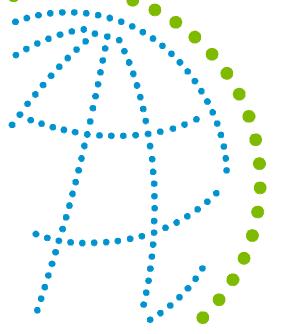


# Delivering a Comprehensive Serialization Traceability Program



**Peggy Staver - Pfizer** 

## **Overview**

Global Serialization

- Pfizer History
- What it Takes
  - Strategies
  - Organization
  - Solutions
  - Business-as-Usual
- Summary



April 21, 2015

# Pfizer History Serialization Myth #1

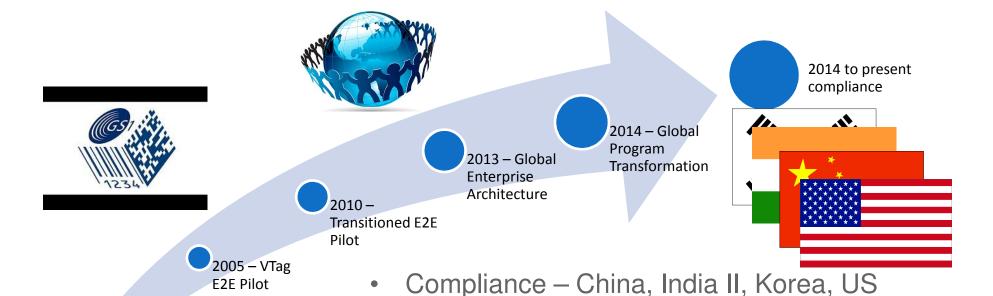




# "There's Plenty of Time"

# Pfizer's History





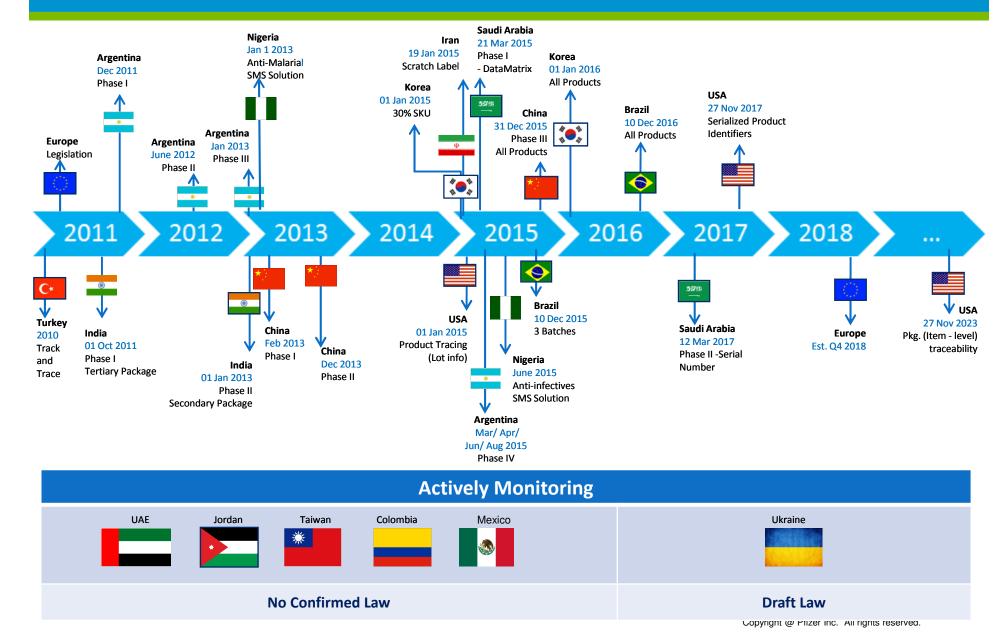
- 2001 Serialization Initiatives Started
- Active China, Korea, US, EU, Brazil, Saudi Arabia

(Turkey, Argentina, Saudi Arabia Phase 1)

- Monitoring 20+ and counting
- 20+ live sites/CMOs (50+ lines), 6 logistics facilities and 50+ active ongoing implementations
- Collaboration GS1, Rx-360, regulators, trade associations, trading partners

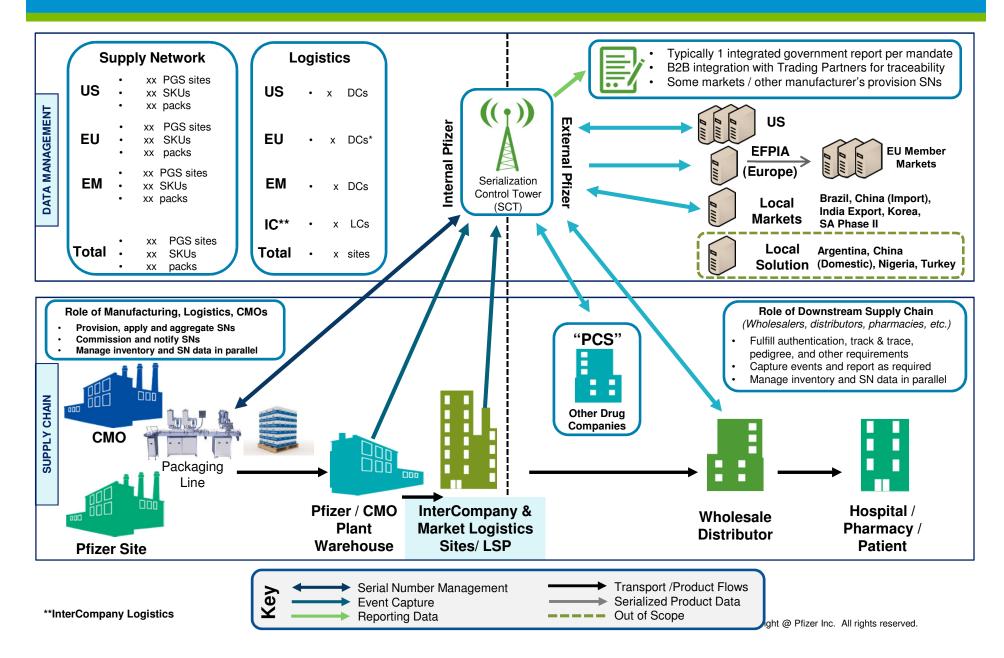
# **Serialization Compliance Timeline**



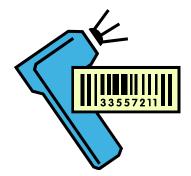


# Serialization Enterprise Solution Overview





# **Strategy Serialization Myth #2**





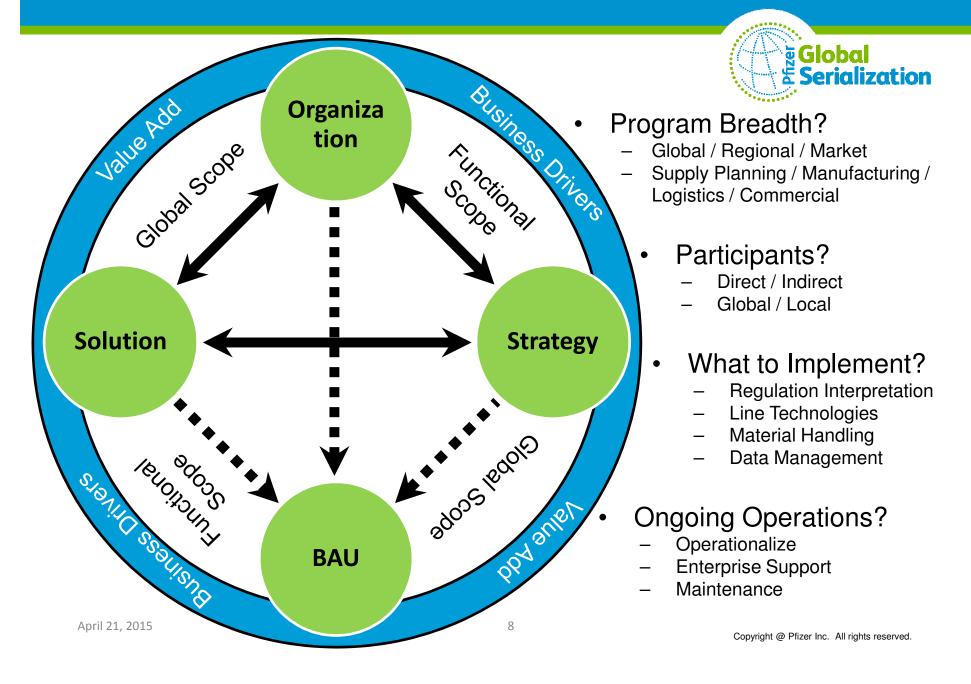


"Serialization is really just setting up your packaging lines with some bar code printers and scanners"





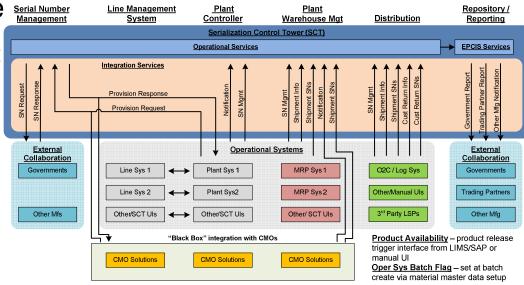
## **What Does It Takes?**



# **Strategies & Methodologies**



- Alignment with business and investment plans
  - Packaging network optimization (insource/outsource strategies, hubs, etc)
  - Postponement and source strategies
  - Work center, deferred aggregation or enable line
- Harmonized standards, modular build and consistent timing
- Global solution architecture
  - Enterprise data management
  - Agile and flexible
  - Leverage existing solutions
- Compliance fulfillment
  - Program Operating Model
  - Holistic project management



Note: Only certain shipments will require serial number tracking

- 1) Any customer sale shipments, 2) Product redirect shipments and 3) PCS shipments
- Learning & continuous improvement

  Typically intercompany shipments do not require serial number tracking to the continuous improvement.

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## "Commoditize" Mandates



#### Mandate Classification

#### **Mandate Requirements**

- Import
- Authentication
- Export
- Track & Track

#### **Common Enablers**

- Serial number provisioning
- · Notification / commissioning
- Aggregation
- Serial number management

#### **Event Driven Reporting**

- Government
- **Trading Partners**
- Other Manufacturers

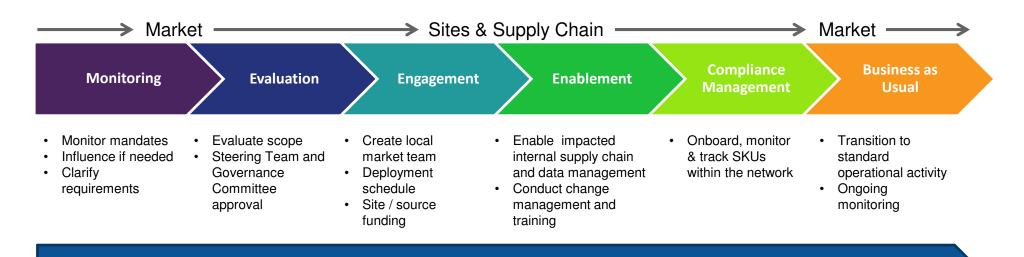
N	\	N	Busir	ness	Events	٨		٨		
Provision & Apply	Creation / Aggregation		Product Availability		Tracked Receipts		Tracked Shipment		Compliance Reporting	
Serial Number Management (e.g. provision, commission, ship, rework, destruction, returns)										

<b>Mandate</b>	<b>Requirements</b>	<b>Event Combination</b>
<ul><li>China</li></ul>	Import	ProvApply→Notify→Prod Avail→Report
	SN Management	Modifications → Report
	Track	Ship→Report
<ul><li>India</li></ul>	Export	Prov/Apply→Notify→Prod Avail→Report
– Brazil	Import	Notify→Prod Avail→Receipt→Report
	SN Management	Modifications→Report
	Track	Ship <b>→</b> Report
– US	Track	Prov/Apply→Notify→Ship→Report
	SN Management	Modifications
– EU	Authentication	Prov/Apply→Notify→Prod Avail→Report
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<sup>\*</sup> Aggregation is often needed for supply chain efficiencies

# **Program Operating Model**





#### **Program Operations**

- Focus: Market → Site & Supply Chain → Market
- **Enablement Projects:** driven by market requirements
- Manage Supply: impact of executing enablement projects
- Ongoing Operations: execute on a strategy allowing the company to operate post program

# **Operational Learnings**















#### **Enablement**







#### Plant Warehouse



#### Distribution







- Incorrect configuration of master data
- Required functionality delayed

THEMES (Origin)

- Serialization data commissioning processes missed or delayed
- · Readability of barcode
- · Serial number out of sequence
- · Label misprint / damaged barcode
- · Product incorrectly handled
- · Serialization data upload
- · Improper handling during shipment
- · Reports not accepted from the government
- · Data matching issues

#### **CORRECTIVE & PREVENTATIVE ACTIONS**

- · Reinforce stakeholder engagement and understanding
- · Migrate from manual to automated processes
- · Outfit intercompany distribution with serialization education
- · Update operating procedures
- Submit system enhancement request



Low volume and criticality of issues



Medium volume and/or criticality of issues

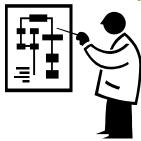


High volume and/or criticality of issues

# Organization Serialization Myth #3







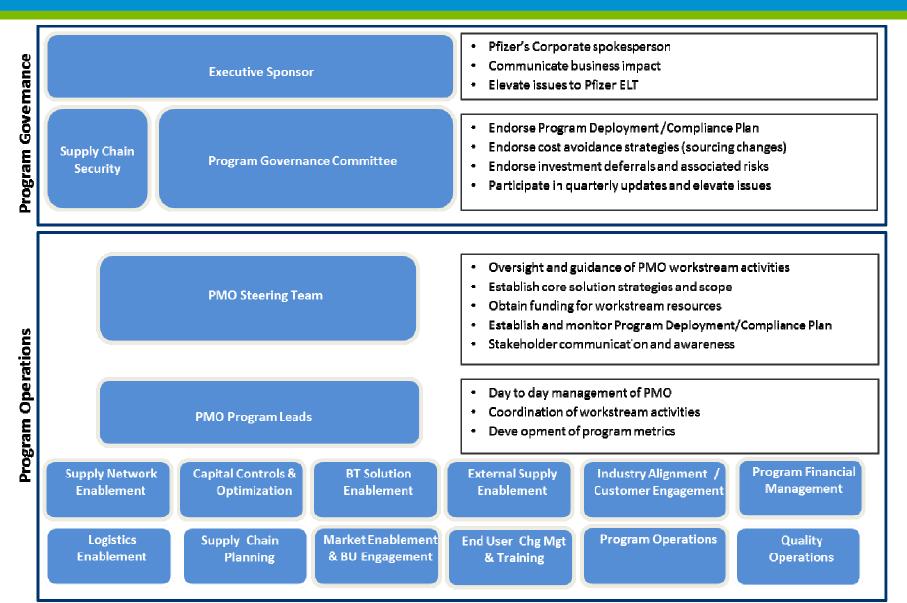
"Give it to Engineering .... They will get it done"





## **Program Governance**



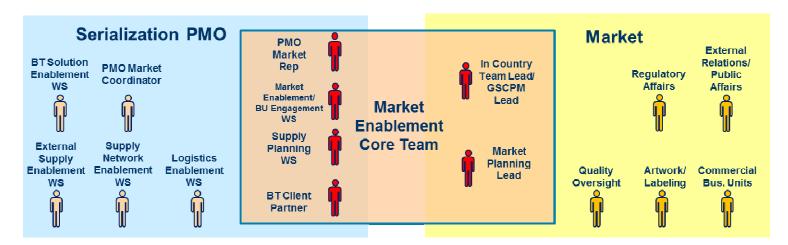


## **Blended Teams**



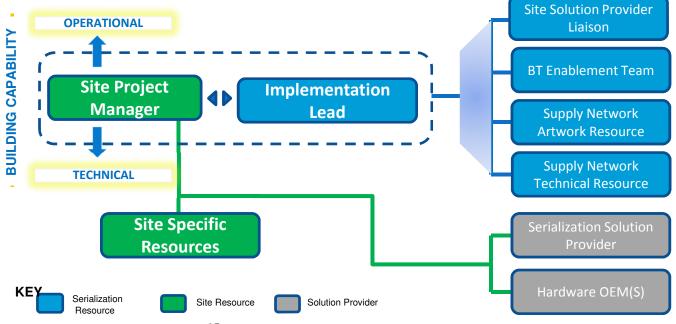
#### **Market:**

- In-country team key to success
- Partnership & Influence



#### **Source Location:**

- Ownership
- Drive operational & technical capability
- Sustainable operations



# **Solution Serialization Myth #4**

# Global Serialization

# "One size fits all"



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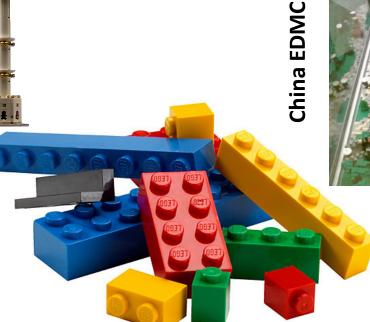
# **Modular Building Blocks**





# **US DSCSA**







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#### **Reusable Parts**

- Simple / versatile / agile
- Fulfill different independent functions
- Put together to address higher level needs



# **Standard Operational Processes**

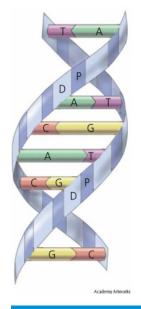
Global Serialization

Analyze overall network for event capture points in operations

- Lines / CMOs
- Plant warehouses
- Logistics network
- Market distribution network
- Identify operational requirements to meet / maintain compliance
  - Normal "go-forward" process
  - "Exception" handling
- Define Operations Requirement Flows
  - Operationally "agnostic" to mandates
  - Minimize operations impacts
  - Automated and / or manual



### **Master Data**

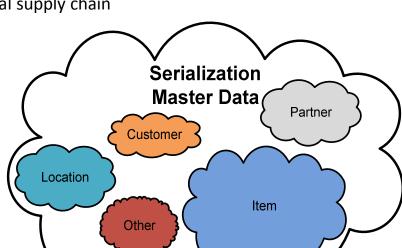


#### Master Data is the "DNA" for the Serialization Program

- It is the "Identity" of the Product and Company Data with necessary elements
- It is the "Bond" that ties all internal and external supply chain solutions together

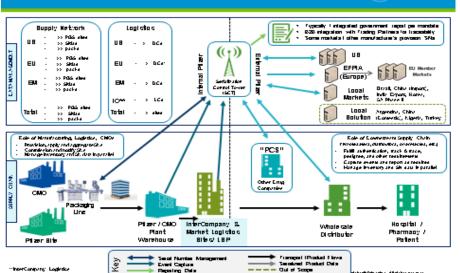
#### **Serialization Program Key Components**

- Business processes are the work flows to be executed
- Master Data is the definition / identity of what the business processes are to be acted on and how



**Global** 

#### Serialization Enterprise Solution Overview



#### **Business Process Integration**

- Many internal and external business systems need to be able to work interactively
- The master data serves as the bond that enables the different solutions to talk in a common language

# Business-As-Usual Serialization Myth #5





"Serialization only adds to product cost and does not create business value"





## **BAU vs. Operationalization**



# Business As Usual • Sustainable execution of operations by the appropriate end state owner with serialization processes and tools incorporated as required • Owners of BAU processes vary by function Regulatory External Supply Site Center Site

- Processes and activities needed to transition the network from non-serialized to serialized operations
  - Each respective functional area undergoes the transition to a serialized state, with some starting at a different point along the maturity curve than others

Operationalization

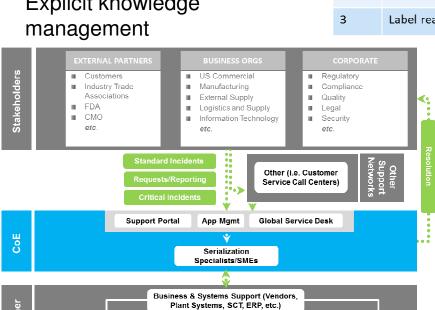
- o Operationalizing includes process enhancement to improve efficiencies
- o NOTE: New requirements or functionality will go to BAU

# **How to Support?**



#### Challenge

- Many potential supply chain points of failures
- Efficiently find issue source
- Capture/manage issues traversing the supply chain
- Harmonizing business partners / tech teams
- Regulatory time constraints
- Explicit knowledge management



Business, Corporate

Groups (Commercial etc.)

Infrastructure

(SS, etc.)

Problem				Reporte	d By	
Serial number does not match the electronic data sent downstream Customer (Wholesa					esaler)	
Solution Route:						
WHOLESALER	CUSTOMER SERVICE	Supply Chain Group		######################################		IΤ

S.N.	Cause of problem	Resolution Provider
1	Label was printed incorrectly	Manufacturing Site Operation
2	Data was corrupted	Plant System or SCT
3	Label reading issue at the customer	Customer

#### Challenge

- Enterprise support:
  - Learning solution, gluing existing support networks
  - Support internal or external stakeholders
  - Incident and Problem Management
- Routing mechanism:
  - "Fastest" routing / resolution of issues traversing groups
- Enterprise Support (COE):
  - Mgmt & SMEs for performance and stakeholder mgmt
  - Learning machine that provides continuous support & solution improvement
- Accountability:
  - From opening to closing of incidents
  - Monitoring problem management effectiveness

Operational Support (Engineering, CMOs,

Distribution, Lines, Logistics, etc.)

# **Summary Serialization Myth #6**



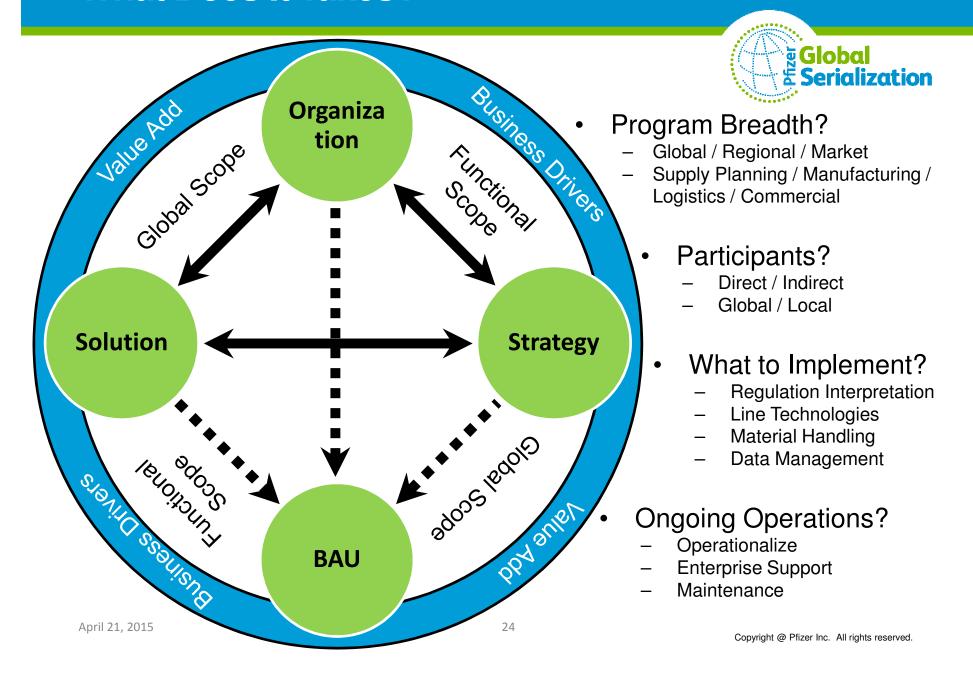


"Once I have funding approved, I can get this done in a couple of months"





## **What Does It Takes?**



# Thank You!!!



