# National Medicinal Product Catalogue

## Irish National Drug Extension - Update

**Drug Extension User Support Group**
**April 2024**

# Overview

- ✓ Overview of National Medicinal Product Catalogue

- ✓ Drug Extension Modelling

- ✓ Content Development to Date

- ✓ Tooling

- ✓ Early Learnings

# National Medicinal Product Catalogue

- National medicines information standard for all healthcare settings
  - Common coding and descriptions
  - Common medicinal product information
- National service to support users to enable integrated medicines management.

Improved Patient Safety
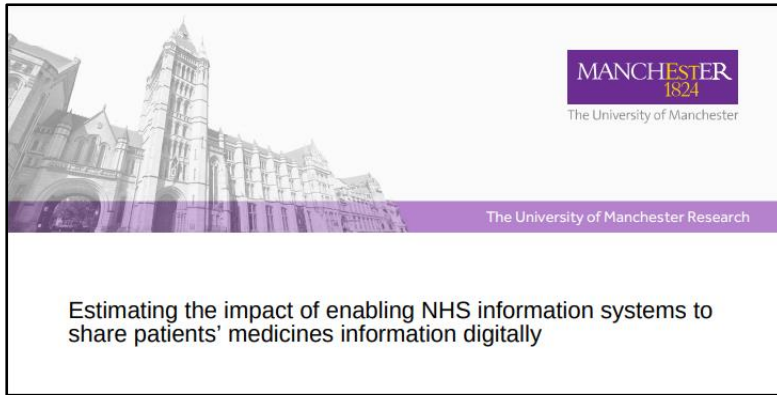
Improved healthcare worker experience

**Target Benefits**

Improved patient / user experience of healthcare

Improved use and re-use of healthcare data

# Standardised Information – National Impact



Estimating the impact of enabling NHS information systems to share patients' medicines information digitally

- Reduction in transition medication errors
- Reduction in patient harm from transition medication errors
- Reduction in excess bed days due to harm, and associated costs
- Reduction in deaths due to harm

|  | Hospital admission | Intra-hospital transfer | Inter-hospital transfer | Hospital discharge |
|---|---|---|---|---|
| Total prevalence of medication errors | 15.30% | 4.50% | 15.30% | 7.20% |
| Medication errors with standard medicines reconciliation | 1.99% | 0.58% | 1.99% | 0.94% |
| Medication errors with interoperability standards | 1.05% | 0.30% | 1.05% | 0.65% |
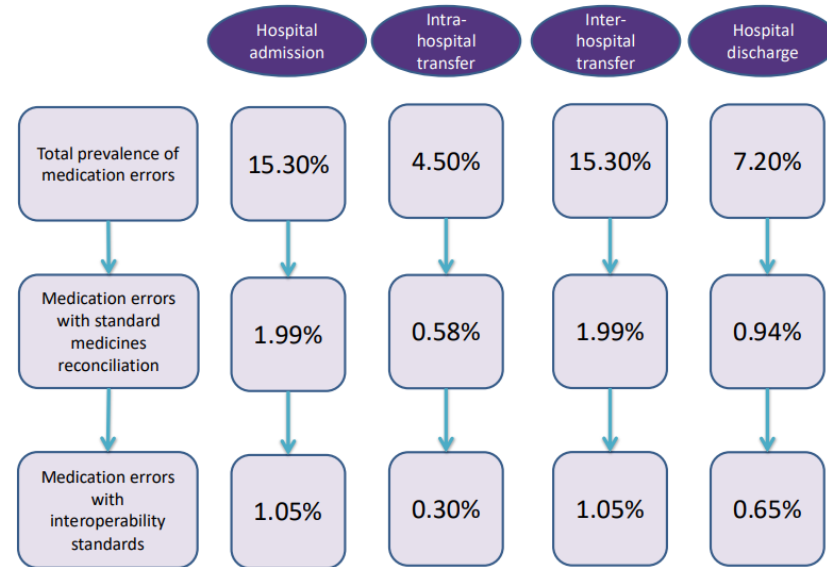
# Standardised Information – Local Impact

326875008 |Methotrexate 10 mg oral tablet|
- Route = 26643006 |Oral route|
- Substance = Methotrexate | 546375
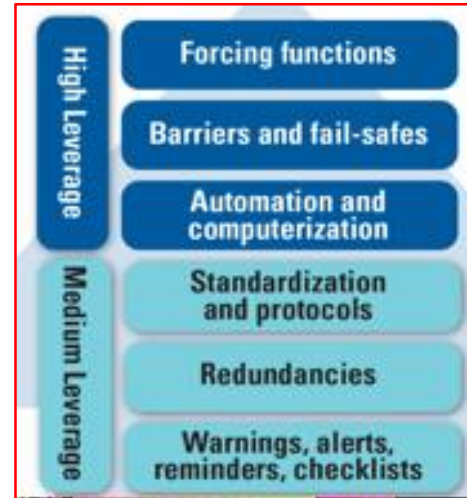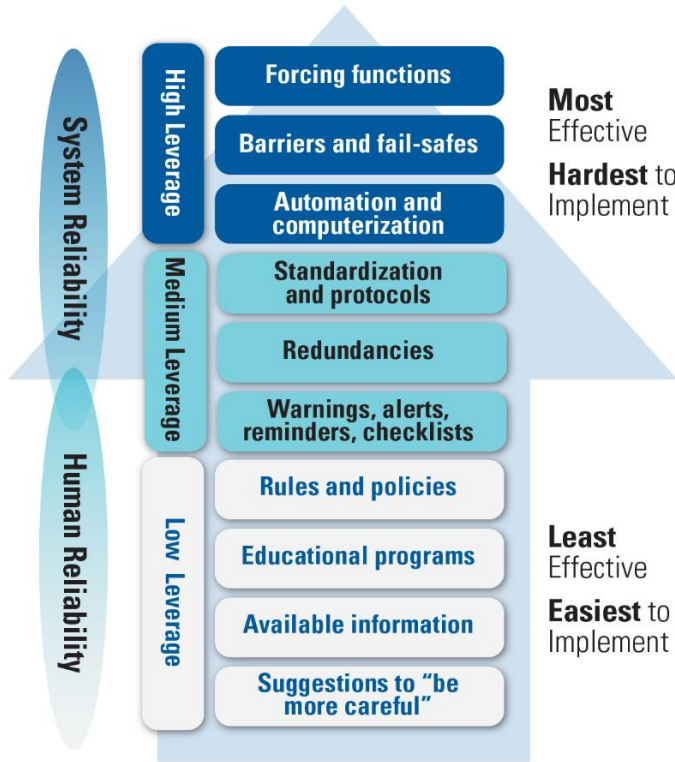
# NMPC & SNOMED-CT

- Establishing SNOMED-CT National Drug Extension is foundational step in development of NMPC.

- Provides anchor for all other information.

- NMPC expects to carry a range of information linked to requirements for functional use-cases. E.g.

  - GS1 GTINs
  - HPRA (Health Products Regulatory Authority)
  - PCRS (Primary Care Reimbursement Service)
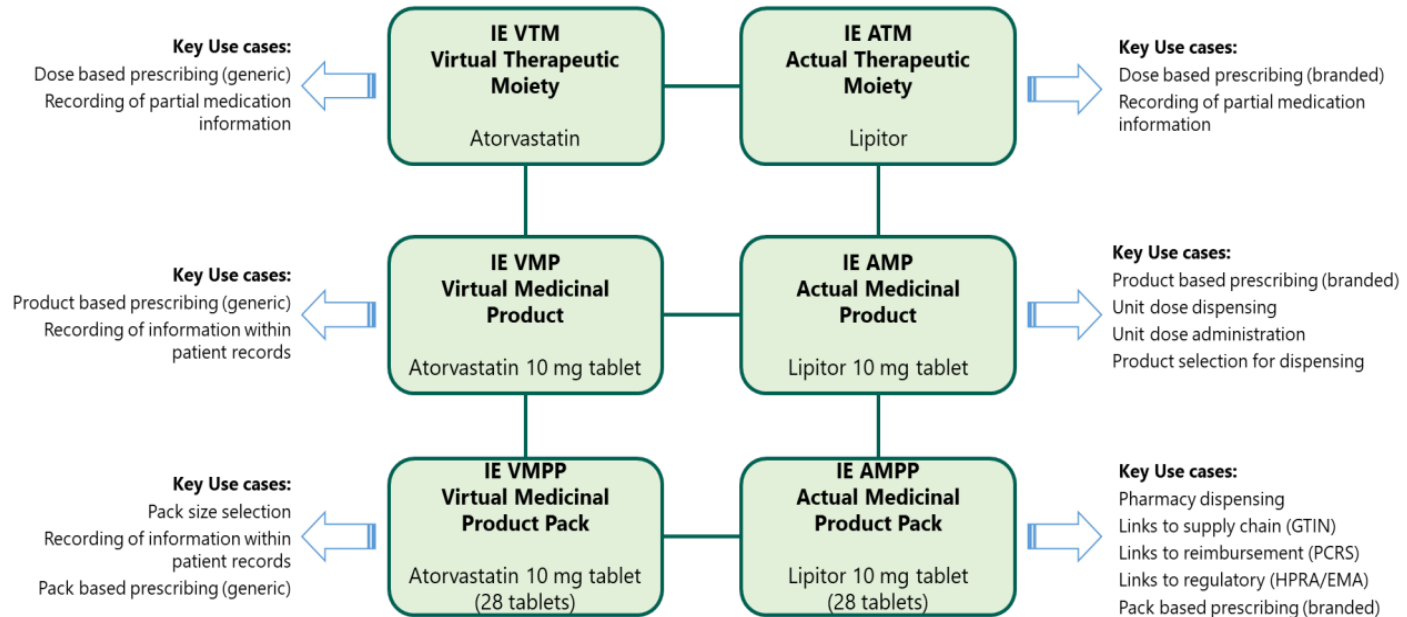  - Classification Coding Systems (e.g. ATC)

# IE Drug Extension Operating Environment

- Ireland operates two modules:
  - IE Extension
  - IE Drug Extension
- Managed Service Member
- Current release schedule is six monthly.
- Drug modelling is based on:
  - International Drug Model
  - National Drug Extension Model
- Developmental releases of Drug Extension ongoing ahead of go-live of overall NMPC.
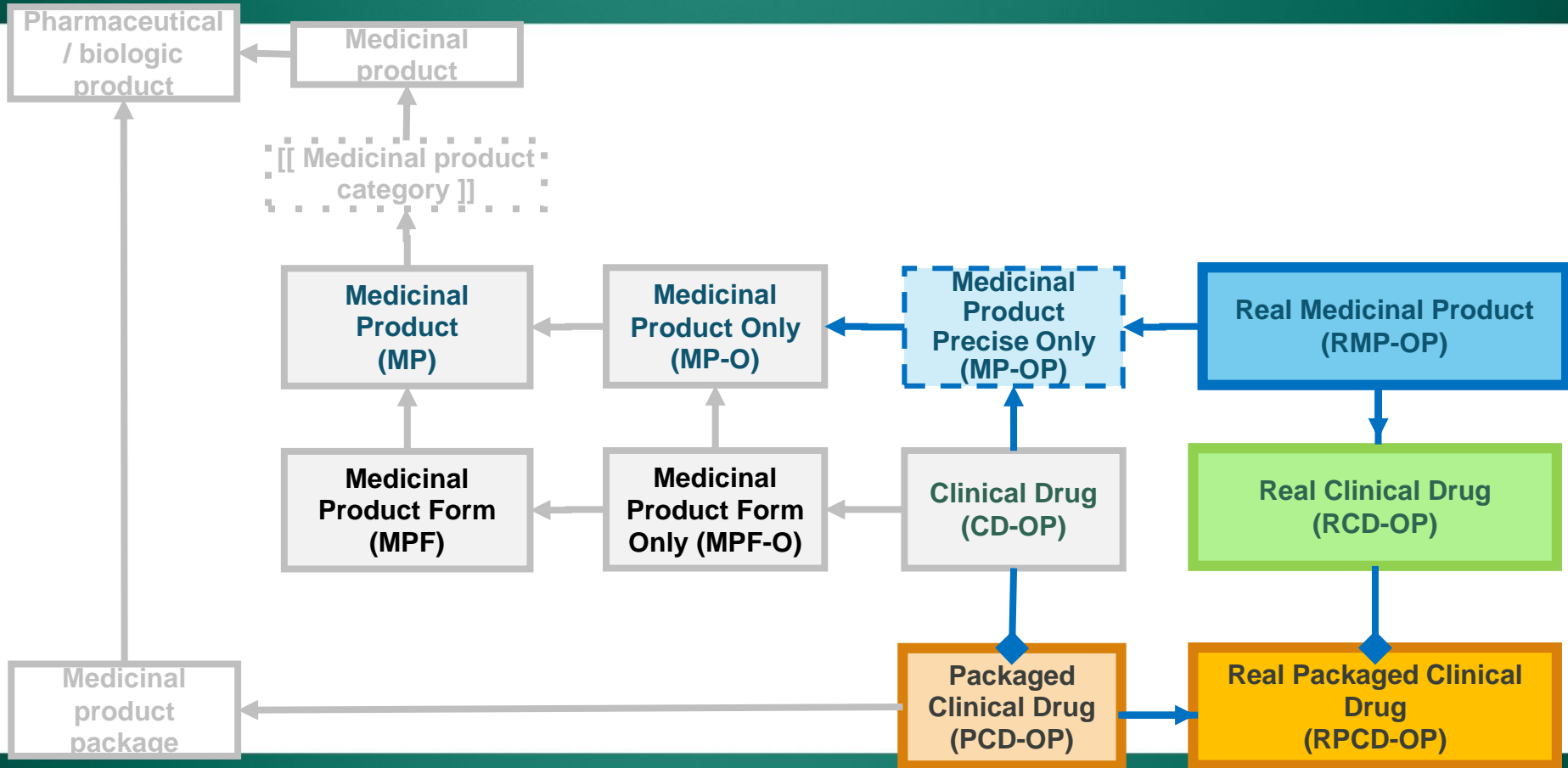
# Modelling



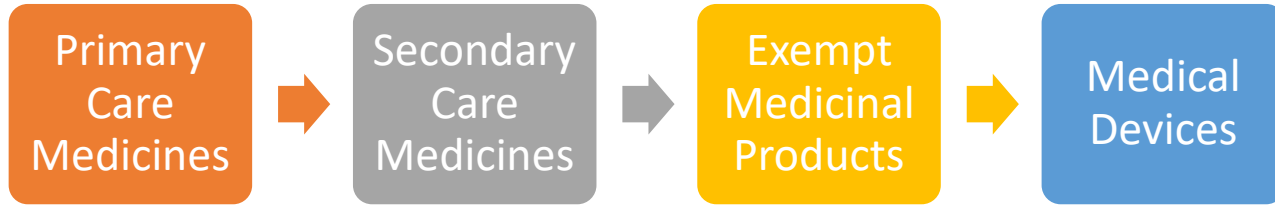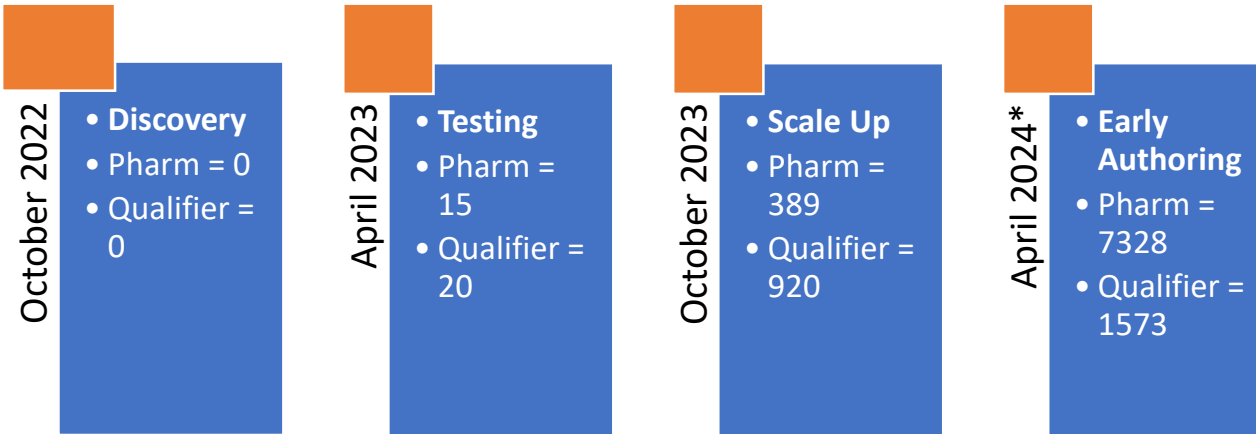**National Medicinal Product Catalogue**
Data Model

Key Use cases:
Dose based prescribing (generic)
Recording of partial medication information

**IE VTM**
**Virtual Therapeutic Moiety**
Atorvastatin

**IE ATM**
**Actual Therapeutic Moiety**
Lipitor

Key Use cases:
Dose based prescribing (branded)
Recording of partial medication information

Key Use cases:
Product based prescribing (generic)
Recording of information within patient records

**IE VMP**
**Virtual Medicinal Product**
Atorvastatin 10 mg tablet

**IE AMP**
**Actual Medicinal Product**
Lipitor 10 mg tablet

Key Use cases:
Product based prescribing (branded)
Unit dose dispensing
Unit dose administration
Product selection for dispensing

Key Use cases:
Pack size selection
Recording of information within patient records
Pack based prescribing (generic)

**IE VMPP**
**Virtual Medicinal Product Pack**
Atorvastatin 10 mg tablet (28 tablets)

**IE AMPP**
**Actual Medicinal Product Pack**
Lipitor 10 mg tablet (28 tablets)

Key Use cases:
Pharmacy dispensing
Links to supply chain (GTIN)
Links to reimbursement (PCRS)
Links to regulatory (HPRA/EMA)
Pack based prescribing (branded)

# SNOMED-CT Drug Model

Primary Care Medicines → Secondary Care Medicines → Exempt Medicinal Products → Medical Devices

# Content Development

Primary Care Medicines

October 2022
- **Discovery**
- Pharm = 0
- Qualifier = 0

April 2023
- **Testing**
- Pharm = 15
- Qualifier = 20

October 2023
- **Scale Up**
- Pharm = 389
- Qualifier = 920

April 2024*
- **Early Authoring**
- Pharm = 7328
- Qualifier = 1573

**SI Authoring Platform**
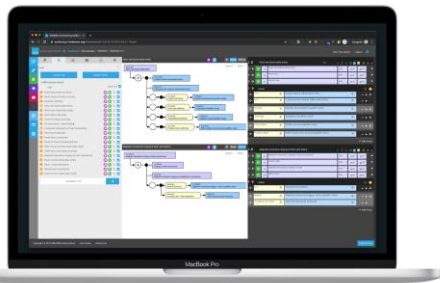
**Local Information Management**

**Mapping**
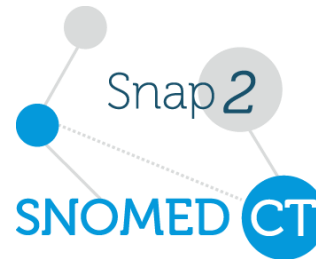
**ECL**

# Early Learnings

- It takes time to refine processes

- Focus on use-cases

- Build a great team

Thank You
Q&A