



NCTCOG

# DEVELOPING THE INNOVATIVE TRANSPORTATION TECHNOLOGY INFRASTRUCTURE CERTIFICATION PROGRAM

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A futuristic, curved tunnel with blue and white walls and a glowing floor. The tunnel is illuminated with a soft blue light, and the walls are curved and layered, creating a sense of depth and movement. The floor is a warm, golden-brown color, and there are several bright, glowing spots on the right side. The word "BACKGROUND" is centered in the middle of the image in a bold, blue, sans-serif font.

**BACKGROUND**

# Policy 22-01: Advancing High-Speed Rail

Advance only high-speed rail into NEPA process

## *Purpose:*

- To environmentally clear IH 30 corridor
- To not hold up NEPA process with developing technology

Monitor hyperloop technology advancement

## *Purpose:*

- To advance hyperloop along technology certification and demonstration path
- To advance these two technologies in different corridors



# Interest in DFW Region

Virgin Hyperloop's request for proposals for certification center site in 2020

DFW High-Speed Transportation Connections Study

Technology Forum outreach

Interest received to date

- Hyperloop developers
- Advanced gondola-like systems/suspended pods

Many new transportation infrastructure technologies require certification prior to widespread application

Technologies face difficulties in advancing through traditional planning processes



# History of Innovation in DFW Region

Telecom Corridor

The Superconducting Super Collider project

Managed lanes network

First all-electronic tolltag facility

Vehicle occupancy verification technology

Mobility Innovation Zone – Alliance

Autonomous vehicle testing and deployment

Drone technology





**POLICY**  
**for Transportation Technology**  
**Infrastructure Certification Program**

# Innovative Transportation Technology Infrastructure Certification Program

## Purpose of RTC policy to:

- Outline RTC's guiding principles
- Define transparent process by which RTC may coordinate with technology provider for certification facility or pilot applications
- Provide structure for periodic solicitation or acceptance of new technology infrastructure solutions
- Ensure level playing field for transportation infrastructure technology providers wishing to move to region and local governments wishing to propose their site for consideration



# Innovative Transportation Technology Infrastructure Certification Program

## Guiding Principles:

- Must serve long-range transportation need (MTP)
- Technology developer responsible for navigating certification process
- NCTCOG will facilitate mutual cooperation
- Local government considerations:
  - Contingency should technology fail to perform as intended
  - Expected timeframe for infrastructure to be operational
  - Public use goals and performance expectations



# Innovative Transportation Technology Infrastructure Certification Program

## Process:

- 1) NCTCOG staff to ensure technology solution conforms to policy guidance and long-range transportation need (MTP).
- 2) NCTCOG staff to brief RTC and RTC to take action on initiating process.
- 3) Upon RTC action, local governments to submit potential locations of interest.
- 4) Technology provider to determine preferred location to pursue.
- 5) RTC to initiate development activities; NCTCOG staff to provide support.



# Requested RTC Action

Staff requests RTC adopt this policy to develop a process for the Innovative Transportation Infrastructure Certification Program:

- Advances hyperloop and other innovative infrastructure technologies through the certification process to commercial application
- Outlines guiding principles and transparent process by which RTC may coordinate with technology providers needing certification
- Ensures a long-range transportation need is met
- Allows for periodic solicitation or acceptance of developing technology solutions for region
- Creates level playing field for transportation infrastructure providers and local governments



# Schedule

- ✓ January 28, 2022 – STTC Action  
HSR Policy (P22-01)
- ✓ February 10, 2022 – RTC Action  
HSR Policy (P22-01)
- ✓ April 21, 2022 – STTC Action  
Certification Policy (P22-02)
- ➔ May 12, 2022 – RTC Action  
Certification Policy (P22-02)

# CONTACT US



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