

# SUBSURFACE STRATEGIC CONNECTIVITY

SUBMITTED BY: Ray Uzwyshyn Ph.D. MBA MLIS

DATE: January 24, 2026

CONTEXT: The Boring Company  
"Tunnel Vision" Competition

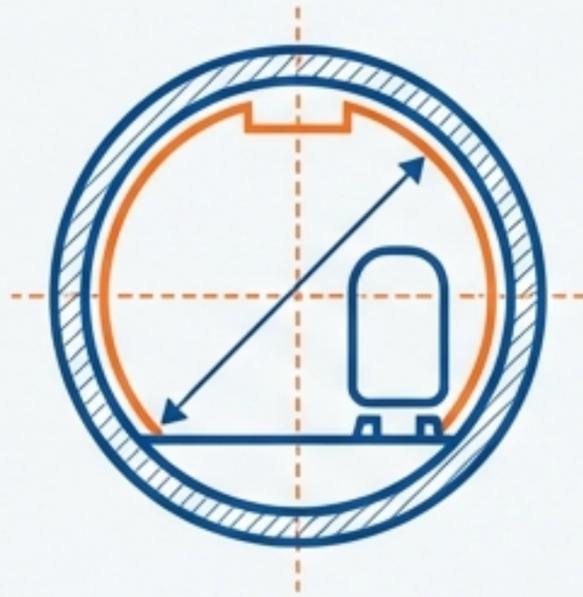
## A Global Analysis of High-ROI 1-Mile Tunnel Projects



Executive Summary: This report identifies global bottlenecks where surgical, short-distance (1-mile) interventions using the Prufrock TBM yield disproportionately high economic and social returns. These proposals address locations where bridges are impossible and ferries are failing.

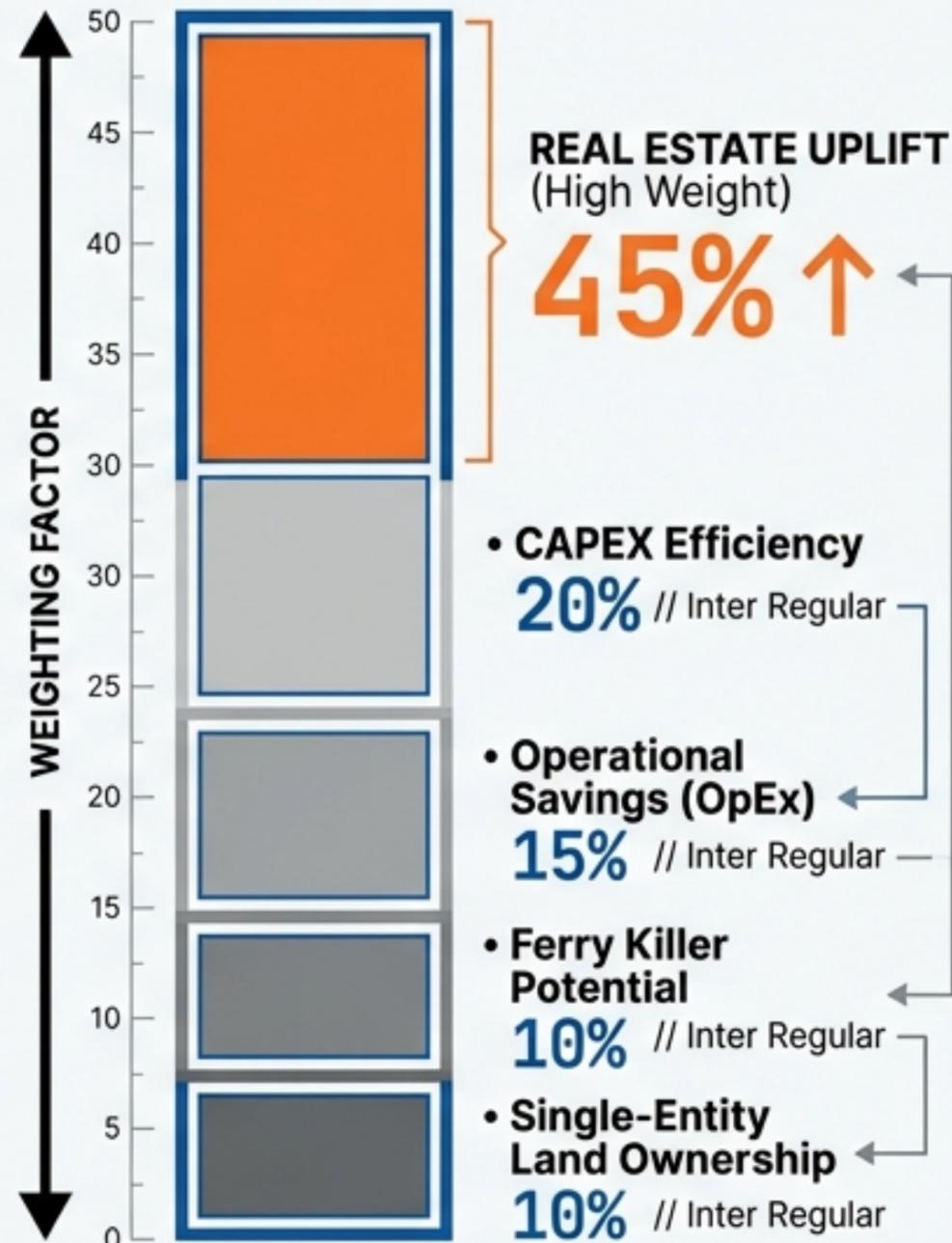
# THE METHODOLOGY: HUNTING FOR THE 'STRATEGIC MILE'

## TBC CRITERIA



- **LENGTH:** Inter Regular  
~1 Mile (1.6 km) // Last-mile focus
- **TECH:** JetBrains Mono Data  
Prufrock TBM // Continuous mining
- **DIAMETER:** Inter Regular Data  
12 feet (3.6m)  
// Autonomous Electric Pods

## ROI SCORING MATRIX



## THE GOAL

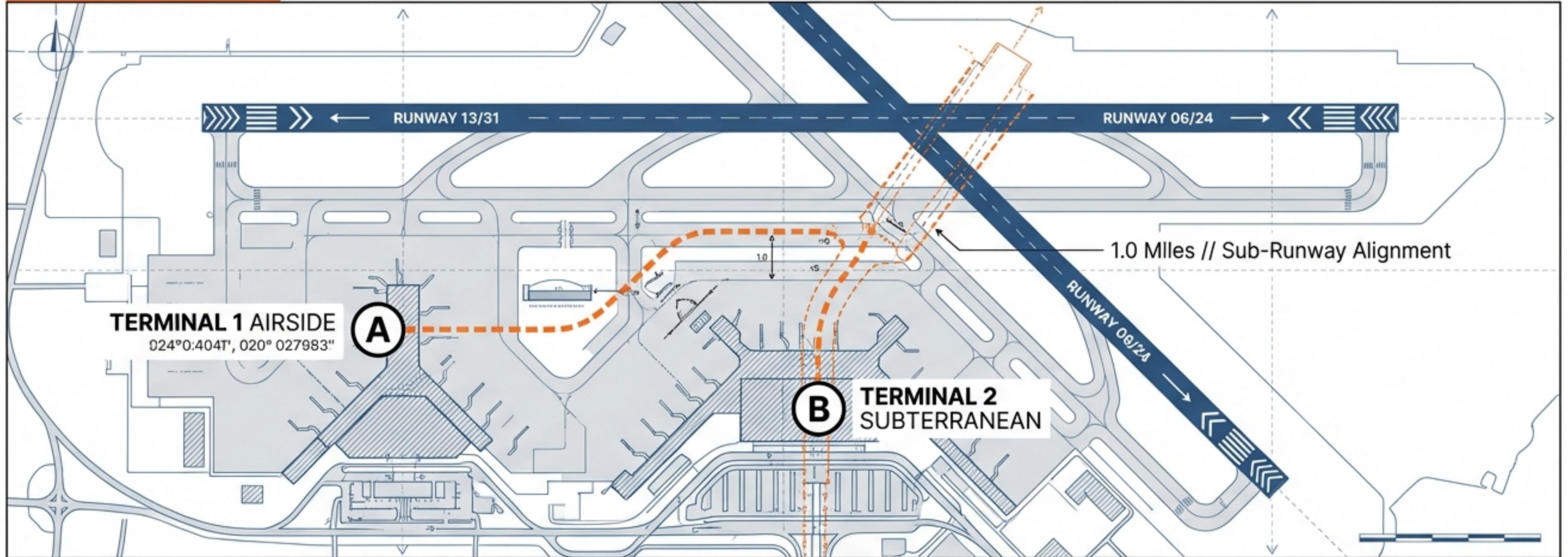
“ We identified bottlenecks where surface alternatives—bridges, ferries, road widening—are cost-prohibitive, politically untenable, or physically impossible. ”

The strategic mile is a surgical intervention that bypasses complex, capital-intensive infrastructure challenges to unlock exponential value through direct, high-throughput connectivity.

# MANILA NAIA INTER-TERMINAL LOOP (PHILIPPINES)

PROJECT #1

ROI SCORE: 98/100



## THE BOTTLENECK:

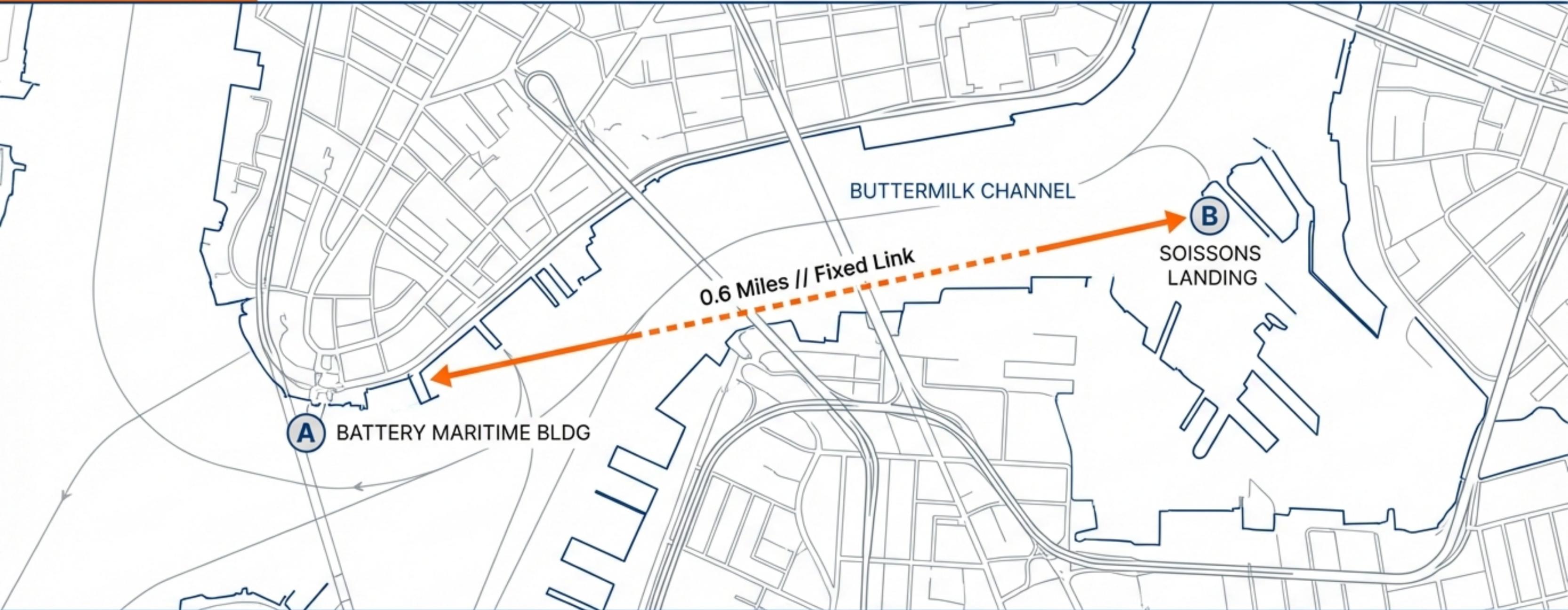
NAIA operates at 140% capacity.  
Transfers take 60 mins via city traffic.

## THE SOLUTION:

Secure airside connector.  
3-minute transfer time.

## KEY ASSET:

Single Land Owner (MIAA) =  
Zero Right-of-Way Delays.

**THE BOTTLENECK:**

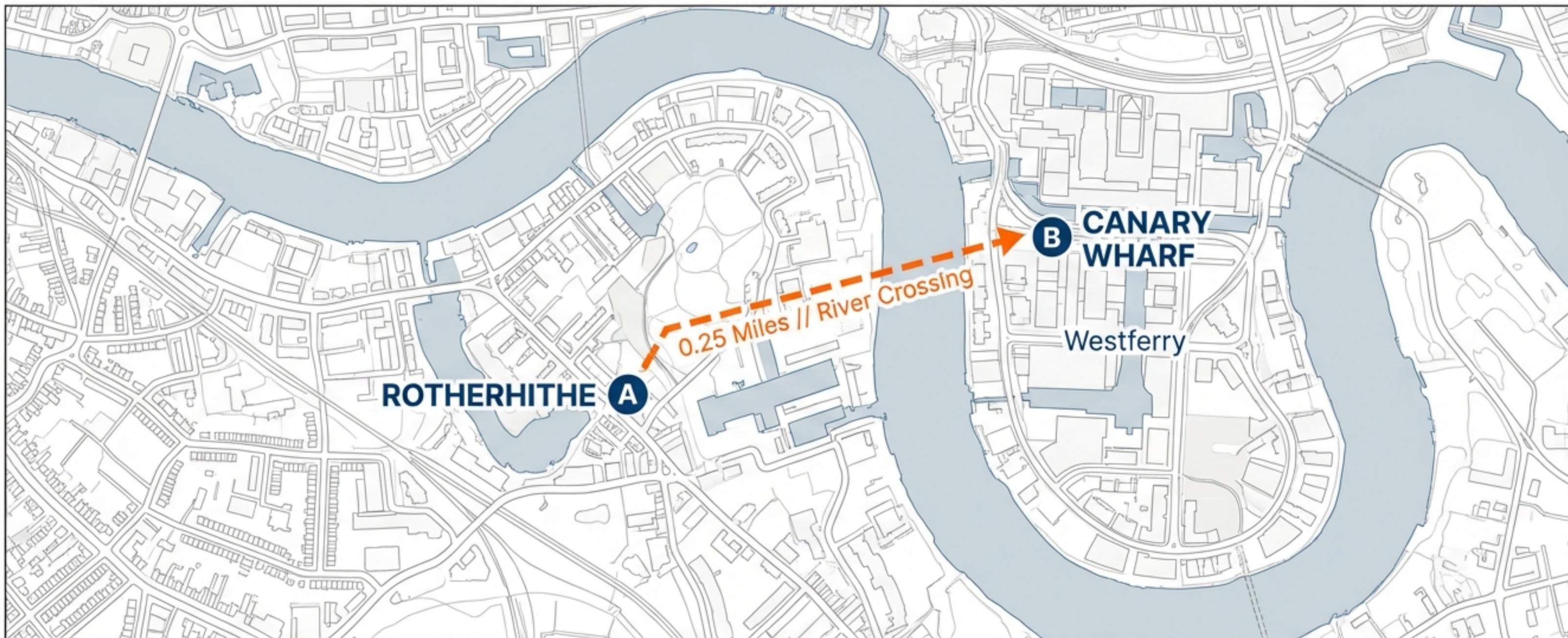
Island is a "park" limited by ferry curfews. No 24/7 access.

**THE SOLUTION:**

A tunnel transforming the park into a neighborhood.

**KEY ASSET:**

\$500M+ Real Estate Value Uplift.

**THE BOTTLENECK:**

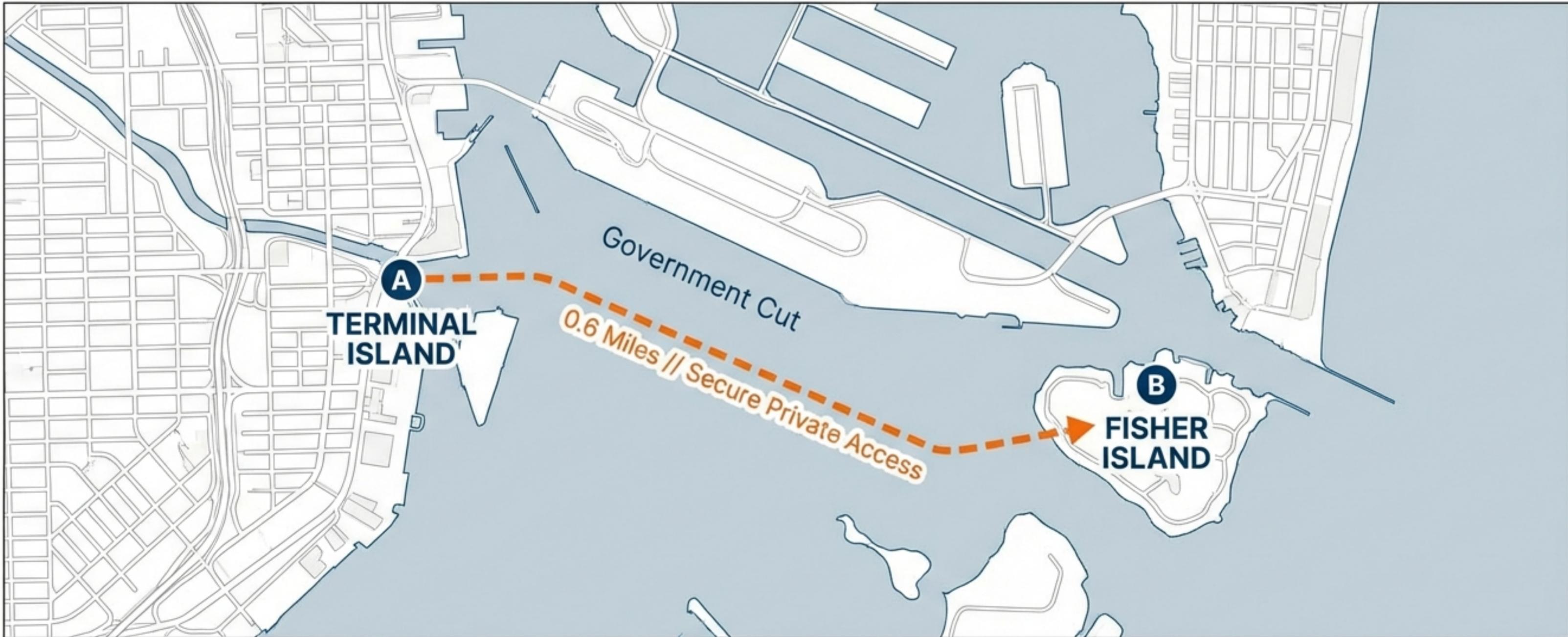
A 400m gap forces a 30-min detour. Bridge cancelled (£463m).

**THE SOLUTION:**

Cyclist & Pedestrian corridor.  
No interference with shipping.

**KEY ASSET:**

Cost-effective alternative to the failed bridge project.



**THE BOTTLENECK:**

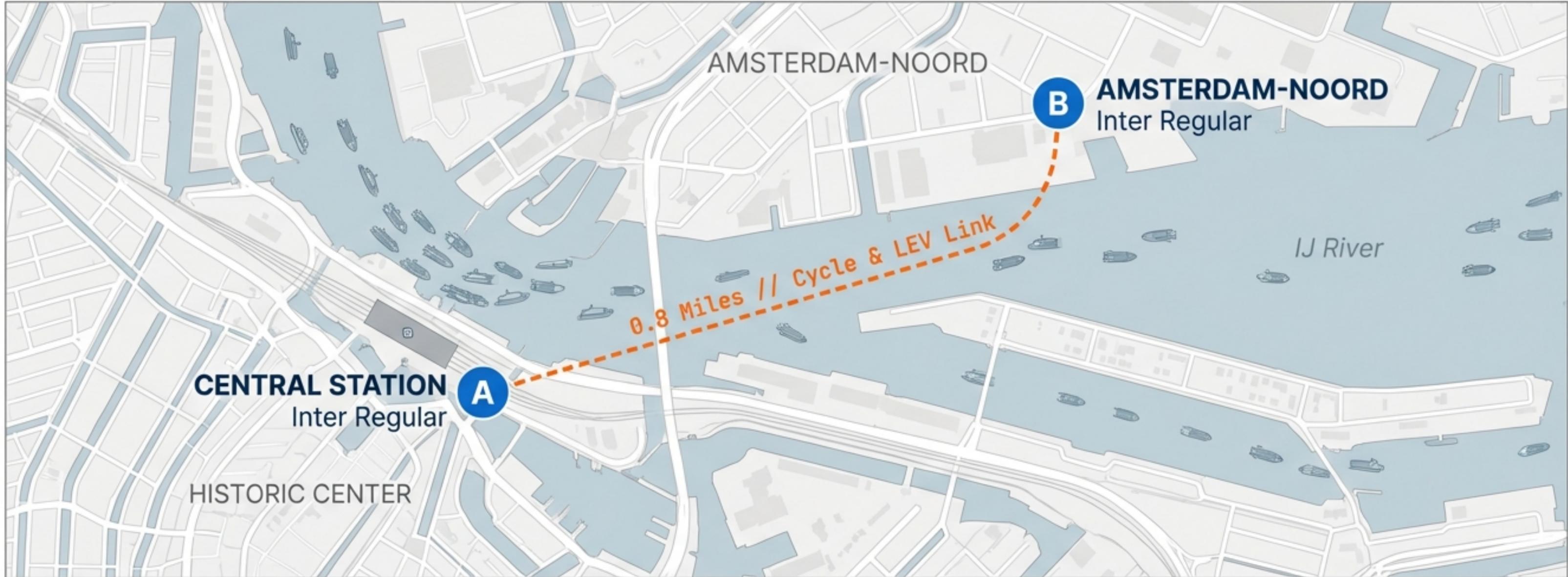
Mainland ferry terminal land sold; existential risk to access.

**THE SOLUTION:**

Sovereign, private tunnel for residents and services.

**KEY ASSET:**

100% Privately Fundable by wealthiest zip code in US.



**THE BOTTLENECK:**

Free ferries overwhelmed by 70,000+ daily users.

**THE SOLUTION:**

'Jump over the IJ' - dedicated cyclist tunnel.

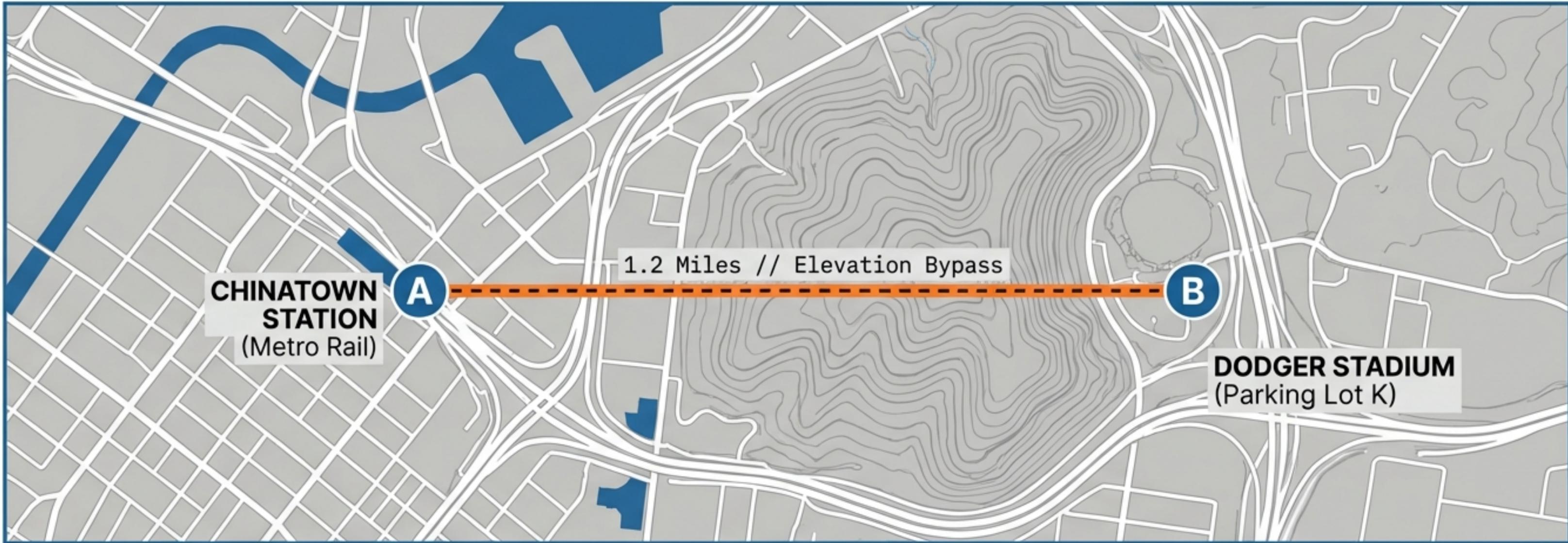
**KEY ASSET:**

Relieves critical pressure on municipal ferry system.

**PROJECT #6**

**DODGER STADIUM EXPRESS LOOP (LOS ANGELES, CA)**

**ROI SCORE: 82/100**



**THE BOTTLENECK:**

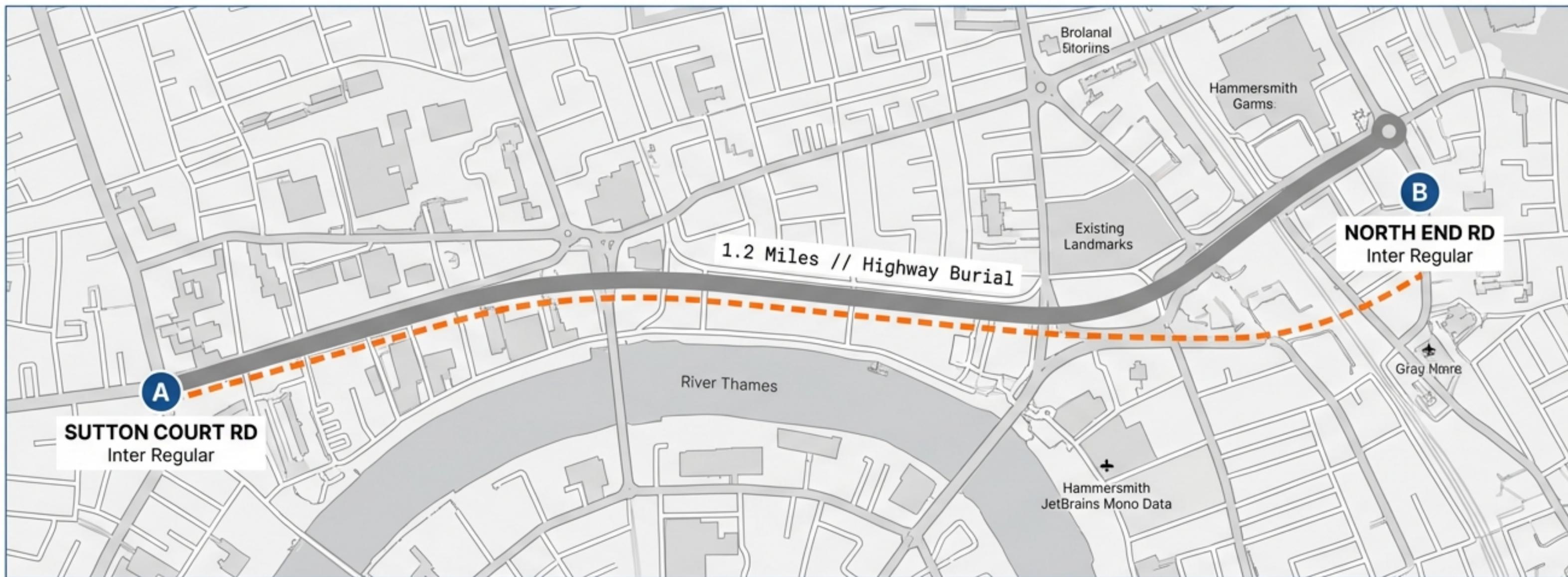
“Last Mile” is a steep vertical climb. 25-min walk uphill.

**THE SOLUTION:**

Bypasses topography. 3-minute ride.

**KEY ASSET:**

High visibility project for LA 2028 Olympics.

**THE BOTTLENECK:**

Ugly concrete viaduct severs town from the river.

**THE SOLUTION:**

Bury the highway to reclaim surface land.

**KEY ASSET:**

Reclaims 360,000 sqm of prime development land.

# Precision Engineering Editorial

PROJECT #8

NAVY PIER TRANSIT CONNECTOR (CHICAGO, IL)

ROI SCORE: 76/100



## THE BOTTLENECK:

1.5 miles of surface congestion and harsh winter weather.

## THE SOLUTION:

Rapid, weather-proof link extending tourism season.

## KEY ASSET:

Transforms a summer destination into a year-round asset.



### THE BOTTLENECK:

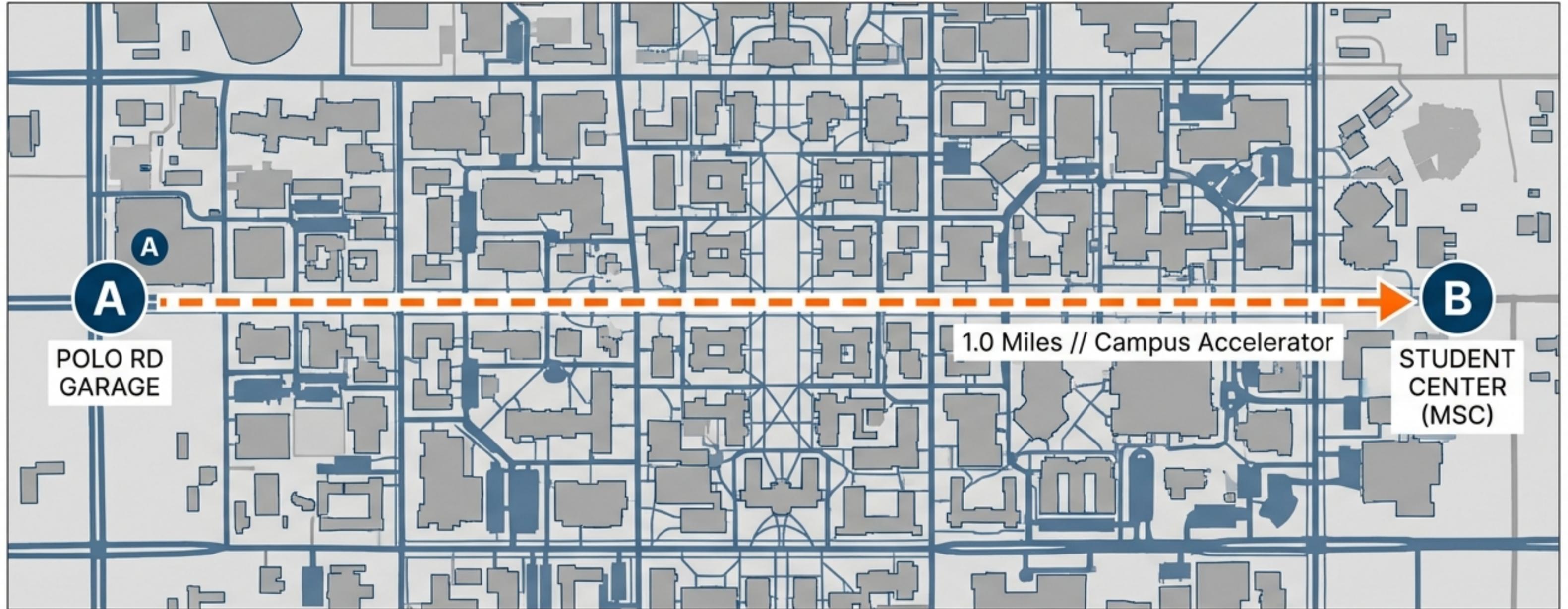
Cars clog the single entry, ruining pedestrian atmosphere.

### THE SOLUTION:

Ingress/Egress tunnel enabling a car-free district.

### KEY ASSET:

Crosses creek in 1 minute vs 20 min drive.

**THE BOTTLENECK:**

Massive surface distances;  
students can't cross in 20 mins.

**THE SOLUTION:**

Autonomous shuttle loop  
reducing transit to 2 mins.

**KEY ASSET:**

Single Land Owner (University)  
= Fastest Construction.

# STRATEGIC THESIS: THE 'FERRY KILLER' & THE SUBSURFACE BRIDGE

## THE FERRY KILLER



50% of top projects (Gov Island, London, Fisher Is., Amsterdam, Vancouver) replace inefficient maritime routes. Tunnels = High CAPEX but Near-Zero OPEX.

## THE DEAD ZONE



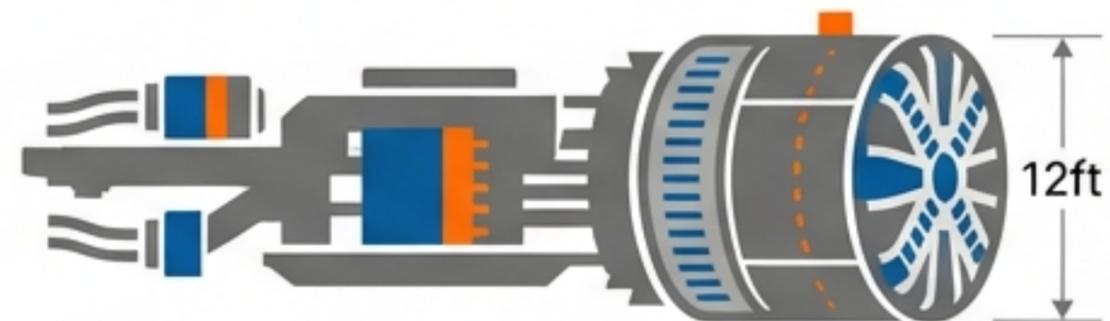
The 1-mile distance is an infrastructure gap: too long for a causeway, too short for a high-clearance bridge. Prufrock thrives here.

## LAND OWNERSHIP SPEED



Single-owner projects (Manila, Texas A&M) bypass Right-of-Way delays. The 'Golden Ticket' for rapid deployment.

## THE SURGICAL SOLUTION



12ft Diameter fits where bridges cannot. Minimal surface disruption.

# THE PATH FORWARD: SURGICAL PRECISION

RANK	PROJECT	PROBLEM SOLVED	ROI SCORE
01	Manila NAIA	Airport Hub Efficiency	98
02	Governors Island	Real Estate Unlock	94
03	London Rotherhithe	Commuter Link	91
04	Fisher Island	Strategic Resilience	89
05	Amsterdam IJ	Urban Flow	85
06	LA Dodger Stadium	Event Traffic	82
07	London Hammersmith	Land Reclamation	79
08	Chicago Navy Pier	Seasonality Fix	76
09	Vancouver Granville	Car-Free Zone	74
10	Texas A&M	Campus Speed	72

*From Manila's runways to London's riverbanks,  
the highest value lies in the invisible mile.*