# Mobility 2045 and Freight Planning at NCTCOG

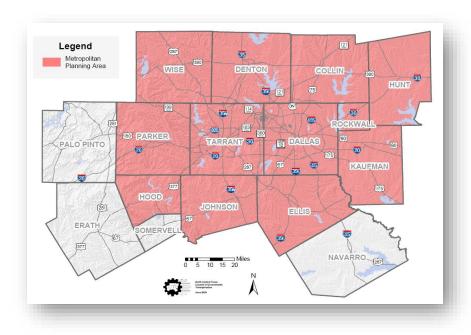
2.02.2021 | ISM Fort Worth



#### Topics

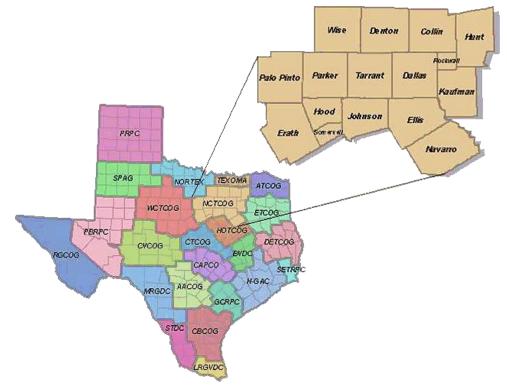
- Regional Perspective
- Mobility Planning
- Financial Planning
- Mobility 2045 Recommendations
- Freight Perspective
- Discussion





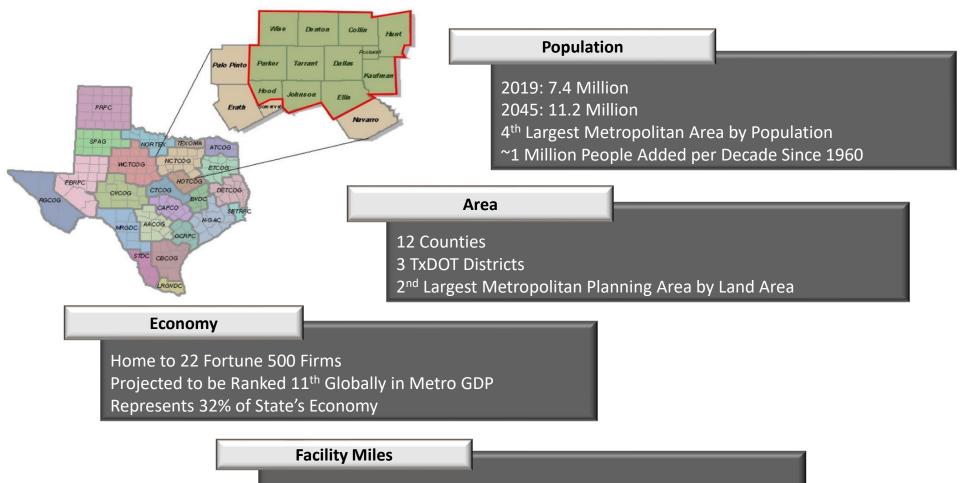
#### North Central Texas Council of Governments

- Voluntary Association of Local Governments
- Established in 1966
- Assists Local Governments With:
  - Planning for Common Needs
  - Cooperating for Mutual Benefit
  - Recognizing Regional Opportunities
  - Resolving Regional Problems
  - Making Joint Decisions
- One of 25 COGs in Texas





#### **Regional Perspective**



Freeway Lane Miles: 4,707 in 2018 / 6,066 by 2045 Priced Facility Lane Miles: 1,078 in 2018 / 1,826 by 2045 Passenger Rail Center Line Miles: 148 in 2018 / 449 by 2045



# **Mobility Planning**



### What Is The Mobility Plan?



Represents a Blueprint for the Region's Multimodal Transportation System



Covers at Least a 20-Year Timeframe



**Responds to Goals** 

Identifies Policies, Programs, and Projects for Continued Development



Guides the Expenditure of Federal and State Funds

### Mobility 2045 Goals

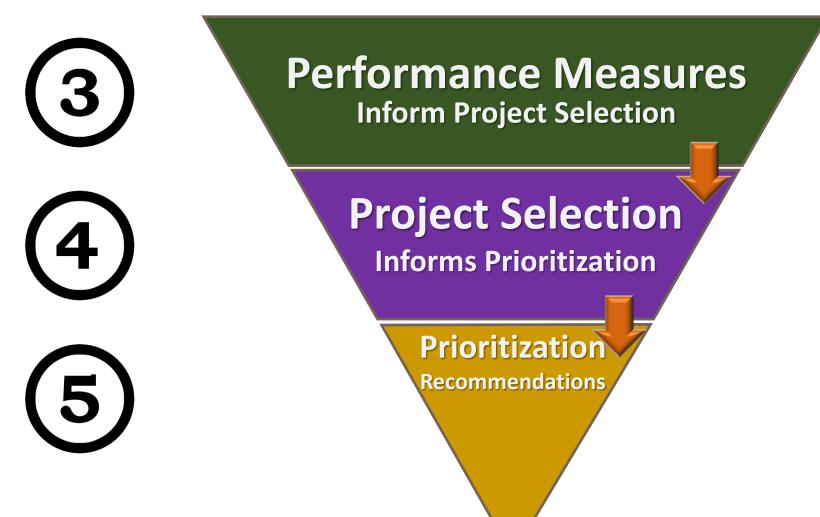
- Mobility
  - Improve Transportation Options
  - Support Travel Efficiency Strategies
  - Ensure Community Access to System and Process
- Quality of Life
  - Enhance Environment and Lifestyles
  - Encourage Sustainable Development
- System Sustainability
  - Ensure Adequate Maintenance, Safety, and Reliability
  - Pursue Long Term, Sustainable Financial Resources
- Implementation
  - Provide Timely Planning and Implementation
  - Develop Cost Effective Projects and Programs





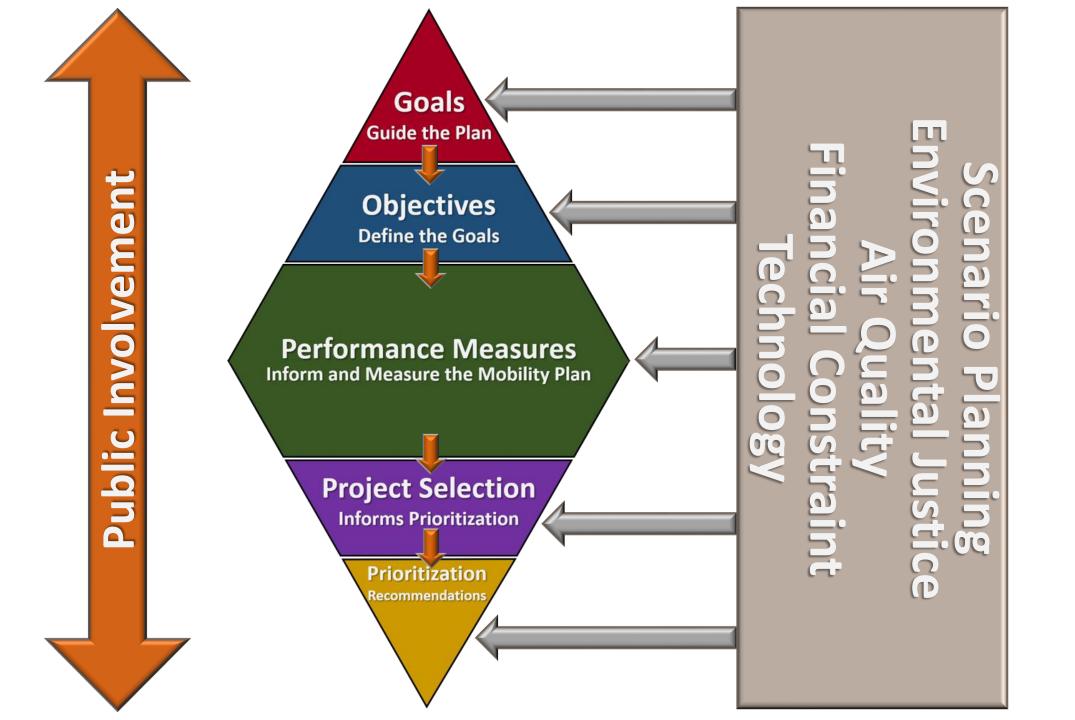


#### **Mobility Plan Organization**









#### **Mobility Plan Development Steps**

n 8 n	Infrastructure Maintenance Maintain & Operate Existing Facilities Bridge Replacements
aximi xistin ysten	Management, Operations, and Technology Improve Efficiency & Remove Trips from System Traffic Signals and Bicycle & Pedestrian Improvements
Σшω	Growth, Development, and Land Use Strategies More Efficient Land Use & Transportation Balance



### **Mobility Plan Development Steps**

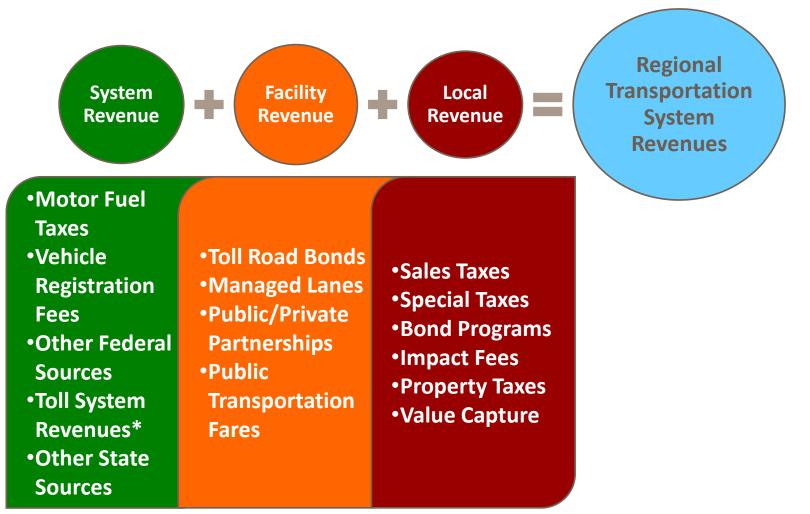
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Σ Ш 07	Growth, Development, and Land Use Strategies More Efficient Land Use & Transportation Balance
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trategic astructure vestment	



## **Financial Planning**



#### **Transportation Funding Basics**





\* Revenue from existing NTTA facilities after bonds are retired.

#### **Financial Plan Requirements**

- Use All "Reasonably Expected" Sources
- Year of Expenditure Dollars
- Must be Financially Constrained
- Balance Priorities with Available Resources





# Mobility 2045 Recommendations



#### **Infrastructure Maintenance** Maintain & Operate Existing Facilities

**Bridge Replacements** 

- Regular Maintenance
- TxDOT Programmed
- Bridge Replacement Program





\$36.8 B

Management, Operations, and Technology Improve Efficiency & Remove Trips from System Traffic Signals and Bicycle & Pedestrian Improvements

- Traffic Signal Retiming Program
- Technology Program
- Bike/Ped Program
- Asset Optimization Program





\$9.5 B

#### Growth, Development, and Land Use Strategies

More Efficient Land Use and Transportation Balance

- Incentives for Mixed-Use Development
- Last Mile Connections
- Local Government Coordination





\$3.2 B

#### Rail and Bus

Induce Switch to Transit



• Local Transit Agencies

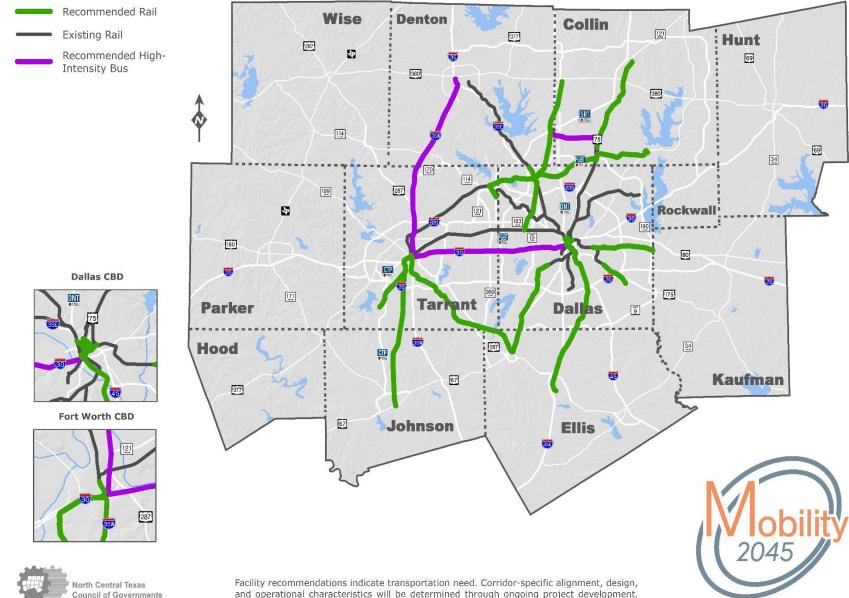
120 TRE (120)

- Trinity Metro
- DART
- DCTA





#### **Transit Corridor Recommendations**







and operational characteristics will be determined through ongoing project development.

#### 22

Source: North Tarrant Express

#### Source: NCTCOG

#### **Freeways/Tollways and Arterials**

Additional Roadway Capacity

**HOV/Managed Lanes** 

**Corridor Traffic Management** 

**Increase Auto Occupancy** 

- Economic Development Engine
- Transportation System Backbone
- Increased Connectivity
- Strategic Investment
- Accessibility

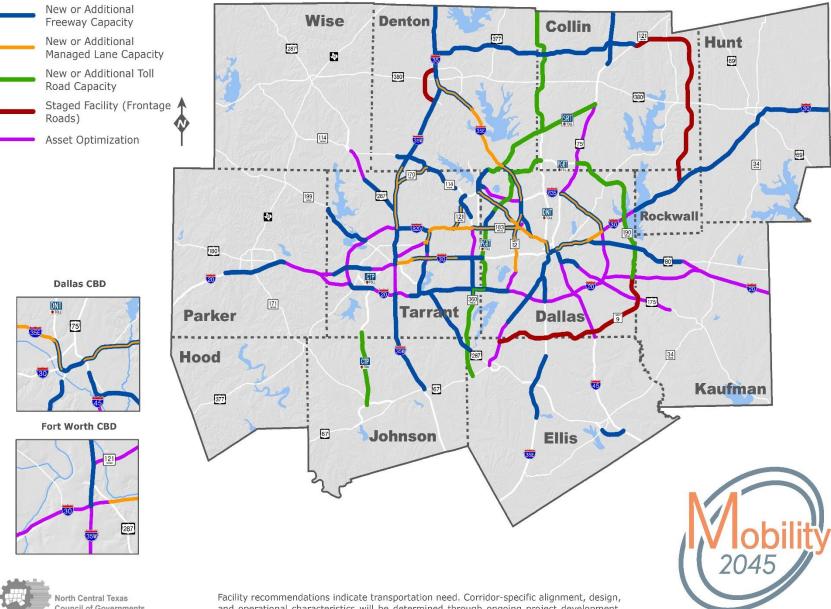






\$53.6 B

#### **Major Roadway Recommendations**





June 2018

and operational characteristics will be determined through ongoing project development.

### **Mobility 2045 Expenditures**



**Total Expenditures<sup>1</sup>** 



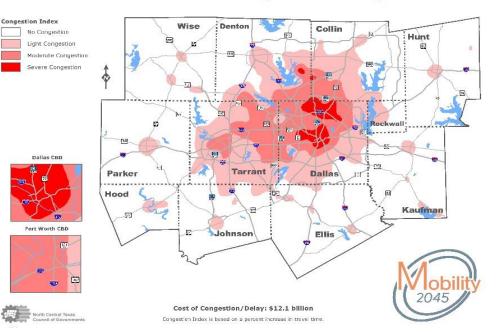
Notes:

<sup>1</sup> Actual dollars, in billions. Values may not sum due to independent rounding.

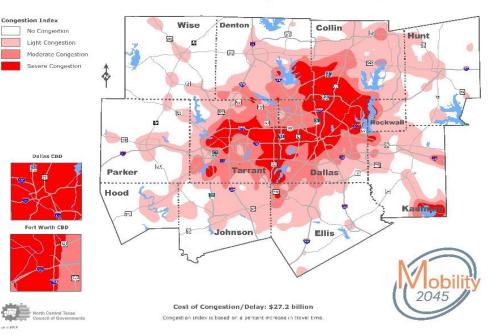
<sup>2</sup> Balances to reasonably expected revenue, demonstrating financial constraint.

#### 2018 Levels of Congestion/Delay

# Congestion and Delay

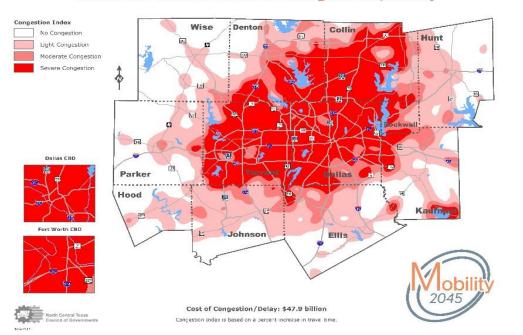


#### 2045 Levels of Congestion/Delay



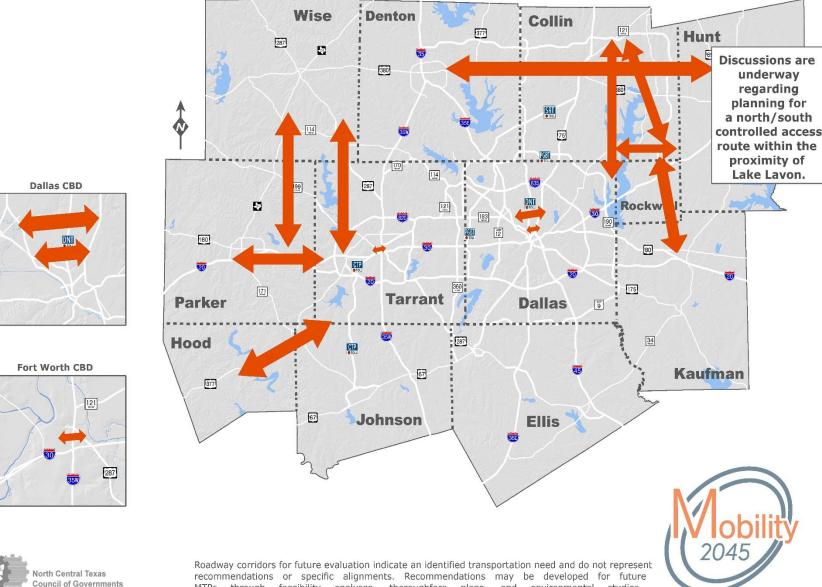
a a 2018

#### 2045 No-Build Levels of Congestion/Delay





#### **Roadway Corridors for Future Evaluation**





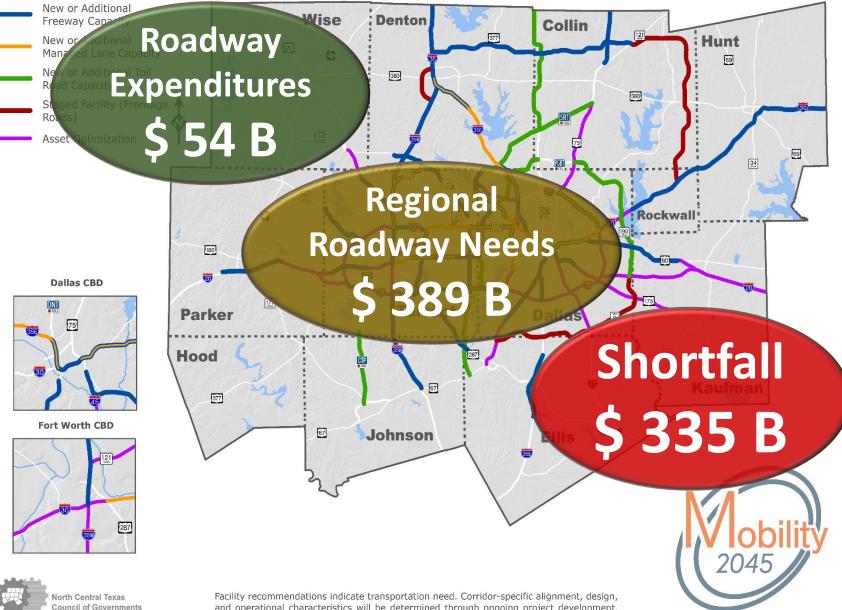






MTPs through feasibility analyses, thoroughfare plans, and environmental studies.

#### **Major Roadway Recommendations**







and operational characteristics will be determined through ongoing project development.

# **Freight Perspective**



#### **NT MOVES Program**

- North Texas
- Multimodal Operations Velocity Efficiency Safety

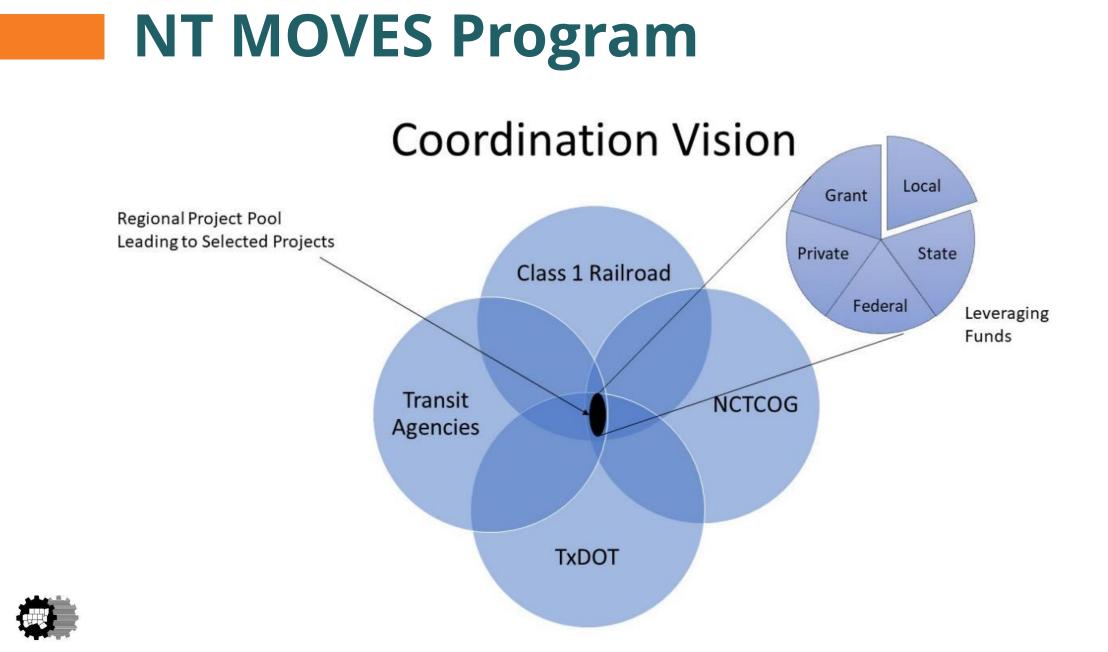
# FREIGHT NORTH TEXAS



### **NT MOVES Program**

- **NT MOVES** is a long-range plan for increasing freight and passenger mobility in Dallas-Fort Worth through Public and Private strategic investment in rail capacity to improve multimodal transportation.
- **NT MOVES** is a regionwide collaborative effort between NCTCOG, Class 1 Railroads, Short Lines, TxDOT, and Passenger Rail Agencies.
- NCTCOG was awarded \$25 Million in BUILD Grant Funds for the TRE Corridor. The project total cost is \$55 Million and includes:
  - Double Track Medical Market Center to Stemmons Freeway and Bridge Improvements
  - Double Track Handley Ederville Road to Precinct Line Road and Bridge Improvements
  - Implement Regional Rail Information System Technology





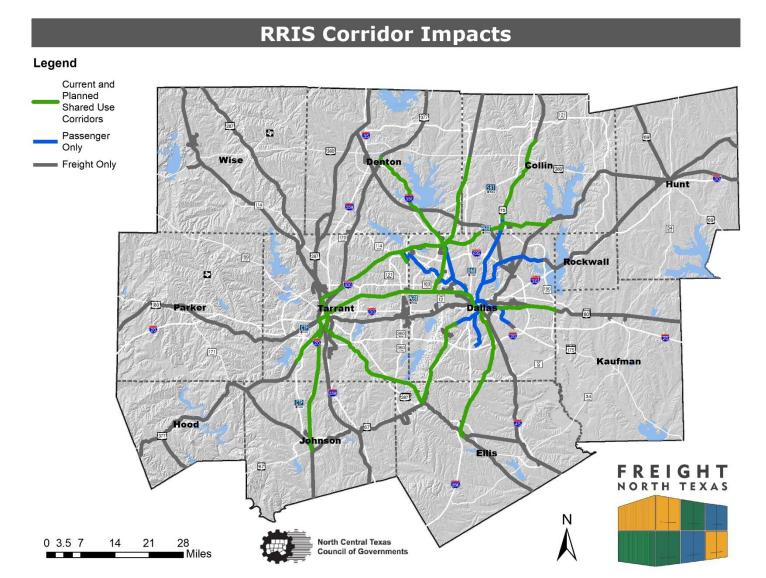
### **NT MOVES Program**

Regionally Significant Rail Projects:

- Madill Subdivision (Irving to Carrolton), Irving
   Wye/Gribble Siding
- Downtown Dallas Canyon Area/CP 217
- IH 35W Corridor
- TRE Double/Triple Tracking Projects
- Regional Rail Information System



#### **Regional Rail Information System**





### **Regional Rail Information System**

#### Objectives of the RRIS are to:

- Address Shared-Use Corridors and Interconnected
   Network Concerns
- Monitor Ongoing Performance Measures
- Improve Capital Project Selection and Facilitate Public-Private Partnerships



### **Regional Rail Information System**

Implementation of RRIS Technology will:

- Assist with Freight and Passenger Train Interactions and Identify Bottlenecks
- Enhance Long-Term Mobility Plan Projects Road and Rail Interactions
- Enable Rail Agencies to Exchange Timely, Accurate, and Actionable Information on Regional Train Movements
- Identify Infrastructure Projects to Increase Rail Capacity Throughout the Region

Currently in the RFP Process and is Planned to be Presented to the NCTCOG Executive Board in March



### **Freight Planning**

Freight North Texas Program products

- The North Central Texas Regional Freight System Inventory, May 2013
  - Recommendations to enhance the safety, mobility, efficiency, and air quality associated with freight
- Other regional freight system plans upcoming in 2021
  - Freight Land Use Analysis
  - Truck Bottleneck Study
  - Freight Economic Analysis
  - NT MOVES Program



### **Freight Planning**

Freight North Texas Program Goals

- Reduce air quality impacts
- Incorporate freight considerations in transportation projects
- Develop and use a sustainable and reliable funding source
- Develop a regional freight database
- Improve railroad safety and reliability



## Discussion







Kevin Feldt Program Manager 817.704.2529 kfeldt@nctcog.org

Freight



Jeff Hathcock Program Manager 617.608.2354 jhathcock@nctcog.org Mike Johnson Senior Planner 817.695.9160 mjohnson@nctcog.org

www.nctcog.org/mobility2045 www.nctcog.org/trans/plan/freight

