



Dave Gedeon

Vice President of Transportation
Toledo Metropolitan Area Council of
Governments (TMACOG)



COLLEGE OF ENGINEERING
THE UNIVERSITY OF TOLEDO

Technology
Takes the Wheel®



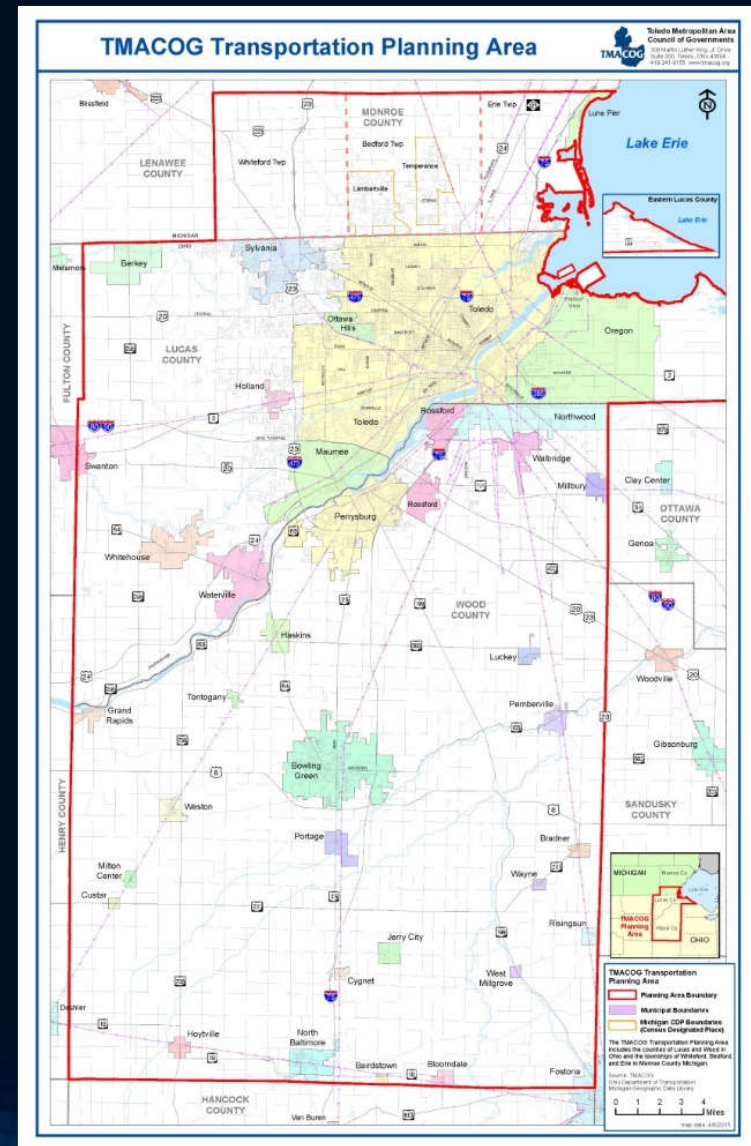


The Toledo Regional Connections to Hyperloop

DAVID GEDEON, AICP
VICE PRESIDENT OF TRANSPORTATION
TOLEDO METROPOLITAN AREA COUNCIL OF GOVERNMENTS

What is TMACOG?

- Federally designated Metropolitan Planning Organization (MPO) for Lucas and Wood counties in Ohio & southern Monroe County, Michigan
- Responsibilities include transportation and water quality planning



TMACOG Participation

- Signed a letter of intent to collaborate with NOACA on Hyperloop in 2018.
- Hosted a stakeholder meeting on October 17, 2019 to disseminate information and get local feedback



Why Hyperloop? Why Toledo?

- Transformative technology
- Critical north-south link
- Toledo is a transportation and logistics hub

Toledo is a logical and essential location for hyperloop

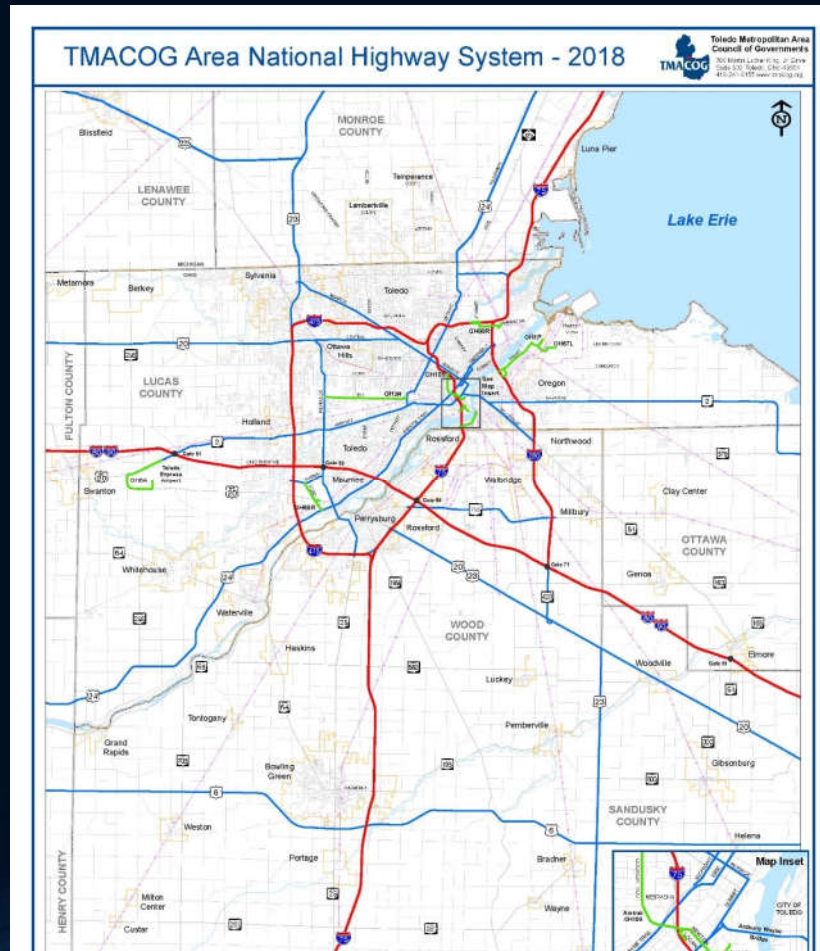


Transformative Technology

- 500-600 mph average speed – comparable to air travel
 - Approx. 20 minutes to Cleveland, 30 minutes to Chicago, 40 minutes to Pittsburgh
- Transport over 160,000 daily passengers
- Move over 4,000 cargo shipments daily



Critical North-South Link

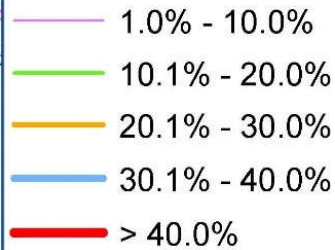


Critical North-South Link

Percentage of Commercial Vehicle Traffic

Based on Average Daily Traffic Volumes for Interstate, U.S. Routes, and State Routes only.

Percentage of total traffic that are commercial vehicles:



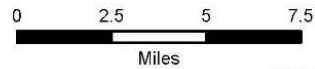
Average commercial ADT and percentage of commercial vehicles for selected routes:

I-80 (Ohio Turnpike): 10,121; 36.4%
 I-75: 13,701; 22.9%
 US 24 (west of I-475): 5504; 18.0%
 US 23 (north of I-475): 7703; 16.2%
 I-280: 6221; 15.8%
 I-475: 5952; 9.4%

Average daily traffic volume data collected from 2011 to 2013; collection year varies by county.

Commercial Vehicles: All classes of trucks/buses

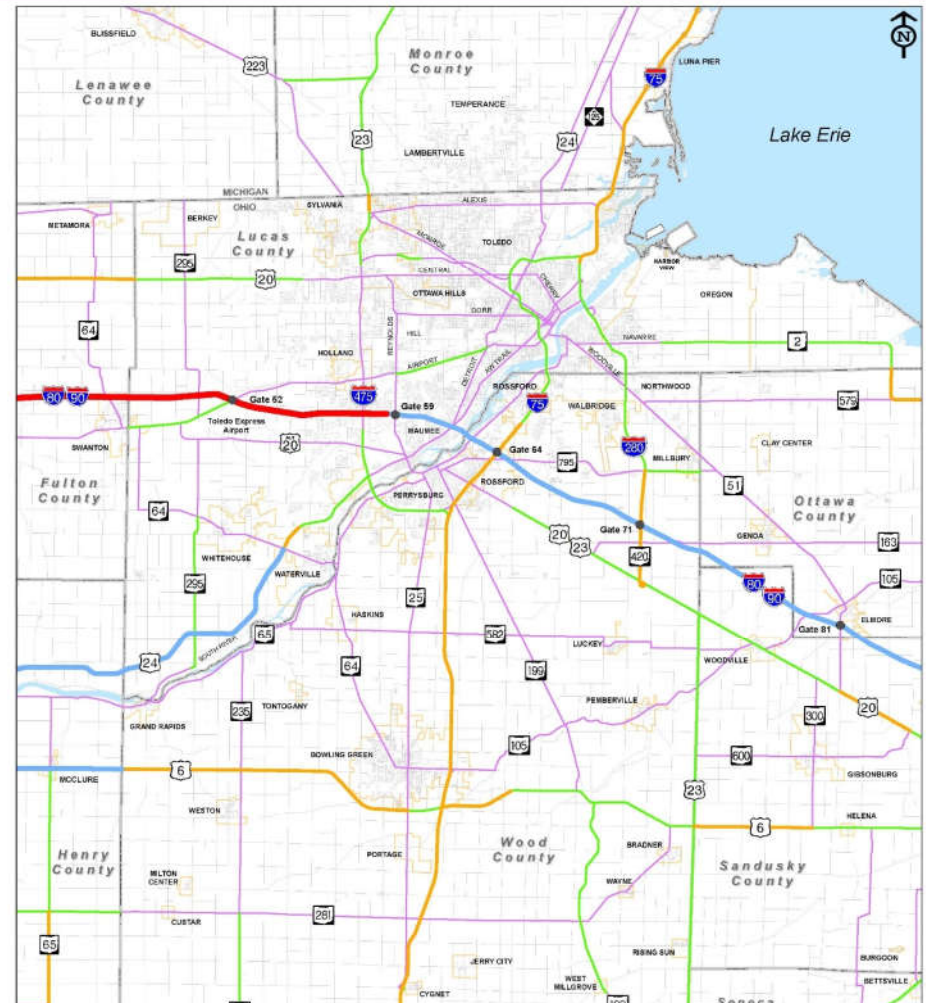
Source: Ohio Department of Transportation, Michigan Department of Transportation



map date: 1/5/16

Percentage of Daily Commercial Vehicle Traffic

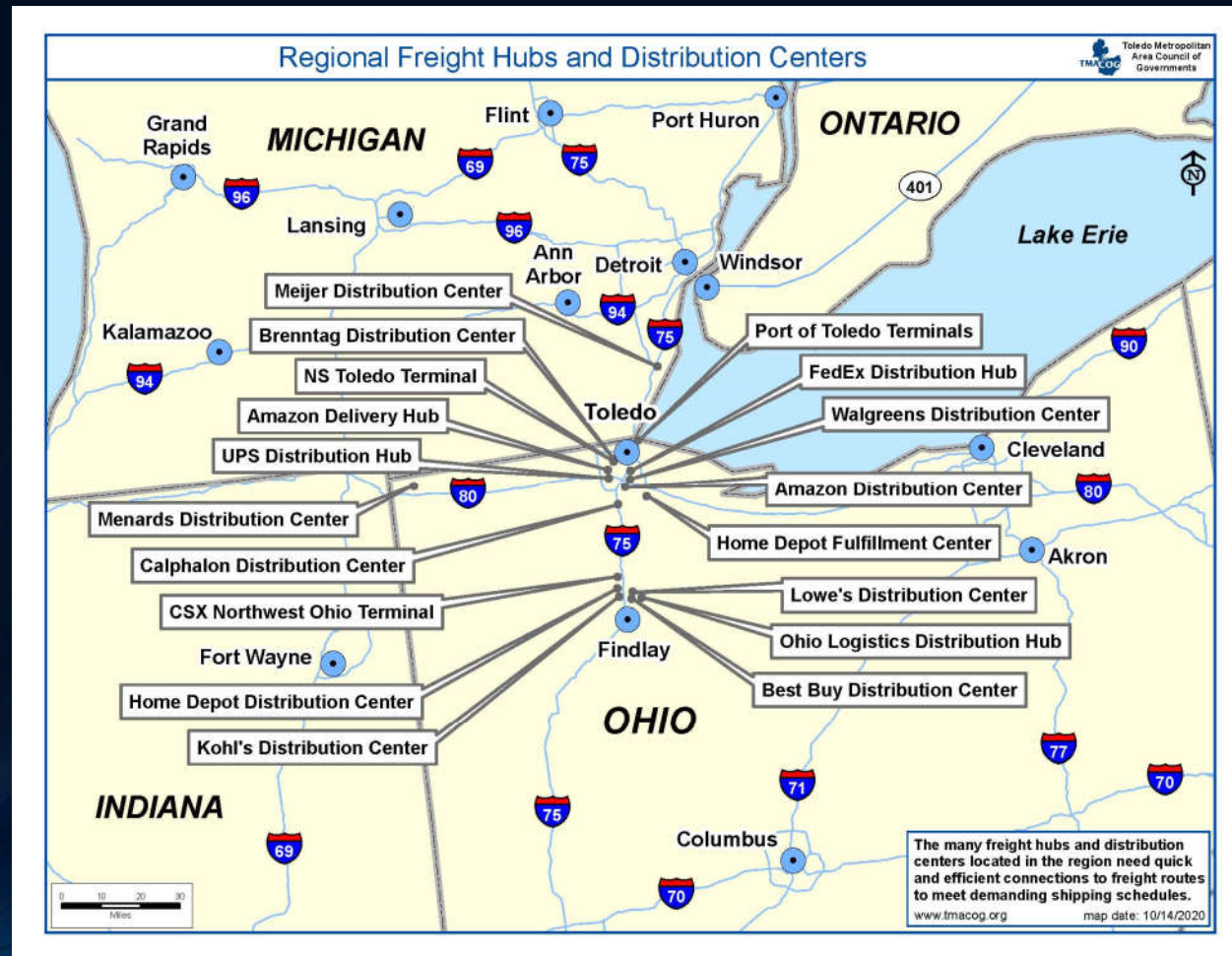
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Critical North-South Link



Toledo is a Transportation Hub



GORDIE HOWE INTERNATIONAL BRIDGE



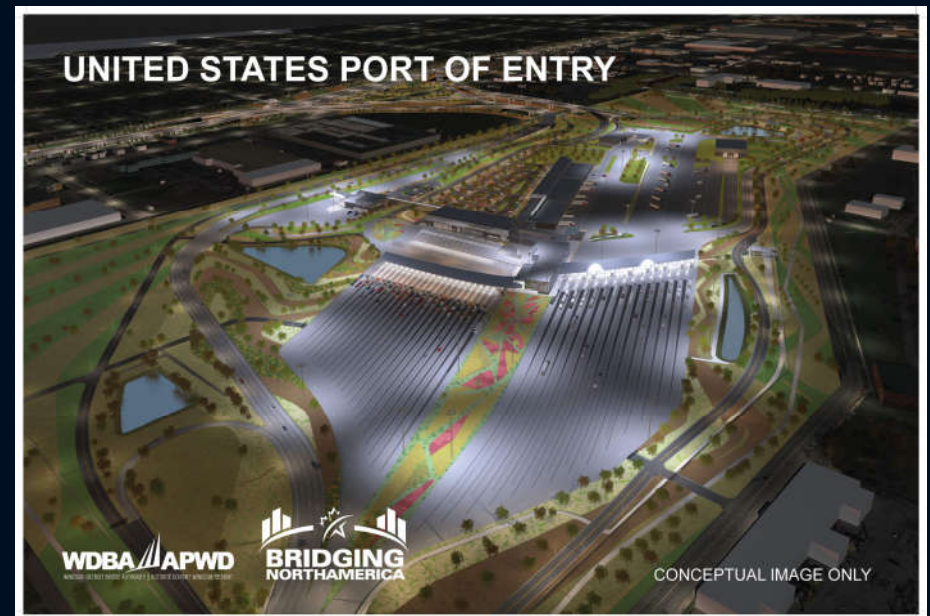
WDBA APWD
WINDSOR-DETROIT BRIDGE AUTHORITY / AUTORITÉ DU PONT WINDSOR-DETROIT

**BRIDGING
NORTH AMERICA**

CONCEPTUAL IMAGE ONLY

Gordie Howe International Bridge

- Expected completion in 2024
- \$5.7 B Investment
- 25% of the trade between US & Canada flow between Detroit and Windsor
- Ambassador Bridge currently carries over 2.5 million commercial trucks and \$120 B in goods per year



Gordie Howe International Bridge

- 3 Travel Lanes in each direction
- Canadian Port of Entry
 - 24 Inspection Booths
 - 16 Toll Booths for both the US-bound and Canada-bound traffic
- United States Port of Entry
 - 36 Inspection Booths

With reduced travel times and increased efficiency through inspection booths, commerce is expected to increase with much of that flowing through Toledo.

Hyperloop Station



Local Challenges

- Improved connections for freight movement
- Expand transit options for elderly and disabled to travel to and from station and local key destinations
- Location specific improvements for connections to highway system
- Opportunity for transit-oriented development in the vicinity the station poses potential land use and infrastructure challenges

Thank you!

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