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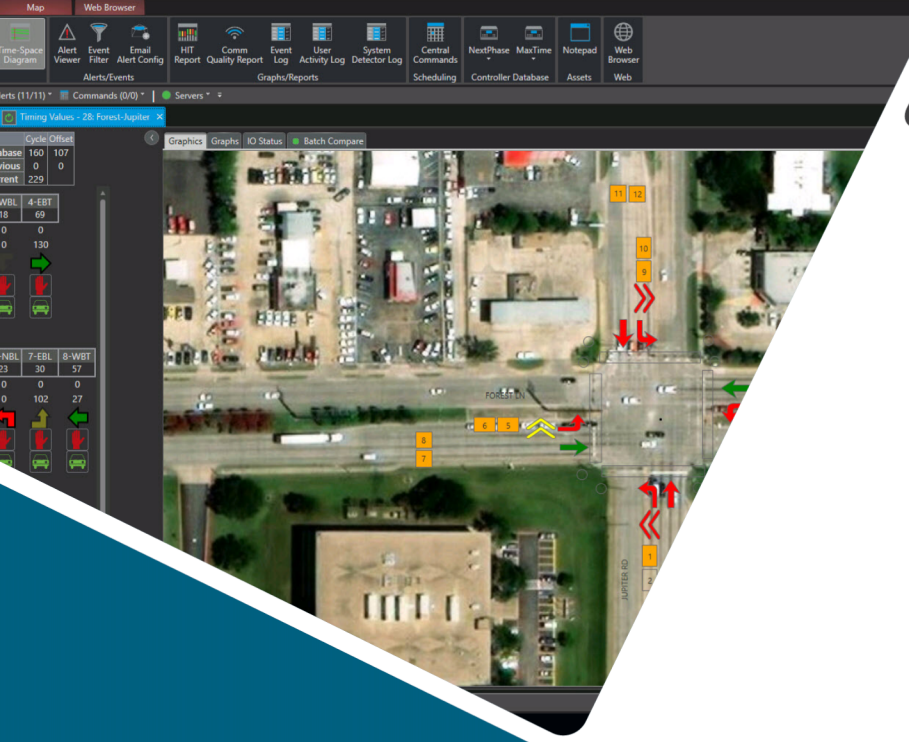


Kimley»Horn

SMART CITIES

TECHNOLOGY FORUM

# Data Sharing and Multi-Agency Support

»KITS
A Kimley-Horn Software Solution

»Kadence
A Kimley-Horn Software Solution

»Traction
A Kimley-Horn Software Solution

# Agenda

- Common data sharing needs
- Data sharing technical challenges
- Multi-agency solution examples
  - CDOT Regional ATSPM
  - SANDAG Next OS
- Workshop and Q&A

# Common Data Sharing Needs

# Why is Data Sharing Important?

- Jurisdictional boundaries are invisible to the average traveler
- Ownership, operation, and maintenance of ITS assets is often distributed to different entities
- “Big picture” understanding of operations facilitates better decision making and asset management
- Sharing data helps each agency play to their strengths, within their limitations

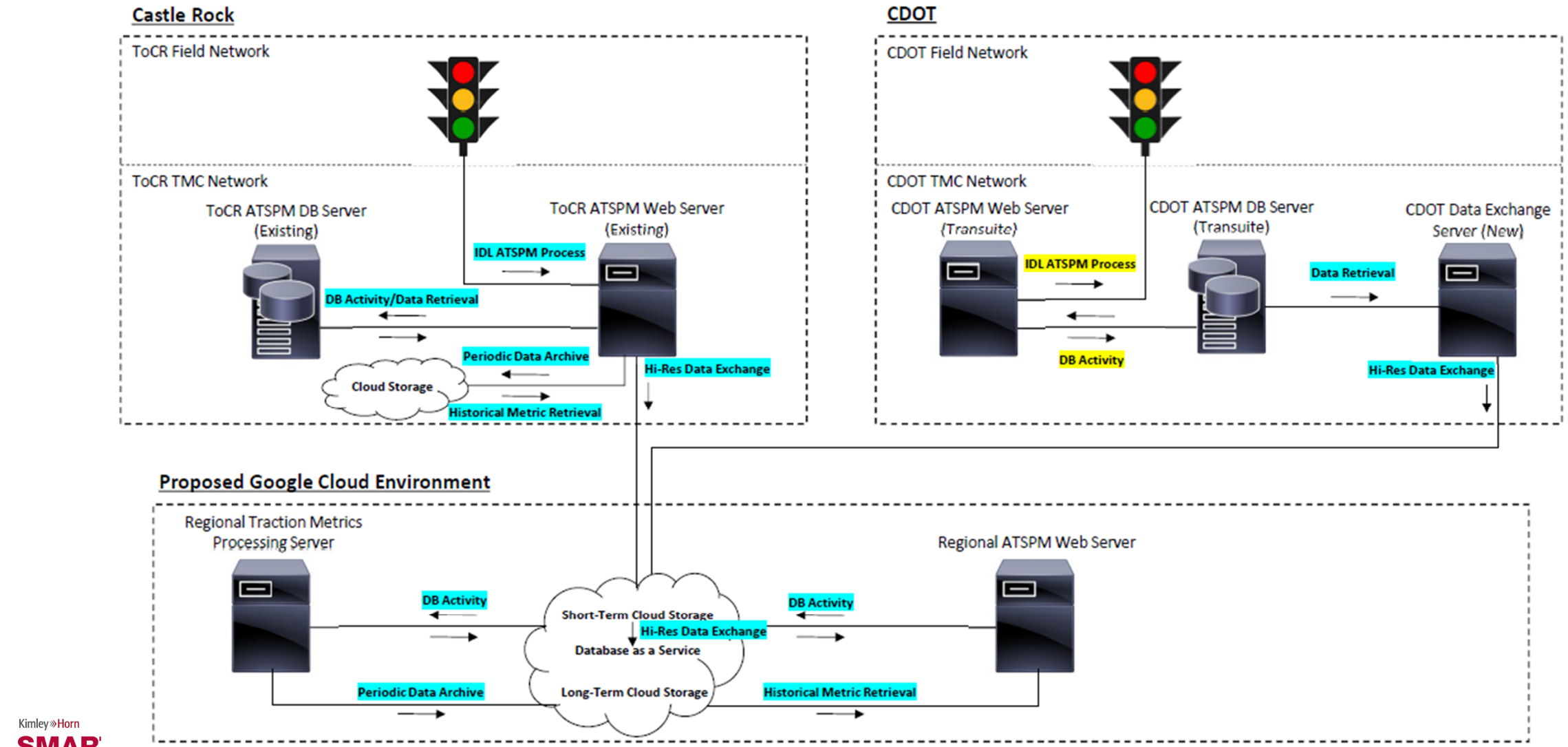
# Data Sharing Technical Challenges

# Common Challenges when Sharing Data

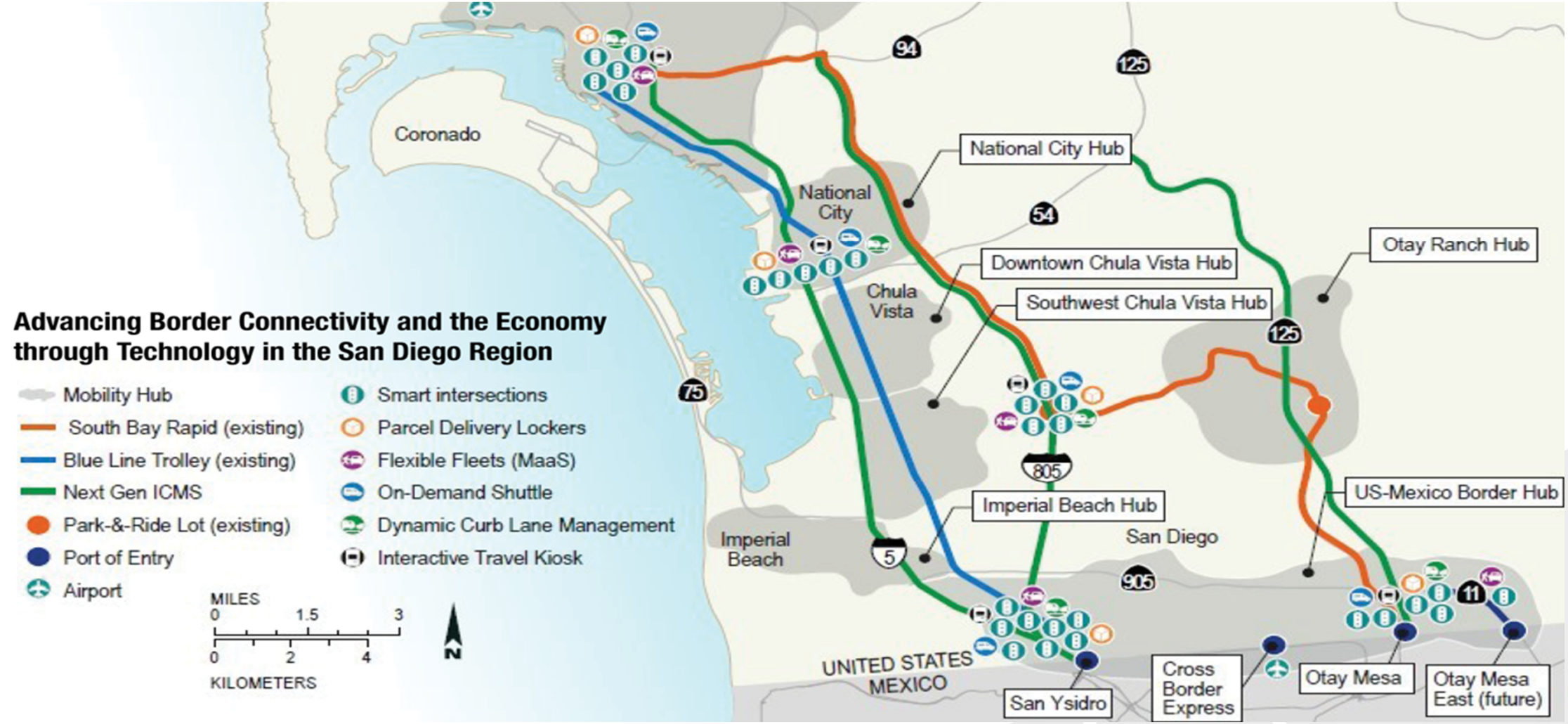
- Adherence to IT security policies
- Lack of data sharing support
  - Software customizations to add data sharing
  - Procurement of APIs from existing software
  - Procurement of new software/hardware with better APIs
- Lack of a standard data formats
- Lack of regional data sharing platforms
- Ongoing maintenance of data sharing components

# Multi-Agency Solution Examples

# CDOT Regional ATSPM



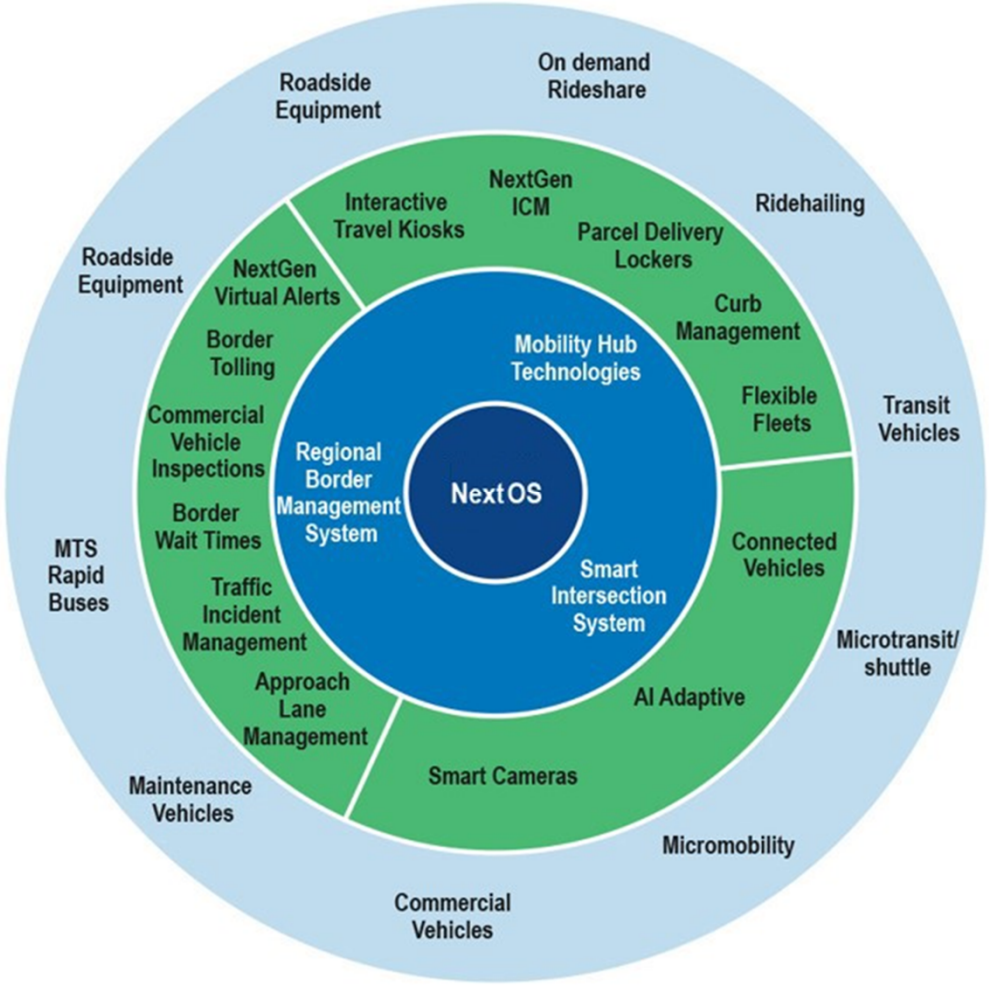
# SANDAG Next OS



# SANDAG Next OS

FR-7 Data Exchange Between ABC Systems
Freight Signal Priority
Transit Signal Priority
Vulnerable Road User Detection
Adaptive Traffic Control
FR-1 Smart Intersection System
Geofenced Traveler Info
Public-Facing Mobile App
FR-2 Real-time Traveler Information
Incident Mgmt Data
Decision Support System
ICMS Field Device Monitoring
FR-3 Integrated Corridor Management System
Real-time ABC System Status
Historical ABC System Data
FR-6 Next OS
ABC System Requirements
Fare Data, by Mode
Travel Time Data, by Mode
FR-5 Mobility Hub System
Border Mgmt Data
RBMS Field Device Monitoring
Decision Support System
FR-4 Regional Border Management System

# SANDAG Next OS



# SANDAG Next OS

- External stakeholder outreach strategy
  - Project development team meetings
  - Coordination meetings with partner agencies and related efforts (e.g., OME project)
  - Prioritization workshops
  - Field visits
- Internal stakeholder coordination (e.g., SANDAG sustainable communities working group)

# Workshop and Q&A

# Useful Datasets and Use Cases

- What datasets are you sharing today and how?
- What data do you need that you aren't currently getting?
- How much do you coordinate with your agency partners today?
- How can you help your agency partners?
- How can your agency partners help you?

# Thank You!