

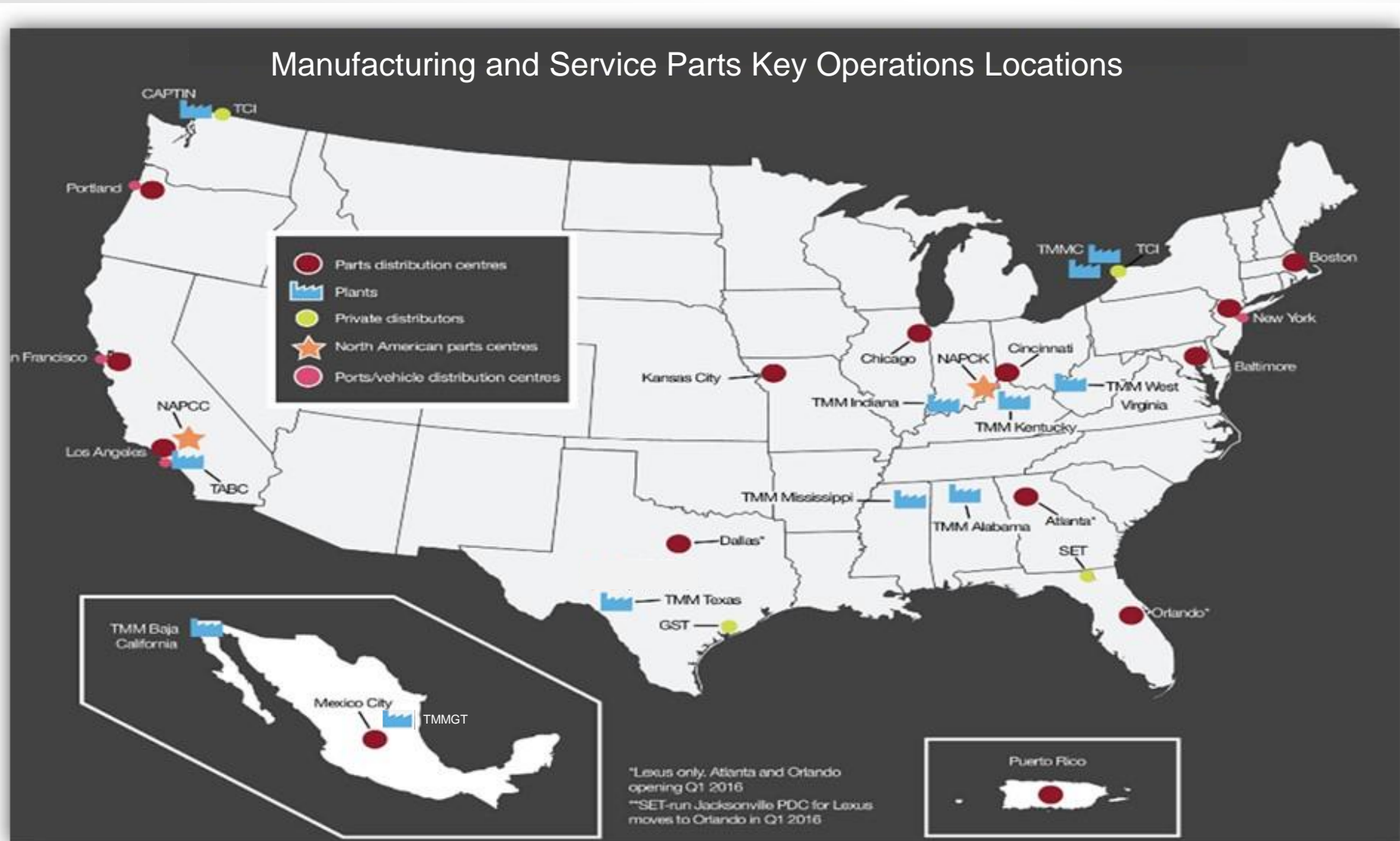
TMNA PACKAGING PRESENTATION

16 September 2020

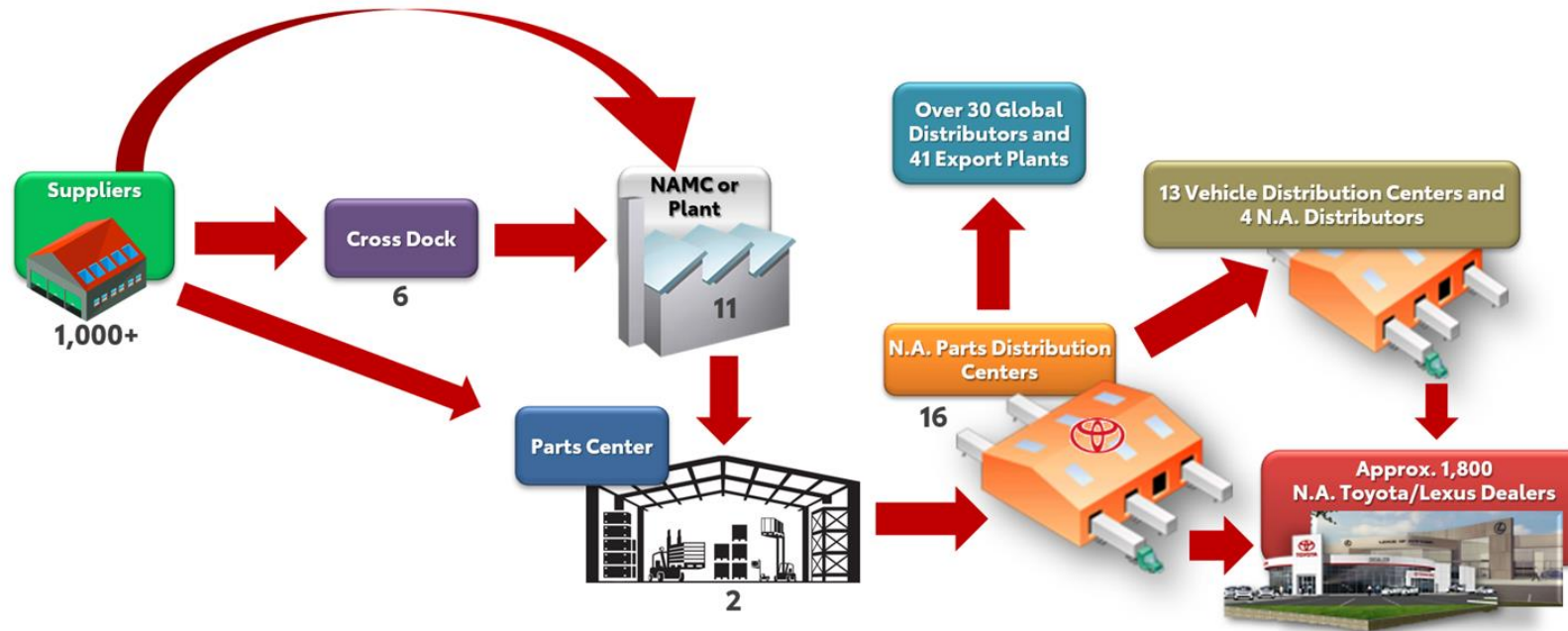
ONE TOYOTA NORTH AMERICA



TMNA Parts Network



TMNA Parts Network



Advanced Planning

- Parts Systems
- Parts Innovation
- Logistics Projects
- Packaging
- Network Projects

PSCP

Cyclic Planning

- Logistics Planning
- Supply Planning
- Export Planning
- New Model Planning

PSCP

Daily Operations

- Logistics Operations
- Customer First
- Supply Operations
- Supplier Development
- Distributor Support
- Parts Technical Support Group

PSCO

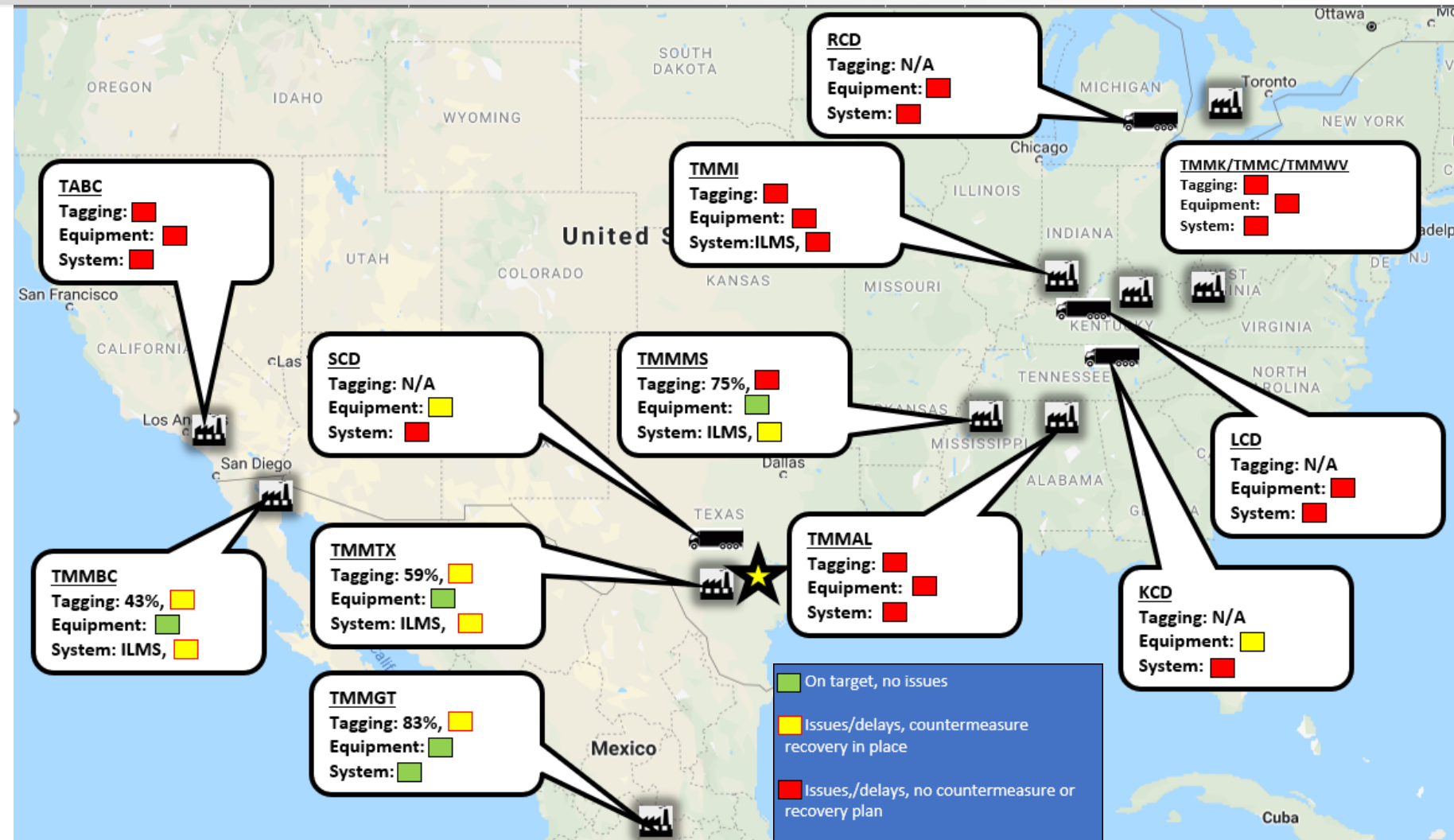
Fulfillment Operations

- Order Fulfillment
- Labor Management
- Operations Improvement
- Facility Management
- Dealer Relations

PSCO

What are we doing in TMNA Packaging?

TMNA RFID Container Tracking Deployment



- RFID Equipment at TMMMS, TMMGT, TMMBC, and TMMTX
- KCD and SCD
- 4.02M assets labeled, 3.67M Toyota containers Commissioned
- > 8M Toyota assets, \$500M in returnable Packaging

MTMUS Launch



- Toyota and Mazda are launching a joint venture plant in Huntsville, AL to build vehicles for both brands. SOP is Sept. 2021 (Toyota), Dec. 2021 (Mazda)
- 2 Production lines – Apollo (Toyota line), Discovery (Mazda Line)
- The TMNA Packaging team is performing the packaging design and development normally performed by our NAMC's.
- RFID will be used for container tracking

Key functions of TMNA Packaging

- New Model Packaging Design and Development
- Service Parts Packaging design approval and kaizen
- Returnable container tracking and management
- Export production parts packaging design and management
- HQ Packaging Lab Operations
- Packaging System (VPACS) user training and support
- Standardization & Kaizen of Packaging processes across the NA Network

What are our challenges?

Current Challenges

RFID

- Supplier Labeling and Commissioning completion (Gaps in container visibility)
- Funding for future network RFID expansion

Regulatory and Environmental Compliance

- Very aggressive 2050 goals for CO2 reduction, waste reduction and use of recyclable packaging materials
- Increasing labeling and materials declarations from Export Customers (Service)

Other

- Reducing weight for racks for heavy parts (steel → aluminum)

Next Steps

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- Complete RFID implementation for all Toyota NAMC's, XD's and Suppliers
- Request and develop Service Parts Packaging database for compliance and cost management
- Develop strategies to meet CO2 and waste reduction environmental targets