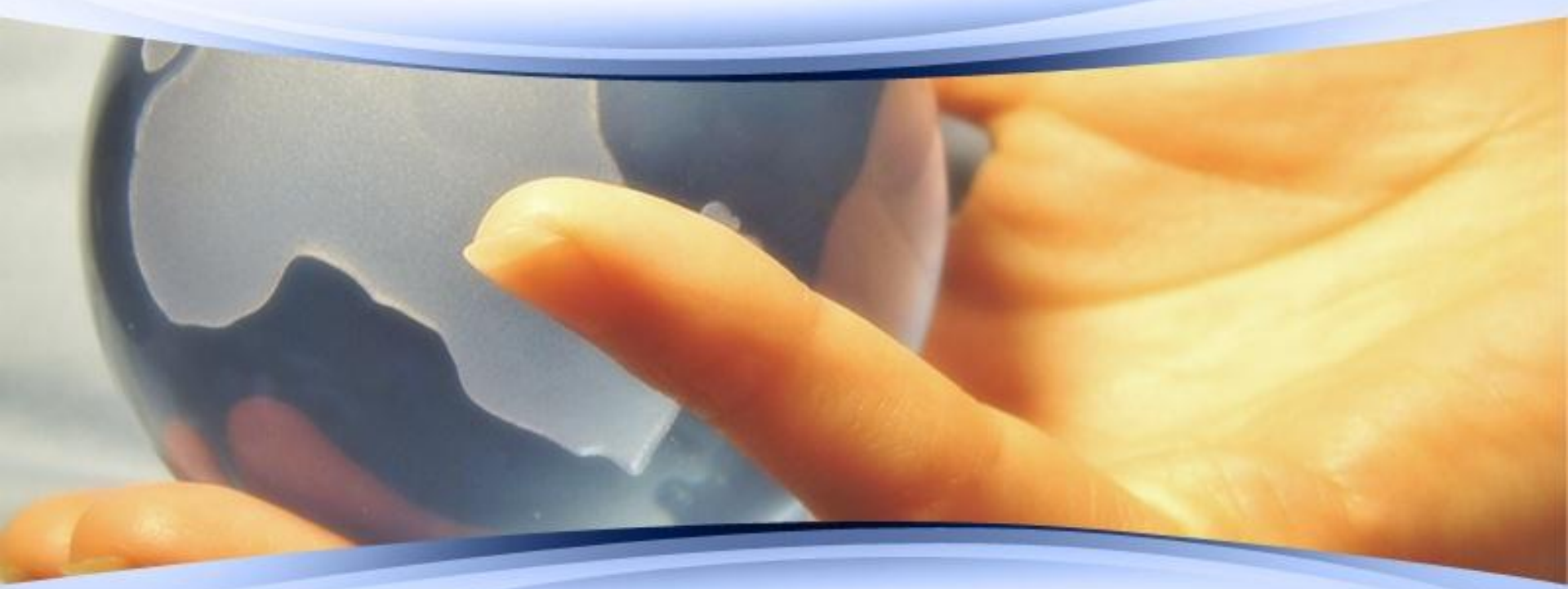
Republic of Turkey
Ministry of Health

General Directorate of Pharmaceuticals and Pharmacy

Pharmaceuticals Track and Trace System (İTS)



Pelin Aksungur PhD Pharm.

05.10.2011

Content

- What is İTS?
- Objectives
- Basic Concepts
- Time Plan
- Workflow Diagram
- Web Services
- Participants
- Statistics

What is İTS?

The Turkish “Pharmaceuticals Track and Trace System” (generally abbreviated as ITS) defines the infrastructure constructed to track and trace all units belonging to each pharmaceutical product in Turkey. ITS is an application of the infrastructure that is known as “Track & Trace” in the literature. Datamatrix code is used instead of formerly used barcode to ensure the uniqueness of the units. Every single step and action of the unit in the supply chain are gathered by web services to provide the traceability.

Objective

- Ensure the reliable supply of drugs to patients
- Prevent counterfeiting, fraud, smuggling and illegal sale of drugs
- Prevent barcode scams
- Support rational drug use, supply data to control market

Basic Concepts

PRODUCT;

- Every single box of a drug. It defines the unique box of a pharmaceutical tracked by ITS.

GTIN;

- Global Trade Item Number.
- Ensures the uniqueness of a drug universally. Unique number created by GS1 for a single trade item.

SN;

- Serialization Number printed on the box of a drug. GTIN and SN ensures the uniqueness of a single box.

PARTICIPANT;

- A person, group, organization, or system who is affected by İTS actions

Time Plan

October 2007	• Project Kick-Off
August 2008	• Demo
November 2008	• Publication of Web Services
September 2009	• Pilot Application
January 2010	• Go Live
January 2011	• İTS Portal, İTS PTS

Workflow Diagram

Product is marked with DATAMATRIX after serialized by GTIN and SN

İTS

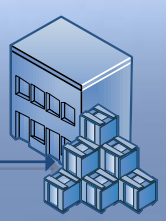
Put on the Market?

Stockpiled

STOCK

Sent to the Wholesaler

İTS



WHOLESALER

İTS

Sell ?

Stockpiled

STOCK

Sent to the Hospital/Pharmacy

İTS

STOCK

Stockpiled

Sarf ?

İTS

H

HOSPITAL

PHARMACY

İTS

Sell ?

Stockpiled

STOCK

Consume

İTS

Sell

İTS

PATIENT

İTS

REIMBURSMENT COMPANY or ASSOCIATION

İTS

PATIENT

İTS Menufacture/Import Notification

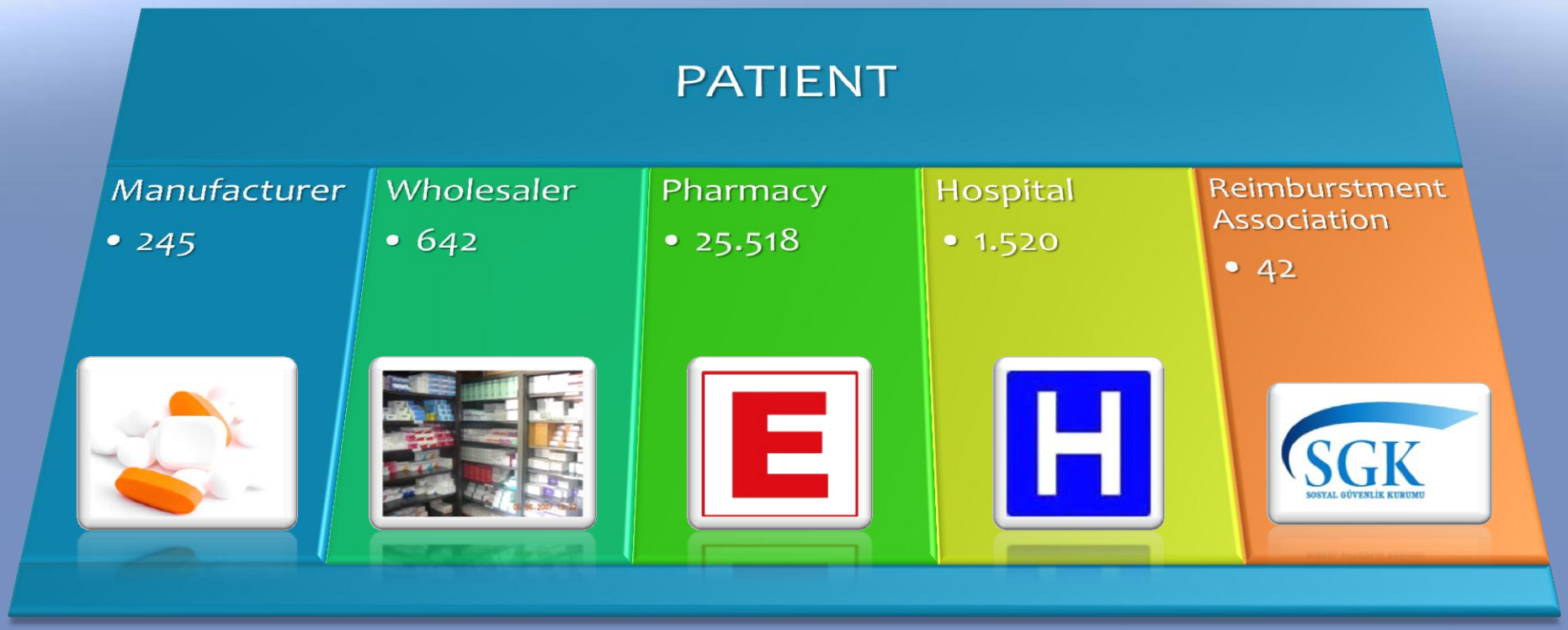
İTS Sale/Cancel Sale Notification

İTS Consume/Sale Notification

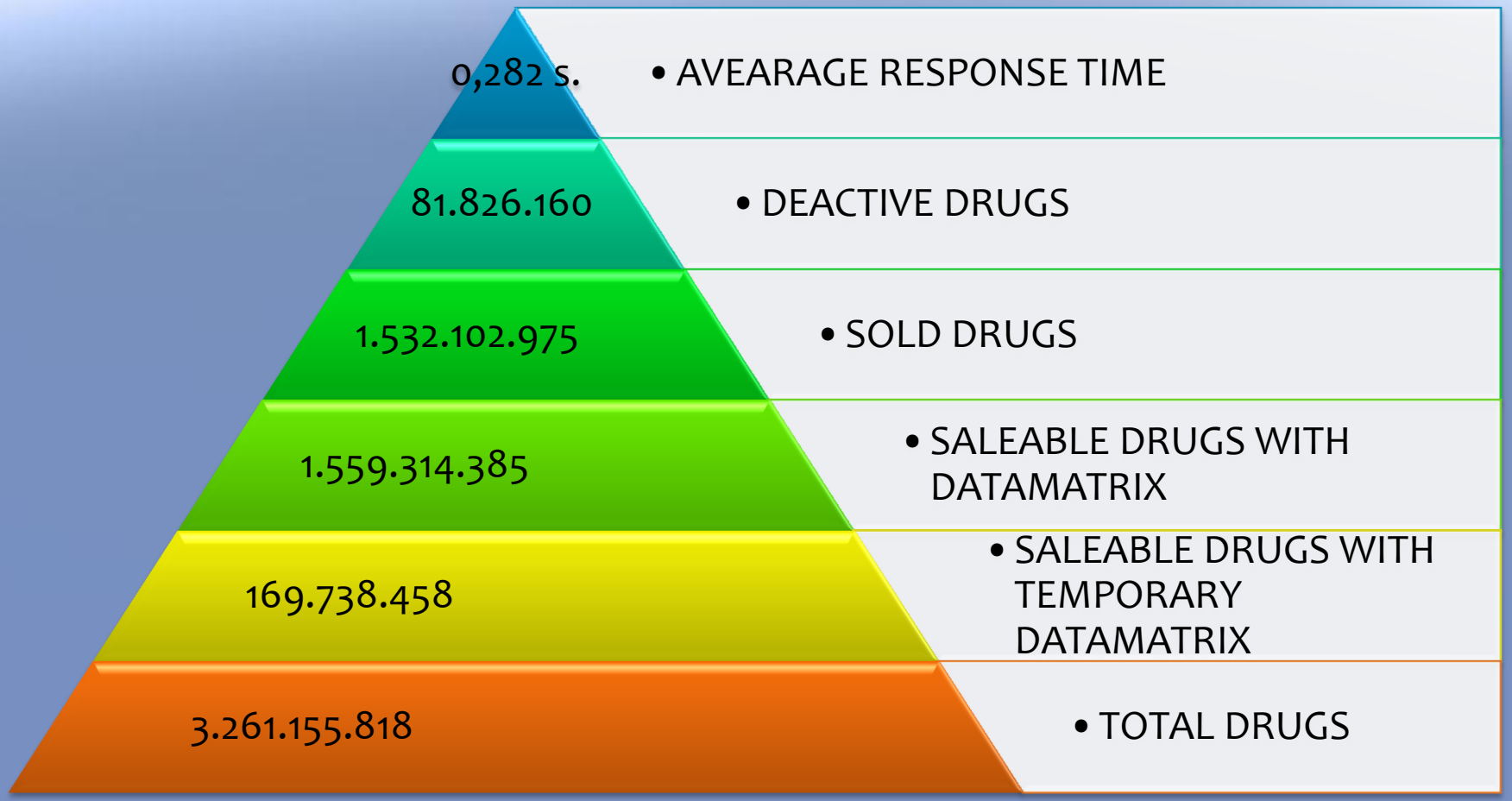
İTS Query Sale

Web Services

Participants



Statistics


0,282 s.
• AVEARAGE RESPONSE TIME
81.826.160
• DEACTIVE DRUGS
1.532.102.975
• SOLD DRUGS
1.559.314.385
• SALEABLE DRUGS WITH DATAMATRIX
169.738.458
• SALEABLE DRUGS WITH TEMPORARY DATAMATRIX
3.261.155.818
• TOTAL DRUGS

Thank you