O'Hare Express System

Project Overview

February 22, 2019
Presentation to the CMAP
Transportation Committee
By: Dan Burke
CDOT Managing Deputy Commissioner
Chief Engineer

O'HARE EXPRESS SYSTEM OVERVIEW

The proposed O'Hare Express System is a direct and express transportation system connecting downtown Chicago & O'Hare International Airport (ORD)

Underground Alignment:

- Twin 17.5-mile tunnel connecting CBD and ORD
- Minimizes conflicts with existing transportation systems
- Final alignment subject to on-going NEPA processes

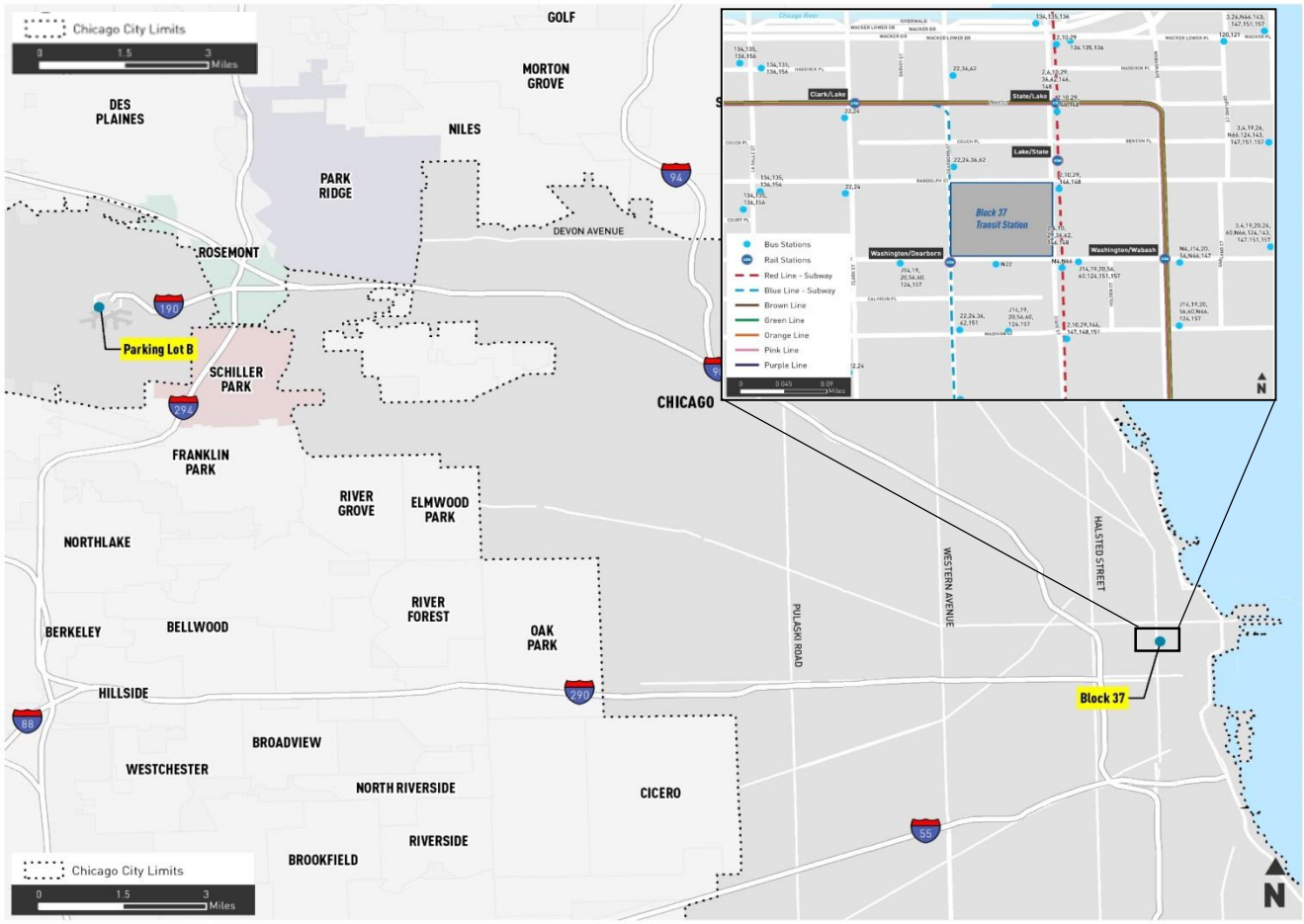
Anticipated Trip Time and Capacity:

- 12-minute one-way trip time
- ~1,900 passengers per hour per direction

Project Funding:

- 100% privately financing and funding for design, construction, and operations
- No local, state, or federal funding sources will be utilized

PROPOSED PROJECT TERMINI



PROJECT FEATURES

TWIN MAIN ARTERIAL TUNNELS

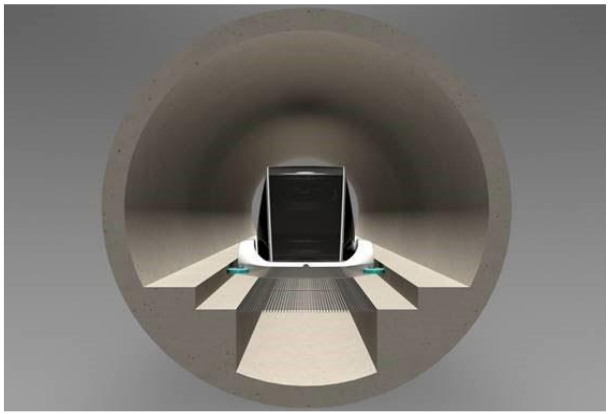
- ~17.5 miles long
- Located below the public way
- Minimum depth of 30’ to crown

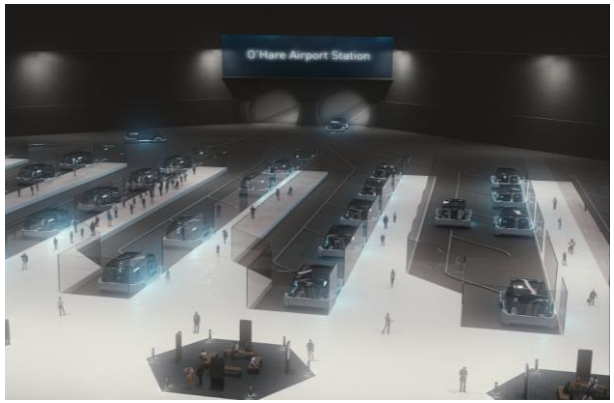
ELECTRIC VEHICLES

- Battery-powered
- Zero emission

VENTILATION SHAFTS / EMERGENCY EXITS

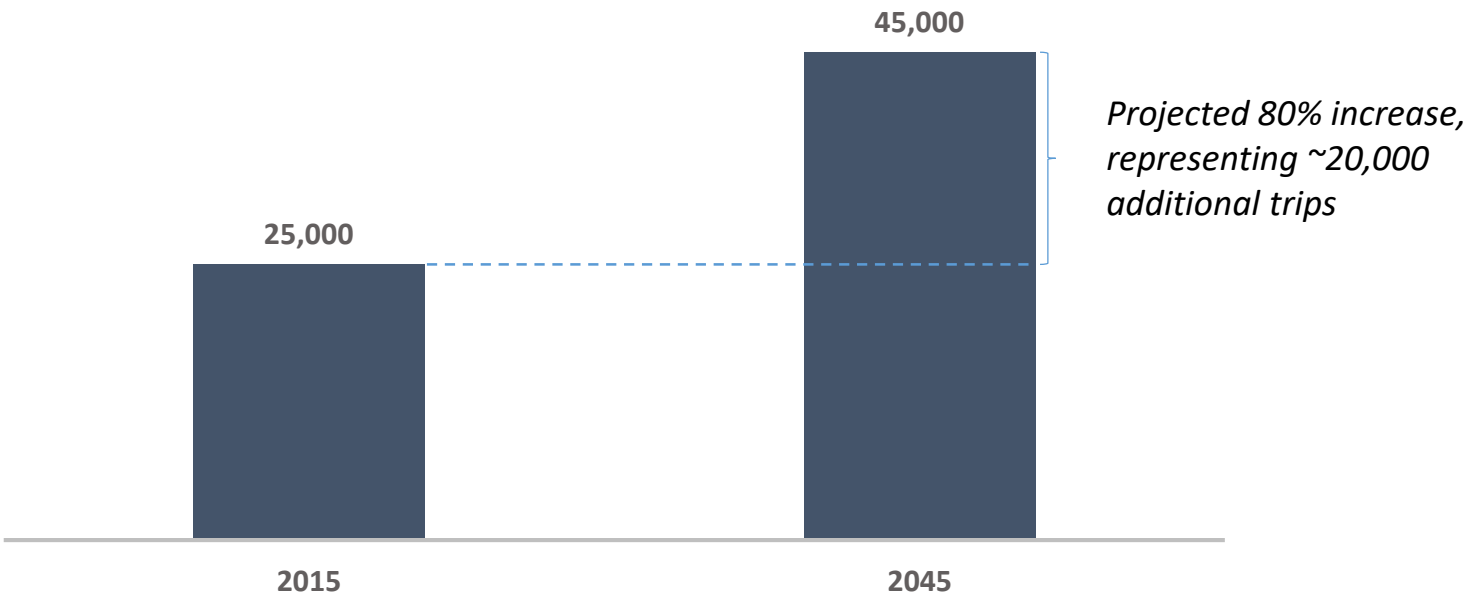
- Distributed along alignment





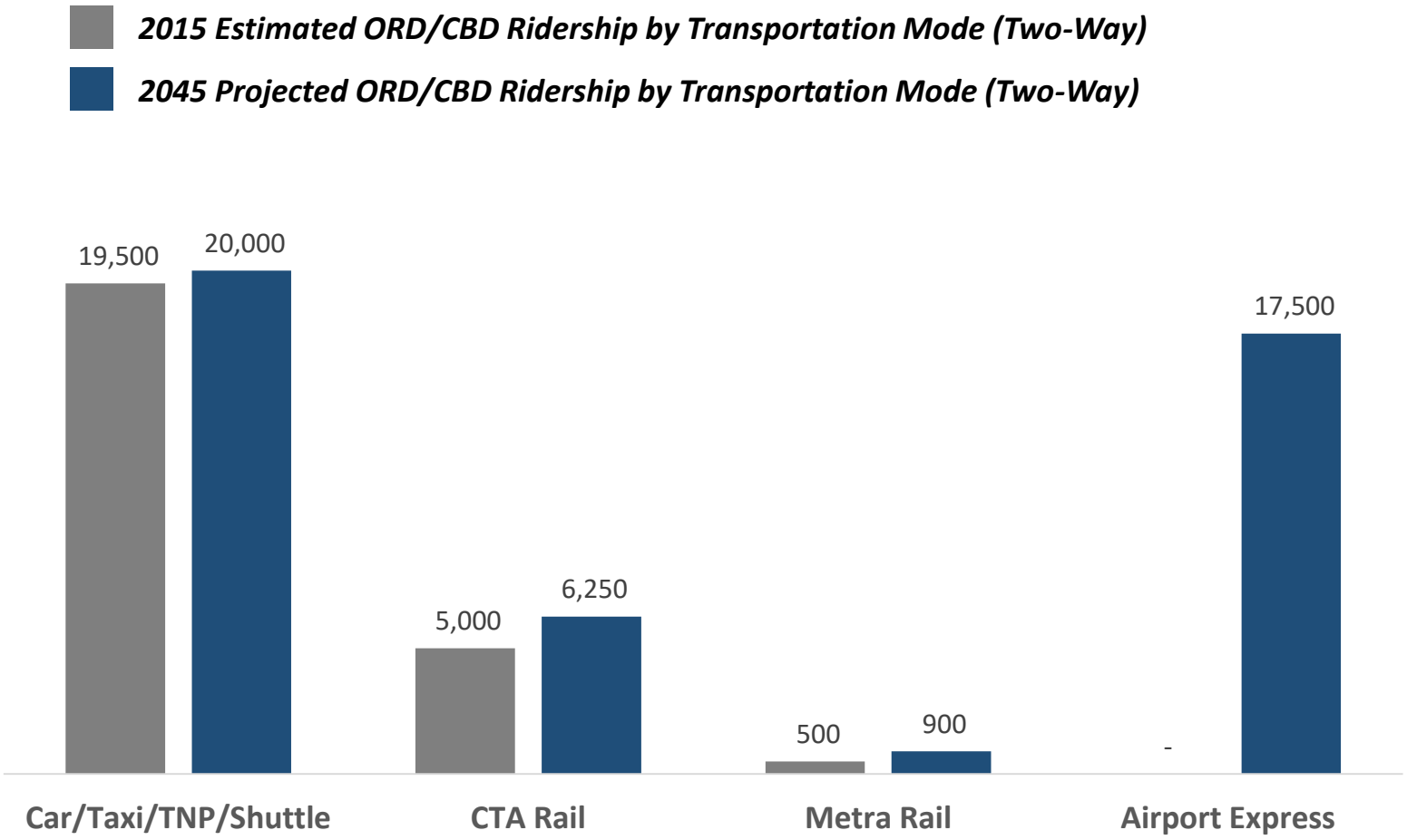
PROJECT OPPORTUNITY

O'HARE - DOWNTOWN CHICAGO DAILY AIR TRAVELERS
(TWO-WAY)



Source: WSP O'Hare Express System Ridership Report, 2017

PROJECTED DEMAND BY TRANSPORTATION MODE



Source: WSP O'Hare Express System Ridership Report, 2017

ENVIRONMENTAL BENEFITS

	Total Emissions and Fuel Consumption for all "Removed" Vehicles Per day (2045)	**Total Emissions and Fuel Consumption for all "Removed" Vehicles Per Year (2045)**
CO2	78,281,316 g	28,572 Metric Tons
CO	1,997,406 g	729 Metric Tons
Particulate Matter	850 g	310 kg
Gasoline	8,816 gal	3,217,840 gal

PLAN AMENDMENT (1/2)

This project strongly supports ONTO 2050's guiding principles and numerous community, prosperity, environment and mobility strategies and actions.

Inclusive Growth: Growing our economy through opportunity for all

- Provides direct construction, operations, and maintenance jobs
- Broad projected economic impact: Enhanced business environment and the large scale creation of regional jobs

Resilience: Preparing for rapid changes, both known and unknown.

- Increases ORD/CDB corridor's existing transit and transportation options
- Enhances ability to move passengers in disrupted or unexpected conditions