARATE, SILICA, CO	TABLET	Flamexin, 20 mg, comprimate	7146/2006/03
CHIESI	Romania	CROSPVIDONE, LACTOSE MONOHYDRATE, MAGNESIUM STEARATE, SILICA, CO	TABLET	Flamexin, 20 mg, comprimate	7146/2006/01
CHIESI	Romania	CROSPVIDONE, LACTOSE MONOHYDRATE, MAGNESIUM STEARATE, SILICA, CO	TABLET	Flamexin, 20 mg, comprimate	7146/2006/02

3 EV codes in XEVMPD
(1 per presentation)

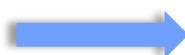


1 Medicinal product with
3 Package medicinal products

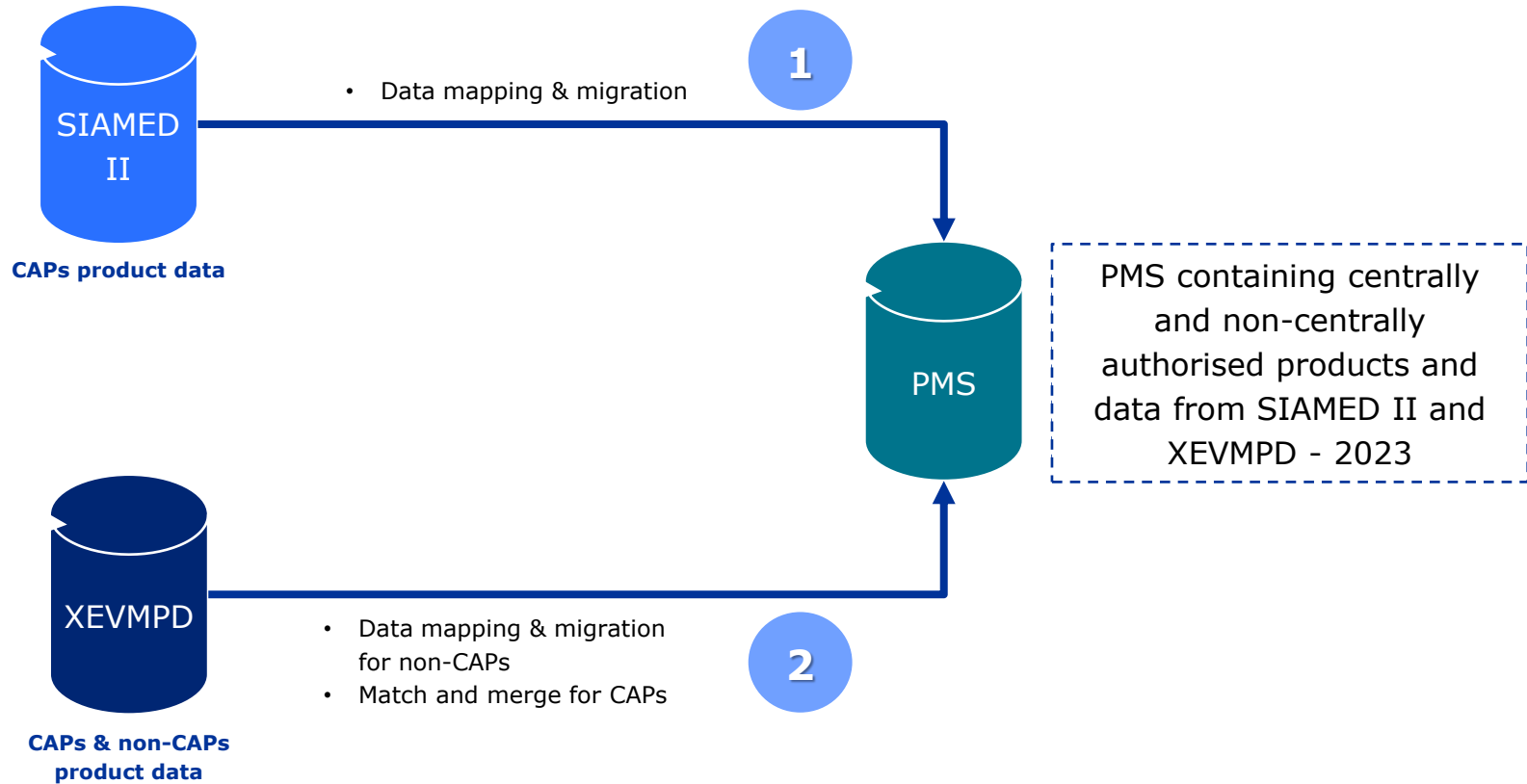
Example 2

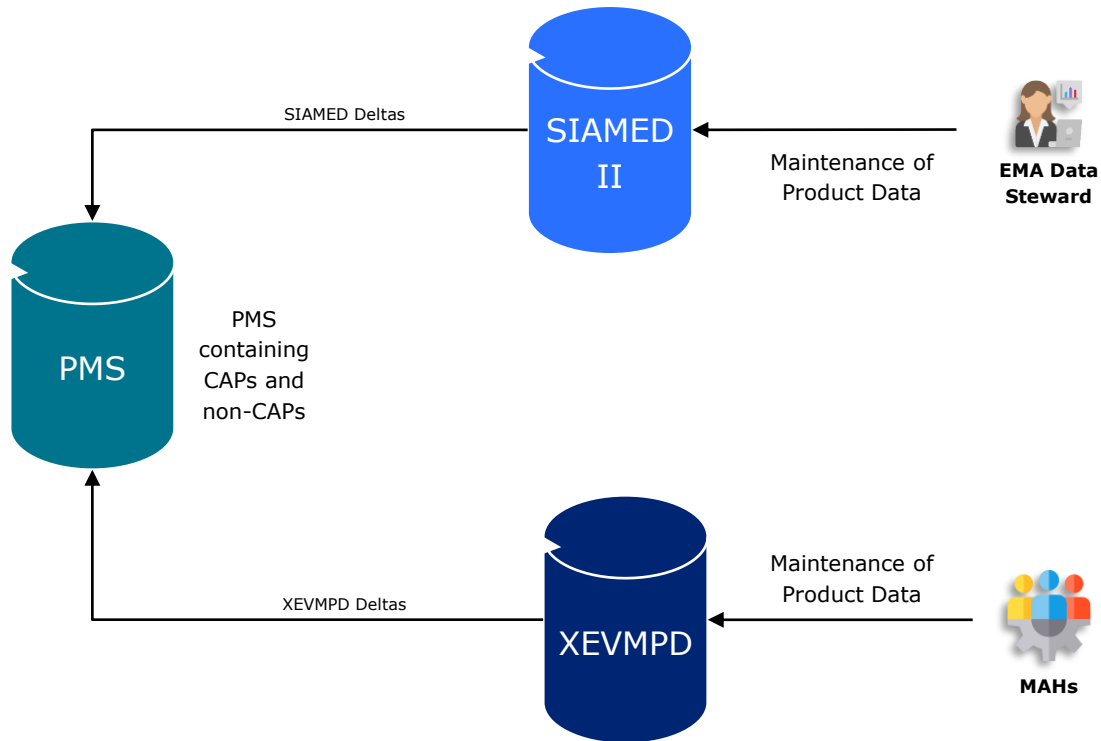
Owner HQ ID	Authorisation Country	Substance names	Pharmaceutical Form	Full Presentation Name	Authorisation Number
ESTEVE	Spain	HYDROGENATED VEGETABLE OIL, HYDROXYPROPYL DISTARCH PHOSPHAT PROLONGED-RELEASE TABLET		DOLPAR 300 mg comprimidos de liberación prolongada	67.587
ESTEVE	Spain	HYDROGENATED VEGETABLE OIL, HYDROXYPROPYL DISTARCH PHOSPHAT PROLONGED-RELEASE TABLET		DOLPAR 100 mg comprimidos de liberación prolongada	67.585
ESTEVE	Spain	HYDROGENATED VEGETABLE OIL, HYDROXYPROPYL DISTARCH PHOSPHAT PROLONGED-RELEASE TABLET		DOLPAR 200 mg comprimidos de liberación prolongada	67.586

3 EV codes in XEVMPD
(1 per product)



3 Medicinal product with
1 Package medicinal product each





XEVMPD deltas

- Changes done in XEVMPD are propagated to PMS
- Messages from XEVMPD stay in a queue and are processed in PMS (performance of deltas will increase over time)
- Same logics as initial load are used in the deltas



PMS team is working in a **Product User Interface** that will allow users to:

- See medicinal products data
- Maintain product data



Product UI will be located in the PLM Portal

Points also under discussion:

- 
- User roles (Industry and NCAs)
 - Security and Access Management

Full Name

Authorised Dose Form

Active Substance

Authorisation Country

MA Nr.

MRP / DCP / CP Nr.

PMS ID

[Apply Filter](#)[Reset](#)

☐	PMS ID	Full Name	Authorised Dose Form	MA Holder	MA Nr.	Active Substance ↓	Authorisation Country	MRP / DCP / CP Nr.
☐	600001041509	Cisordinol 2 mg-Filmtabletten	Film-coated tablet	Lundbeck Austria GmbH	17.532	ZUCLOPENTHIXOL HYDROCHLORIDE	AT	
☐	600000856156	Cisordinol 25 mg-Filmtabletten	Film-coated tablet	Lundbeck Austria GmbH	17.534	ZUCLOPENTHIXOL HYDROCHLORIDE	AT	
☐	600001028841	Clopixol 2 mg, filmomhulde tabletten	Film-coated tablet	Lundbeck	BE128825	ZUCLOPENTHIXOL HYDROCHLORIDE	BE	
☐	600000921530	Clopixol 10 mg, filmomhulde tabletten	Film-coated tablet	Lundbeck	BE128834	ZUCLOPENTHIXOL HYDROCHLORIDE	BE	
☐	600000691218	Clopixol 25 mg, filmomhulde tabletten	Film-coated tablet	Lundbeck	BE128852	ZUCLOPENTHIXOL HYDROCHLORIDE	BE	
☐	600000894940	Clopixol 20 mg/ml solution buvable en gouttes	Oral drops, solution	Lundbeck	BE128843	ZUCLOPENTHIXOL HYDROCHLORIDE	BE	
☐	600001008736	Clopixol 20 mg/ml πόσιμες σταγόνες, διάλυμα	Oral drops, solution	Lundbeck Hellas S.A.	S00292	ZUCLOPENTHIXOL HYDROCHLORIDE	CY	
☐	600000681071	Clopixol 10 mg επικαλυμμένα με λεπτό υμένιο δισκία	Film-coated tablet	Lundbeck Hellas S.A.	S00290	ZUCLOPENTHIXOL HYDROCHLORIDE	CY	

Product UI – view pages

**Medicinal Product**

Sifrol 0.26 mg - Prolonged-release tablet
PMS ID : 600000002790 Auth Status: Valid

**Medicinal Product**

Marketing Authorisation Information

Therapeutic Indications

Manufacturers

Ingredients

**Packaged Medicinal Product**

Marketing Authorisation Information

Package Items

Manufacturers

Manufactured Items

Medical Devices

**Pharmaceutical Product**



PMS ID 600000002790

MPID 600000002790

Domain Human use

Type Medicinal Product

Medicinal Product Name

Full Name

Country

Language

No Data Available

Showing 0 to 0 of 0 entries

Legal Status of Supply

Medicinal product subject to medical prescription

(Authorised) Pharmaceutical Form

Prolonged-release tablet

Combined Pharmaceutical Dose Form

Paediatric use indicator

No

Additional Monitoring (Y/N)

No

EURD ID

Orphan designation

Product classification

Pharmacovigilance related information

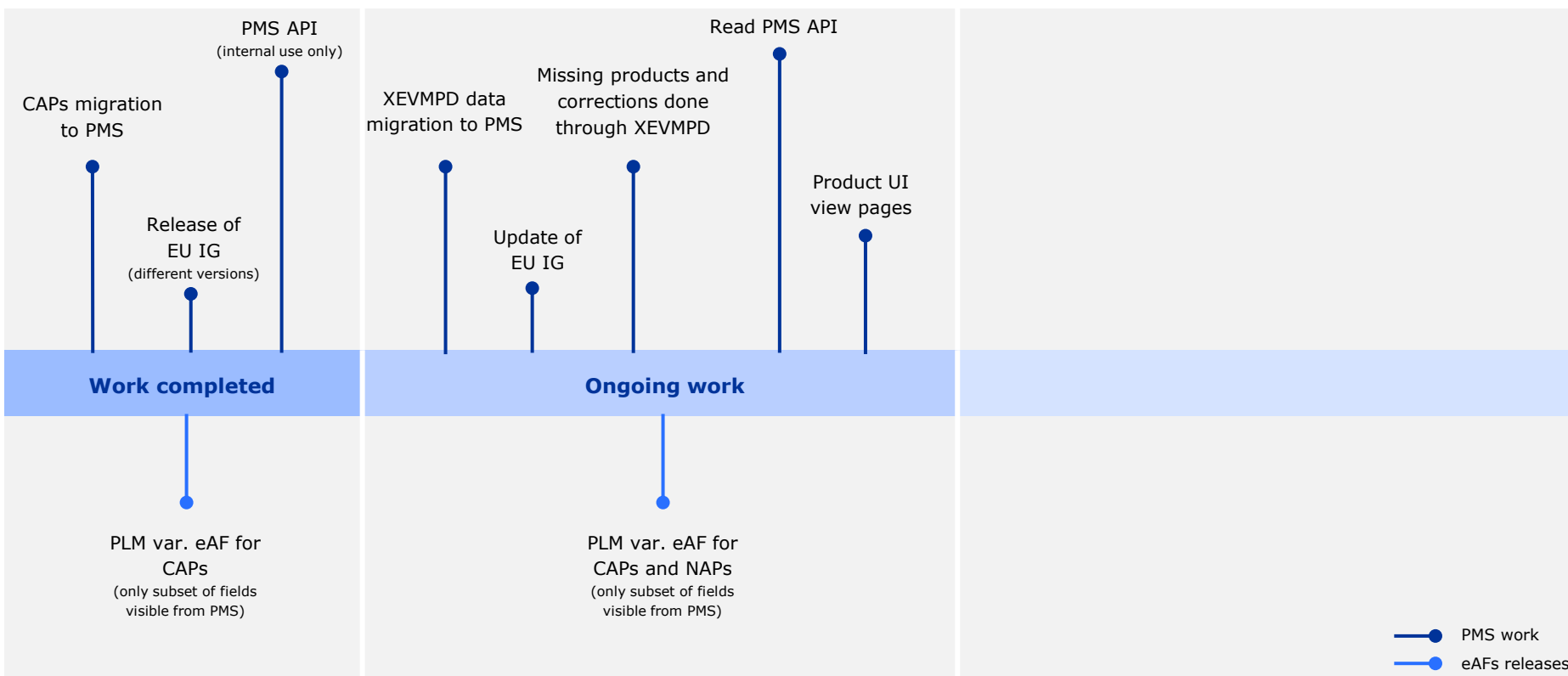


PMS is working on the **Security and Access Management of the PMS API** (read access only) for Industry and NCAs.



Users will be able to see medicinal product data through the API or the product UI

```
1  <?xml version="1.0" encoding="utf-8"?>
2  <Bundle xmlns="http://hl7.org/fhir">
3    <id value="600000001200" />
4    <meta>
5      <versionId value="1" />
6      <lastUpdated value="2023-05-09T13:00:11.932+00:00" />
7    </meta>
8    <type value="searchset" />
9    <entry>
10     <fullUrl value="MedicinalProductDefinition/600000001200" />
11     <resource>
12       <MedicinalProductDefinition>
13         <id value="600000001200" />
14         <contained>...
15       </contained>
16       <extension id="4380" url="http://ema.europa.eu/fhir/extension/authorisedDoseForm">...
17     </extension>
18     <identifier>...
19   </identifier>
20   <domain>...
21 </domain>
22   <version value="9" />
23   <status>...
24 </status>
25   <indication value="Paroxysmal nocturnal haemoglobinuria (PNH) Ultomiris is indicated in the treatment of adult and paediatric patients with a body weight of 10 kg or above with
26   PNH: - in patients with haemolysis with clinical symptom(s) indicative of high disease activity. - in patients who are clinically stable after having been treated with
27   eculizumab for at least the past 6 months (see section 5.1). Atypical haemolytic uremic syndrome (aHUS) Ultomiris is indicated in the treatment of patients with a body
28   weight of 10 kg or above with aHUS who are complement inhibitor treatment-naïve or have received eculizumab for at least 3 months and have evidence of response to eculizumab
29   (see section 5.1). Generalized myasthenia gravis (gMG) Ultomiris is indicated as an add-on to standard therapy for the treatment of adult patients with gMG who are
30   anti-acetylcholine receptor (AChR) antibody-positive. Neuromyelitis Optica Spectrum Disorder (NMOSD) Ultomiris is indicated in the treatment of adult patients with NMOSD
31   who are anti-aquaporin 4 (AQP4) antibody-positive (see section 5.1)." id="1793">...
32 </indication>
33 <legalStatusOfSupply>...
```



IMPORTANT: this slide **DOES NOT represent timelines or sequencing of release** but pieces of work or events to be delivered and the impact on users.



Future PMS Work

Marcos Fernandez Gomez, *PMS Product Co-owner, EMA*

Veronica Lipucci Di Paola, *PMS Product Co-owner, EMA*

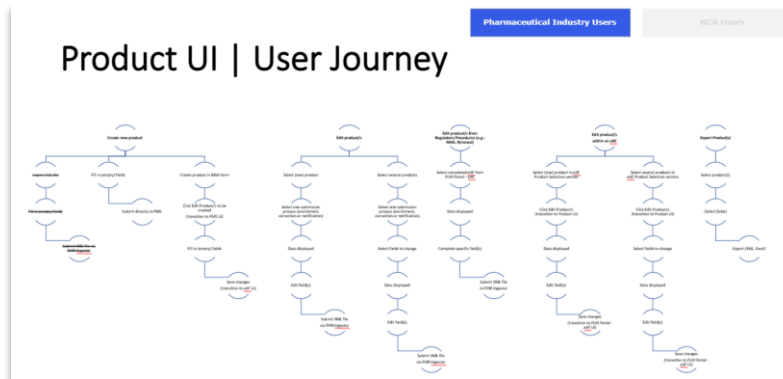
PMS will be working on:

 Improve **view pages** of the product user interface

 Create the **edit pages** that will allow users to **modify data directly in PMS** through the product UI

 Build all the **necessary processes** behind the user interface to support:

- ✓ Enrichments
- ✓ Corrections
- ✓ Notifications
- ✓ Updates



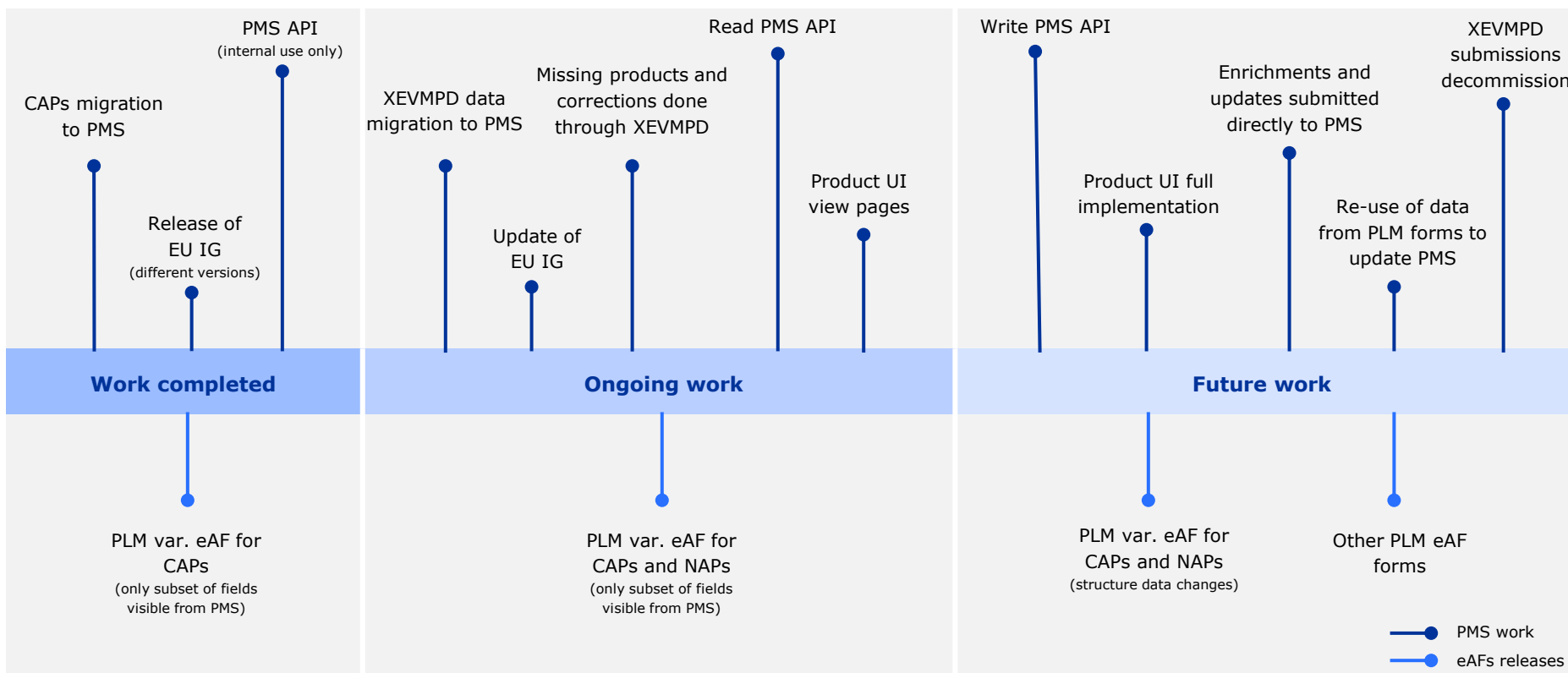


In order to **support machine to machine connections** to PMS, additional work will be done in the PMS API.

This will allow to view the data in PMS and **submit changes** to it

FHIR profiles will be generated and made them public.

Product Data Management Services	Product Management Service (PMS)	SIAMED Integration	Migration and deltas from SIAMED II
		XEVMPD Integration	Migration and deltas from XEVMPD
	Data Quality, Exchange and Sync. Services	ISO IDMP Implementation (including API)	PMS API (read and write capabilities)
		FHIR Adaptor Implementation	Re-use of other FHIR messages to update PMS. (eAF FHIR message for example)
		PMS to XEVMPD Sync	To be able to decommission XEVMPD submissions, a synchronisation between PMS and XEVMPD should be in place.
	Product UI	View Pages	Read access to the Product User Interface
		Edit Pages	These pages will be used to edit medicinal product data
		PMS Processes	Different business processes will use the edit pages. Those processes should be implemented in the UI.
		IDMP Compliance	Capability to make sure that the data received in PMS is IDMP compliance – data profiling, AckS, etc



IMPORTANT: this slide **DOES NOT represent timelines or sequencing of release** but pieces of work or events to be delivered and the impact on users.

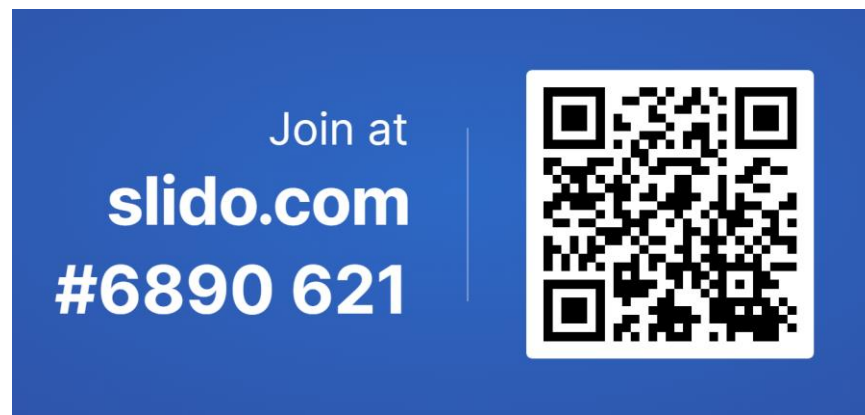


Q&A Session

Marcos Fernandez Gomez, *PMS Product Co-owner, EMA*

Veronica Lipucci Di Paola, *PMS Product Co-owner, EMA*

Moderator: Caterina Scarpati, *PMS Change Management Team*



1. Join via the QR code or link



2. Send or upvote the questions you want to hear answered



3. Questions will be shown on the screen and managed live in the Q&A session



Closing

Veronica Lipucci Di Paola, *PMS Product Co-owner, EMA*

Marcos Fernandez Gomez, *PMS Product Co-owner, EMA*