

## GS1 Turkey Yeliz Geriş

**İTS -Turkish Pharmaceutical Track and Trace System** 





### **iTS-Pharmaceutical Track & Trace System**

- What is **İ**TS?
- Project Phases –Implementation Timeline
- Objectives
- Scope
- Labeling
- Workflow
- Working Principles
- Benefits
- Statistics
- In the Future







**İTS** is the application of the well-known Track & Trace System into the pharmaceutical industry; it defines the infrastructure constructed to track and trace all units belonging to each pharmaceutical product in Turkey.

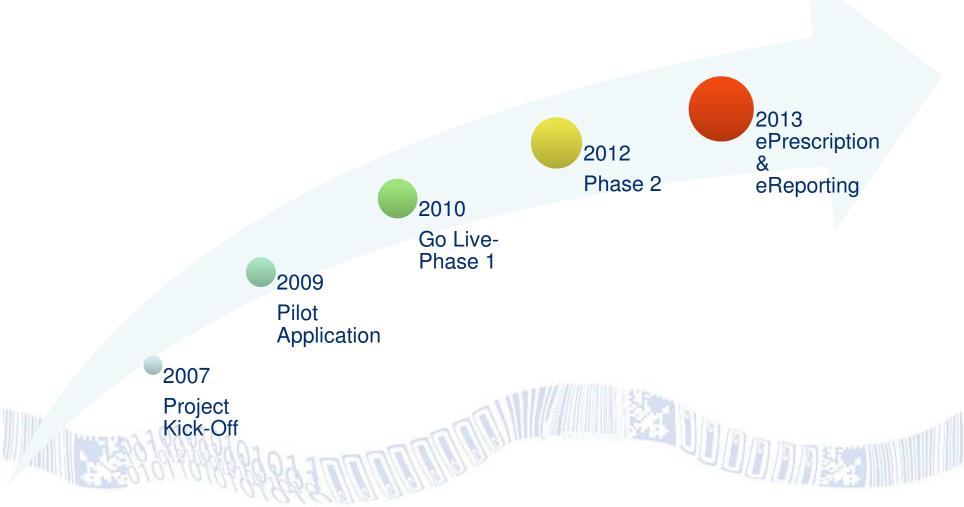
#### **Owner: Turkish Ministry of Health**

#### Main features:

- Unique identification of products and locations
- Use of DataMatrix

Every single step and action of the unit in the supply chain is saved
& stored in a live data source –linear transactions





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# Patient Safety- ensuring reliable supply of drugs to patients

Prevent counterfeiting/ fraud/smuggling and illegal sale of drugs

Efficient product recalls

Prevent barcode and package scams

Prevent double payments by reimbursment agency & Tax frauds Support rational drug use – Supply data to control market



**İTS** has been designed in order to track drugs at each point of the supply chain

#### Stakeholders:

- Hospitals
- Health Centers
- Family Physician Centers
- Pharmacies and Pharmacy Warehouses
- Manufacturers
- Importers
- Reimbursement Institutions



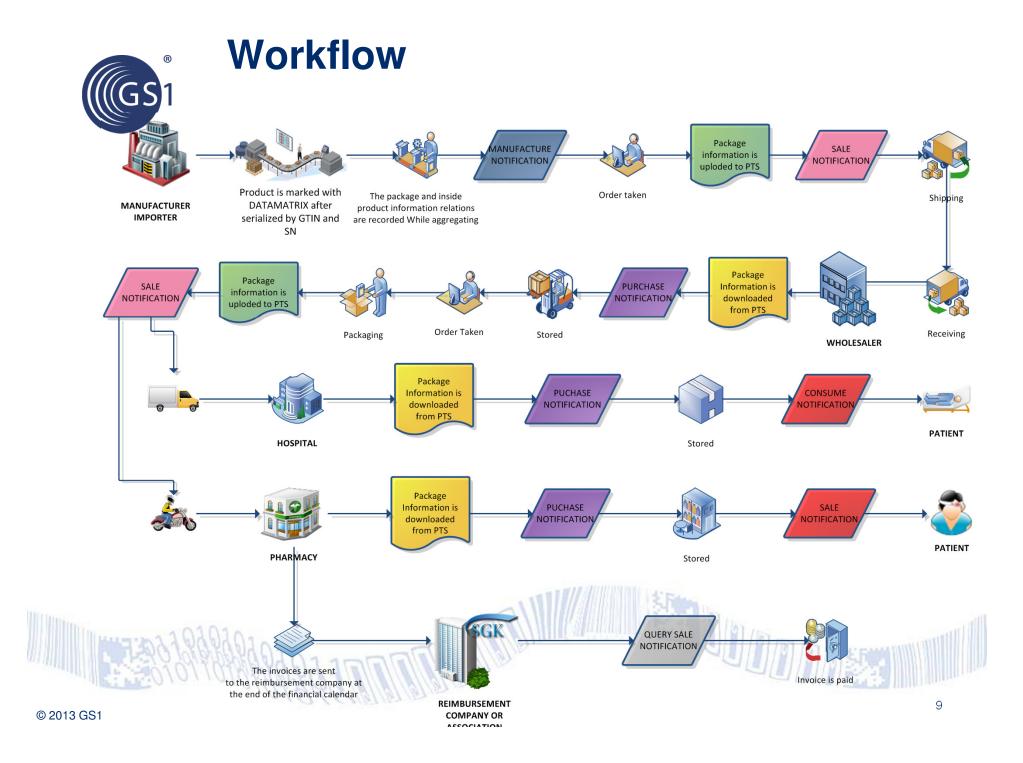
# Products within the scope of the Pharmaceutical Track & Trace System:

- Drugs
- Medical Nutrition Products











- Production of units (single box)
- Product is marked with Datamatrix after serialization-by GTIN&Serial Number
- Aggregation(The package and inside product info relations are recorded)
- Production Notification to ITS
- Package information uploaded to PTS according to order/ cargo on its way
- Cargo taken by Wholesaler, Hospital or Pharmacy
- Sale or consumption notification uploaded by Hospital and Pharmacy



The system has been designed according to the product transactions in real environments using linear processes.

#### **Transaction – Notification messages**

- Production Notification
- Consumption Notification
- Product Purchase Notification
- Product Return Notification
- Sale Notification
- Sale Cancellation Notification
- Product Transfer Notification
- Product Transfer Cancellation
- Export Notification
- Export Cancellation Notification
- Deactivation Notification





- is 100% safe in fighting against corruption
- tracks the drugs until they get to the patient
- prevents the sale of counterfeit drugs
- prevents the sale of smuggled drugs
- offers exact solutions for barcode scams
- prevents the repackaging of drugs in unknown places
- provides safe and original drugs for patients
- supports the process of rational drug use
- prevents the resale of the drugs, which have already been sold to the reimbursement institutions

helps to solve the problems between the pharmacies and the reimbursement institutions



Immediate and absolute actions can be taken on recalls after side effects are found

- Market control can be done more effectively and more accurately
- Data mining & reporting
- Prevents tax frauds





Number of stakeholders: 40 000 > Number of drug types in ITS: 18 900 > Number of drug units in ITS: 7 000 000 000 Number of daily operations in ITS: 45 000 000 Number of operations per second in ITS: 520 Response time of system: < 1 sec



In the future, successful implementation of the ITS &

lessons learned during the implementation phases can

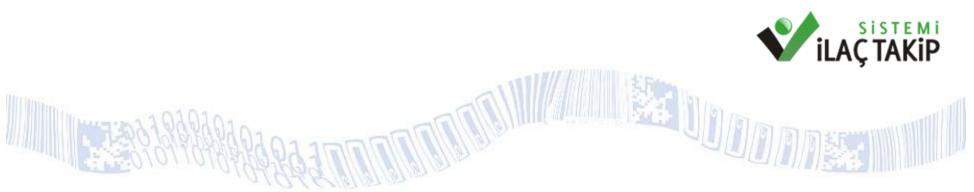
be used to develop traceability solutions for:

Cosmetics

Medical Devices (spectacles/eyeglasses –pilot)



#### • Visit <u>www.its.gov.tr</u> for more information



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