

Wisconsin Department of Transportation

Supporting a Multimodal System

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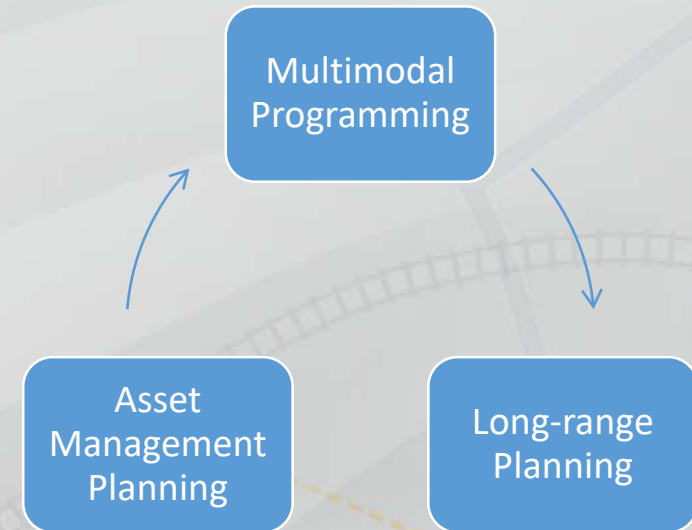
Division of Transportation Investment Management

March 10, 2020



Multimodal Transportation Systems Management

- Long-Range Planning
- Asset Management Planning
- Multimodal Planning

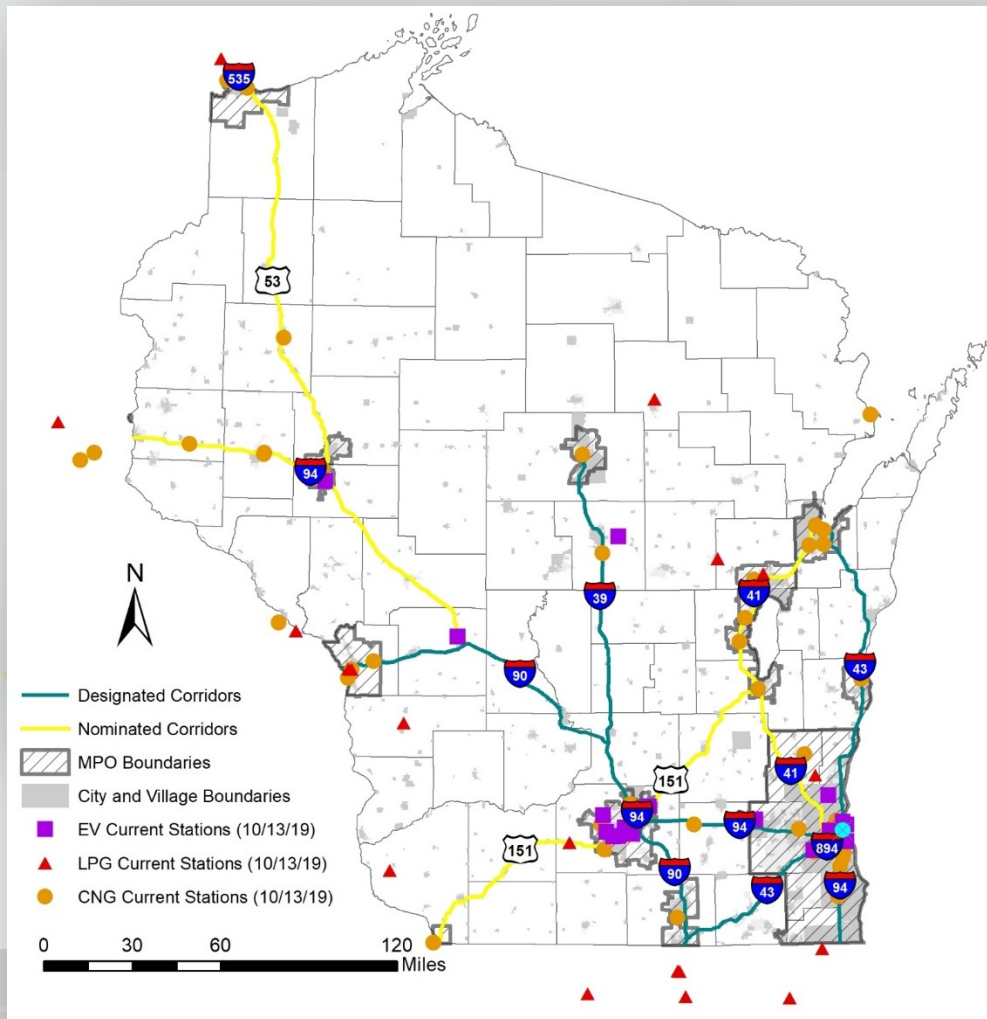


Long-Range Planning

- Connect 2050 – Statewide Long-Range Transportation Plan
 - Establish vision, goals, objectives, and policies
 - Strategic investment in the development and preservation of all transportation modes
 - Emphasize use of existing infrastructure



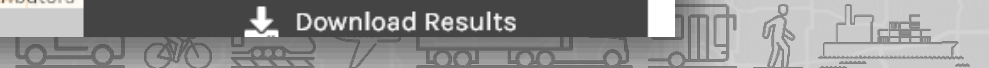
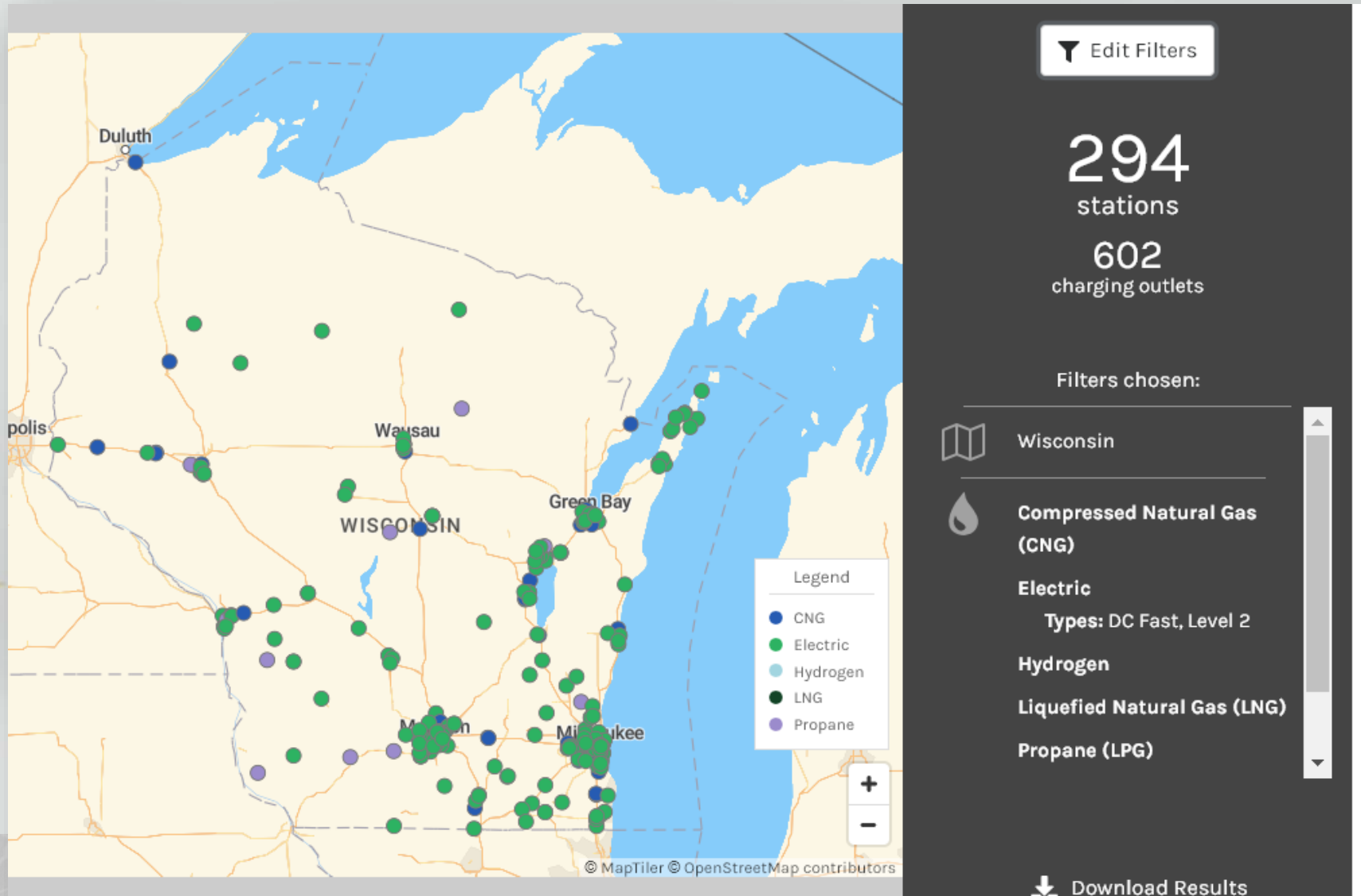
Alternative Fuel Corridors



- Alternative Fuel Corridor Nominations
 - Promote a national network of alternative fuel locations along NHS routes
 - EV, H, LPG, LNG, CNG
 - Nominated corridors include: I-41, I-94, US-53/I-535, US-151
- 294 publicly-accessible stations across Wisconsin



<https://afdc.energy.gov/stations/#/find/nearest>



Electric Vehicle

- Nationally, consumer options have increased significantly over the past decade.
- 244 charging stations with 602 outlets
- Percentage of current market share:
 - WI = 0.79%
 - MN = 1.14%
 - CA = 7.84%
- Informal Central Region collaboration effort being led by MN
- VW Settlement: \$10 M identified for electric charging stations
- FTA Low/No emission program and VW settlement funds allow electric transit vehicle options as eligible items



Asset Management Planning

- Federal regulations require:
 - States must develop Transportation Asset Management Plans
 - Transit operators must develop Transit Asset Management Plans
- Goals include:
 - Assessment of infrastructure/fleet conditions
 - Description of decision support systems
 - Outline long-range planning and budgeting strategies



Asset Management Planning

- WisDOT's transportation asset management program prioritizes:
 - Safety
 - Bridge improvements
 - Preservation of existing infrastructure
- Data-driven process that utilizes Performance-based Practical Design procedures to assess best-value treatments on priority corridors and identify low-cost treatment opportunities elsewhere
- ITS offers opportunities to reduce driver delay and congestion through dynamic message signs, onramp metering, and signal timing optimization



Transportation System Resiliency

- WisDOT's facility development procedures rely on nation flood data and are designed to accommodate changes in flood frequency data.



Multimodal Planning -- Transit

- WisDOT supports transit as a viable option to addressing capacity issues through planning and program funding initiatives
- Alternate fuel vehicles are eligible under existing capital funding programs
 - Diesel / Electric Hybrid, Battery Electric, Compressed Natural Gas
- Modern clean diesel buses reduce emissions by 85% compared to traditional diesel engines
- WisDOT was awarded nearly \$3 million in 2018 under federal discretionary Section 5339(c) Low or No Vehicle Emission Program for battery electric vehicles and equipment in several rural transit systems
 - WisDOT is working with local communities to implement projects
- VW settlement funds identified \$20 M for transit vehicle replacement
 - Applications due March 18, 2020



Multimodal Planning -- Rail

- Passenger rail is estimated to be:
 - 47% more efficient than car travel
 - 33% more efficient than airline travel
- Hiawatha service carries over 880,000 passengers annually
 - Survey results suggest this diverts over 616,000 auto trips per year
 - WisDOT is working with partners to assess increasing daily round-trip options
- WisDOT has participated in acquisition of new locomotives and lighter coach equipment, which should result in greater efficiency and few emissions
- WisDOT and Amtrak jointly initiated bus service between the Fox Cities and Milwaukee, increasing access to rail services.
- Freight rail programs provide funding to improve or preserve rail infrastructure, ensuring efficient and cost-effective alternative modes for transporting goods are maintained



Multimodal Planning -- Highways

- CMAQ provides federal funds for transportation projects that improve air quality in non-attainment areas
 - e.g. capital assistance for new transit service, rideshare, etc
- TAP provides federal funds for bicycle and pedestrian facilities
 - Consolidated SRTS, TE, Bike/Ped programs
- Bicycle and pedestrian accommodations are considered during design on all state improvement projects
- Performance Measures
 - Delay/Reliability
 - Material recycling: Encourage reuse of materials, reducing transport and disposal

