

## **EU Falsified Medicines Directive (FMD)** and Beyond

Implementation Challenges for a Manufacturer

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### Our Mission Bayer: Science For A Better Life





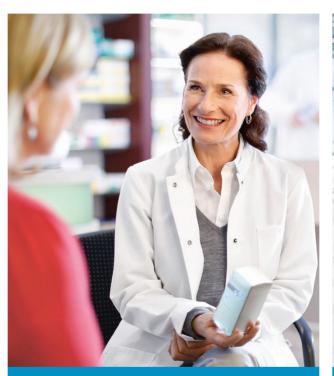
### **Our Business Areas**





### **Pharmaceuticals**

Prescription drugs



### **Consumer Health**

 Over-the-counter medicines, dietary supplements, dermatology products, foot care and sunscreen



### **Crop Science**

- Innovative crop protection and seeds
- Animal Health

### BAYER E R

### EU-FMD @ Bayer: Implementation Challenges

- Ensure technical readiness of 100+ parties
  - ## Bayer-owned manufacturing sites, ## packaging lines
  - ## Contract Manufacturers (CMOs)
  - ## Bayer-operated warehouses
  - ## Distribution Partners (3 PLs)
  - ## Customers where Bayer acts as Contract Manufacturer (CMO)
- Establish serialization data exchange with all CMOs and Customers
- Establish exchange of regulatory and serialization data with European Hub
- Establish new / revise existing business processes for e.g. pack decommissioning, complaint handling, batch recall
- Execute change process incl. regulatory submission for approx. 4.000 products (Stock Keeping Units (SKUs))
- Be ready by February 2019



# EU-FMD Readiness – Collaborative Challenge for Pharmaceutical Supply Chain Partners



- Stakeholders in EU member states to establish Nat'l Governance Organizations
- Nat'l Governance Organizations to select repository system providers
- Stakeholders and Nat'l Authorities to collaborate and determine coding scheme(s)
- Manufacturers to equip packaging lines with serialization and tamper-evidence capabilities
- Wholesalers and 3PLs to adapt IT systems and establish business processes for decommissioning and risk-based verification
- Pharmaceutical
  Manufacturer

  SecurePharmo
  National
  System 1
  National
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  System 1
  System

Reg'l / Nat'l System n Organisation

- IT suppliers to integrate verification in pharmacy Point-of-Sales software
- Retail pharmacists and hospitals to integrate verification in workflows

Joint Goal: Make Medicines Verification Happen in EU by Feb. 2019 to Ensure Patients' Access to Safe Medicines

### SECURPHARM – THE GERMAN SHIELD AGAINST FALSIFIED **MEDICINES**



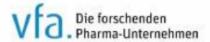














For video please search for 'securPharm version A' on YouTube

## What are the Future Coding Requirements in EU Member States + EEA Countries



### Coding of single-country packs in Europe – Some examples

- EAN-13 coding already established in most EU countries
  - Migration path to GTIN-14 pretty straight forward
- Nordics to allow for continued use of NTINs for existing products; as of 2019, new products need 'real' GTIN
- Belgium to transition from national CNK code to GTIN

### The 'real' challenge: Coding of multi-market packs

- Easy where packs bear only one EAN code already today
- Germany to allow for GTIN + NHRN (5<sup>th</sup> data element)
   e.g. for DE-AT packs
- Open topic for packs shared between Spain and Portugal

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Members of GS1 Healthcare are always up-to-date through access to EU-FMD Coding Tracker

# How Can We Avoid Varying Pack Coding Requirements Around the Globe?



### **De-facto Standard**

- GS1 DataMatrix encoding four data elements (GTIN, S/N, Batch, Expiry date)
- Some countries continue to require inclusion of nat'l number (e.g. Germany, France, Brazil) via NTIN (Nat'l Trade Item Number) or NHRN (Nat'l Health Reimbursement Number) using AI (7xx)

#### **However**

- China has introduced proprietary non-GS1 coding
- Countries consider/request to add information to code (e.g. pack size, tax code, manufacturer name, ...)
- Challenge for manufacturers who need to upgrade and re-qualify equipment; space restrictions on packs do not allow for extensive extension of encoded information

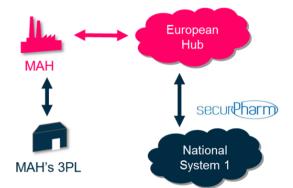
Consider to join GS1 Healthcare to benefit from advocacy of GS1 Healthcare and GS1 member organizations for de-facto standard

# How Should MAH's Distributors (3PLs) Connect to Verification Landscape?



### **Problem Statement**

 3<sup>rd</sup> Party Logistics Providers (3PLs) need to perform verification and decommissioning activities on behalf of Marketing Authorization Holders (MAHs)



### Question

How should 3PLs connect to nat'l verification system (NMVS)?

Remote Access via MAH system and European Hub	<ul> <li>3PL transactions recorded under MAHs identity</li> <li>3 PL to build interface for each MAH he is working with</li> </ul>
Direct Access to NMVS via 3PL wholesaler account	<ul> <li>Less systems involved i.e. quicker response times</li> <li>3 PL only needs one access channel to nat'l system</li> </ul>



#### **Answer**

Direct access is preferred model envisaged by EMVO URS

GS1 Healthcare Public Policy workgroup provides access to network of company experts for experience exchange

# How are Master Data Reqs. set forth in Delegated Regulation to be Understood?



### **Problem Statement**

- EU Delegated Regulation 2016/161sets forth requirements on master data reporting e.g.
  - Product Name, Common Name, Strength, Pharmaceutical Form, Pack Type
  - Article 57 code / PCID
  - List of 'Designated Wholesalers'

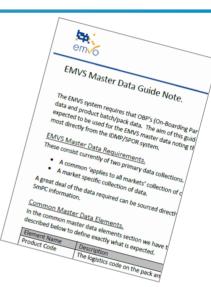
### Question

What does this all mean, and from which source can MAH retrieve this data?

### **Answer**

- Most of required data can be found in regulatory submission / xEVMPD / IDMP
- Guidance will be provided in Master Data Guidance by EMVO (European Medicines Verification Organization); publication expected in June 2017

GS1 Healthcare Public Policy network of experts provides access to recent information regarding EU-FMD implementation



## Can Linear Barcode be Dropped upon Introduction of 2D DataMatrix Code?



### **Problem Statement**

- GS1 DataMatrix code and accompanying information requires additional space for printing on outer packaging
- Space is restricted in particular on small packages

### Question

 Can linear barcode be dropped upon introduction of 2DMC to free up space on outer packaging?

#### **Answer**

- Clear tendency by industry to keep existing linear barcode for interim period until Feb. 2019 (and drop it afterwards as part of any forthcoming change
- Rationale: Stakeholders are only obliged as of Feb. 2019 to be capable to read
   2 DMC; dropping linear barcode will pose problems to non-equipped parties

GS1 Healthcare Public Policy workgroup provides access to network of company experts for experience exchange

# Long Way Already Passed – Challenging One Still Ahead





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- IT suppliers to integrate verification in pharmacy Point-of-Sales software
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   It's Definitely Worth to Consider a GS1 Healthcare Membership –
   Feb. 2019 is Nearby But it's Never too Late !!!

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