

UNICOM Project: Improve medicinal product data along their life cycle

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Agenda



- Positioning the challenge
- What is ISO IDMP
- UNICOM what it is and which are the stakeholders
- UNICOM achievements so far
- UNICOM and IHE?
- The way forward



Positioning the challenge



Inconsistencies

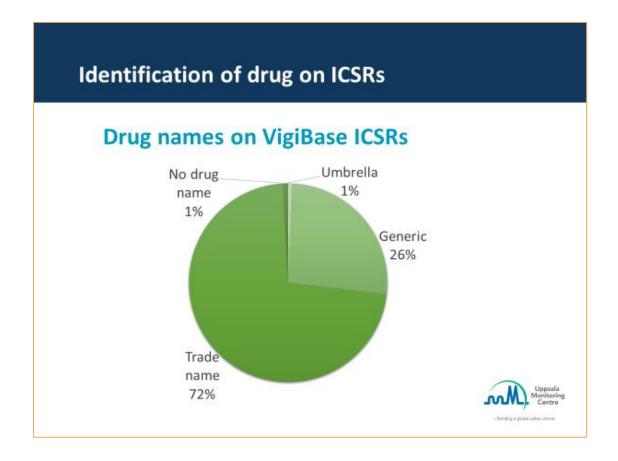


- Pharmacovigilance
 - Same medicinal product
 - ✓ Different name, expression of dosage, pharmaceutical dose form, route of administration
 - Same medicinal product?
 - ✓ What about substance(s)?
- Cross border prescriptions
 - How to identify medicinal products un-ambiguously?
 - How to decide which medicinal product is identical to another?
- Decision support
 - Decision support systems based on local product master data?
 - How to develop multimarket systems?
- Shortage
 - How to aggregate medicinal products which seem to be identical/different?



Pharmacovigilance





Identification of drug on ICSR

	All VigiBase	Reports 2012- 2017
Batch number	18%	22%
No batch number	82%	78%







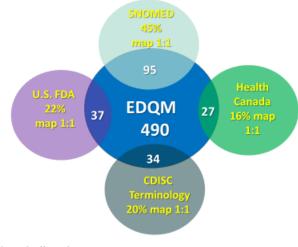
Pharmaceutical dose form



Region-to-Region Dose form Terminology

Various regions are using their own set of terminologies for dose form, which show different levels of granularity

→ One-to-one mapping between regional terminologies and a centrally controlled vocabulary of low quality





² https://evs.nci.nih.gov/ftp1/FDA/SPL/About.html

filote: In 2018, HC dosage form dataset for active products was downloaded and analyzed by FDA to determine the extent of 1:1 mapping



Dose Form Challenge

- ❖ Dose Form expression variations (e.g. Pfizer Covid-19 vaccine)
 - EMA Dispersion for Injection
 - FDA Suspension for Injection
 - UK Solution for Injection



Pharmaceutical Dose	Release	Intended Site	Administration	Basic Admin.
Form	Characteristics		Method	Dose Form
Dispersion for njection	Conventional	Parenteral	Injection	Dispersion
	(0047)	(0033)	(0012)	(0079)
,	,	Parenteral (0033)	'	Suspension (0085)
•	Conventional	Parenteral (0033)	Injection (0012)	Solution (0083)











³ https://www.canada.ca/en/health-canada/services/drugs-health-products/drug-products/drug-product-

⁴https://ncim.nci.nih.gov/ncimbrowser/

https://www.cdisc.org/standards/termin

What is IDMP?

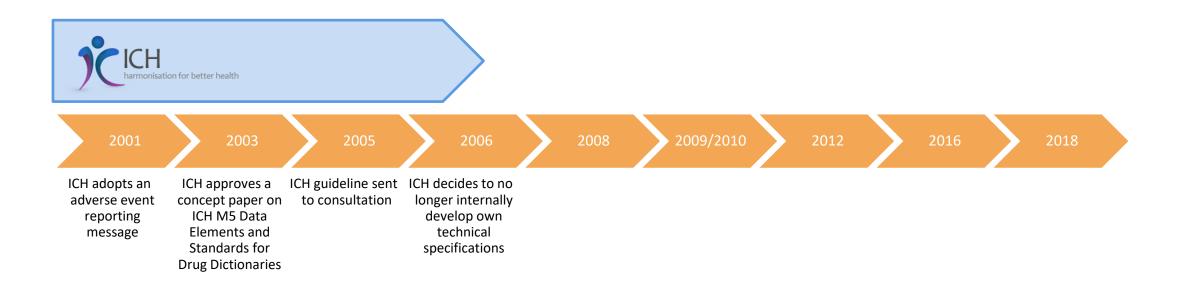


IDMP – the origin





Recognise the need to improve adverse event management.



Source: Dr Andrew Marr

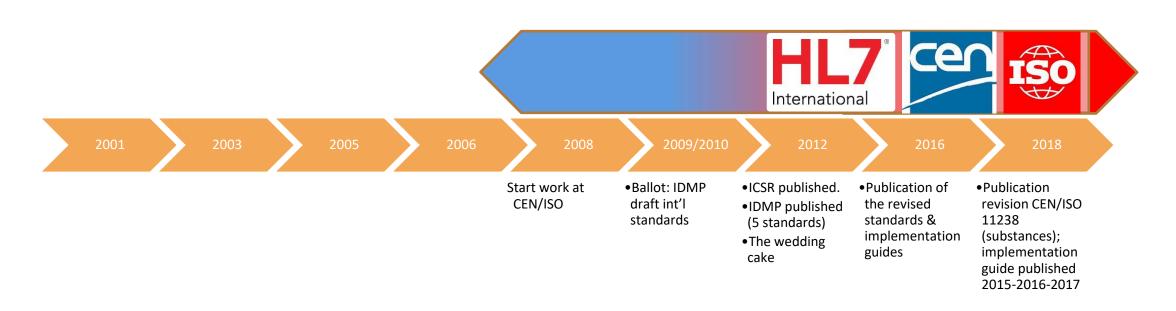


IDMP – the origin





Recognise the need to improve adverse event management.





5 Standards, 4 + 1 Specifications, 1 Technical report







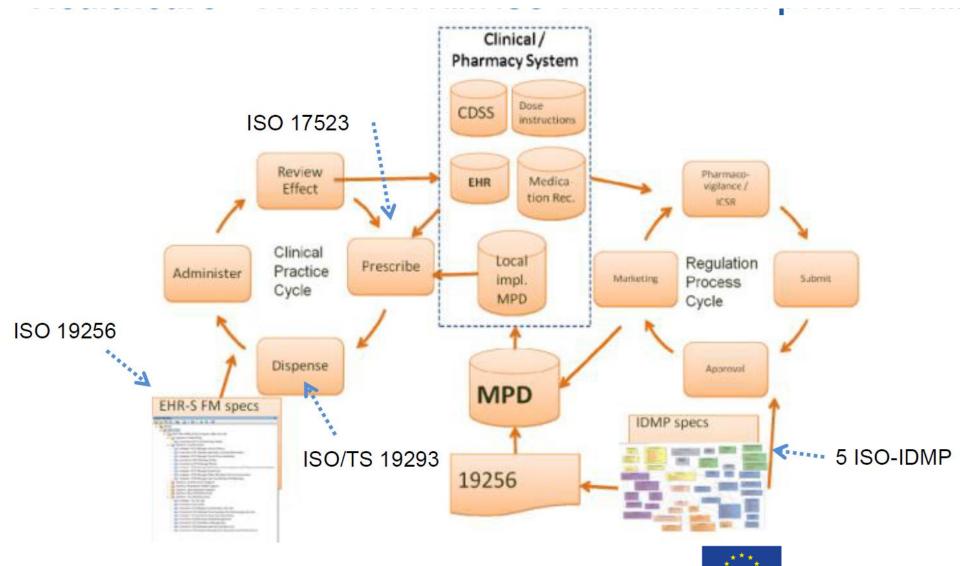


The «wedding cake»



Several relevant ISO standards that point to IDMP







UNICOM what it is and which are the stakeholders



The life-cycle of a medicinal product

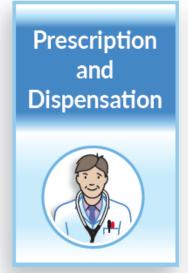


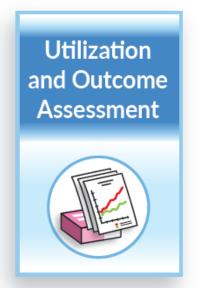
Covered by UNICOM and its 13 Work Packages













UNICOM, 13 Work Packages (WP)

- WP01 IDMP-related standards and terminologies
 Robert Stegwee Christian Hay (NICTIZ, Netherlands)
- WP02 Implementation of IDMP Substance Management in Europe
 Joris Kampmeijer Annet Rozema (CBG, Netherlands)
- WP03 Pan-European IDMP-compliant application forms
 Georg Neuwirther Noel Diamant (AGES, Austria)
- WP04 IDMP implementation at National Drug Agencies
 Pelle Persson (MAP, Sweden), Georg Neuwirther (AEGES, Austria)
- WP05 IDMP adoption by eHealth Services
 Diogo Martins Anderson Carmo (Portugal)
- WP06 Software and extensions for CEF eHDSI
 Alexander Berler, Kostis Kaggelides, Fotis Gonidis (Greece)
- WP07 eHDSI cross-border / national eHealth services piloting Marcello Melgara (Italy)

- WP08 Clinical care, Patients, Pharmacies, Research and Pharmacovigilance **Dipak Kalra**, Robert Vander Stichele (I~HD), Lucia Comnes (DATAWIZARD)
- WP09 Medicinal Product Dictionaries and Clinical System Software Julie James, Dipak Kalra (I~HD), Ursula Tschorn (IDMP1)
- WP10 Socio-economic Impact & Sustainable Legal and Governance Aspects Rainer Thiel, Veli Stroetmann, Petra Wilson (Empirica)
- WP11 Project management Farah Diehl-Fahim, Veli Stroetmann (Empirica)
- WP12 Overall scientific coordination and dissemination Veli Stroetmann, Farah Diehl-Fahim(Empirica)
- WP13 Ethics requirements Veli Stroetmann, Petra Wilson (Empirica)

49 Stakeholders



- Database Providers(2)
 - Vidal, Z-Index
- eHealthDSI (7)
 - Aria, Elga, Nictiz, ...
- Health Authorities (4)
 - Ireland, Lombardia, Portugal, ...
- Industry (5)
 - Datawizard, IDMP1, ...

- National Competent Authorities for Medicinal Products (13)
 - Spain, Germany, Austria, Sweden...
- Networking (3)
 - > COCIR, CTADHL, ETHEL
- > Research (5)
 - ➤ I~HD, Universities in Italy & US, ...
- Standard Development Organisations (10)
 - ➤ ISO, HL7, SNOMED...



UNICOM achievements so far : a few examples



Deliverables in UNICOM



91

Deliverables listed on EC portal

158

Deliverables to submit including iterations

32

Deliverables including Iterations approved in First Periodic reporting Sep 2021

30

Deliverables submitted including iterations



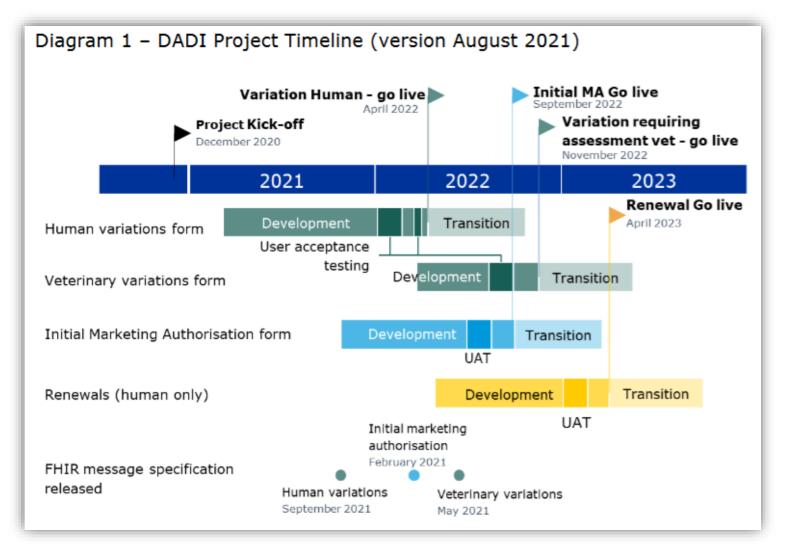
WP3 – Pan- European IDMP compliant application forms



Main Achievements:

Gap and requirements analysis for IDMP compatible application forms

DADI Roadmap and Objectives. Going live in October 2022





WP5 – IDMP adoption by eHealth Services



- Co-create with eP cluster the CP-066 Prepare eHDSI Requirements Catalogue for ISO IDMP
- Contribution on the revision of eHN eP guidelines (v0.3)

- Business Requirement Specifications
- Guidelines for IDMP-based Cross-Border eP eD PS
- Guidelines for cross-border semantic interoperability
- Semantic Specifications
- Technical specifications for cross-border services
- Guidelines to implement IDMP in National eHealth Services
- Liaison with EC, MSs and stakeholders annual report



WP6 Software and extensions for CEF eHDSI



- Jointly develop Wave 6 Assets, released on 6/2022, implementing CP-63 (enhanced packed medicinal product description) and CP-66 (Adoption of IDMP attributes)
- WP6 co-operating with eHDSI Solution Provider to implement the enriched eP/eD – PS display tool and the component to support smart substitution



WP7 eHDSI cross-border national eHealth services piloting



eHDSI Wave 6 timing and actions

- ▶ June 30th, 2022: IDMP enabled assets adopted
- September 2022: prepare Wave 7 Change Proposals with eP Cluster & Semantic TF
- October-November 2022: Preparatory Pre-Production Testing for eP/eD & PS
 - ▶ Member States must perform test with eHDSI Reference Test Data
- ► February-March 2023: Formal Pre-Production Testing for eP/eD & PS
 - ▶ Member States must perform test with eHDSI Reference Test Data, to be authorised to go in Routine Operation
 - UFIS can be used by MSs
- Since Autumn 2023: Routine Operation eP/eD & PS IDMP enabled
 - ▶ MSs must use Certified Medicinal Products Databases

- Co-operated with eHN SG on Semantic on the released eHN Guidelines on ePrescription and Patient Summary (Release 3), to include IDMP related requirements and Data Elements
- ✓ eHDSI eP Cluster, Semantic Task Force and UNICOM submitted (September 2021) the Change Proposals to enrich medications description with IDMP attributes & Identifiers (CP-66) and improve complex packages description (CP-63)
- ✓ June 2022: Released eHDSI Wave 6 IDMP enriched assets released, with UNCOM support
- ✓ Working with EC DG Santé and Member States to prepare October eHDSI Pre-Production Testing



WP9 – Medicinal Product Dictionaries and Clinical systems



- An analysis of the IDMP medicinal product identification data provided by NCAs (and SPOR) compared to that needed in MPD for clinical care and for secondary uses
- Implementation Guidance for Identification of Medicinal Products (IDMP) in Medicinal Product Dictionaries





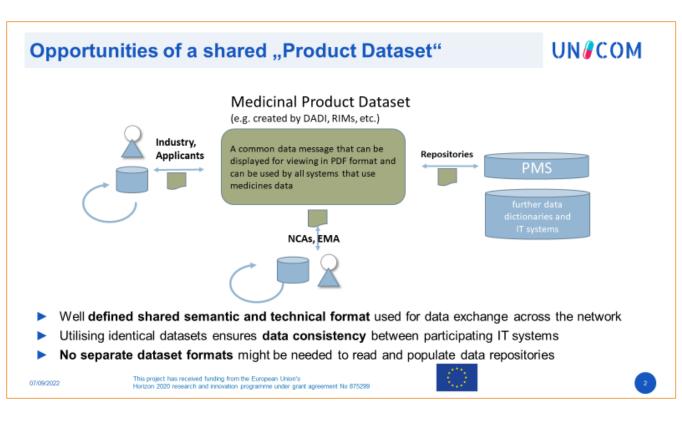
UNICOM and IHE?



UNICOM @ IHE day: 14 September 2022



- Raise awareness in the regulatory authorities community
- ...and in the pharmaceutical companies
 - ... learn how to test systems' conformity to IHE Profiles by using validators and the interoperability between systems or simulators
 - ... learn how to test interoperability of software products in a neutral, structured and rigorous environment with peer users



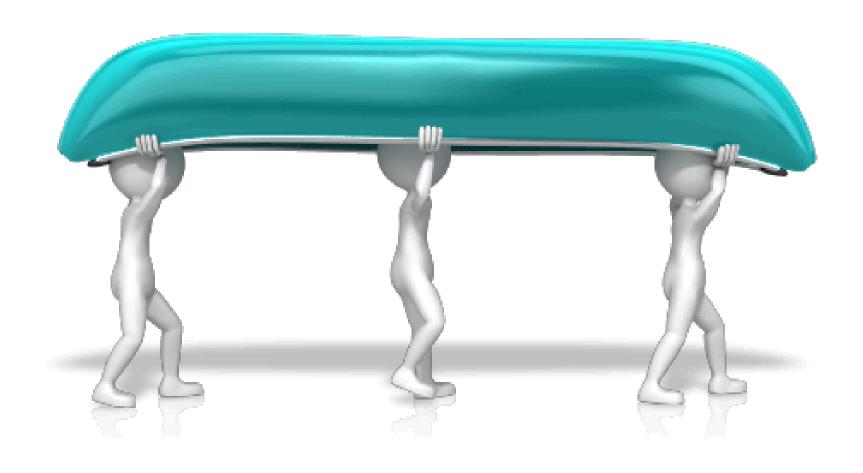


The way forward



We are mid-term. Still lot to deliver











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