## NORTHEAST MAGLEV

February 23, 2021 | Baltimore Regional Transportation Board

Superconducting Maglev Train

### Who We Are



#### Baltimore-Washington Rapid Rail (BWRR)

- A 100% US-owned, Maryland based franchised railroad company
- Dedicated to deploying the 311mph SCMAGLEV train in the Northeast Corridor
- Over \$100 million in private investment to date



#### **Northeast Maglev**

 A 100% US-owned company promoting the deployment of SCMAGLEV in the Northeast Corridor in cooperation with JR Central



#### **Central Japan Railway Company (JR Central)**

- Japanese rail company with over 50 years experience in high speed rail on the most travelled rail corridor in the world
- Developer of the Superconducting Maglev (SCMAGLEV) system currently operational and being deployed in Japan

### The NEC: Big and Getting Bigger



All on just 2% of U.S. land area

## Broken Infrastructure / Growing Problems



source: Northeast Corridor Annual Report: Operations and Infrastructure (NEC Commission, April 2018

### US MAGLEV Deployment Program





### **Construction Overview**



### NEPA / Engineering Responsibilities



## **EIS Agency Coordination**

### **Federal**

- Federal Highway Administration (FHWA)
- Federal Transit Administration (FTA)
- Surface Transportation Board (STB)
- Federal Emergency Management Agency (FEMA)
- US Army Corps of Engineers (USACE)
- US Environmental Protection Agency (USEPA)
- US Fish and Wildlife Service (USFWS)
- US Department of Agriculture (USDA)
- National Park Service (NPS)
- National Capital Planning Commission (NCPC)
- US Commission of Fine Arts (USCFA)
- National Aeronautics & Space Administration (NASA)
- Federal Aviation Administration (FAA)
- Federal Railroad Administration (FRA)
- National Security Agency (NSA)

### State

- Maryland Department of Natural Resources
   (MDDNR)
- Maryland Department of the Environment (MDE)
- Maryland Department of Planning (MDP)
- Maryland-National Capital Park and Planning Commission (M-NCPPC)
- Maryland State Highway Administration (SHA)
- Maryland Historical Trust (MHT)
- Metropolitan Washington Council of Governments (MWCOG)
- Maryland Department of Transportation (MDOT)
- Maryland Transit Administration (MTA)

### Local

- Anne Arundel County Transportation Department
- Anne Arundel County Government Office of Planning & Zoning Transportation Division
- Anne Arundel Economic Development Corporation
- Howard County Office of Transportation
- Prince George's County Department of Public
  Works and Transportation
- Baltimore City Department of Transportation (BCDOT)
- · Baltimore City Department of Planning
- Baltimore Metropolitan Council (BMC)
- District Department of Energy and Environment (DOEE)
- District Department of Transportation (DDOT)
- District of Columbia Historic Preservation Office (DC SHPO)
- Washington Metropolitan Area Transit Authority (WMATA)
- Metropolitan Washington Council of Governments (MWCOG)

Bold Denotes Lead Agencies

## **EIS Schedule**

# FRA-led NEPA Process provides a 'hard look' at project impacts, offering full disclosure through publishing of environmental impact statement (EIS)

EIS process investigates Route Alternatives and includes:

- Investigations/Studies
- Public Involvement
- Agency Coordination

Preliminary Alternatives Screening Report	Develop preliminary project alternatives and screening criteria		
Alternatives Study	Develop details on alternatives remaining for further study		
Draft EIS	Alternatives identified and compared with No Build Alternative in the Draft EIS - Public Comment/Hearing on Draft EIS		
Final EIS	Document final impacts and mitigation commitments		
Record of Decision	Complete NEPA Process - BWRR's construction and operation of SCMAGLEV will be subject to enforceable environmental mitigation commitments		
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Orange color denotes current phase



\* Schedule includes securing financing and procurement

### How SCMAGLEV Works



Instead of running on standard railroad tracks, SCMAGLEV trains levitate between the walls of a U-shaped guideway

Superconducting Magnets

Levitation & Guidance Coils

propulsion Coils.

Guideway Sidewalls

The SCMAGLEV system utilizes magnetic forces between the coils in the guideway and superconducting magnets on the train for all aspects of operation, including acceleration, deceleration, guidance and levitation 12

### Ridership Forecast

# Table 4.2-3: Forecasted Source of SCMAGLEV Ridership and ForecastedDiversions to SCMAGLEV Project from other Modes for the Years2030 and 2045, by Baltimore Station Alternative

Baltimore Station Alternative by Year	2030 Cherry Hill Station	2045 Cherry Hill Station	2027 Camden Yards Station	2045 Camden Yards Station
Diverted from Auto	11,380,467	14,877,281	12,609,501	16,480,393
Diverted from Rail	2,122,750	2,610,204	2,261,072	2,768,873
Diverted from Bus*	253,107	309,733	263,229	320,005
Diverted from Taxi/Rideshare	582,217	860,551	681,976	1,009,282
Total Diverted Trips	14,338,541	18,657,769	15,815,778	20,578,553
Total Forecasted Annual SCMAGLEV Trips	17,056,911	22,367,238	18,960,622	24,938,652
New Induced Trips	2,718,370	3,709,269	3,144,844	4,360,099

Source: Baltimore-Washington SCMAGLEV Project: Project Sponsor SCMAGLEV Daily Boardings and Alightings by SCMAGLEV Station

\* This category covers diversions from all bus services in the SCMAGLEV Project Affected Environment, including local bus services, express services to Baltimore and Washington and privately operated inter-city bus services

### Ridership Forecast

### SCMAGLEV Ridership by Segment



- Commute
- Business
- Non-Business
- Airport Business
- Airport Non-Business

### **Reduction in Vehicle Miles Traveled**

DEIS predicts SCMaglev will result in reduction of regional VMT between 9% and 12% (2027 to 2045)
 Independent Ridership Study shows SCMaglev reduces automobile share from 94% to approx. 82%



## Economic Opportunity Resulting from SCMaglev

#### **Regional Jobs**

123,000 JOBS

**Construction Related Job-Years** 

38,000 JOBS

Professional Services Job-Years

**Regional Labor Earnings** 

## **\$8.8** BILLION

In Employee Earnings

Baltimore-Washington SCMaglev DEIS, January 2021 – Resulting form Build Alternative J-03

IRGINI

Washington, DC

**Baltimore** 

Arlington

**Combined Statistical Area** 

## Maryland Transit Authority – A Critical Piece

### MTA a Critical Part of First/Last Mile Connectivity

- MTA 25-year vision notes light-rail ridership has declined 16% since 2012\*
- MTA wants improved service between Cherry Hill and Downtown Baltimore\*
- MTA long-term goals of improved pedestrian and cycling access to stations, micro-mobility integration with existing services, and integrated whole-journey ticketing

BWRR prefers proposed station at Cherry Hill Light Rail Station
BWRR looks forward to working with MTA on innovative first/last mile solutions, ensuring passengers have integrated, cost-effective, and environmentally sound transportation options

\*(P. 14 & 49, MTA Connecting Our Future: A Regional Transit Plan For Central Maryland)

### No State of Maryland Funds

### **BWRR Not Seeking State of Maryland Funds**

- MTA expects \$2 billion budget shortfall over the next decade
  - BWRR committed to build without State appropriations
  - Billions generated from SCMaglev project to Maryland's GDP will help grow the State's Transportation Trust Fund and help MTA with budget shortfall
  - Jobs created boost county general funds to help expand transit in places like Cherry Hill and Westport

\*(P. 14 & 49, MTA Connecting Our Future: A Regional Transit Plan For Central Maryland)





## Project Support

- Endorsed by civic groups, union labor groups, local business and community organizations
- Partnering to provide local outreach, education, and access to opportunity to businesses and residents







**Greater Baltimore** Urban League







Eastern Atlantic States





Chamber of Commerce





Baltimore County Chamberof Commerce





Support continues to grow. More than 15,000 people have shown their support by signing a
petition in favor of the project

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### Thank You

## @NortheastMaglev

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for more information, visit: www.northeastmaglev.com

