Interstate Highway 45 Zero-Emission Vehicle Corridor Plan

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Hydrogen Webinar Series Part Two

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Response To FHWA Alternative Fuel Corridors Deployment Plan Goals

FHWA Goals:

- Develop an Infrastructure Deployment Plan
- Transition the Corridors from “Pending to Ready”
- Identify Public-Private Partnerships

NCTCOG Proposal:

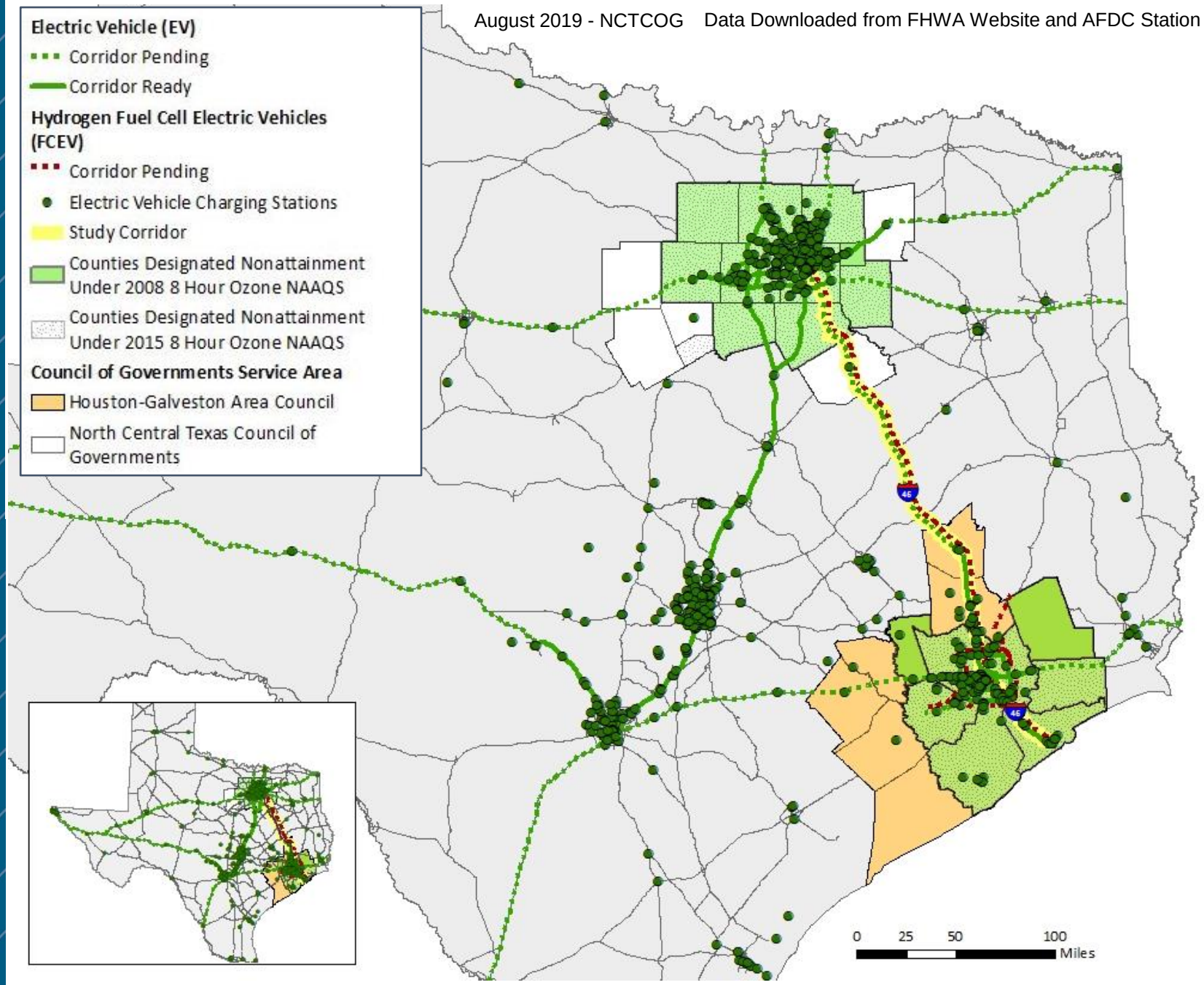
- Develop Electric and Hydrogen corridor along IH-45
- Expand Infrastructure Needs Suitable for Medium and Heavy-duty Electric Trucks and Buses
- Support Future Strategic Initiatives in the Corridor, such as AV Technology Deployment and Truck Platooning

Corridor Profile

290-Mile Corridor

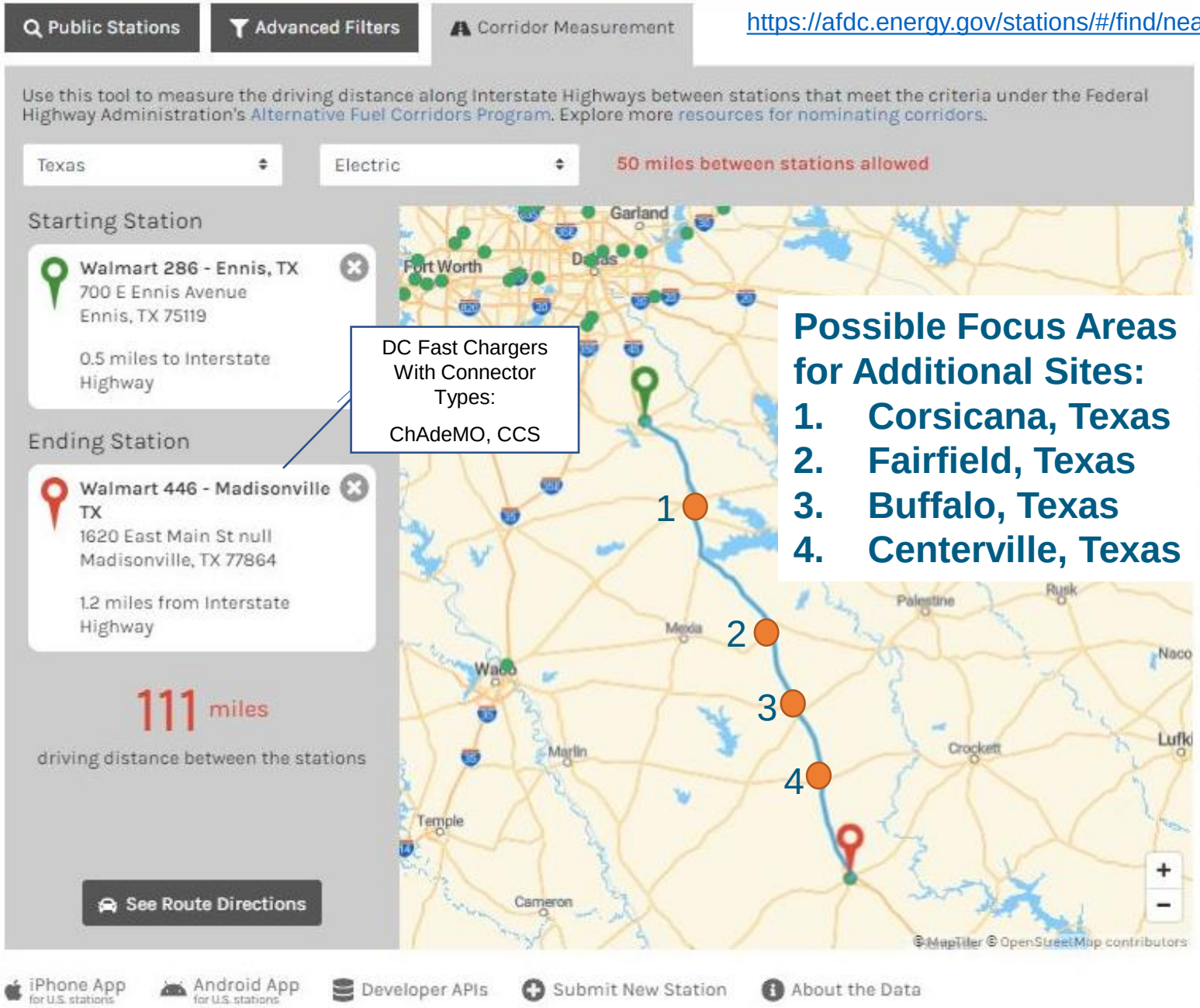
Nearly half of truck freight is in Texas is moved through this corridor.

Over 10,000 ton-miles of cargo traveled between Dallas and Houston in 2017, totally over $62.6 billion.

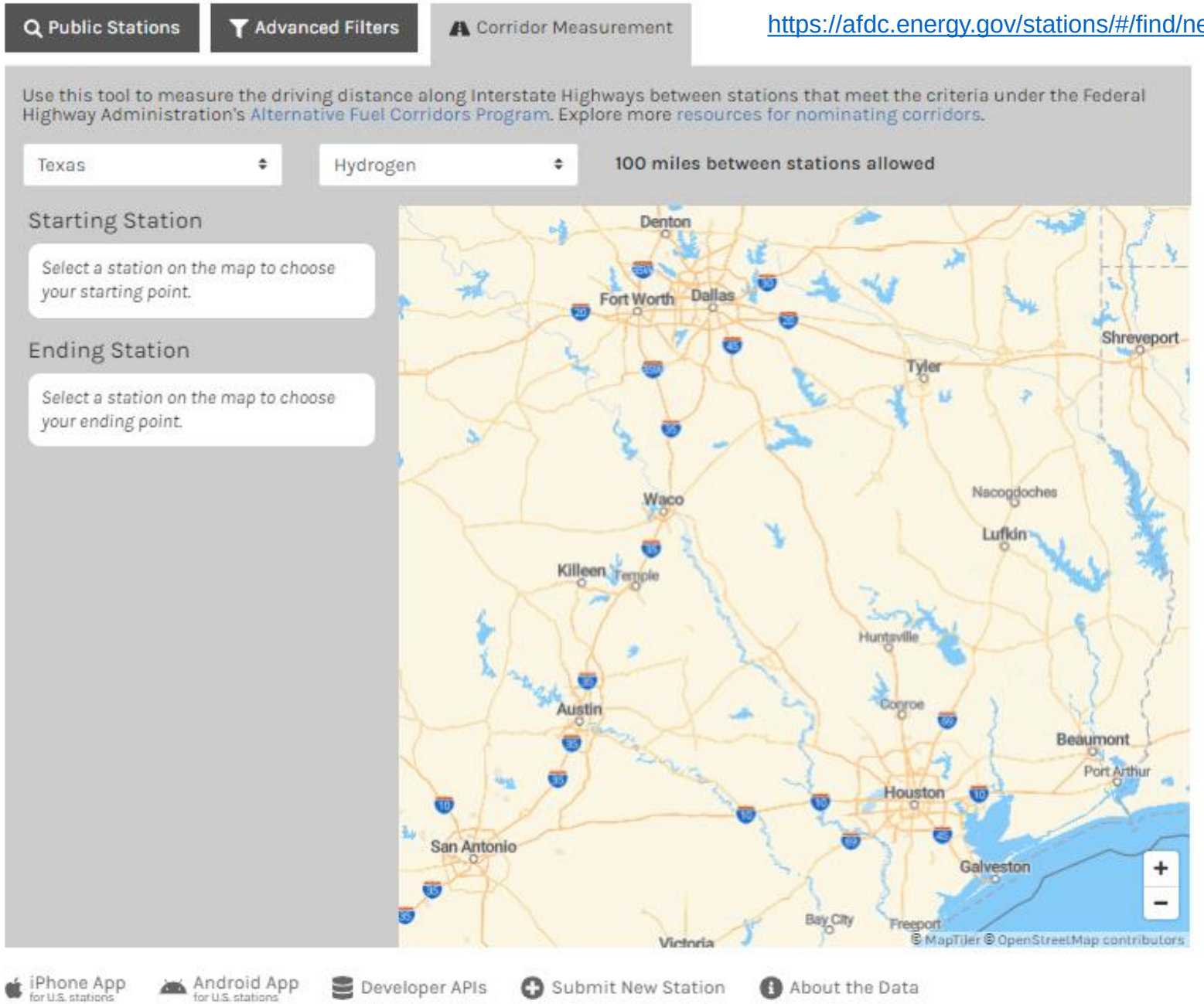


Current State of Electric Vehicle Supply Equipment (EVSE)

One Gap Remaining to Meet "Corridor-Ready" Status per FHWA Criteria: 111 Mile Gap from Ennis to Madisonville



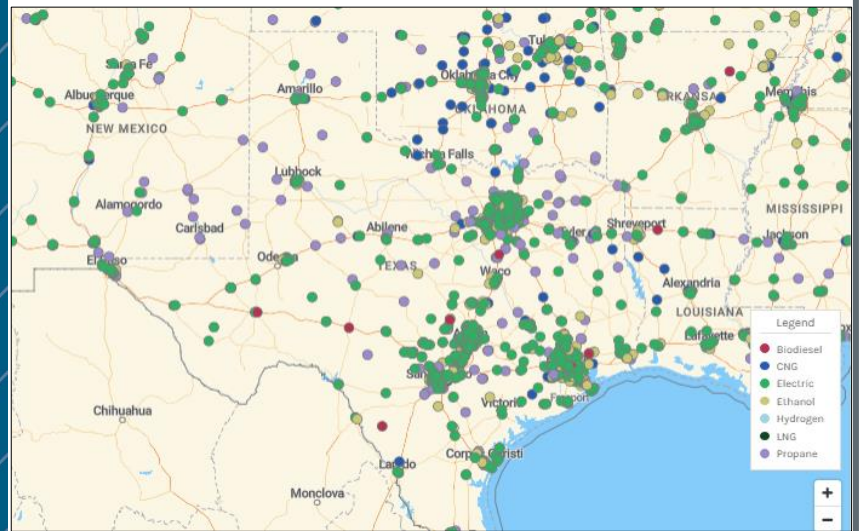
Current State of Hydrogen Fueling Stations



Data Available From NCTCOG and H-GAC

Travel Volumes/Patterns:

Station Locations:



Freight Flows:

Freight Analysis Framework (FAF) integrates data from a variety of sources to create a comprehensive picture of freight movement among states and major metropolitan areas by all modes of transportation.

https://ops.fhwa.dot.gov/freight/freight_analysis/faf/

Through the Plan, NCTCOG Will…

Identify Best Technologies suitable for vocational needs

Identify best market development opportunities

Develop and convene stakeholder groups including:

TxDOT

Utilities

Fleets

Fueling providers

Consumer interest groups

Solicit infrastructure needs from industry

Deliverables

Stakeholder Lists

Stakeholder Meetings

Corridor Workshops

Case Studies

Infrastructure Development Plan

Stakeholder's Role

- Identify Optimal sites
- Solicit Infrastructure Needs and Criteria
- Identify and Contact Property Owners

- Identify Best Technologies Suitable for Vocational Needs
- Evaluate Commercialization Status of Suitable Vehicles
- Access Timeframe for Commercial Availability

- Identify and Engage End-User Fleets
- Match User Needs to Vehicle Availability
- Assess Potential Vehicle Adoption

- Identify and Prioritize Non-Monetary Policies/Incentives
- Assess Existing and Needed Monetary Incentives
- Develop Engagement Plan

Infrastructure Development

Vehicle Availability

Customer Identification

Policy/Incentives

IH-45 ZEV Corridor Stakeholder Survey

In 2019, the Federal Highway Administration (FHWA) released a solicitation for a Alternative Fuel Corridors Deployment Plan. The North Central Texas Council of Governments submitted a proposal to develop a Zero-Emission Vehicle corrridor along Interstate Highway 45 from Dallas to Houston. This plan involves building infrastructure for both electric and hydrogen fuel cell electric vehilces with an emphasis on medium and heavy duty trucks and buses.

NCTCOG is seeking stakeholders representing fuel providers, fleets, infrastructure developers, fuel associations, government agencies, utilities, and interest groups to inform development of the infrastructure plan. Stakeholders are needed to support both plan elements - battery electric vehicle charging, and fuel cell electric vehicle fueling.

https://forms.office.com/Pages/ResponsePage.aspx?id=vH5eL7Aivk-TTKq9204psdQleriIutVJstC1lh81MHtUM1BZQUdSTzRINVZWTERSVDNZTkNMUjdMUCQlQCN0PWcu

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