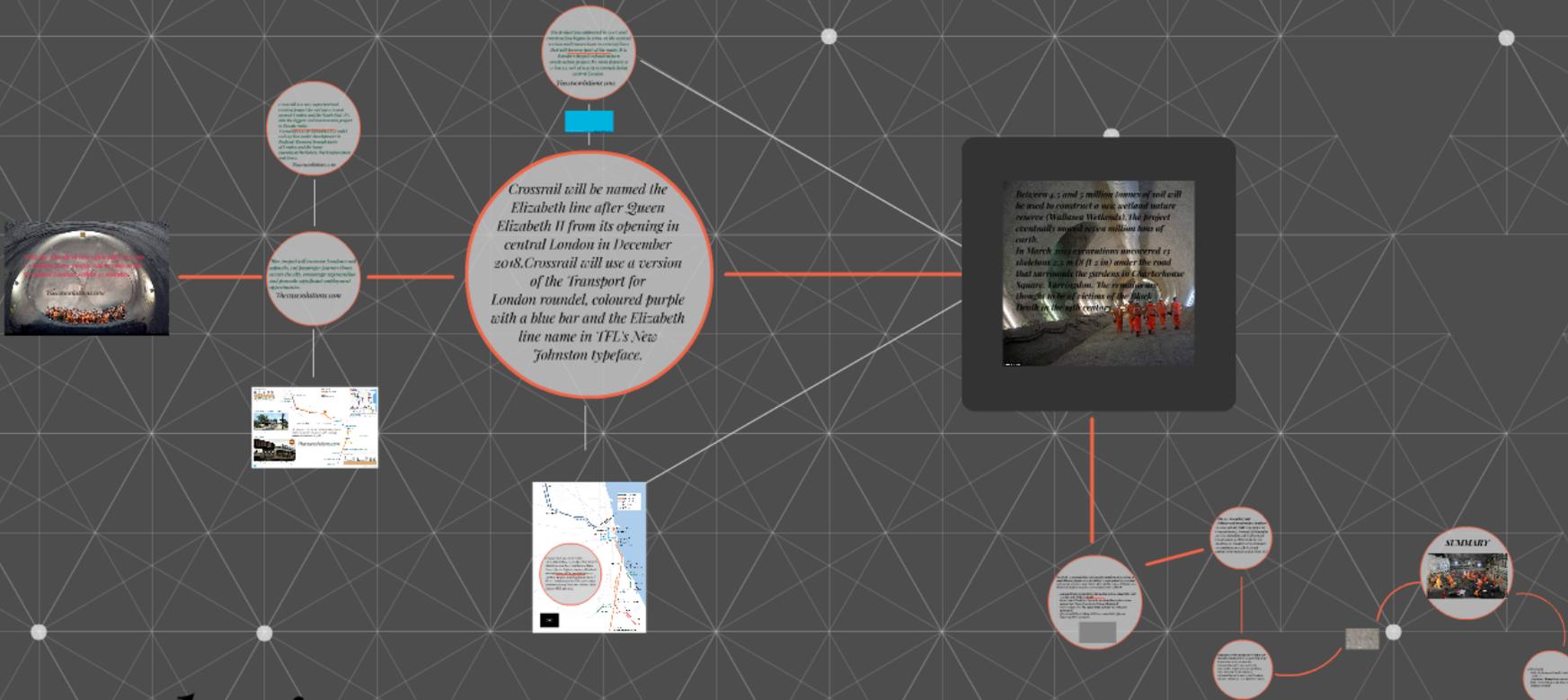


# The Naini-Itarsi Railway Electrification Project

GÜLBİN DİDAR ŞAHİN  
1310150071  
SERENAY KARA 1310150049  
TUĞÇE YANAR 1310150047

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Company Logo

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A large, circular tunnel under construction. The tunnel walls are dark and textured, showing signs of excavation. At the bottom of the tunnel, a large group of workers in orange safety gear and hard hats are standing in a line. The tunnel is illuminated by bright lights, creating a strong contrast between the dark walls and the bright floor. The overall scene is one of a major engineering project in progress.

*With the Elizabeth line open fully in 2019,  
1.5 million more people will be able to get  
to central London within 45 minutes*

*Thecasesolutions.com*

*Crossrail is a very important and exciting project for rail users in and around London and the South East. It's also the biggest civil construction project in Europe today.*

*Crossrail is a 118-kilometer (73-mile) railway line under development in England, Running through parts of London and the home counties of Berkshire, Buckinghamshire and Essex.*

*Thecasesolutions.com*

*This project will increase London's rail capacity, cut passenger journey times across the city, encourage regeneration and generate significant employment opportunities.*

*Thecasesolutions.com*



RER and HSR trains would use two new tracks between O'Hare and Union Station. Freight and Suburban trains would use two parallel tracks.

**Galewood/Elmwood Park RR Relocation**



13 highway crossings separated, including Harlem and Grand

**A-2 AND A-5 FLYOVERS**

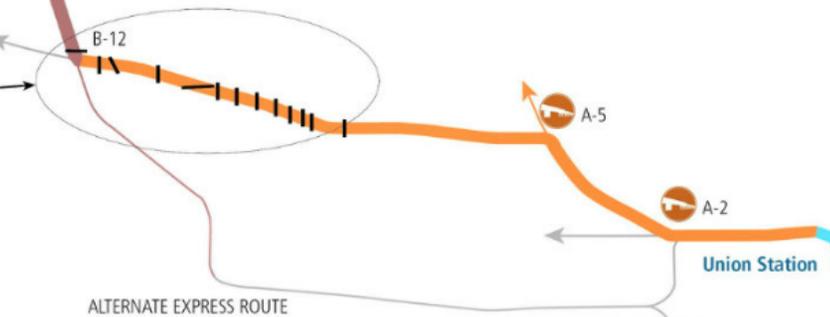


Two flyovers, like the new Englewood Flyover (pictured), are needed to increase capacity and improve reliability. 6 Metra routes and 1 Amtrak route would be improved.

Midwest High Speed Rail Association



- TRACK OWNERSHIP**
- █ METRA / SOUTH SHORE RR
  - █ AMTRAK
  - █ CN
  - █ ST. CHARLES AIRLINE



*This project is part of our London Railway Upgrade Plan, creating new connections and increasing capacity in peak hour by 30%.*

*Thecasesolutions.com*



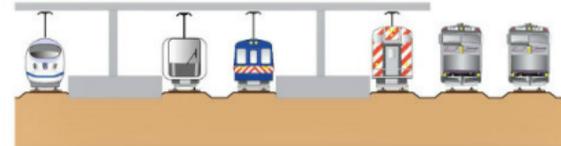
**16th Street Connector**

The St. Charles Airline would be rebuilt with two or three electrified tracks and direct access to Union Station.

MAP NOT TO SCALE.

**New track and electrification for faster speeds**

RER, Suburban and HSR trains would use Metra Electric District tracks rebuilt to modern standards. Freight trains would continue to use parallel tracks.



To Champaign

CrossRailChicago.org

*The project was approved in 2007 and construction began in 2009 on the central section and connections to existing lines that will become part of the route. It is Europe's largest infrastructure construction project. Its main feature is 21 km (13 mi) of new twin tunnels below central London.*

*Thecasesolutions.com*



# CROSSRAIL CONSTRUCTION TIMELINE

The Crossrail programme is 80 per cent complete and is being delivered on time and within budget.



*Figure: Crossrail Construction Timeline*

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