# KDOT Update
## *Broadband/Fiber Initiatives*

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# IKE Program

- $100 Million – Preservation +
  - Conduit/Fiber Installation
  - Transportation and Broadband Benefits

- $85 Million for Broadband Expansion
  - 3 years of $5 Million, 7 Years of $10 Million
  - Construction of Broadband Infrastructure
  - Partnership with Department of Commerce

# Fiber Installation

- $100 Million – Preservation +

- Transportation + Connectivity + Opportunities + Future

  - Middle Mile

  - Freight Routes of Significance

# Middle Mile Partnership

- Commerce and Transportation

- Leverage State Funds to Receive Federal Funds

- Allows IKE Funds to go beyond the primary network

# Dig Once Strategy

- Add Conduit/Fiber to an existing KDOT project:
  - Preservation +
  - Efficiency in the design process
  - Efficiency in the construction process

- Public Private Partnership
  - Shared Cost of Design and Construction
  - Shared Trench
  - Shared Conduit

Source: CJOnline.com

# Great Plains Rural Freight Technology Corridor Project – US-83

- $14 Million Project

- Federal Award - $6.7M

- KDOT Installs Fiber

- Federal funds provide technologies
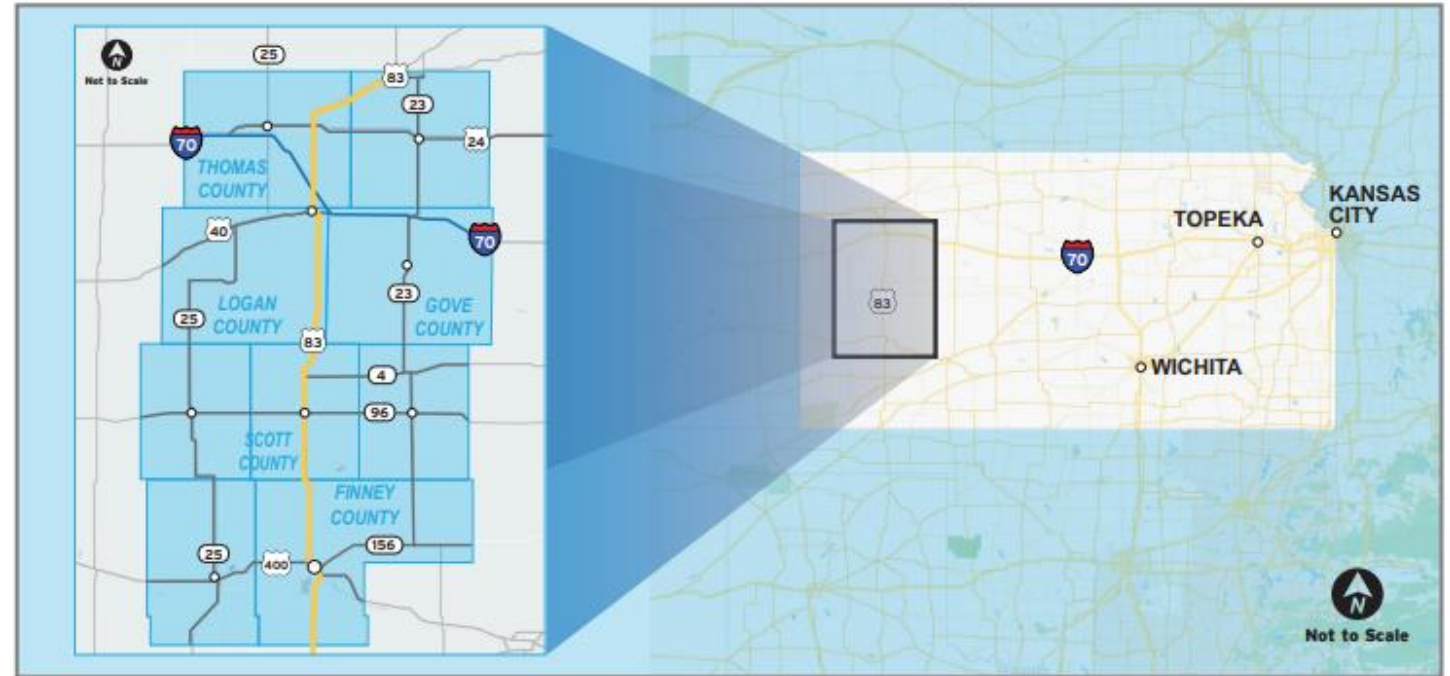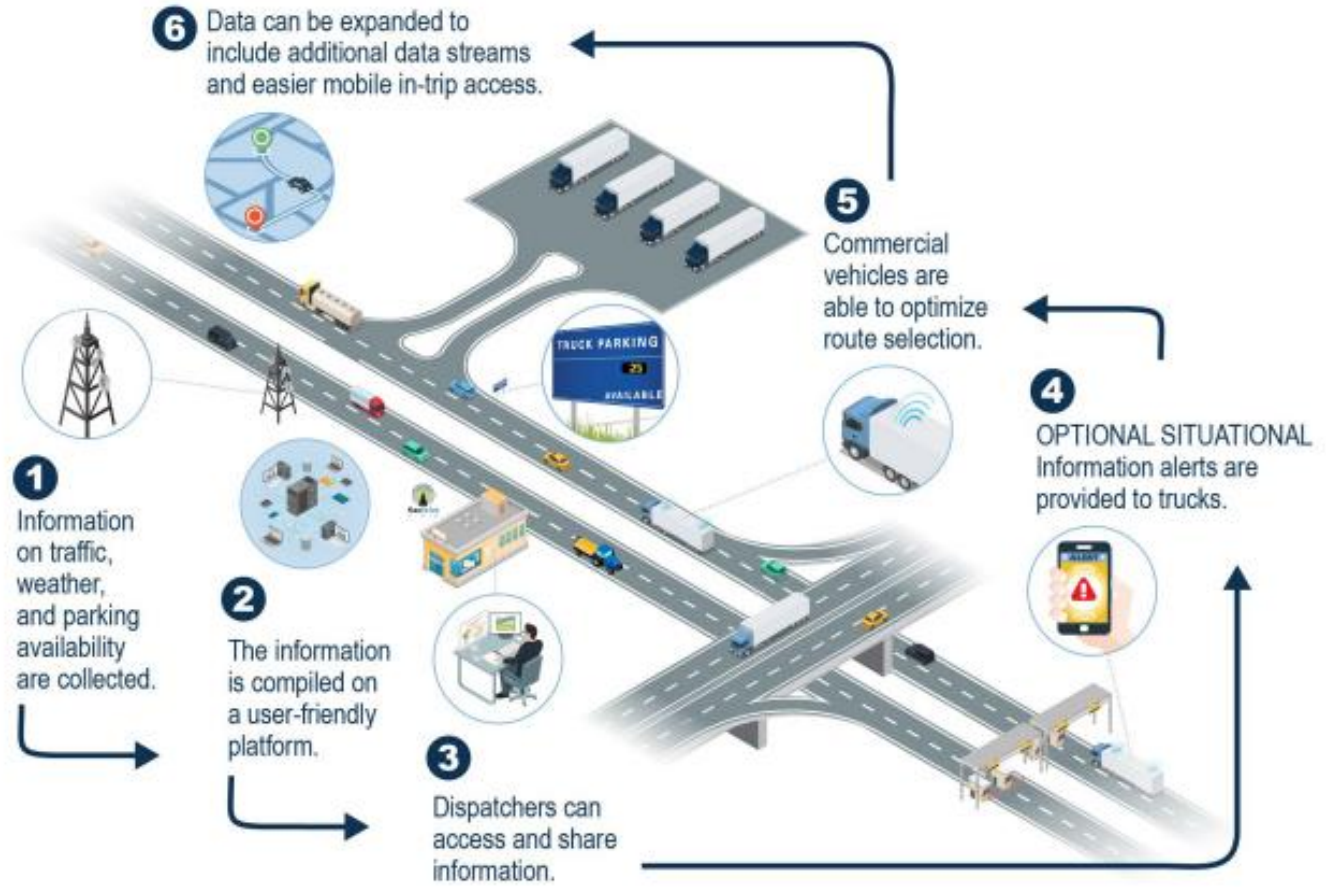


**Kansas** Department of Transportation

FIGURE 1 - Project Concept

**US-83**

Traveler Information

Transportation Management Technologies

Infrastructure Maintenance

Advanced Safety Systems

Data Collection

# Planning for the Future



Connect and secure your roadside infrastructure

**Traffic signal controller monitoring**
Make remote SPaT (signal phase and timing) adjustments. Modify signal operation to optimize flow of traffic, reducing congestion.

**Remote weather information system**
Monitor weather and road conditions to warn drivers of hazardous conditions.

**Video surveillance**
Get real-time visibility into traffic movement and congestion and detect traffic violations. Use analytics to improve safety for pedestrians and cyclists.

**Electronic tolling stations**
Use automation to reduce traffic delays by making toll collection faster.

**Dynamic message signs**
Provide drivers with roadway information and guidance on lane closures, traffic accidents, and weather conditions.

**Electric vehicle charging**
Remotely monitor and maintain charging stations. Provide secure customer billing and payment services.

Source: Cisco.com

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# Questions?

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