



**Hillsborough TPO**  
Transportation  
Planning Organization

# Access 2050 Plan Needs Assessment for Major Projects: Performance Data

2050 Long Range Transportation Plan (LRTP)

April 2024



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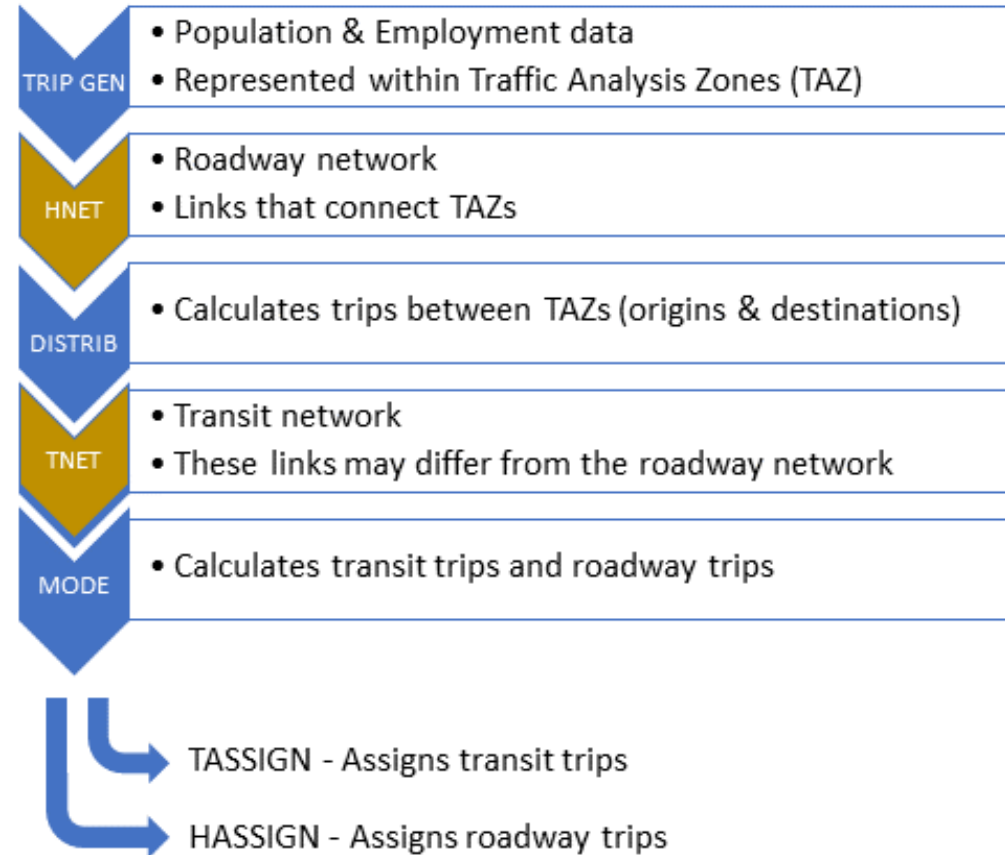
# Discussion Outline

- Objective of Major Projects Assessment
- Project Testing Methodology
- Performance Metrics
- Project Ranking
- Project Costs
- Cost – Benefit Assessment

# Objective of Major Projects Assessment

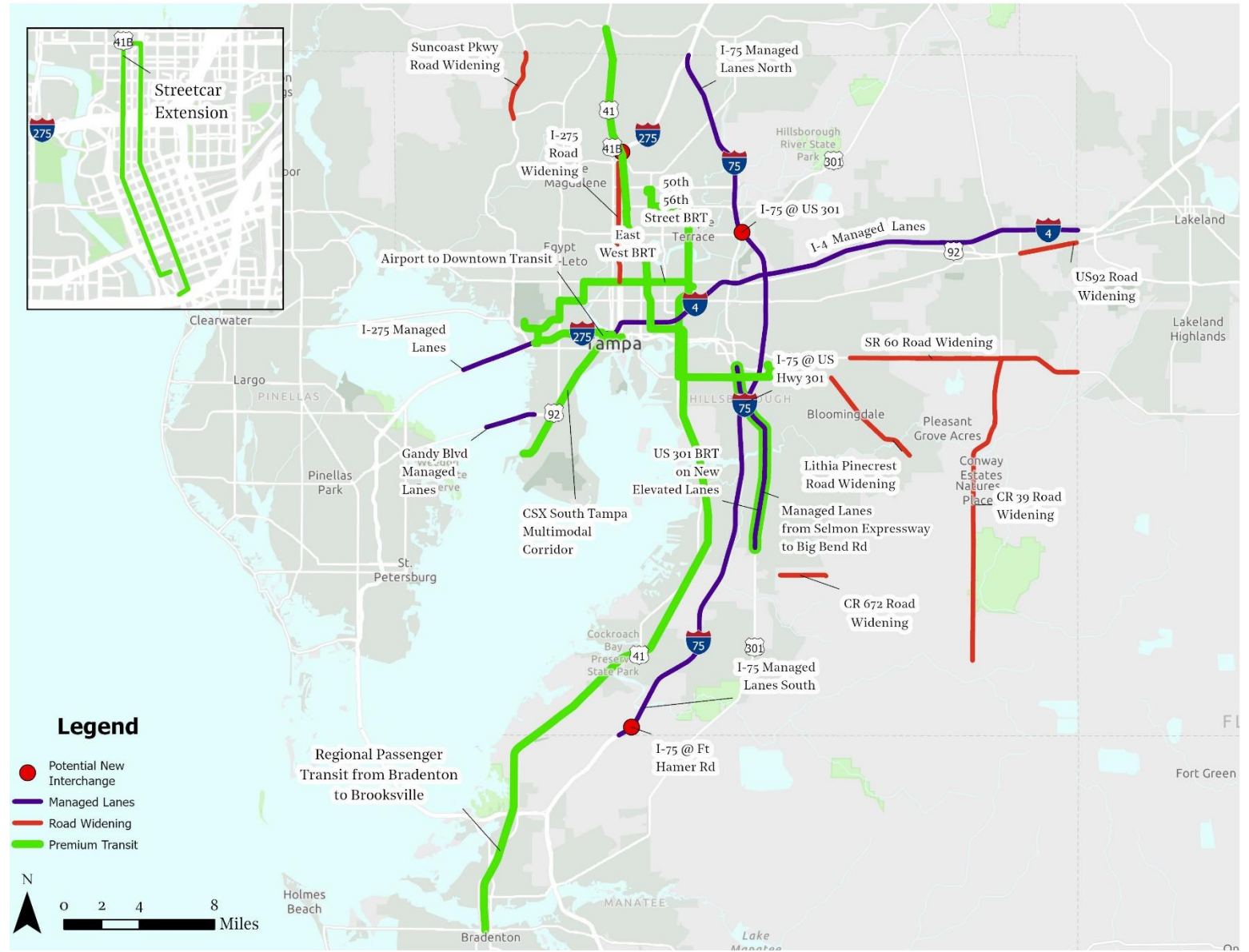
- Part of the 2050 Needs Plan
- Determine the effectiveness of major investment transportation projects
  - Managed Lanes
  - Interchanges
  - Capacity
  - Premium Transit

# Tampa Bay Regional Planning Model (TBRPM)



# Major Investment Projects Evaluated

- 22 separate projects
- 10 model run scenarios



# TBRPM Major Project Scenarios (1 – 5)

Major Project	From	To	Test Scenarios
I-4	Downtown	Polk County Line	1
Regional Passenger Transit (US 41/ CSX)	Bradenton	Brooksville	1
Airport to Downtown Transit	Airport	Downtown	2
US 92	Park Rd	Polk County Line	2
Managed Lanes on I-275	SR 60 Westshore Interchange	Downtown	2, 3, 9
CSX South Tampa Multimodal Corridor	Downtown	SW peninsula of Tampa	3
Lithia Pinecrest Widening	Fishhawk Blvd	Lumsden Rd	3
Managed Lanes on I-275	SR 60 Westshore Interchange	Downtown	2, 3, 9
I-75 Interchange north of Manatee County Line	New		4
Suncoast Parkway	Van Dyke Rd	County Line	4
SR 60	Valrico Rd	Polk County Line	4
Balm Rd	Clement Pride Blvd	Balm Riverview Rd	5
I-275	Hillsborough Ave	Bearss Ave	5

# TBRPM Major Project Scenarios (6-10)

Major Project	From	To	Test Scenarios
CR 39 Widening	SR 60	SR 674	6
I-75 interchange at US 301/Harney Road.	US 301	Harney Rd	6
Downtown Tampa, USF, Brandon Transit	USF	Brandon	6
Arterial (50th/56th) BRT	USF	Brandon	7
I-275/ US 41 Interchange			7
I-75 Managed Lanes South	Downtown Tampa	Manatee County Line	7
CR 672	Clement Pride	Balm Riverview Rd	8
East West BRT	Brandon	Westshore	8
I-75 Managed Lanes North	Pasco County Line	Downtown Tamps	8
Invision Streetcar Extn	Fort Brooke Garage	Palm Ave	9
Managed Lanes on I-275	SR 60 Westshore Interchange	Downtown	2, 3, 9
Lee Roy Selmon/Crosstown Extn from current terminus near US 301 to Big Bend Road	US 301	Big Bend Rd	10
US301 BRT	End os Selmon Expressway	US 301	10
Gandy Bridge	Pinellas County Line	Selmon Gandy Blvd Extension	10

# Metrics

- Person Hours of Delay
- Access to Jobs
- Auto Travel Time
- Transit Travel Time
- Planning Time & Reliability Indices
- Transit Ridership



# Person Hours of Delay Top Projects

PROJECT	DESCRIPTION	PM PEAK HOURS SAVED	DAILY HOURS SAVED
I-4 Managed Lanes	Add 4L – I-275 to Polk Co.	22,425	55,847
I-75 South Managed Lanes	Add 4L – I-4 to Manatee Co.	4,891	20,284
Crosstown US 301	Add 4L (upper deck) – US 301 to Big Bend Rd	2,837	8,475
I-275 Managed Lanes	Add 4L – SR 60 Westshore to I-4	1,823	5,885
I-75 North Managed Lanes	Add 4L – I-4 to Pasco Co.	700	5,458
Lithia Pinecrest Widening	2 to 4L – Fishhawk Blvd to Lumsden Rd	1,287	2,643
SR 60 Widening	4 to 6L – Valrico Rd to Polk Co.	1,323	2,550
I-275 Widening	6 to 8L - Hillsborough Ave to Bearss Ave	742	1,998

# Access to Jobs Top Projects

PROJECT	DESCRIPTION	INCREASE IN ACCESS (Peak Period)
<b>ROADWAY</b>		
Suncoast Parkway	4 To 8L – Van Dyke Rd to Pasco Co.	41%
SR 60	4 to 6L – Valrico Rd to Polk Co.	33%
I-75 & US301/Harney Rd	Interchange reconstruction	21%
Crosstown US 301	Add 4L (upper deck) – US 301 to Big Bend Rd	19%
I-75 South Managed Lanes	I-4 to Manatee Co.	18%
<b>TRANSIT</b>		
MetroRapid Brandon	BRT – Brandon to USF	18%
US 41 Rail	Bradenton to Brooksville	6%
South Tampa Rail	Downtown to SW Peninsula	5%

# Overall Project Rankings

Project	Description	Project Limits	Rank
I-4 Managed Lanes (Scenario 1)	Managed Lanes (4 new)	Downtown (I-275) to Polk County	1
Lithia Pinecrest (Scenario 3)	Widen 2 to 4 lanes	Fishhawk Blvd to Lumsden Rd	2
Suncoast Parkway (Scenario 4)	Widening to 8 lanes	Van Dyke Rd to County line	3
Crosstown US 301 (Scenario 10)	Add upper deck lanes; 2 each direction	US 301 to Big Bend Road	4
I-75 Managed Lanes South (Scenario 7)	Managed Lanes (4 new)	Downtown to Manatee County	5
I-275 Managed Lanes (Scenario 2)	Managed Lanes (4 new)	SR 60 Westshore Int. to Downtown (I-4)	6
SR 60 (Scenario 4)	Widen 4 to 6 lanes	Valrico Rd to Polk County	7
South Tampa Rail (CSX Multimodal Corridor) (Scenario 8)	Transit (rail)	Downtown to SW Tampa peninsula	8
CR 39 (Scenario 6)	Widen 2 to 4 lanes	SR 60 to SR 674	9
Metrorapid Brandon (Scenario 7)	BRT on 50th / 56th Street	USF to Brandon	10
I-75 Managed Lanes North (Scenario 8)	Managed Lanes (4 new)	Pasco County to Downtown (I-4)	11
US 92 (Scenario 2)	Widen 2 to 4 lanes	Park Rd to Polk County	12
Airport to Downtown Transit (Scenario 2)	Rail or streetcar	Airport to Downtown	13
I-275 (Scenario 5)	Widen 6 to 8 lanes	Hillsborough Ave to Bearss Ave	14
I-275/US-41 Interchange (Scenario 7)	New interchange	At US 41	15
CR 672 / Balm Rd (Scenario 8)	Widen 2 to 4 lanes	Clement Pride to Balm Riverview Rd	16
I-75 Interchange (Scenario 4)	New interchange	North of Manatee County line (Ft. Hamer Rd)	17
Metrorapid Brandon (East West BRT) (Scenario 8)	Transit (BRT)	Airport/Westshore to Temple Terrace	18
USF Brandon Rail (50th 56th BRT) (Scenario 6)	Downtown, USF, Brandon Transit	USF to Brandon	19
I-75 Interchange (Scenario 6)	New interchange	US 301 to Harney Rd	20
I-75/US 301 Interchange (Scenario 9)	Interchange Reconstruction	US 301 (south)	21
US 41 Rail (Scenario 1)	Regional passenger rail	Bradenton to Brooksville	22
Gandy Bridge (Scenario 10)	New bridge	Pinellas County to Selmon Gandy extension	23
US 301 BRT (Scenario 10)	BRT on new road	End of Selmon Xway to US 301 (Big Bend Rd)	24
TECO Streetcar Extension (Scenario 9)	Along Tampa Ave/FL Ave one-way pairs	Ft. Brooke Garage to Palm Ave	25

# Project Costs

- To identify probable cost for future work program implementation
- Current dollar value
- Several sources (PD&Es, infrastructure grant applications, per-mile planning costs, etc.)
- Variability recognized in FDOT project bids

# Project Costs

Scenario	Project	Description	Project Limits	Rank	Length (mi)	Cost Estimate
Scenario_1	I-4 Managed Lanes (Scenario 1)	Managed Lanes (4 new)	Downtown (I-275) to Polk County	1	26.34	\$ 355,413,614
Scenario_3	Lithia Pinecrest (Scenario 3)	Widen 2 to 4 lanes	Fishhawk Blvd to Lumsden Rd	2	6.00	\$ 200,000,000
Scenario_4	Suncoast Parkway (Scenario 4)	Widening to 8 lanes	Van Dyke Rd to County line	3	3.73	\$ 21,000,196
Scenario_10	Crosstown US 301 (Scenario 10)	Add upper deck lanes; 2 each direction	US 301 to Big Bend Road	4	10.07	N/A
Scenario_7	I-75 Managed Lanes South (Scenario 7)	Managed Lanes (4 new)	Downtown to Manatee County	5	20.02	\$ 147,744,983
Scenario_2	I-275 Managed Lanes (Scenario 2)	Managed Lanes (4 new)	SR 60 Westshore Int. to Downtown (I-4)	6	9.03	\$ 1,247,213,301
Scenario_4	SR 60 (Scenario 4)	Widen 4 to 6 lanes	Valrico Rd to Polk County	7	12.31	\$ 59,549,761
Scenario_3	South Tampa Rail (CSX Multimodal Corridor) (Scenario 3)	Transit (rail)	Downtown to SW Tampa peninsula	8	8.55	\$ 175,000,000
Scenario_6	CR 39 (Scenario 6)	Widen 2 to 4 lanes	SR 60 to SR 674	9	16.54	\$ 162,360,338
Scenario_3	I-275 Managed Lanes (Scenario 3)	Managed Lanes (4 new)	SR 60 Westshore Int. to Downtown (I-4)	10	9.03	\$ 1,247,213,301
Scenario_7	Metrorapid Brandon (Scenario 7)	BRT on 50th / 56th Street	USF to Brandon	11	18.48	\$ 165,000,000
Scenario_8	I-75 Managed Lanes North (Scenario 8)	Managed Lanes (4 new)	Pasco County to Downtown (I-4)	12	19.81	\$ 483,494,000
Scenario_2	US 92 (Scenario 2)	Widen 2 to 4 lanes	Park Rd to Polk County	13	3.05	\$ 88,913,500
Scenario_2	Airport to Downtown Transit (Scenario 2)	Rail or streetcar	Airport to Downtown	14	12.93	\$ 800,000,000
Scenario_5	I-275 (Scenario 5)	Widen 6 to 8 lanes	Hillsborough Ave to Bearss Ave	15	6.37	\$ 94,842,704
Scenario_7	I-275/US-41 Interchange (Scenario 7)	New interchange	At US 41	16	0.50	\$ 2,813,479
Scenario_9	I-275 Managed Lanes (Scenario 9)	Managed Lanes (4 new)	SR 60 Westshore Int. to Downtown (I-4)	17	9.03	\$ 1,247,213,301
Scenario_8	CR 672 / Balm Rd (Scenario 8)	Widen 2 to 4 lanes	Clement Pride to Balm Riverview Rd	18	2.46	\$ 24,104,078
Scenario_4	I-75 Interchange (Scenario 4)	New interchange	North of Manatee County line (Ft. Hamer Rd)	19	0.5	\$ 73,800,000
Scenario_5	CR 672 / Balm Road (Scenario 5)	Widen 2 to 4 lanes	Clement Pride to Balm Riverview Rd	20	2.46	\$ 24,104,078
Scenario_8	Metrorapid Brandon (East West BRT) (Scenario 8)	Transit (BRT)	Airport/Westshore to Temple Terrace	21	12.63	\$ 115,500,000
Scenario_6	USF Brandon Rail (50th 56th BRT) (Scenario 6)	Downtown, USF, Brandon Transit	USF to Brandon	22	18.48	\$ 165,000,000
Scenario_6	I-75 Interchange (Scenario 6)	New interchange	US 301 to Harney Rd	23	0.5	\$ 73,800,000
Scenario_9	I-75/US 301 Interchange (Scenario 9)	Interchange Reconstruction	US 301	24	0.5	\$ 7,051,657
Scenario_1	US 41 Rail (Scenario 1)	Regional passenger rail	Bradenton to Brooksville	25	55.07	N/A
Scenario_10	Gandy Bridge (Scenario 10)	New bridge	Pinellas County to Selmon Gandy extension	26	2.66	\$ 472,147,934
Scenario_10	US 301 BRT (Scenario 10)	BRT on new road	End of Selmon Xway to US 301 (Big Bend Rd)	27	10.07	N/A
Scenario_9	TECO Streetcar Extension (Scenario 9)	Along Tampa Ave/FL Ave one-way pairs	Ft. Brooke Garage to Palm Ave	28	2.71	\$ 250,000,000

# Cost – Benefit Assessment

PROJECT	DESCRIPTION	PERSON HOURS SAVED per \$1 M PROJECT COST
I-4 Managed Lanes	Add 4L – I-275 to Polk Co.	157.1
I-75 South Managed Lanes	Add 4L – I-4 to Manatee Co.	137.3
Suncoast Parkway	Add 4L – Van Dyke Rd to Pasco Co.	50.3
SR 60 Widening	4 to 6L – Valrico Rd to Polk Co.	42.8
CR 39 Widening	2 to 4L - SR 60 to SR 674	33.6
I-275 Widening	6 to 8L - Hillsborough Ave to Bearss Ave	21.0
Lithia Pinecrest Widening	2 to 4L – Fishhawk Blvd to Lumsden Rd	13.2
I-75 North Managed Lanes	Add 4L – I-4 to Pasco Co.	11.3
US 92 Widening	2 to 4L – Park Rd to Polk Co.	6.7

Questions?

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