



Global Harmonization Working Party
GHWP Towards Medical Device Harmonization

The Role of UDI in Product Life Cycle Management

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Wang



Content

1

Company Overview

2

Application of UDI in Product Life Cycle

3

UDI Feature in China

4

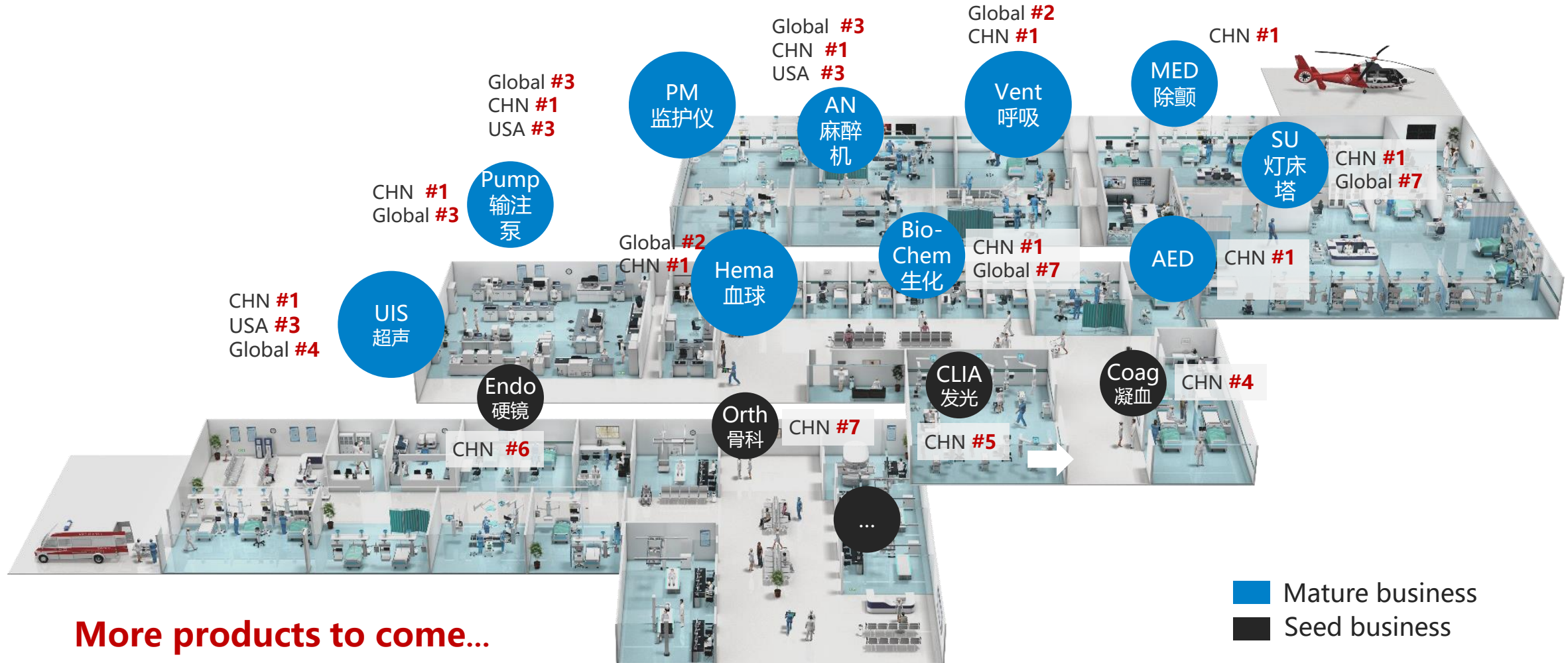
Global UDI Regulation Summary

5

Outlook for Future

Mindray at a Glance

Wide-ranging, Competent Products and Solutions



More products to come...

UDI for Diverse Product in Mindray

Single Device



Configurable Device



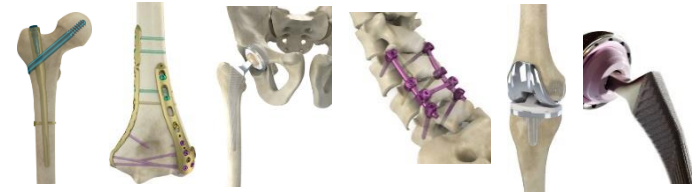
Software Device



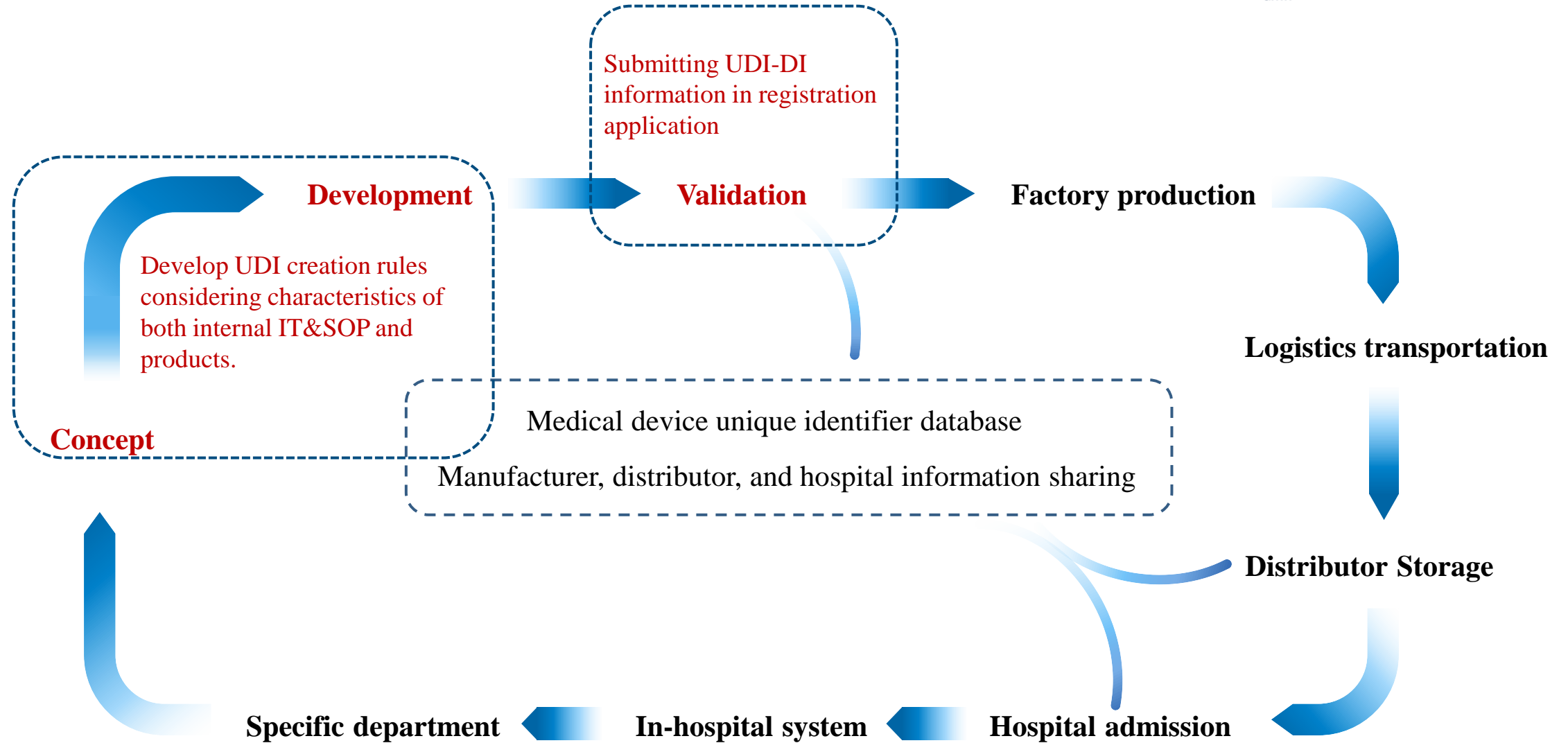
IVD Kits



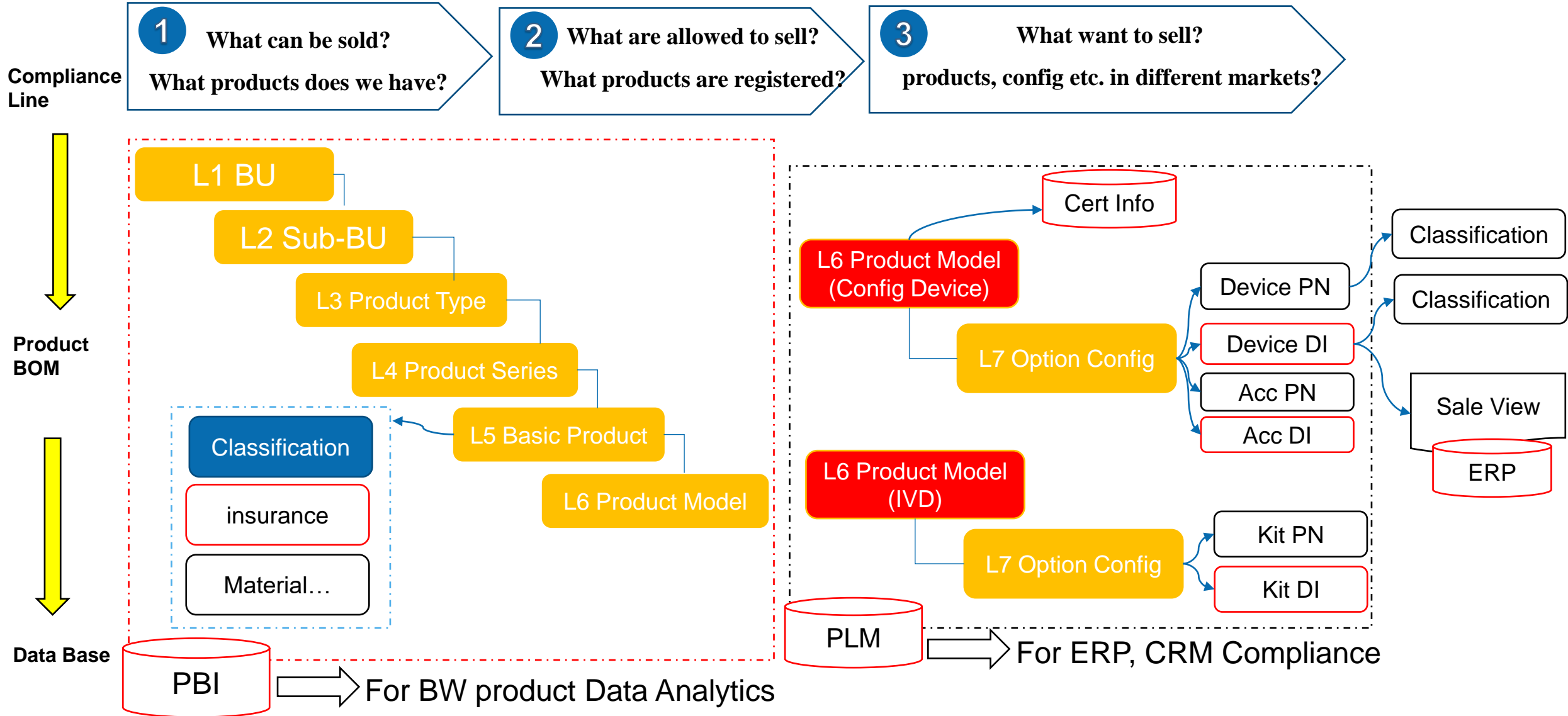
Implantable Device



Application of UDI in Product Life Cycle



Product Basic Information for UDI



Design, Verification and Validation of UDI

Design Input

Create DI

Design Transfer

Fill in the UDI data

Design Output

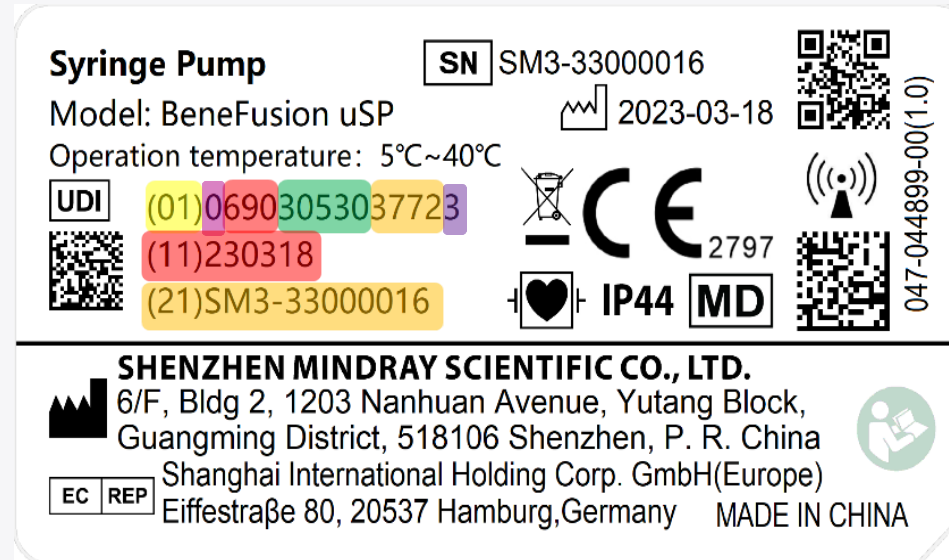
Material R&D Data Management
Label manual template

Design Validation

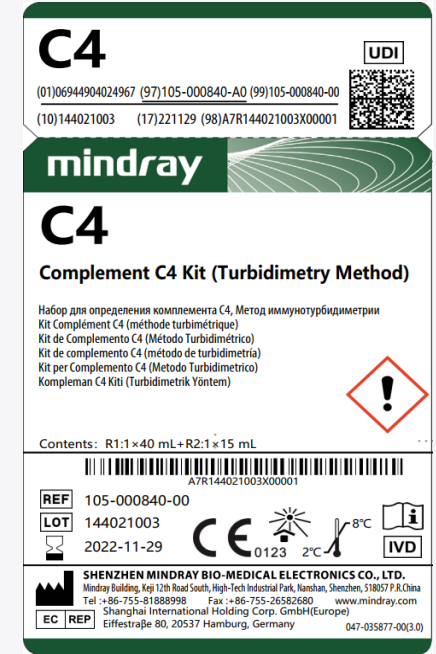
Evidence of UDI Compliance

Change Control

ECR



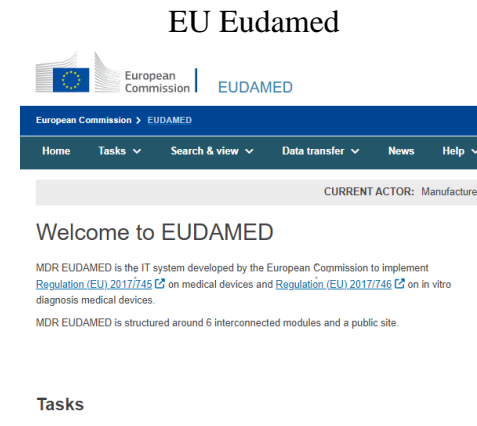
Syringe Pump SN SM3-33000016
 Model: BeneFusion uSP 2023-03-18
 Operation temperature: 5°C~40°C
 UDI (01)06903053037723 (11)230318 (21)SM3-33000016
 CE 2797 IP44 MD
 SHENZHEN MINDRAY SCIENTIFIC CO., LTD.
 6/F, Bldg 2, 1203 Nanhuan Avenue, Yutang Block, Guangming District, 518106 Shenzhen, P. R. China
 Shanghai International Holding Corp. GmbH(Europe)
 Eiffestraße 80, 20537 Hamburg, Germany MADE IN CHINA



C4 UDI
 (01)06944904024967 (97)105-000840-A0 (99)105-000840-00
 (10)144021003 (17)221129 (98)A7R144021003X00001
mindray
C4
Complement C4 Kit (Turbidimetry Method)
 Набор для определения компонента C4. Метод иммунотурбидиметрии
 Kit Complément C4 (méthode turbidimétrique)
 Kit de Complemento C4 (Método Turbidimétrico)
 Kit de complemento C4 (método de turbidimétrico)
 Kit per Complemento C4 (Metodo Turbidimetrico)
 Kompleman C4 Kiti (Turbidimetrik Yöntem)
 Contents: R1:1×40 mL+R2:1×15 mL
 REF 105-000840-00
 LOT 144021003
 2022-11-29 CE 0123 2°C IVD
 SHENZHEN MINDRAY BIO-MEDICAL ELECTRONICS CO., LTD.
 Mindray Building, Keji 12th Road South, High-Tech Industrial Park, Nanshan, Shenzhen, 518057 P.R.China
 Tel: +86-755-81888998 Fax: +86-755-26582680 www.mindray.com
 Shanghai International Holding Corp. GmbH(Europe)
 Eiffestraße 80, 20537 Hamburg, Germany 047-035877-00(3.0)



FDA GUID
 Global Unique Device Identification Database
GUID Login
 Username:
 Password:
 I agree to System User Agreement

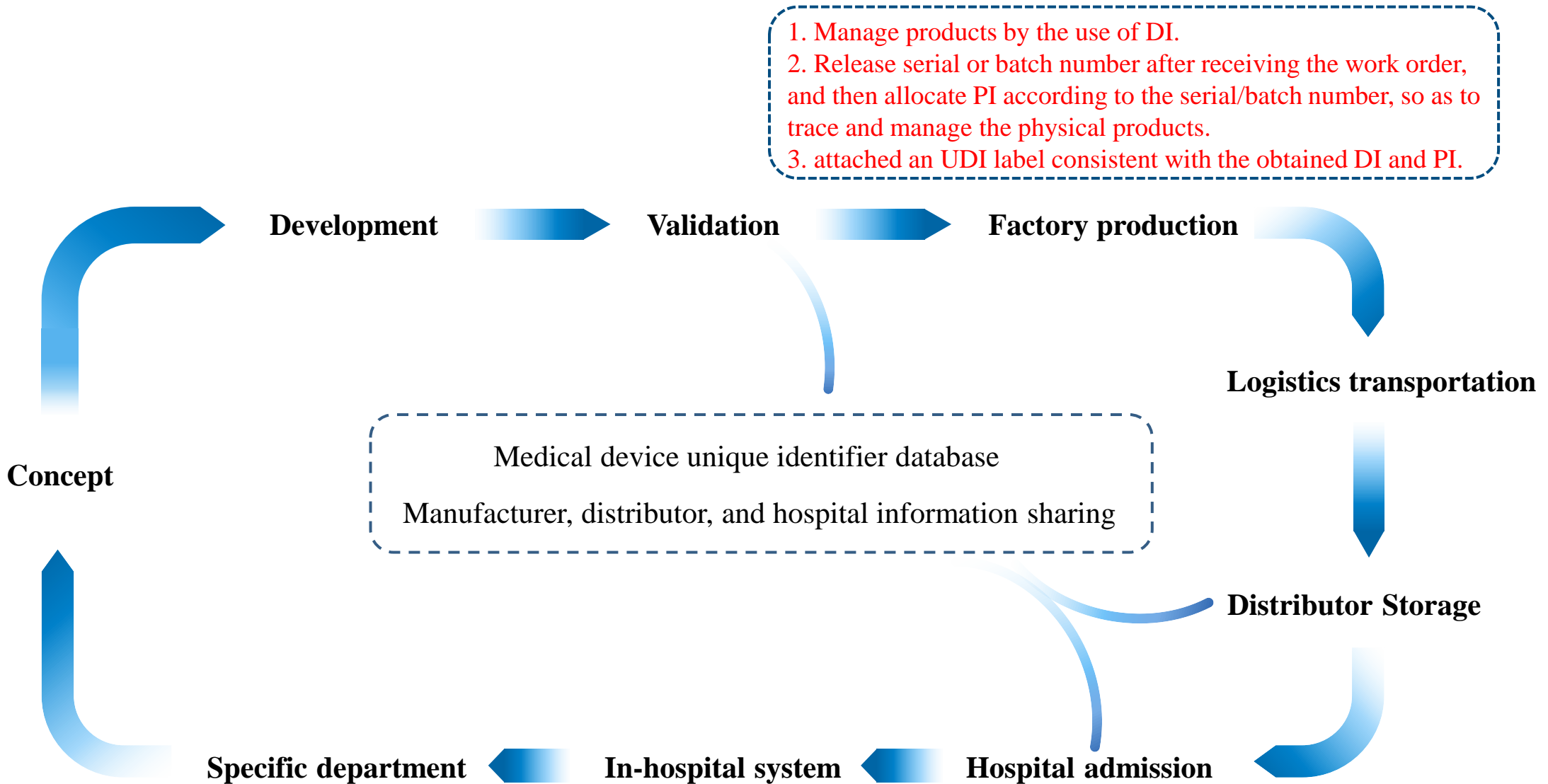


EU Eudamed
 European Commission | EUDAMED
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 WELCOME TO EUDAMED
 MDR EUDAMED is the IT system developed by the European Commission to implement Regulation (EU) 2017/745 on medical devices and Regulation (EU) 2017/746 on in vitro diagnostic medical devices.
 MDR EUDAMED is structured around 6 interconnected modules and a public site.
 Tasks



NMPA UDI Database
 医疗器械唯一标识管理信息系统
 ■ 基本信息维护
 ■ 标识申报管理
 ■ 信息发布管理
 ■ 系统管理
 快速方式
 产品标识新增 产品标识维护 标识变更历史
 注册/备案新增 注册/备案维护 注册/备案变更
 近一周数据申报走势

Supply Chain with UDI



Automatic Printing for Compliance

Production auxiliary system
(Receive Work Order)



Release Code

Release SN/Batch No. pursuant to work order, and then allocate PI



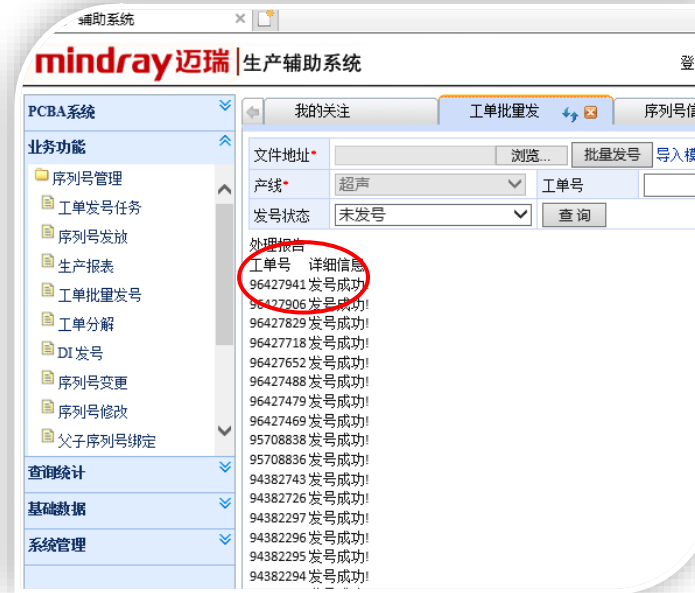
Label printing

Template selection and printing

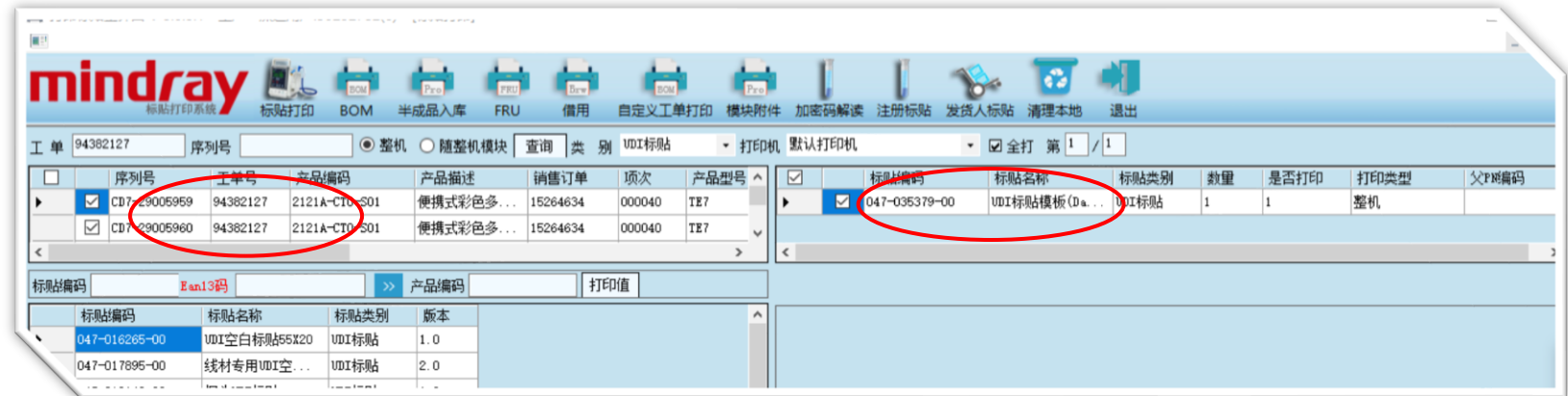


Warehousing

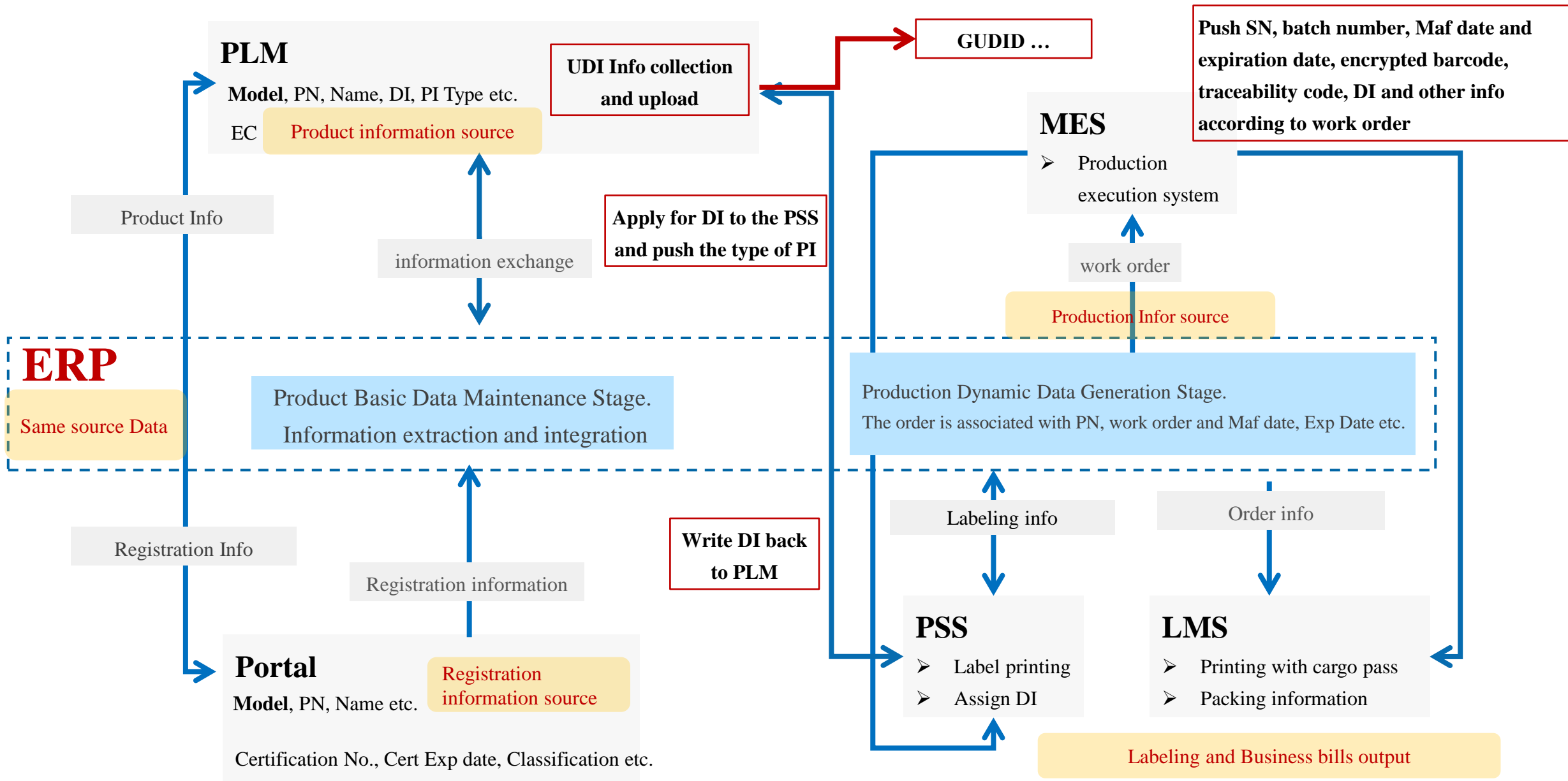
Scanning and warehousing



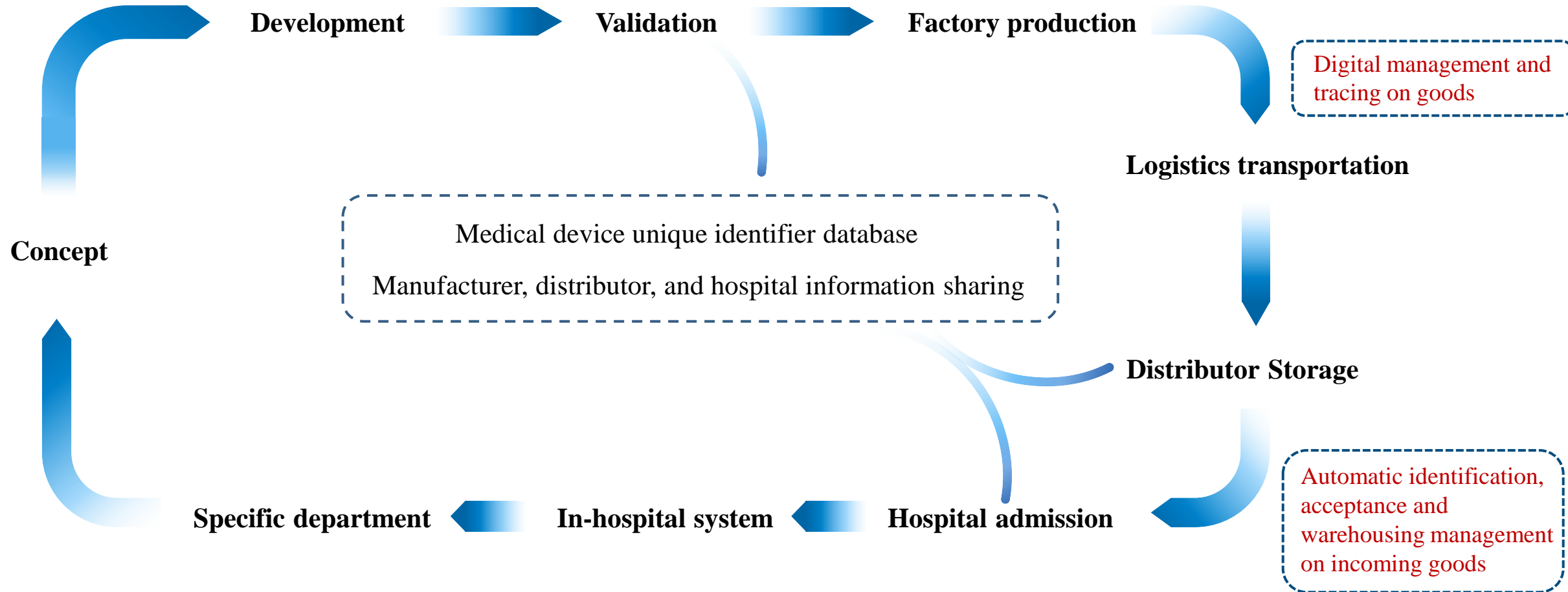
The automatic printing system assure labels, certificates of conformity, and GSP accompanying bills for compliance.



Single Data Entry, Multiple Uses



Smart Distribution



Smart Distribution

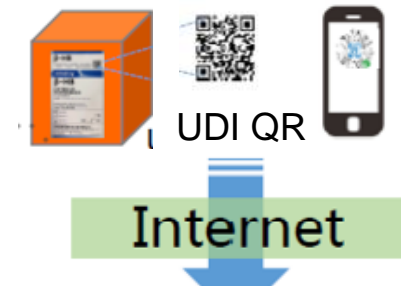
Mindray Production

- UDI QR code is pasted on the package
- ✓ Product identification code
- ✓ Batch No.
- ✓ Production date and expiration date
- ✓ **PN code**
- ✓ **DI**
- ✓ Traceable bar code
- Write the traceable bar code into the RFID label



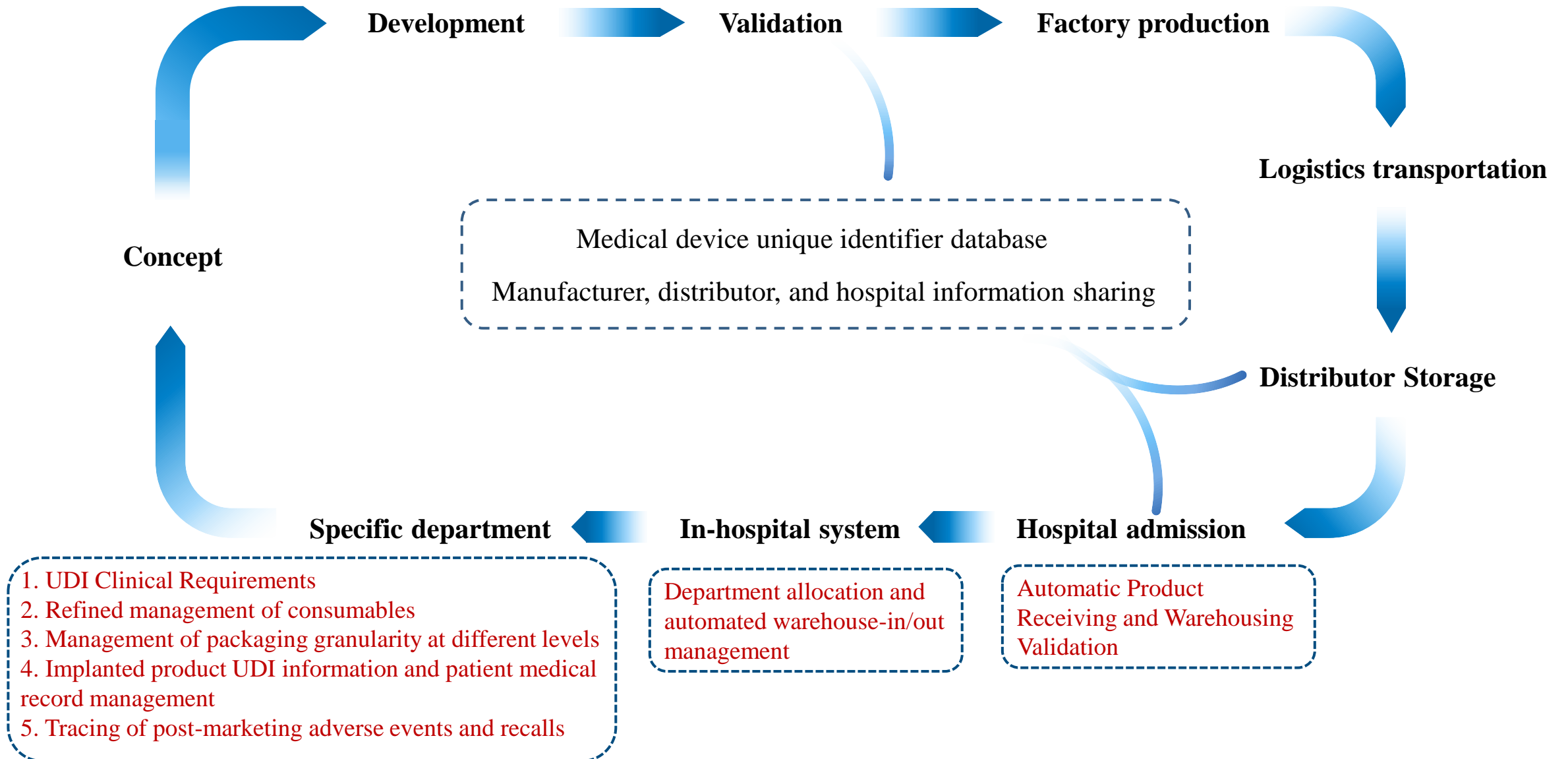
Mindray Delivery

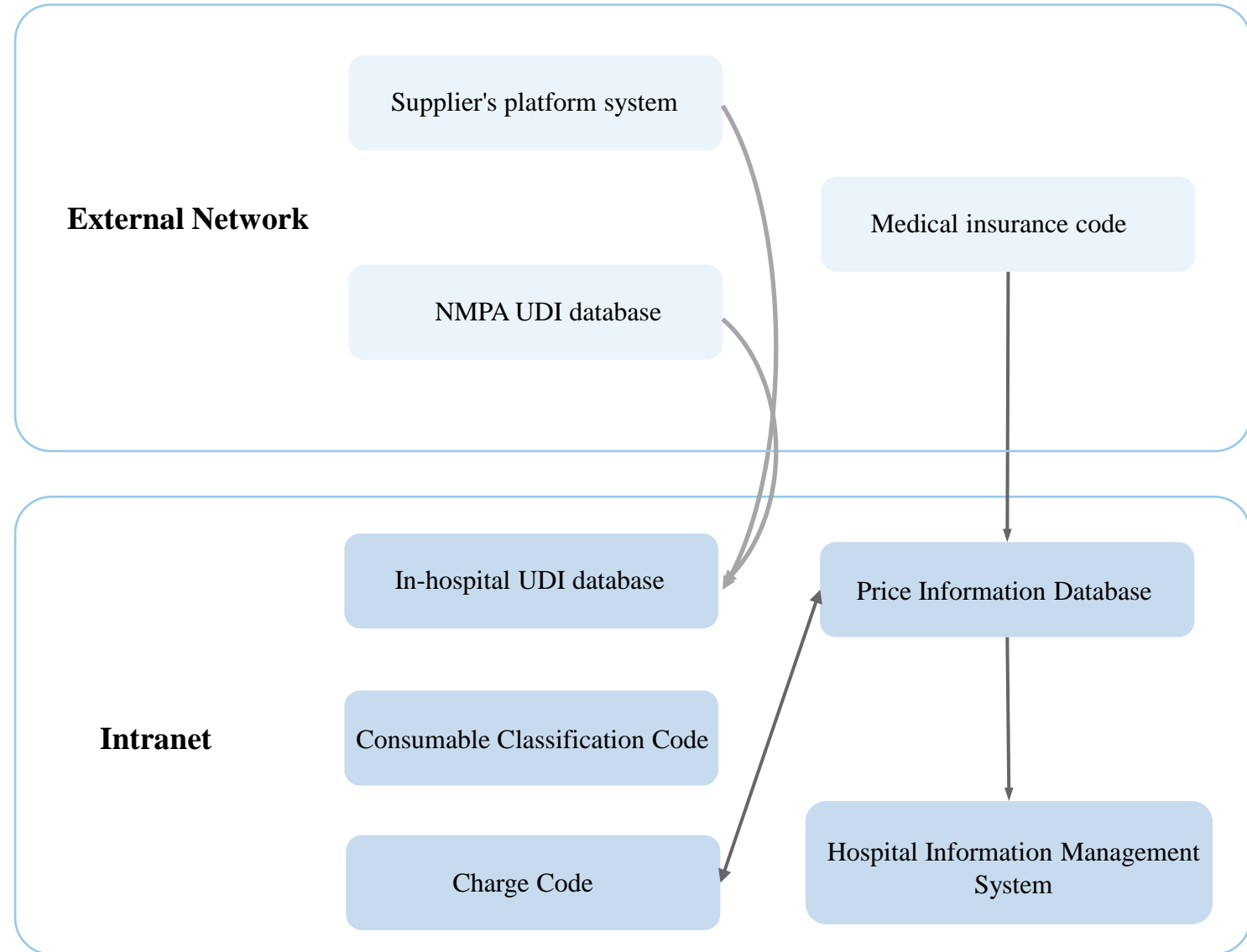
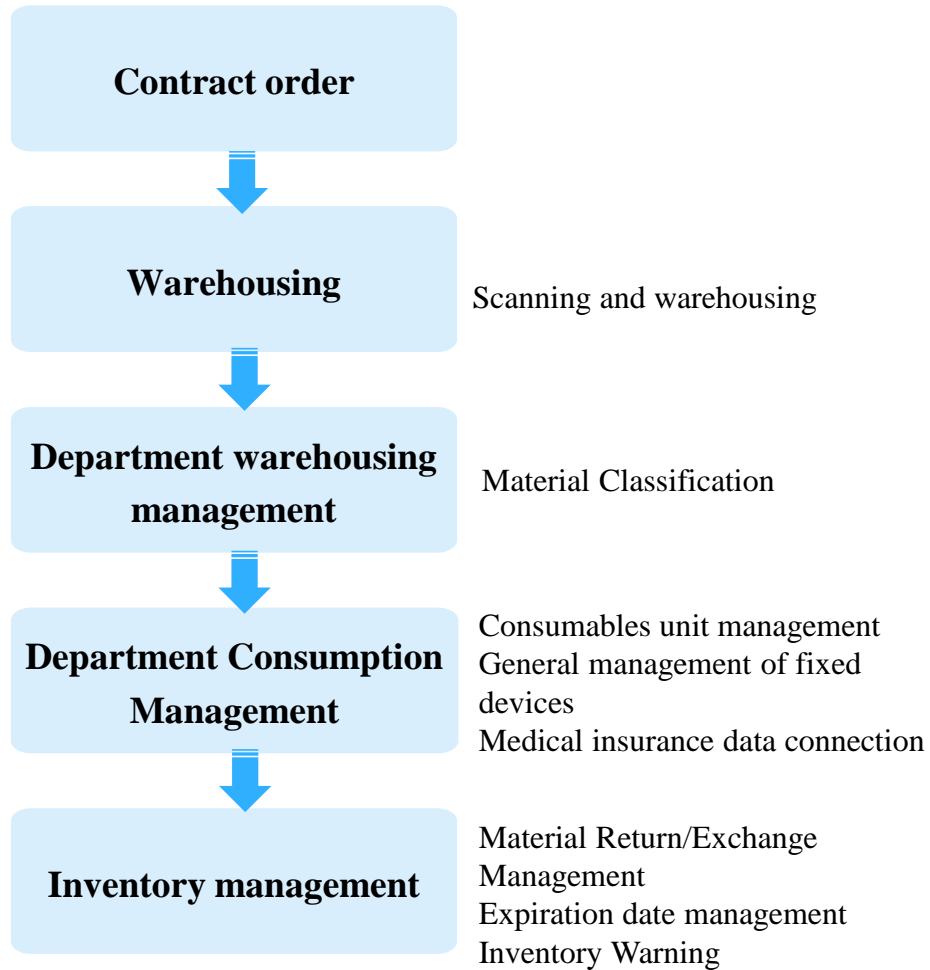
- Mindray ERP System Delivery
- The Mindray DMS system synchronously generates the documents to be warehoused.



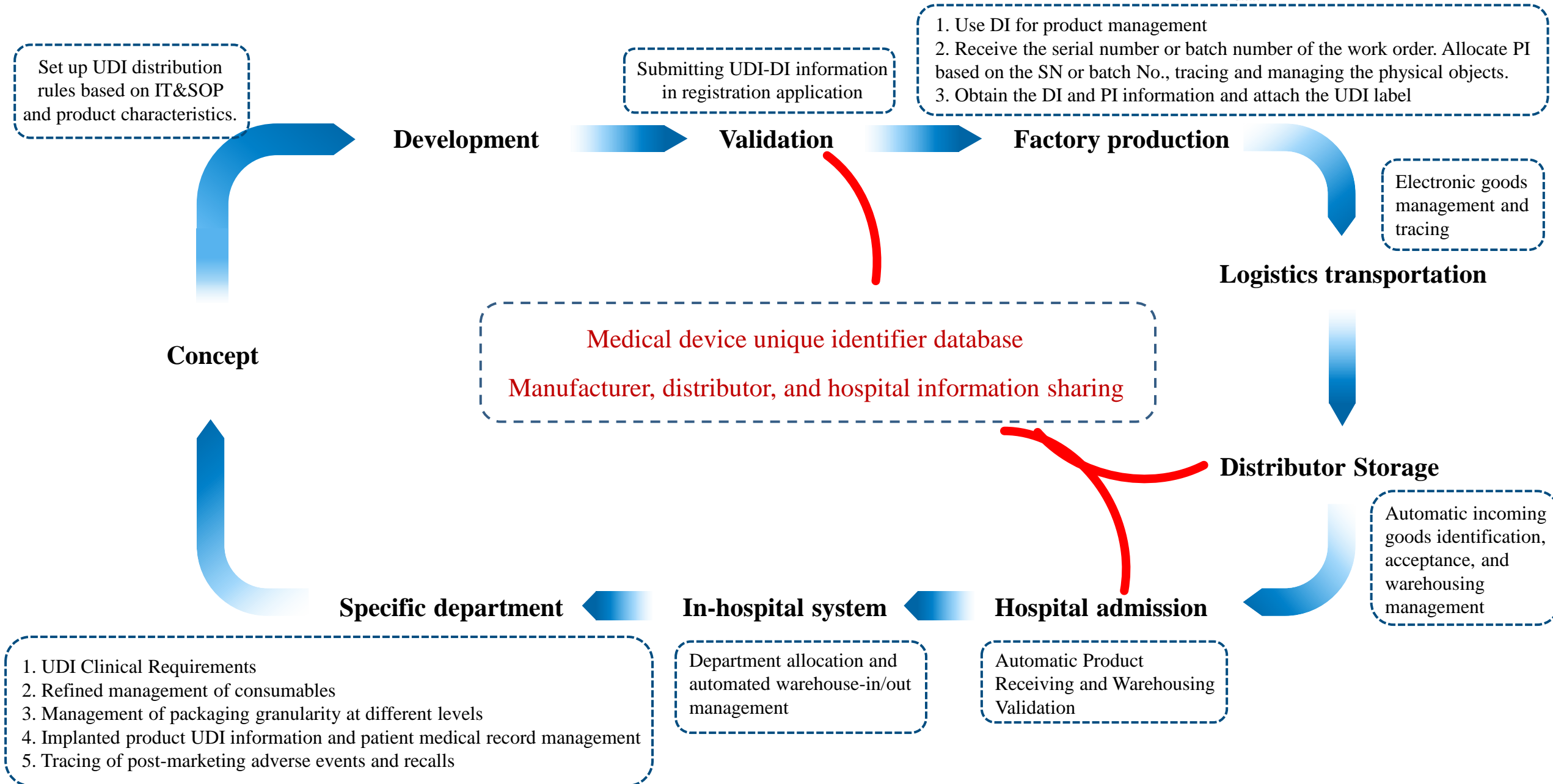
Distributor	DN	PN	Description	Track No.	Maf Date	Exp Date	Delivery Date
AA	81220988	105-000476-00	UA test kit	B9Q14129006X	2019-10-19	2020-10-18	2020-2-20

Relying on the cloud, we has established a collaborative platform for manufacturers, distributors and end customers, and thus leading to the development of a win-win ecosystem.



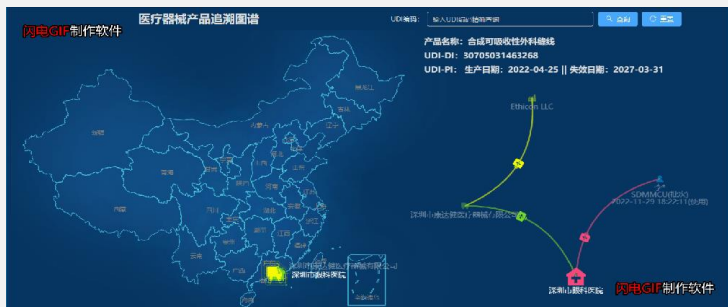


How to Share Big Data?



UDI Feature in China: Two-code Mapping

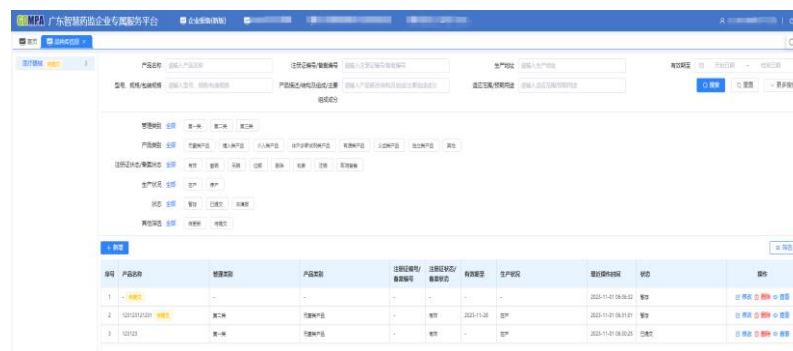
Shenzhen



Data matching and linking between medical institutes and manufacturers or distributors has been realized by using UDI to connect information along the product supply chain. The traceability of medical devices manufactured or marked in Shenzhen, from manufacturers to distributors and lastly to patients, has been dynamically presented. The flow of UDI throughout product life cycle is displayed clearly and intuitively

Guangdong Province

Fundamental databases including enterprises, product categories and personnel has been established by integrating and sorting data from Guangdong Province Medical Products Administration, leading to efficient circulation and use of data.



序号	产品名称	规格型号	产品类别	注册证号/备案证号	注册证/备案证有效期	有效期	生产单位	注册时间	状态
1	缝合线	3/0	缝合线	-	-	-	2023-11-01	2023-11-01	有效
2	缝合线	4/0	缝合线	-	-	-	2023-11-01	2023-11-01	有效
3	缝合线	5/0	缝合线	-	-	-	2023-11-01	2023-11-01	有效

NMPA

Generally planned and established by NMPA, the database serves to provide data basis for medical device industry and relevant sectors based on the principle of openness and sharing.



医疗器械代码	一级分类 (学科、器具)	二级分类 (用途、部位)	三级分类 (材料、形状、品牌)	数据库代码	规格	规格 (长度、宽度)	材料名称	备注
C03012804000002084	缝合线	缝合线	缝合线	缝合线	缝合线	缝合线	缝合线	缝合线
C03012804000002084	缝合线	缝合线	缝合线	缝合线	缝合线	缝合线	缝合线	缝合线
C03012804000002084	缝合线	缝合线	缝合线	缝合线	缝合线	缝合线	缝合线	缝合线
C03012804000002084	缝合线	缝合线	缝合线	缝合线	缝合线	缝合线	缝合线	缝合线
C03012804000002084	缝合线	缝合线	缝合线	缝合线	缝合线	缝合线	缝合线	缝合线

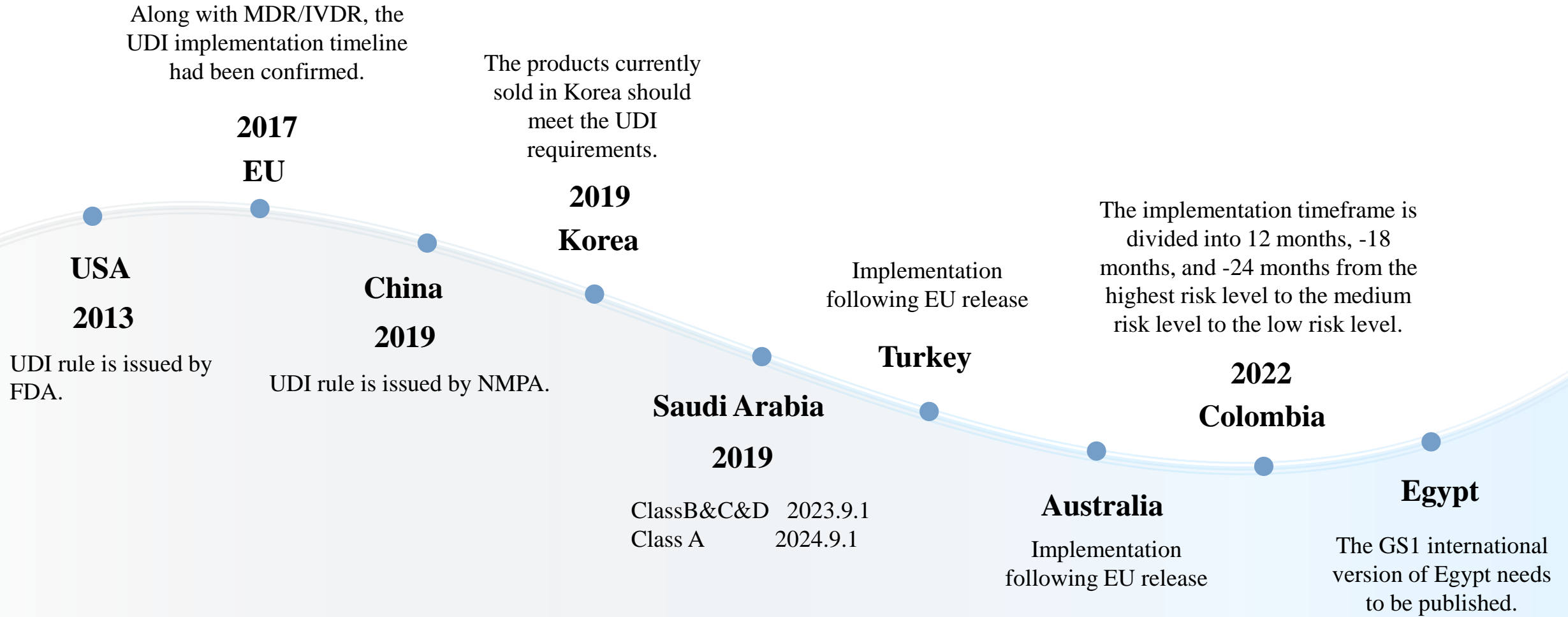
Connect UDI and Medical insurance code (classification code) By NMPA UDI Database and National Medical Insurance system



UDI code	UDI code	UDI code	UDI code	UDI code	UDI code	UDI code	UDI code	UDI code
000013	000013	000013	000013	000013	000013	000013	000013	000013
C0350010081010010080510	C0350010081010010080510	C0350010081010010080510	C0350010081010010080510	C0350010081010010080510	C0350010081010010080510	C0350010081010010080510	C0350010081010010080510	C0350010081010010080510

UDI code

Global UDI Coordination



★Global shared UDI database

Coordinate and optimize different UDI data requirements and databases around the world to achieve compatibility of UDI data structures across countries/areas.

★UDI Identification and Carrier Requirements in Clinical Practices

For special products, like high-risk products, implanted products and software products, studies based in clinical cases shall be conducted to investigate the requirements of UDI labelling and carriers in different clinical scenarios.

Thanks !