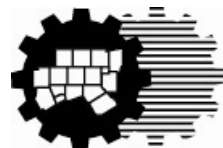


2017-2018 BLUE-GREEN-GREY APPLICATION FOR NEW IDEAS

**Regional Transportation Council
February 8, 2018**

Emily Beckham, Grants & Contracts Supervisor



**North Central Texas
Council of Governments**

Purpose of Initiative

Focus on 3 Elements:

Blue – Water

Green – Environment

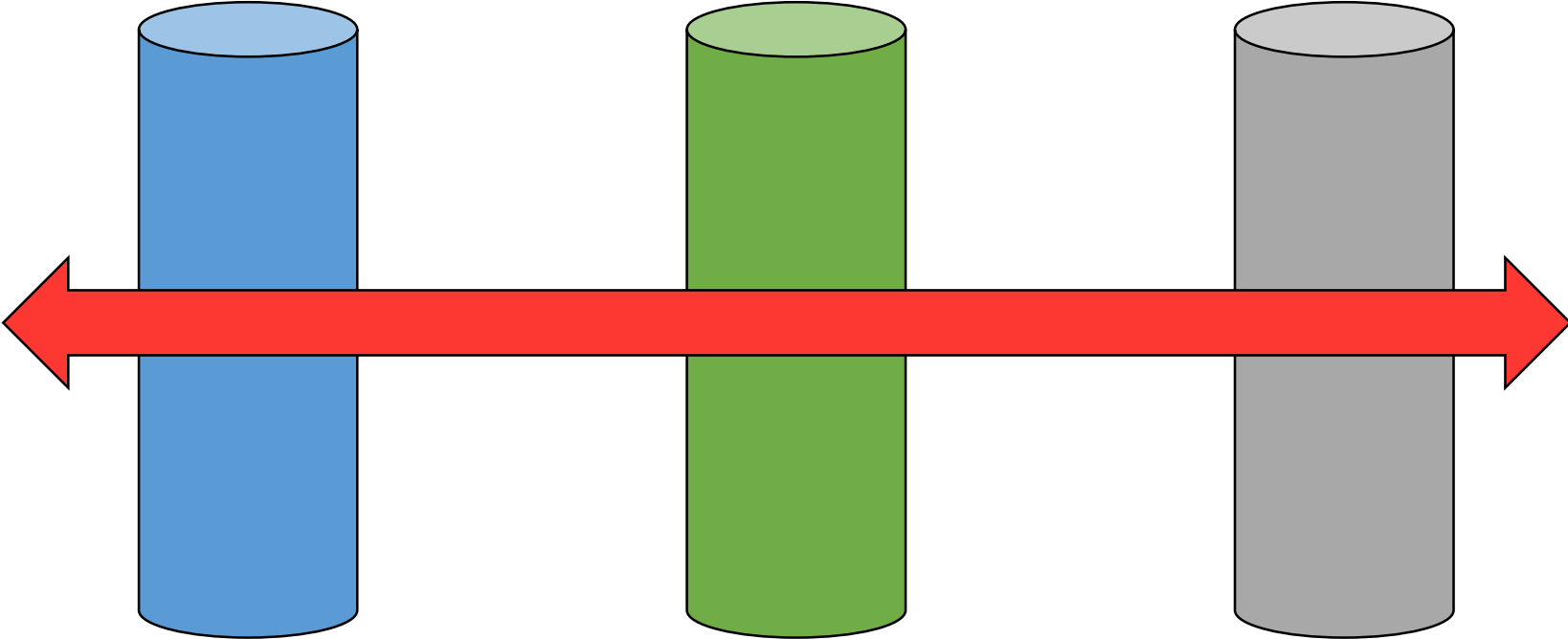
Grey – Transportation Infrastructure

Advance Projects or Programs with Innovative Outcomes

Seed Money to Develop Ideas for Full Funding/Implementation

Leverage Funding Available

Silo Busting



Water (Blue)

Environment
(Green)

Transportation
Infrastructure
(Grey)

Project Eligibility

Eligible Applicants

Universities, Cities, Counties, Transit Authorities,
Private Firms, Non-Profits, and Individuals

Project or Program Should be Located in 12-County
Metropolitan Planning Area

Awarded Projects or Programs Must be Submitted to
Implementing Agency or Fully Implemented within 12
months of Notice to Proceed

Evaluation and Scoring Criteria

| Category | Scoring (points) | Description |
|--|------------------|--|
| Team Qualifications | 10 | Team includes the correct mix of experience and expertise. |
| Impact | 30 | Project has a long-term effect and ability to change future designs. |
| Innovation/Significance | 30 | Project shifts current designs/practices by utilizing new approaches, design, or methodologies. Project addresses three elements (water, environment, transportation infrastructure). Project address an important problem or challenge. |
| Applicability, Adaptation, Transferability, and Practicality | 30 | Project could be used in other communities or settings. Project is realistic. Program is consistent with eligible funding programs and Regional Transportation Council objectives. |

Recommended Projects

| Entity | Project Name | Recommended Funding |
|---------------------------|---|---------------------|
| City of Southlake | Burney Lane Biofiltration System | \$50,000 |
| City of Farmers Branch | Green Bus Stop Design Guidelines | \$30,000 |
| Dallas Area Rapid Transit | Community Gardens Hatcher Station Pilot | \$29,170 |
| Total | | \$109,170 |

Schedule

| Milestone | Estimated Timeframe |
|---|---------------------------------|
| Announced at Irving Summit | August 2017 |
| Application Published | October 4, 2017 |
| Pre-Application Meeting | October 17, 2017 |
| Final Questions Due | October 20, 2017 |
| NCTCOG Responds to Questions | October 23, 2017 |
| Applications Due | November 3, 2017 |
| Review/Scoring of Applications | November – December 2017 |
| STTC Approval of Awards | January 25, 2018 |
| RTC Approval of Awards | February 8, 2018 |
| Executive Board (Agreement Approval) | February 22, 2018 |

Action Requested

Approval of Blue-Green-Grey Awards using Regional Transportation Council Local funds to:

City of Southlake in the amount of \$50,000

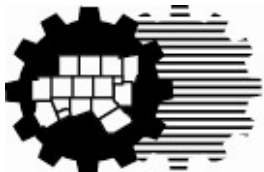
City of Farmers Branch in the amount of \$30,000

Dallas Area Rapid Transit in the amount of \$29,170

Ability to Administratively amend the TIP/STIP and UPWP as appropriate to include Blue-Green-Grey awards.

For More Information

Emily Beckham
Grants & Contracts Supervisor
(817) 608-2308
ebeckham@nctcog.org



**North Central Texas
Council of Governments**

FOLLOW UP TO THE TEXAS TRANSPORTATION COMMISSION MEETING

Michael Morris, P.E.
Director of Transportation

Regional Transportation Council
February 8, 2018





IH 635 EAST PHASE 3: WORK UNDERWAY

Noise Walls

Major Utility Relocation

Right-of-Way Purchase

Skillman/Audelia Funds Already Approved by
Commission

RTC PARTNERSHIP WITH TXDOT

November 2017:

TxDOT Initiative to Advance IH 635 East EIS

December 2017:

TxDOT Approves Non-tolled Elements

January 2018:

RTC Requests Design-build Procurement to
Proceed in Parallel with Funding Gap Closure

Chairman Requests this be Tightened Up Now for
Better Transparency

Mobility 2045 Update and Workshop Follow-Up

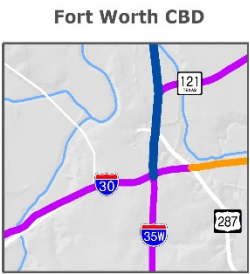
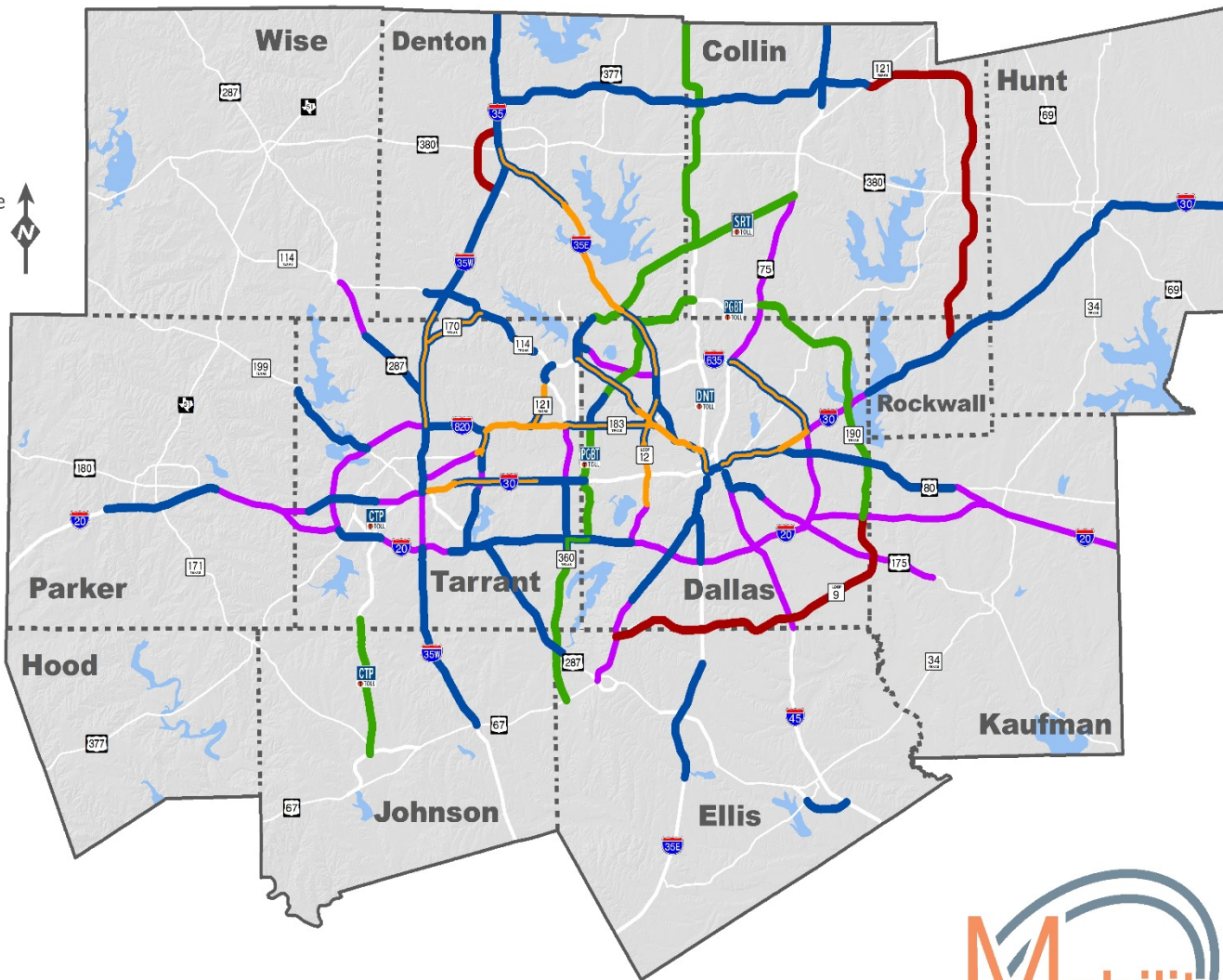
Regional Transportation Council

February 8, 2018



Major Roadway Recommendations

-  New or Additional Freeway Capacity
-  New or Additional Managed Lane Capacity
-  New or Additional Toll Road Capacity
-  Staged Facility (Frontage Roads)
-  Asset Optimization



DRAFT



Transit Corridor Recommendations

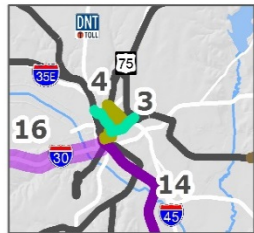
Rail

- 1 - Cotton Be
- 2 - Cotton Belt East Extension
- 3 - Downtown Dallas 2nd Alignment (D2)
- 4 - Dallas Streetcar
- 5 - A-train Extension
- 6 - Frisco Line
- 7 - Mansfield Line
- 8 - McKinney Line
- 9 - Midlothian Line
- 10 - Green Line Extension
- 11 - Cleburne Line
- 12 - Southwest TEX Rail
- 13 - Scyene Line
- 14 - Waxahachie Line

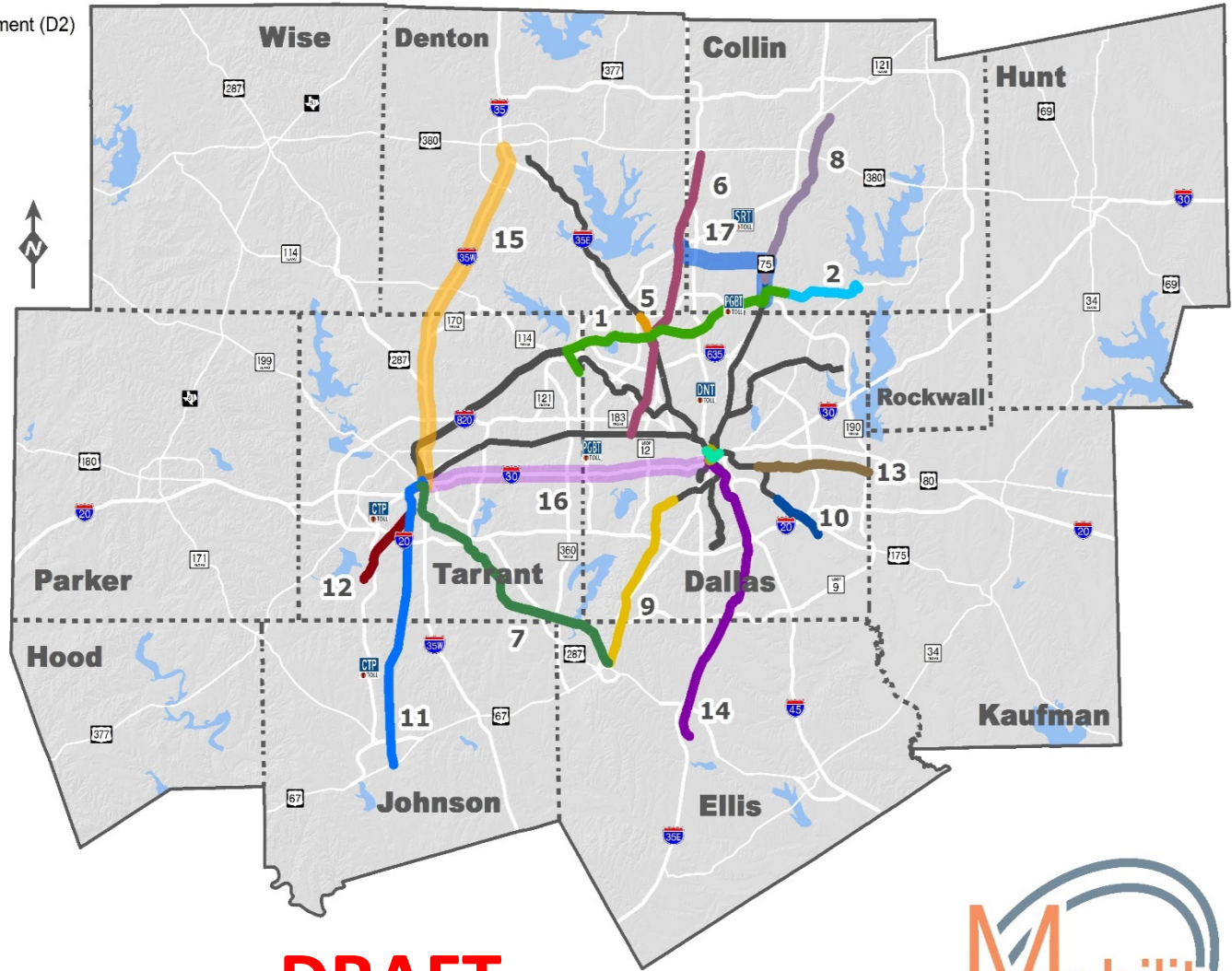
High-Intensity Bus

- 15 - IH 35W Express
- 16 - IH 30 Express
- 17 - Spring Creek Parkway
- Existing Rail

Dallas CBD



Fort Worth CBD



DRAFT

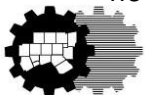


Prioritization and Expenditures

DRAFT

| | | 2040 | 2045 |
|-------------------------------------|--|----------------|-----------------|
| Maximize Existing System | Infrastructure Maintenance Maintain & Operate Existing Facilities Bridge Replacements | \$37.4 | \$ 38.7 |
| | Management and Operations Improve Efficiency & Remove Trips from System Traffic Signals and Bicycle & Pedestrian Improvements | \$7.2 | \$ 9.6 |
| | Growth, Development, and Land Use Strategies More Efficient Land Use & Transportation Balance | \$3.6 | \$ 3.2 |
| Strategic Infrastructure Investment | Rail and Bus Induce Switch to Transit | \$27.2 | \$ 33.4 |
| | HOV/Managed Lanes Increase Auto Occupancy | \$43.4 | \$ 50.6 |
| | Freeways/Tollways and Arterials Additional Roadway Capacity | | |
| Total Expenditures* | | \$118.9 | \$ 135.5 |

* Actual dollars, in billions. Values may not sum due to independent rounding.



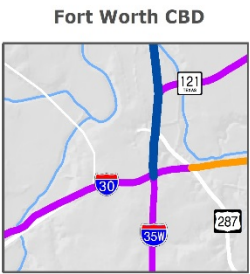
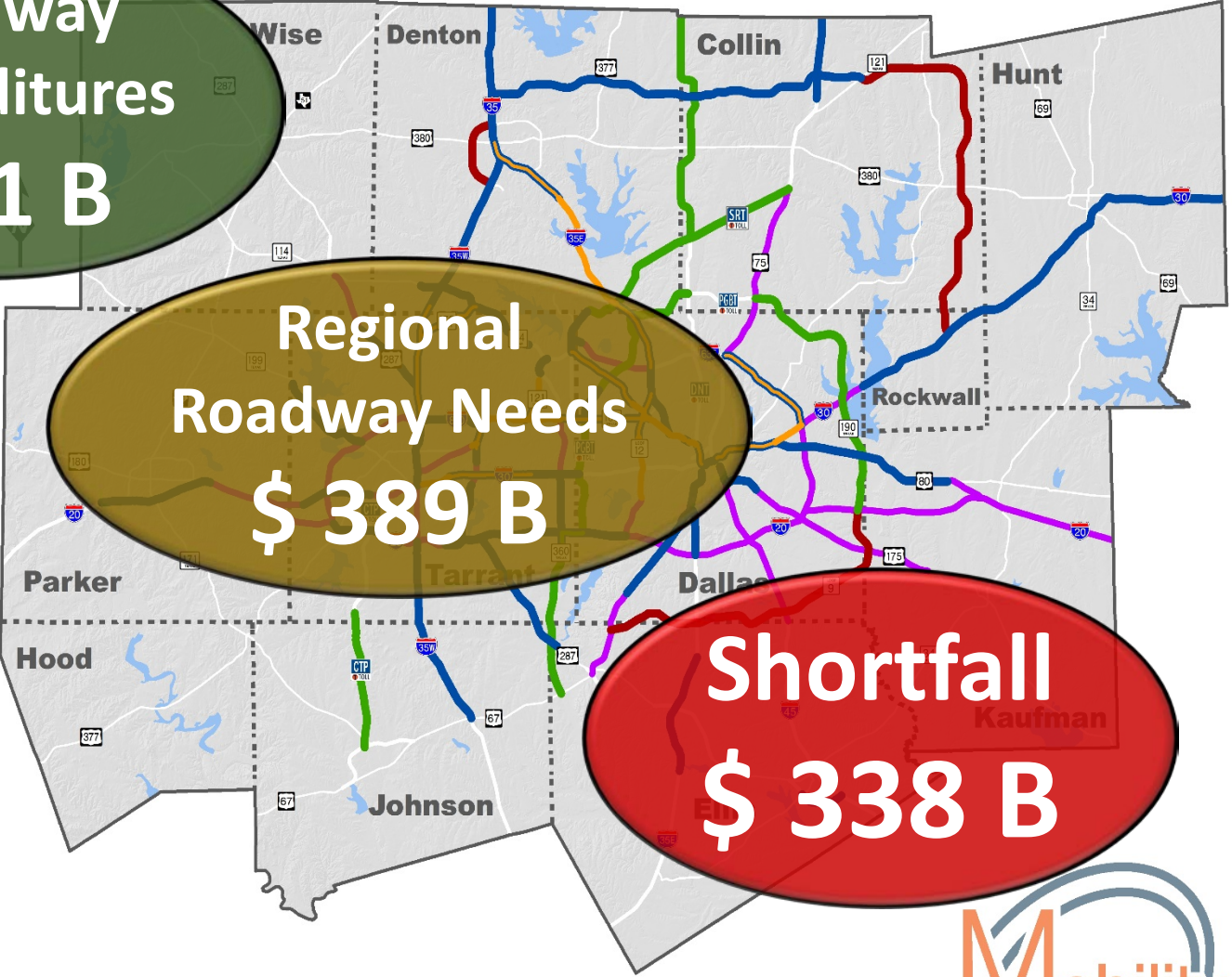
Regional Funding

Roadway Expenditures \$ 51 B

- New or Additional Freeway Capacity
- New or Additional Major Road Capacity
- New or Additional Toll Road Capacity
- Staged Facilities (Fringe Roads)
- Asset Optimization

Regional Roadway Needs \$ 389 B

Shortfall \$ 338 B



DRAFT



Proposed Policy Additions

Technology

Encourage Data Sharing

Encourage Automated Vehicles

Support Infrastructure Maintenance

Encourage Ridesharing

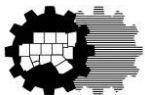
Asset Optimization

Resiliency

Develop Strategies to Address Vulnerabilities

Roadway Maintenance

Support Asset Management Policies



Selected Proposed Policy Additions

General

Support Ability to Modify Mobility Plan for
Emergency Operational Improvements

Technology Lanes

Managed Lanes

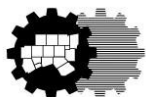
Access Ramps

Auxiliary Lanes









Managed Toll Lane System

Support Implementation within a Tolled
Managed Lane Policy Area



Toll Managed Lane System Policy Boundary

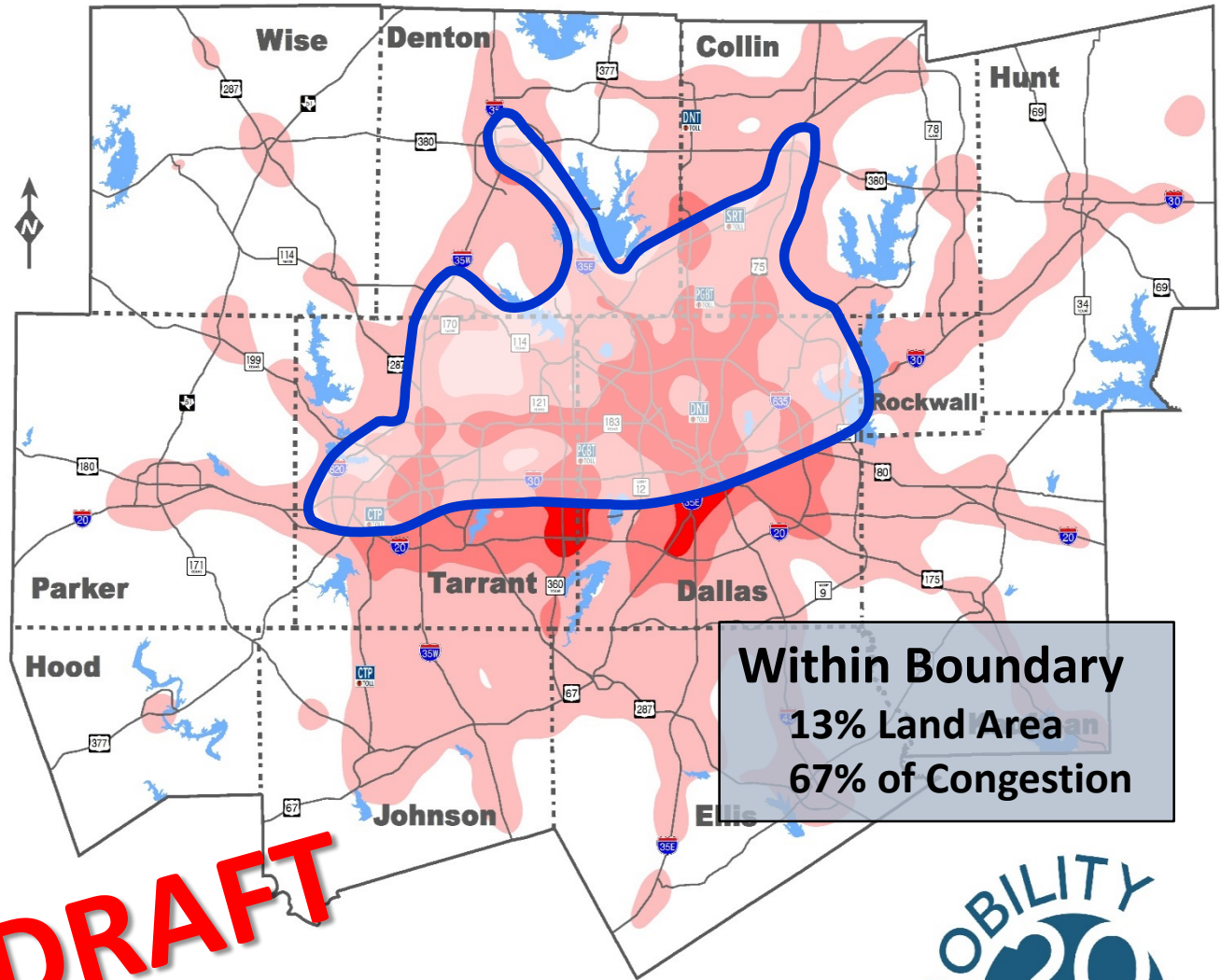
Congestion Index*

-  No Congestion
-  Light Congestion
-  Moderate Congestion
-  Severe Congestion
-  Major Roads
-  Toll/Managed Lane Policy Boundary

Dallas CBD



Fort Worth CBD



DRAFT



Cost of Congestion/Delay: \$25.3 billion

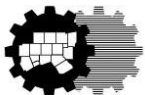
*Congestion Index is based on a percent increase in travel time.

Toll Facility Effect

Computer Simulation Analysis






Average Weekday in 2040

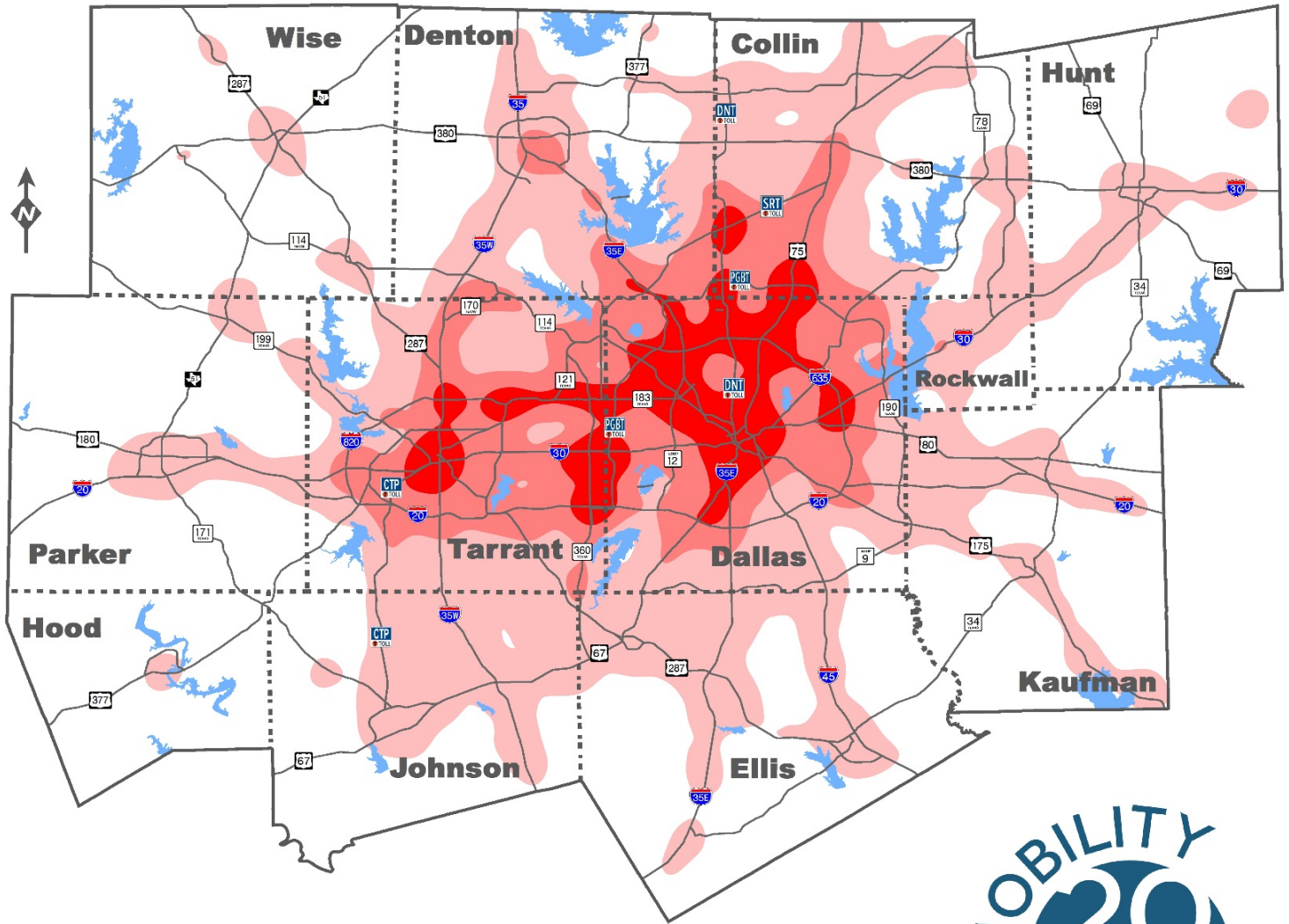
| Performance Measure | Toll Facility Presence | | Change |
|------------------------------|------------------------|------------|--------|
| | With | Without | |
| Vehicle Hours of Travel | 9,734,528 | 17,451,493 | 79% |
| Average Speed (mph) | 32.8 | 18.5 | -44% |
| Vehicle Hours Spent in Delay | 3,587,038 | 10,979,607 | 206% |



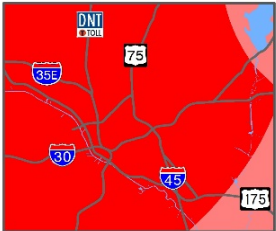
2040 Levels of Congestion/Delay

Congestion Index*

-  No Congestion
-  Light Congestion
-  Moderate Congestion
-  Severe Congestion
-  Major Roads



Dallas CBD



Fort Worth CBD

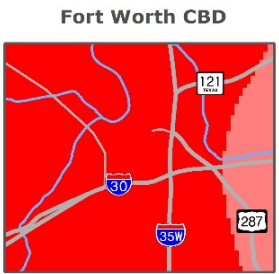
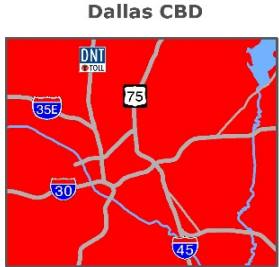
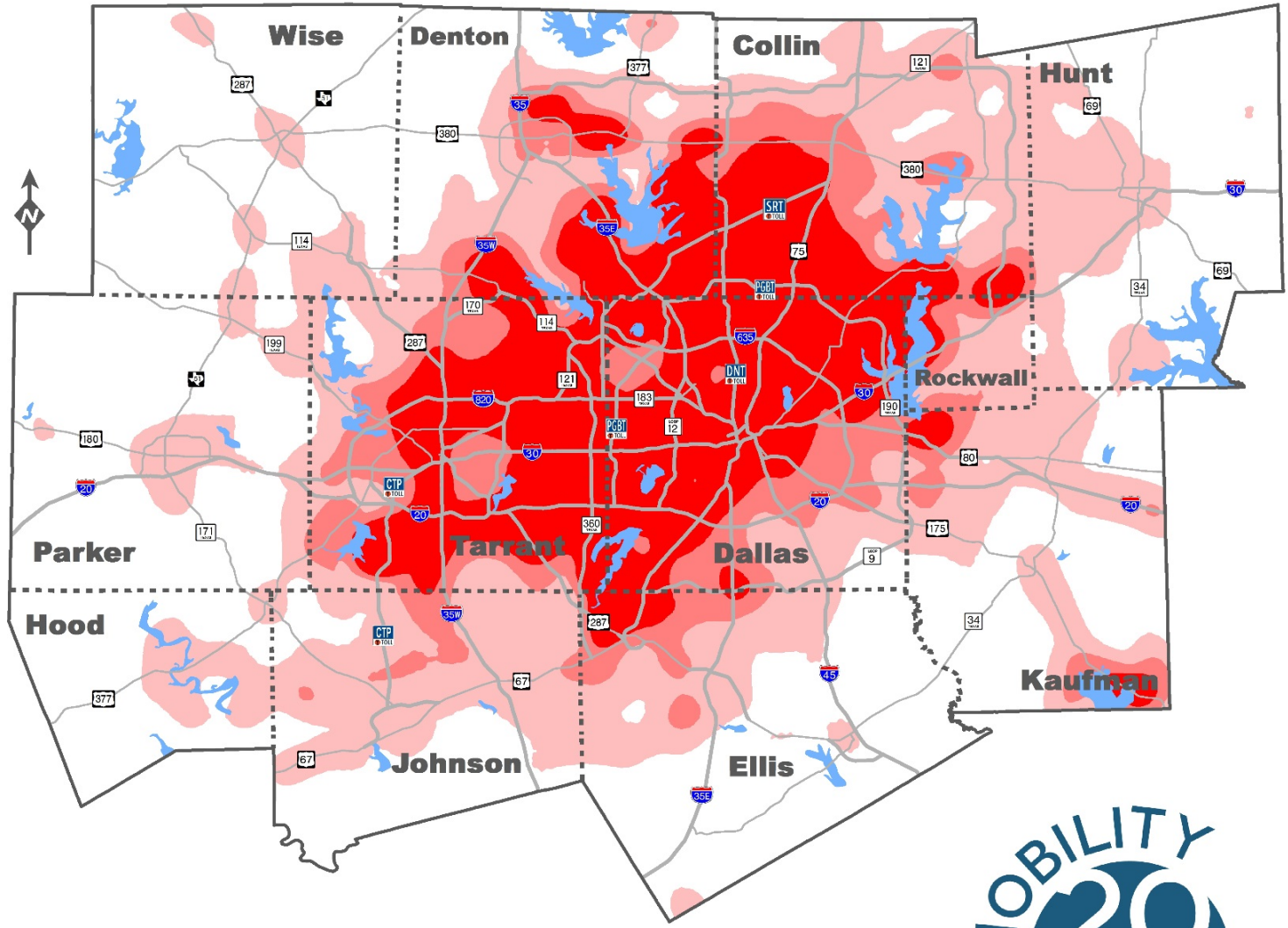


Cost of Congestion/Delay: \$25.3 billion

*Congestion Index is based on a percent increase in travel time.

2040 Levels of Congestion/Delay No Tolled Facilities

Congestion Index



Cost of Congestion/Delay: \$77.4 billion

Congestion Index is based on a percent increase in travel time.

Tolled Managed Lanes

Purpose: Manage Congestion

Increase Mobility

Guaranteed Speeds in Tolled Lanes

Speeds 50% Faster for Non-Tolled Lanes

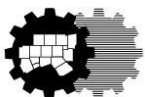
Speeds 75% Faster for Tolled Lanes

Project Funding Supplement

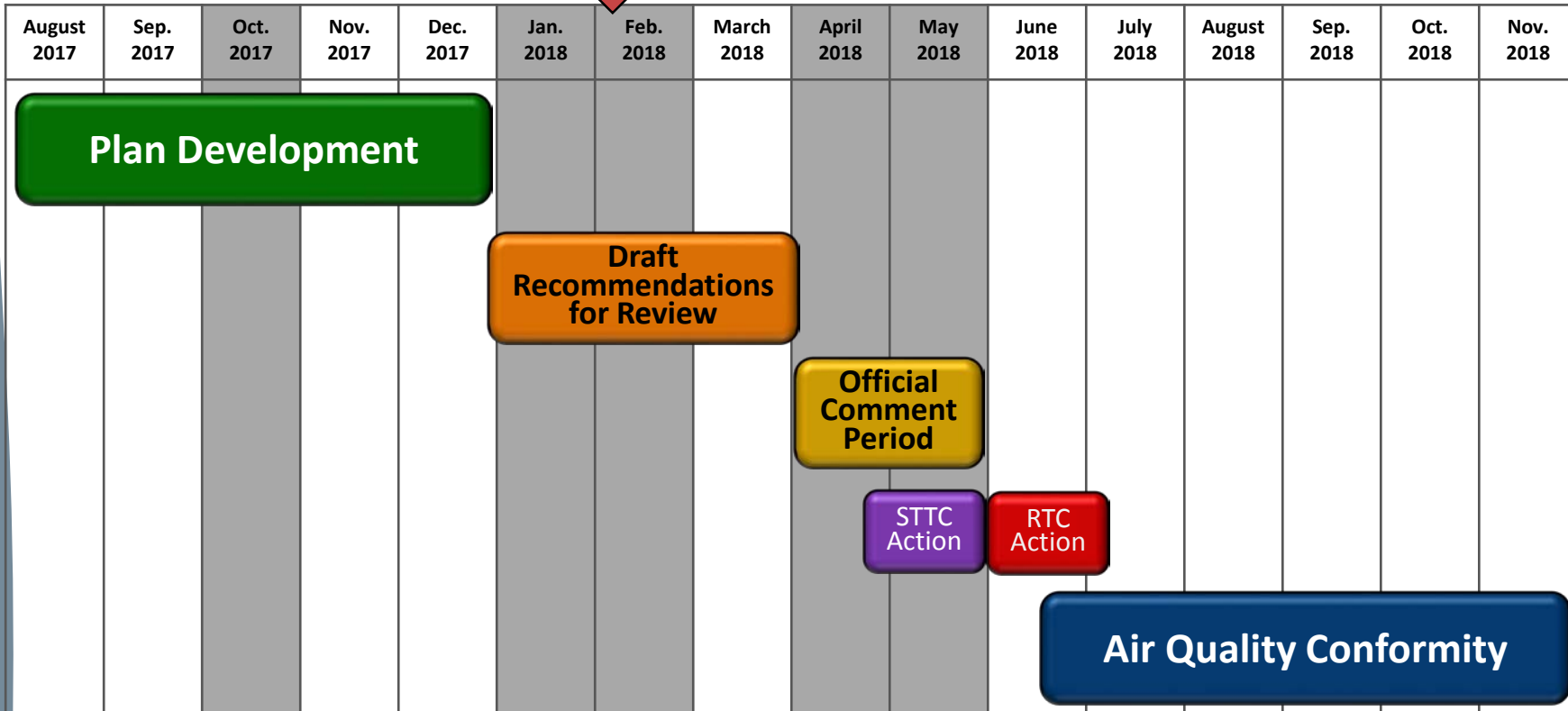
Allow Private Sector Participation

Users Average About \$10 per Month

Drivers Have Choice and Predictability

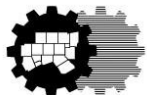


Mobility 2045 Schedule



Notes:

- Public meetings held during highlighted months.
- Regional Transportation Council action on Mobility 2045 Plan scheduled for June 14, 2018.



Mobility 2045 Next Steps

Revise Recommendations

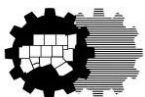
RTC Update in March

Public Comment Period Begins in April

Review and Action

STTC – May 25

RTC – June 14



Questions?

Dan Lamers

Senior Program Manager

dlamers@nctcog.org

(817) 695-9263

Sarah Chadderdon

Program Manager

schadderdon@nctcog.org

(817) 695-9180

Kevin Feldt

Program Manager

kfeldt@nctcog.org

(817) 704-2529

www.nctcog.org/mobility2045

