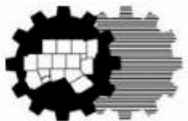


2021-2024 TRANSPORTATION IMPROVEMENT PROGRAM DRAFT LISTINGS

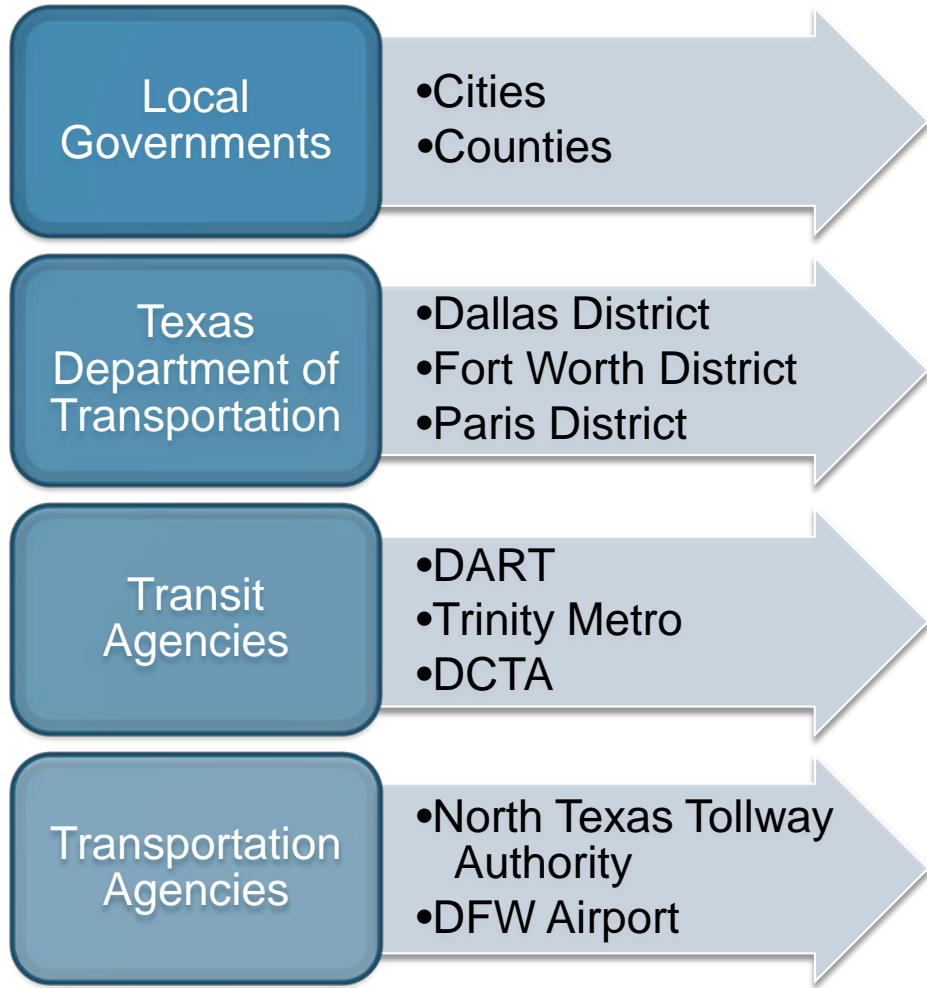
Regional Transportation Council

June 11, 2020



North Central Texas
Council of Governments
Transportation Department

TRANSPORTATION FUNDING AND PROJECT IMPLEMENTATION: A COOPERATIVE EFFORT



2021-2024 Transportation Improvement Program for North Central Texas

DEVELOPMENT PROCESS

- Review existing projects and gather information on additional locally funded projects
- Make needed revisions to existing project schedules, funding, and/or scope
- Develop revised project listings
- Financially constrain project programming based on estimated future revenues
- Conduct Mobility Plan and Air Quality conformity review
- Solicit public and Committee/Council input
- **Finalize project listings and submit to the Texas Department of Transportation (TxDOT) and Federal Highway Administration (FHWA)**

SCOPE OF PROGRAMMING

- \$13.62 Billion in the 2021-2024 TIP (Roadway and Transit)
 - \$6.78 Billion in Federal Commitments
 - \$1.96 Billion in State Commitments
 - \$0.19 Billion in Regional Commitments
 - \$1.46 Billion in Local Commitments
 - \$3.23 Billion in Transit Commitments
- 962 Active Projects (Roadway and Transit)
- 64 Implementing Agencies (Roadway and Transit)

TIMELINE

May – November 2019	Conducted meetings with implementing agencies
August 2019 – February 2020	Data entry, develop listing, and financial constraint
February 2020	Present draft listings to STTC for Information
March 2020	Present draft listings to RTC for Information
March 2020	Conduct public meetings
April 9, 2020	Deadline for providing comments on draft listings
May 2020	Present final listings to STTC for Action
June 2020	Present final listings to RTC for Action
	Executive Board endorsement
July 2020	Transmit final document to TxDOT
September 2020	Anticipated approval of the STIP by Texas Transportation Commission
October/November 2020	Anticipated federal approval of the STIP

REQUESTED ACTION

- RTC approval of:
 - The projects and project changes shown in the 2021-2024 TIP project listings
 - Only projects in FY 2021-2024 will be included in the new TIP
 - Projects in FY 2025+ will be included in Appendix D to allow project development activities to continue
 - Amending the Unified Planning Work Program (UPWP) and other planning/administrative documents to incorporate TIP-related changes
 - Submitting the final 2021-2024 TIP document to TxDOT for inclusion in the Statewide Transportation Improvement Program (STIP)
 - The resolution adopting the 2021-2024 TIP which will be transmitted to federal, state, and local impacted agencies

QUESTIONS/COMMENTS

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SOUTHEAST DALLAS COUNTY FUNDING PARTNERSHIPS

REGIONAL TRANSPORTATION COUNCIL

June 11, 2020

PROPOSED PARTNERSHIP WITH BALCH SPRINGS

- The City of Balch Springs has requested assistance with improvements to Hickory Tree Road from Elam Road to Lake June Road.
- Staff proposes that the Regional Transportation Council (RTC) fund the design of the project with \$500,000 of Surface Transportation Block Grant (STBG) funds. NCTCOG staff will lead the initial work and use RTC Transportation Development Credits.
- North Central Texas Council of Governments (NCTCOG) staff would work with City staff to develop a project that would mitigate congestion but is also context-sensitive and facilitating future economic growth.
- This partnership would continue the RTC's investments in projects that would promote economic development and community revitalization, while also addressing a mobility issue.

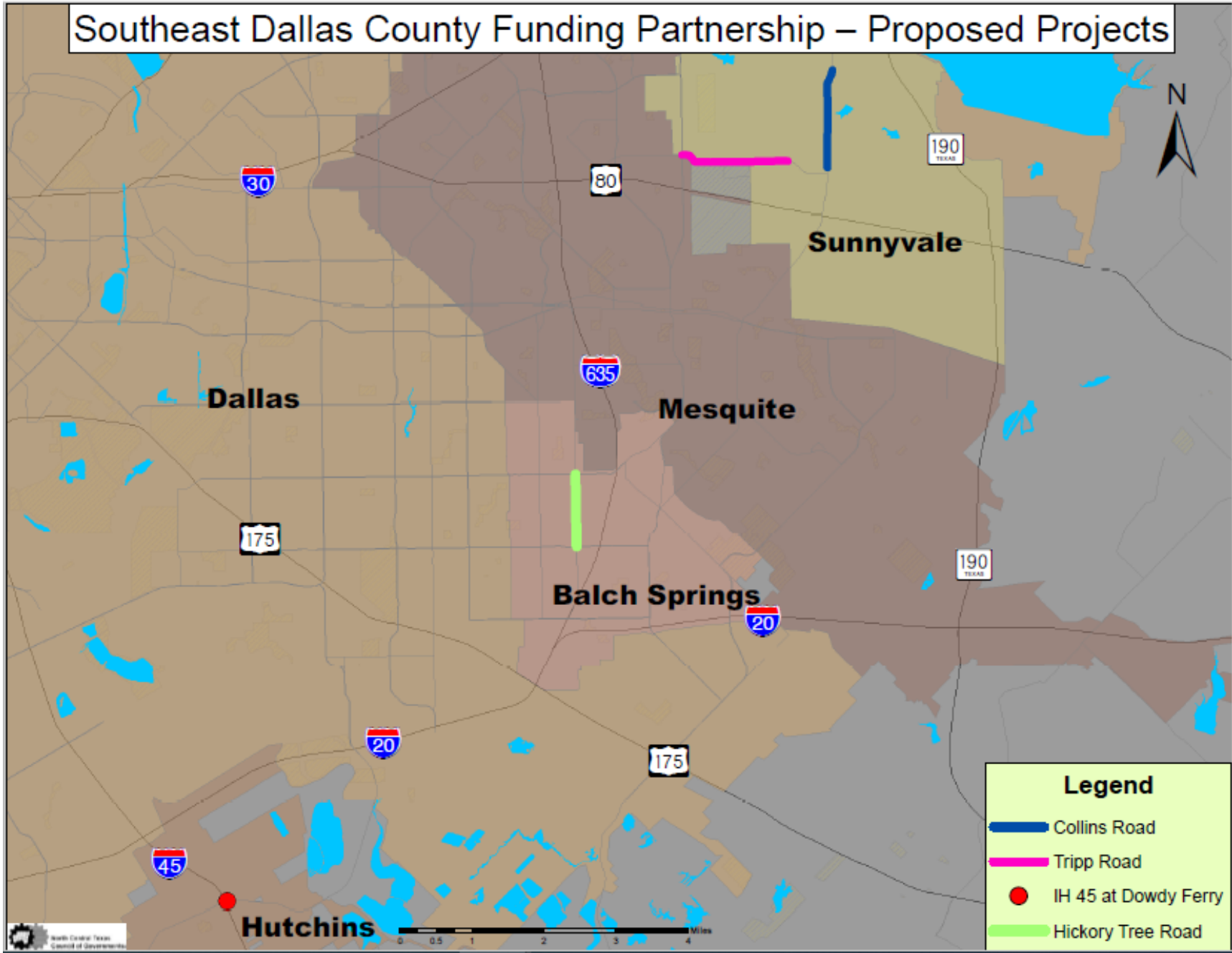
PROPOSED PARTNERSHIP WITH SUNNYVALE

- The Town of Sunnyvale has requested assistance on two projects:
 - Collins Road from Tripp Road to Town East Blvd
 - \$450,000 in Regional Toll Revenue (RTR) funding for engineering
 - Scope: Reconstruct from 2 to 4 lane divided urban
 - Tripp Road from The Falls Drive to Belt Line Road (COVID-19 #004)
 - \$800,000 in RTR funding for construction
 - Scope: Reconstruct 2 lane to 2 lane rural roadway
- This partnership aids in community revitalization.
- Major partner in the President George Bush Extension

PROPOSED PARTNERSHIP WITH HUTCHINS

- The City of Hutchins has requested assistance for improvements at the intersection of IH 45 and Dowdy Ferry Road (COVID-19 #003).
- This area is a major freight hub and this project would improve mobility.
- Staff proposes to fund this project through a partnership with the TxDOT Dallas District.
- The RTC would fund the project with \$3,700,000 of Congestion Mitigation and Air Quality Improvement Program (CMAQ) funds (includes a State match from TxDOT) with TxDOT funding the design of the project.

Southeast Dallas County Funding Partnership – Proposed Projects



ACTION REQUESTED

- RTC approval of:
 - The partnerships outlined in this presentation
 - Administratively amending the Transportation Improvement Program (TIP)/Statewide Transportation Improvement Program (STIP) and other administrative/planning documents as needed

QUESTIONS?

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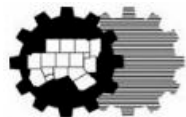
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2021 UNIFIED TRANSPORTATION PROGRAM (UTP) AND REGIONAL 10-YEAR PLAN UPDATE

**Regional Transportation Council
June 11, 2020**



**North Central Texas
Council of Governments
Transportation Department**

BACKGROUND

- Texas House Bill (HB) 20 requires that Metropolitan Planning Organizations (MPO) develop 10-Year Plans using performance-based planning and project selection methods
- Includes projects funded with Category 2 (MPO selected), Category 4 (TxDOT District selected), and Category 12 (Texas Transportation Commission selected)
- Regional 10-Year Plan was approved by the Regional Transportation Council (RTC) in December 2016
- Series of updates were made in August 2017, August 2018, and September 2019 in conjunction with the development of TxDOT's UTP

ACTIVITIES UNDERTAKEN SINCE LAST UPDATE

- Texas Department of Transportation (TxDOT) staff have begun developing the 2021 UTP.
- NCTCOG staff have coordinated with the TxDOT Districts regarding project updates (e.g., costs/funding, environmental clearance and let dates) and potential new projects.
- Projects were scored by NCTCOG staff.
- To satisfy a January 31, 2020 deadline set forth by TxDOT, NCTCOG staff drafted a project listing that included project scores, project revisions, and potential new projects.
- The list was refined in February and March 2020 as a result of funding targets being received after the January 31st deadline.

UPDATE TO THE 2020 UTP

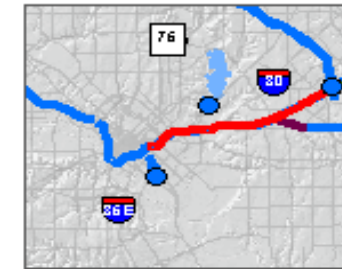
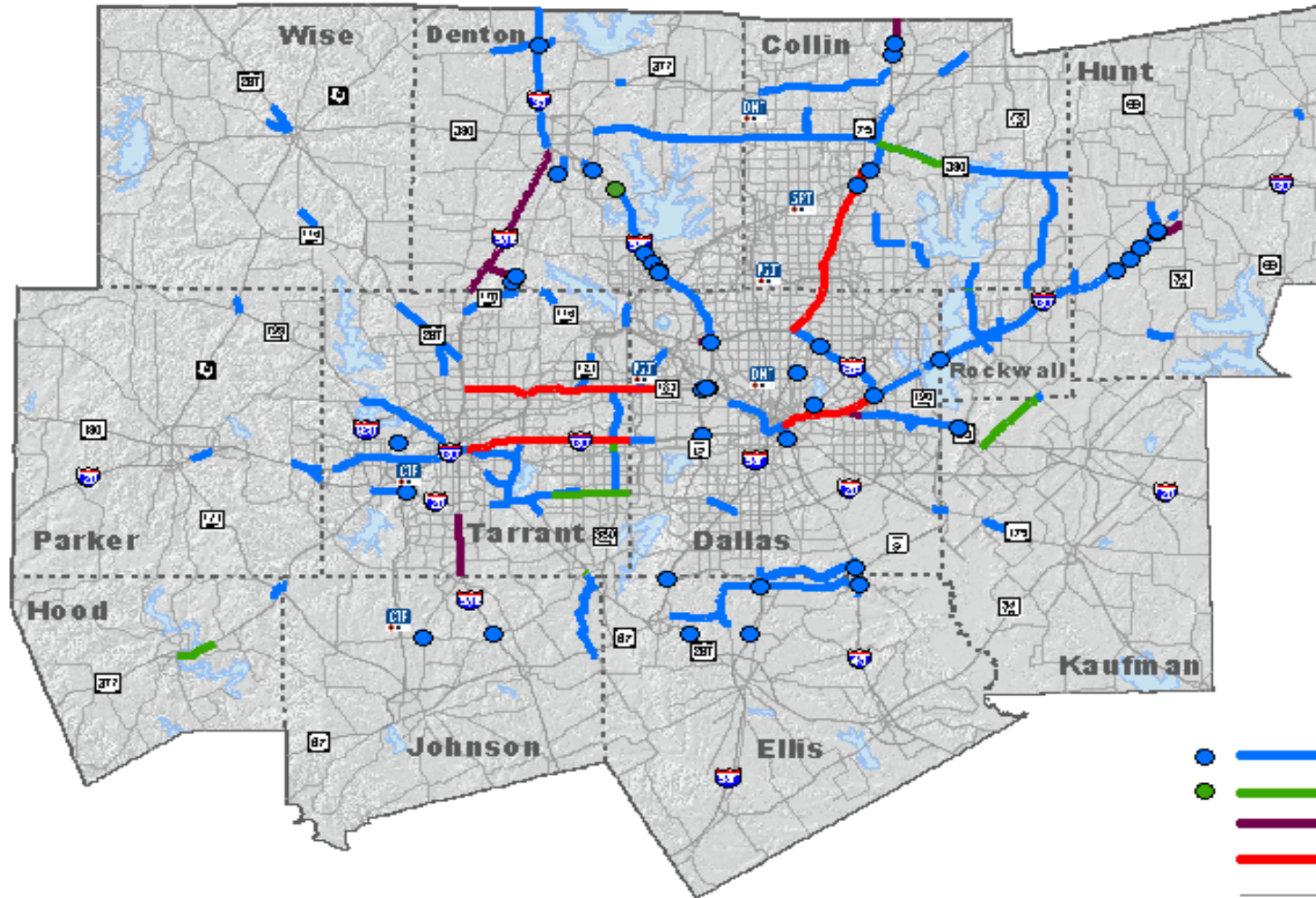
- In addition to developing the 2021 UTP, an update to the 2020 UTP was approved April 30, 2020 by the TTC.
- This update is being made to fund the IH 35 project in Austin.
- In order to fully fund that project, the TTC programmed Category 12 funds that otherwise could have been used for projects in other regions of the State, including Dallas-Fort Worth.
- This action, combined with lower than anticipated revenues, has led to a decline in the amount of funding coming to the region via the UTP.
- Existing projects are generally not impacted, but projects with cost overruns may not be able to be addressed and new projects were largely not able to be added.

10-YEAR PLAN UPDATE

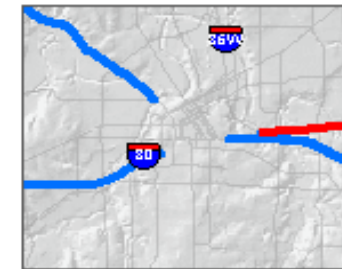
- The same project scoring process used for the 2019 10-Year Plan Update was used this year.
- Additional projects were submitted by TxDOT for inclusion in the Corridor Preservation Program. This program consists of projects that may be added to the 10-Year Plan in the future and need a preliminary commitment in order to commence pre-construction activities, like right-of-way acquisition.
- Some projects that were previously part of this program are being proposed for construction funding through this latest update.

Dallas-Fort Worth Regional 10 Year Plan Projects

FY 2017 - FY 2030



Dallas CBD

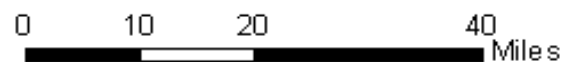


Fort Worth CBD

DRAFT

Legend

- Previously Approved 10 Year Plan Projects
- Proposed New Category 2 and 4 Projects
- Proposed New Category 1,2 Projects
- Proposed Tolled Projects
- Mobility 2045 Roadways
- County Boundary
- Lakes



North Central Texas
Council of Governments

Date: 5/26/2020

PRINCIPLES FOR THE DEVELOPMENT OF THE REGIONAL 10-YEAR PLAN

- Project should be included in Mobility 2045
- Focus on system versus new, stand-alone projects
- Fully fund existing projects before funding new projects
- Ensure equity of county allocations
- Reintroduce toll lanes/toll managed lanes on selected corridors
- Re-fund affected projects, when possible
- Ensure all RTC projects are approved in 2021 UTP (including “placeholders”)
- Projects must be scored and should have a score sufficient to qualify for funding

NEXT STEPS

- Finalize project selection/update efforts in coordination with TxDOT staff
- Await decisions by the TTC on Category 12 funding
- Bring back any project changes to the STTC and RTC once the TTC weighs in and approves the UTP

TIMELINE

MEETING/TASK	DATE
Initial draft list due to TxDOT	January 31, 2020
Funding Targets Received	February 2020
TxDOT Public Meeting for and Approval of 2020 UTP Update	April 2020
NCTCOG Public Meeting	May 2020
STTC Action	May 22, 2020
RTC Action	June 11, 2020
TxDOT Public Meetings for 2021 UTP	June/July 2020
Anticipated TTC Approval of 2021 UTP	August 27, 2020

REQUESTED ACTION

- RTC approval of:
 - The Regional 10-Year Plan project listing
 - Administratively amending the Transportation Improvement Program (TIP)/Statewide Transportation Improvement Program (STIP and amending other planning/administrative documents to incorporate these changes.

CONTACT/QUESTIONS?

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EFFECT OF COVID-19 RESTRICTIONS ON TRANSPORTATION AND ECONOMIC OPPORTUNITIES

Regional Transportation Council

June 11, 2020

Michael Morris, P.E.

Director of Transportation

COVID-19 IMPACT ON STATE REVENUES

- State sales tax revenue — \$2.61 billion, down 13.2 percent from May 2019
- Motor vehicle sales and rental taxes — \$265 million, down 38 percent from May 2019
- Motor fuel taxes — \$221 million, down 30 percent from May 2019 and the steepest drop since 1989
- Oil production tax — \$90 million, the lowest monthly amount since July 2010, down 75 percent from May 2019 and the steepest drop since 1988
- Natural gas production tax — \$31 million, down 76 percent from May 2019

ENGINEERING FOR THE NORTH TARRANT EXPRESS (NTE)/SH 183 PROJECT

- Cintra is coordinating with TxDOT to implement this project, engineering is anticipated to begin in approximately six months.
- In order to continue advancing this project, staff proposes to provided a \$3,000,000 financial backstop in order to expedite engineering now. It is anticipated the financial backstop will use RTC Local funds.
- Cintra will perform the design work under current TxDOT agreement. Once the project is initiated by TxDOT, RTC will be released of its financial commitment.

INCOMING PRIVATE SECTOR REVENUE FOR NORTH TARRANT EXPRESS (NTE)/SH 183

- Per prior RTC direction, staff continues to work with TxDOT and private sector partners to complete additional phases of the NTE and other public/private partnership projects.
- Recent projections indicate that general purpose and managed lane capacity improvements are anticipated to be triggered in mid-2022 with an open to traffic date of June 2024.
- The private sector is currently coordinating with TxDOT to advance the first item.
- The private sector partner will be paying for these improvements in these amounts:

Capacity Improvements	\$ in Millions	Notes
SH 183/NTE Segment 1 (from IH 35W/IH 820 Interchange to West of IH 820/SH 121 interchange) & 2W (from E. of Bedford/Eules Rd to E. of Westpark Way) Widening	\$162	Add 1 general purpose lane in NTE Segment 1 and 1 managed lane in NTE Segment 2W
Build 2+2 managed lanes from Reliance Parkway to SH 161 (former Segment 2E)	\$860	This 5.3 mile section would be built and operated by private sector as an extension of the current facility
Build 2+2 managed lane from SH 161 to Story Rd	\$270	Funding Cintra would pay to TxDOT to lane balance east of SH 161 (2 miles)

\$1,292

CANDIDATE PROJECTS

High Speed Rail: Dallas to Houston (FEIS Released May/June)

High Speed Rail: Dallas to Fort Worth

Hyperloop Certification Center (Governor's Letter Anticipated)

Autonomous Transit (GM, Midtown)

Freeway Induction Loops

State Highway 183 (Section 2E+)

Y Connector (FEIS June 4 – 22, 2020)

COVID-19 #00X Program

INVENTORY OF COVID-19 PROJECTS TO DATE¹

- COVID-19 #001: Loop 9 Cost Overrun - \$17.3M, STBG (June 2020 RTC Agenda Item 5)
- COVID-19 #002: IH 35E at Frankford Rd - \$5M, STBG (June 2020 RTC Agenda Item 5)
- COVID-19 #003: IH 45 at Dowdy Ferry Rd - \$3.7M, CMAQ (June 2020 RTC Agenda Item 6)
- COVID-19 #004: Tripp Rd - \$800K, RTR (June 2020 RTC Agenda Item 6)

Notes:

1 Anticipate adding projects to inventory in 2020 and 2021

NHL STANLEY CUP (COMPETING AGAINST 10 CITIES)

TWO SELECTIONS

12 Teams at Dallas Omni (Lamar Street)

Games at American Airlines Center

Practice Throughout Region

Transportation Need (RTC Local Funds)

Events August and September

Announcement: Week of June 22, 2020

History: Stanley Cup and Winter Classic in Same Season

Proposed Staff Action: By June 15, 2020

STTC Endorsement: June 26, 2020

RTC Ratification: July 9, 2020

Executive Board Endorsement

AIR QUALITY INTERIM FUNDING (CASH FLOW)

\$4M Funds Anticipated September 2, 2020 (STBG)

Interim Funds \$300,000

Staff Action

STTC Endorsement: June 26, 2020

RTC Ratification: July 9, 2020



High- and Higher-Speed Rail Discussion

Regional Transportation Council

June 11, 2020



High-Speed Technology Terminology

FRA Terminology	Speed	Shared Track with Freight?	Grade Separation Required?	NCTCOG Mobility Plan Terminology	Common Terminology Equivalent
Conventional Passenger Rail (local rail and Amtrak)	<79 MPH	Yes	No	Regional Rail Intercity Rail	Low
Higher-Speed Rail	79–110 MPH	Yes (primarily shared track)	No (advanced protection required)	At-Grade	Medium
High-Speed Rail – Regional	110–150 MPH	Minimal	Yes	Grade Separated	Medium-High
High-Speed Rail – Express	>150 MPH	No	Yes	Grade Separated	High

Source: Federal Railroad Administration and NCTCOG

Two Primary DFW High-Speed Technologies To Be Analyzed

Characteristic	High-Speed Rail	Hyperloop
Top Speed	~220 MPH	~700 MPH
Headway	30 minutes	~2 minutes
Person Capacity	2,400/hour/direction ¹	16,000/hour/direction ²
Operating Style	Passenger Train	Single Lane Freeway
Cargo	No	Yes

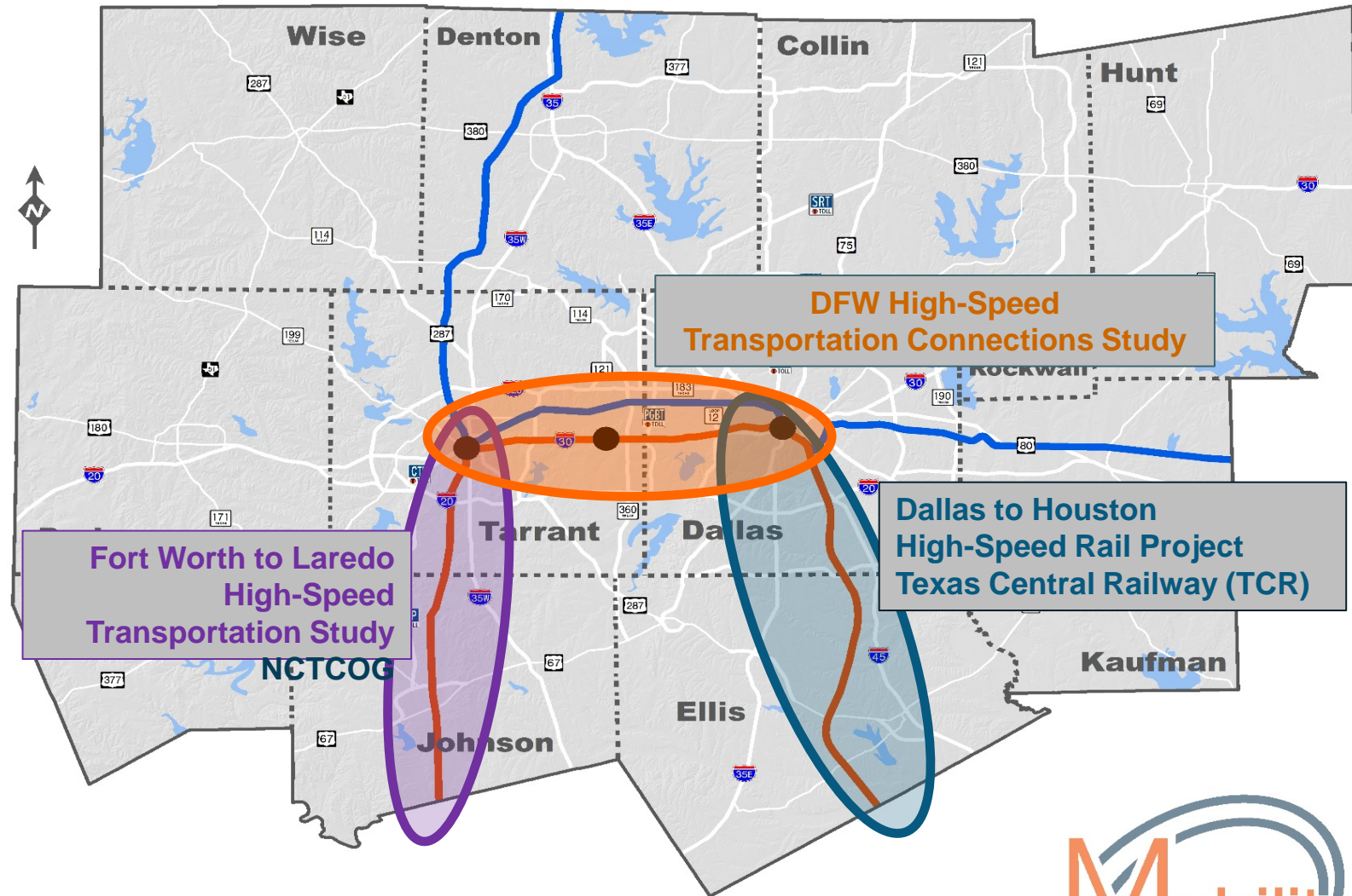
Notes: ¹ Estimate based on NCTCOG calculations combining stated headway and train set capacity from TCR

² Estimate from Virgin Hyperloop One



DFW High-Transportation Projects

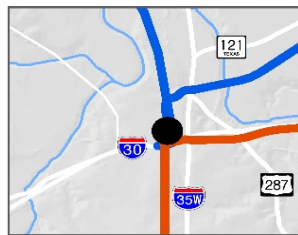
- At-Grade
- Grade Separated
- Stations



Dallas CBD



Fort Worth CBD



Fort Worth to Laredo
High-Speed
Transportation Study
NCTCOG

DFW High-Speed
Transportation Connections Study

Dallas to Houston
High-Speed Rail Project
Texas Central Railway (TCR)



Corridor-specific alignment, design, and operational characteristics for the intercity passenger, regional passenger, and freight rail systems will be determined through capacity evaluation and ongoing project development. Refined rail forecasts are necessary to determine technology and alignment in future rail corridors.



Fort Worth to Laredo

“Bridge” to Future Study

Review Tier I Recommendations

Corridors

Technology

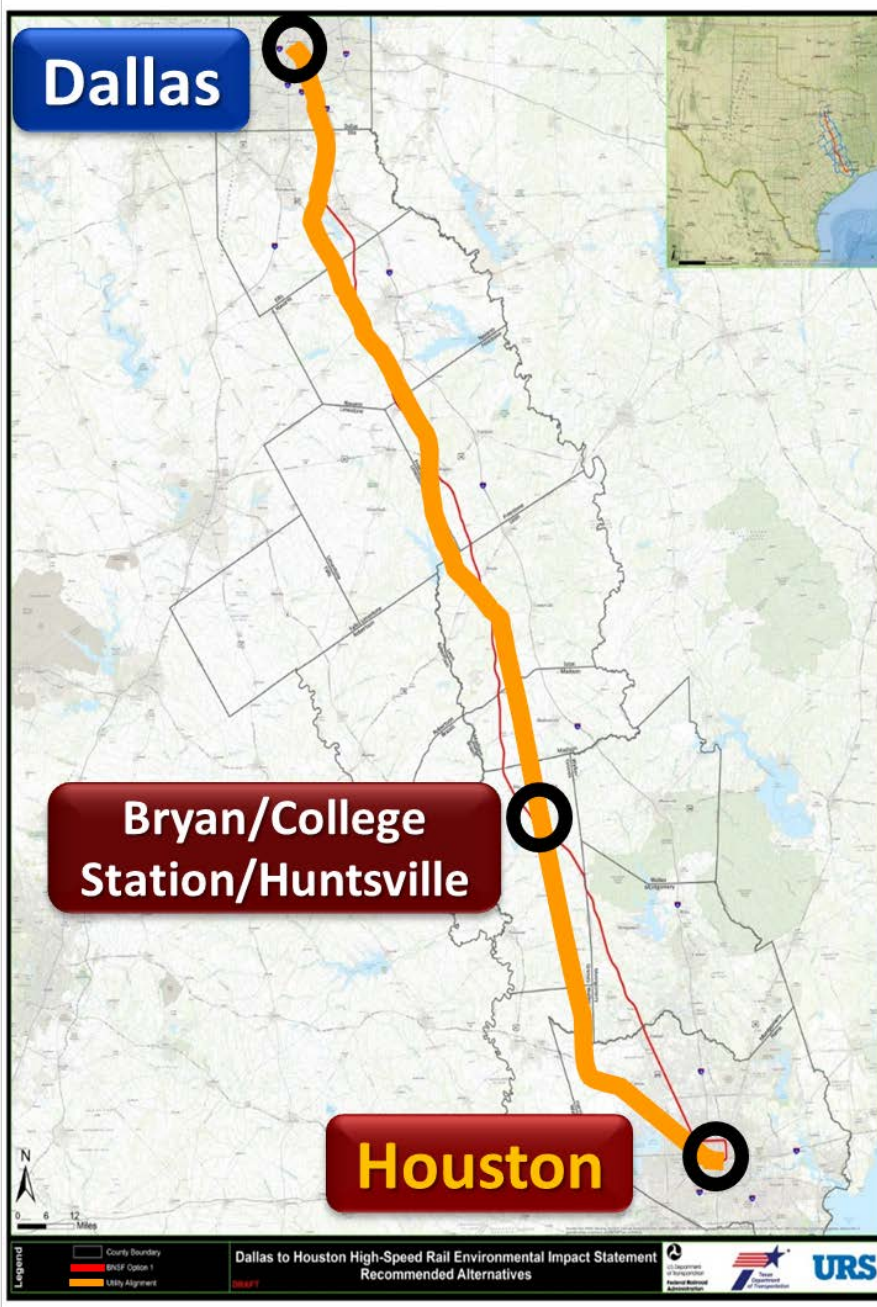
Modes of Travel

Final Report Expected March 2020



Dallas to Houston

Building the Project Every Day
Working with Design/Build Partner
Preparation for Construction Activity
Petition for Rulemaking Granted by FRA
Rule of Particular Applicability
Final Rule Expected in 2020
Environmental Impact Statement
Record of Decision Expected 3Q 2020

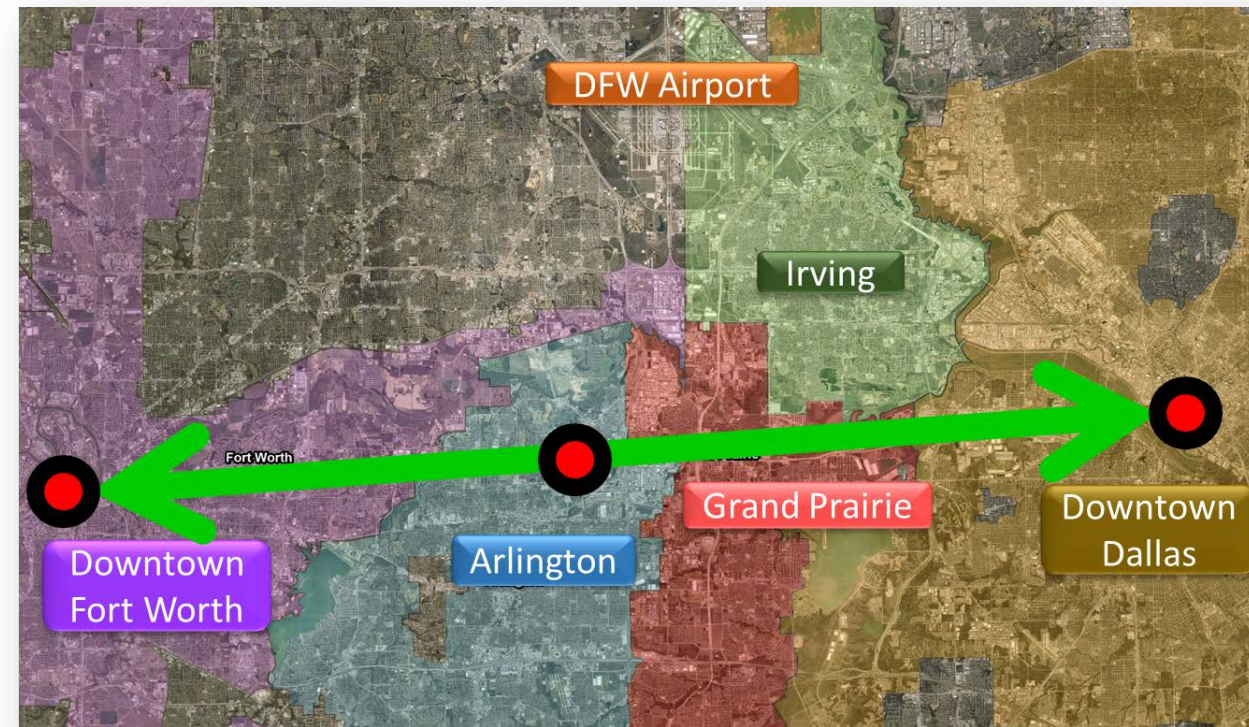


Fort Worth to Dallas

Procurement Process Underway
Alternatives Analysis
Environmental Document
Connections

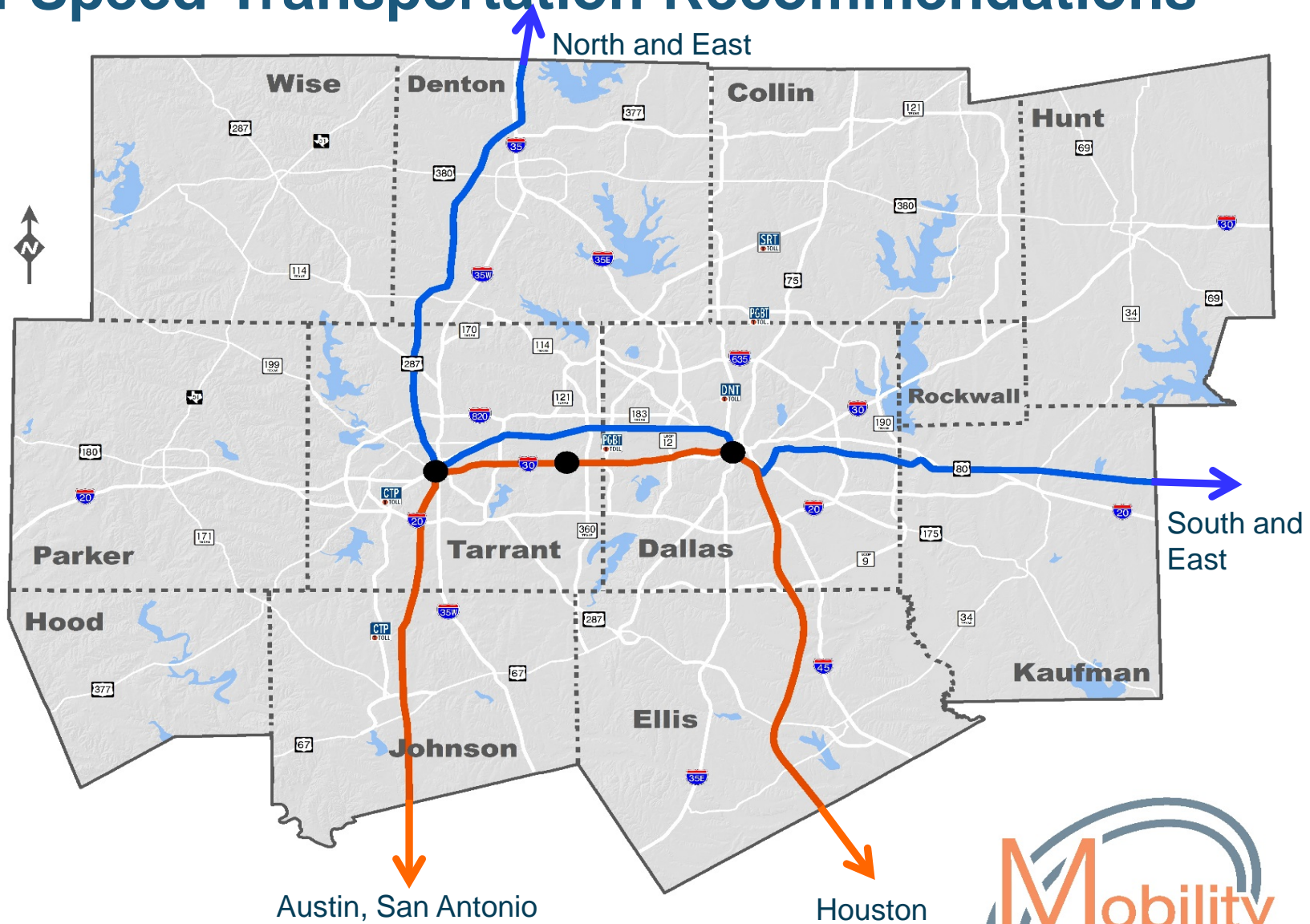
High-Speed Projects
Transportation Access

Coordination with FRA and FTA



High-Speed Transportation Recommendations

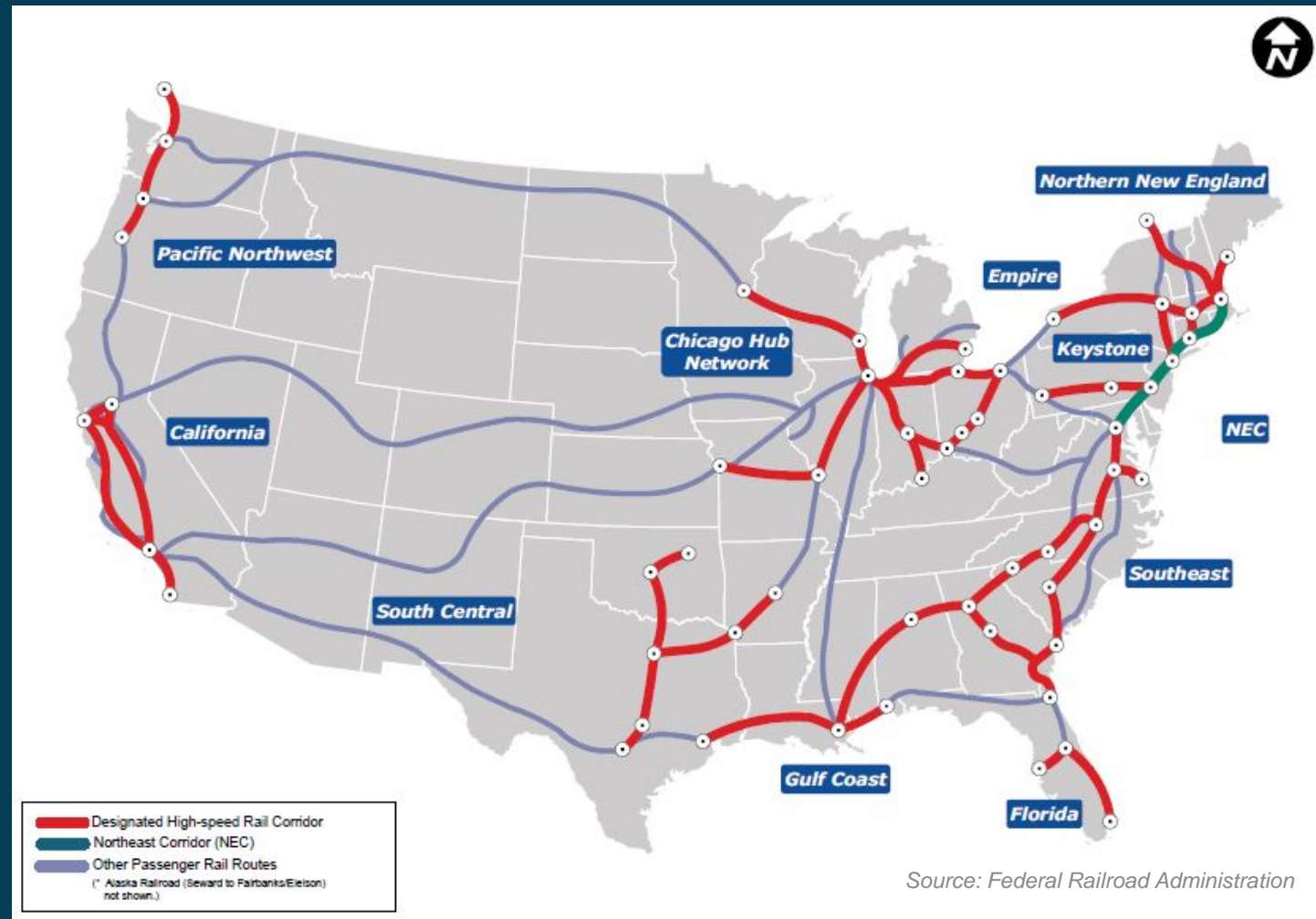
- At-Grade
- Grade Separated
- Stations



Corridor-specific alignment, design, and operational characteristics for the intercity passenger, regional passenger, and freight rail systems will be determined through capacity evaluation and ongoing project development. Refined rail forecasts are necessary to determine technology and alignment in future rail corridors.



U.S. Intercity Passenger Rail Network Vision





Metropolitan Transportation Plan Schedule

Regional Transportation Council

June 11, 2020

Mobility 2045

RTC Adopted on June 14, 2018

Must Adopt Updated Plan Within Four Years

Transportation Conformity Achieved November 21, 2018

Expires November 21, 2022



Mobility 2045: 2022 Update

Mobility Plan Update, Not Amendment

Will Incorporate New TIP

Partner Coordination Begins in March

Project Refinements



Mobility 2045: 2022 Update

Horizon Year: 2045

Base Year: 2020

Revised 2045 Demographics

Revised 2045 Revenue Forecast



Mobility Plan Foundation



General Vision

To improve the region's mobility today and tomorrow by embracing technology and innovation.



Goals

Four Categories

Nine 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



2022 Update Status

Completed

Vision

Goals

Current Efforts

Identifying Objectives

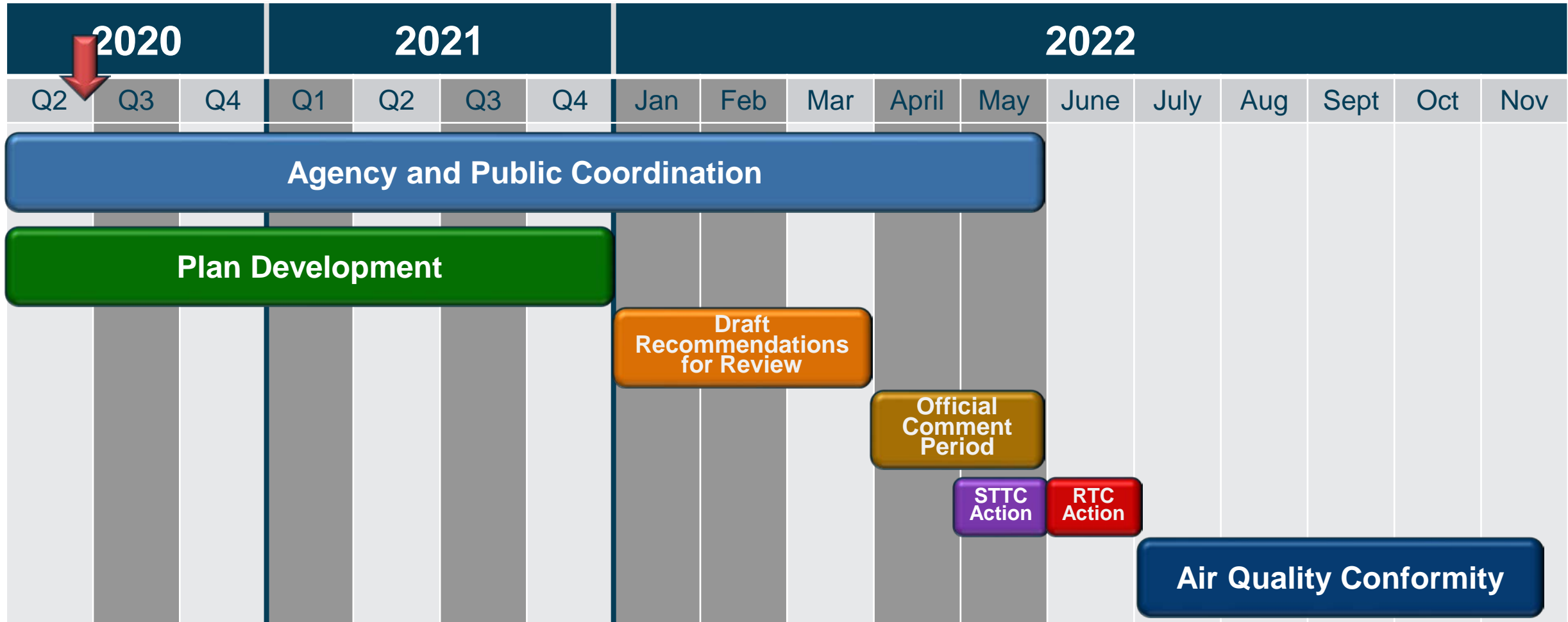
Developing Performance Measures

Setting Targets

Initiating Coordination Efforts



Mobility 2045: 2022 Update



Notes:

- Public meetings held during highlighted months.
- Regional Transportation Council action on Mobility 2045 scheduled for June 9, 2022.

