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TRB Webinar: Innovation After Dark—Boosting Nighttime Transit Ridership

November 10, 2025

12:00 – 1:30 PM



AICP Credit Information

1.5 American Institute of Certified Planners Certification
Maintenance Credits

You must attend the entire webinar

Log into the American Planning Association website to claim your
credits

Contact AICP, not TRB, with questions

Purpose Statement

This webinar will explore findings from TCRP Synthesis 181: Planning and Operations Initiatives to Support Nighttime Transit Ridership. This session will highlight how agencies are prioritizing nighttime service, addressing challenges, and implementing innovative practices to meet the needs of late-shift workers and the nighttime economy.

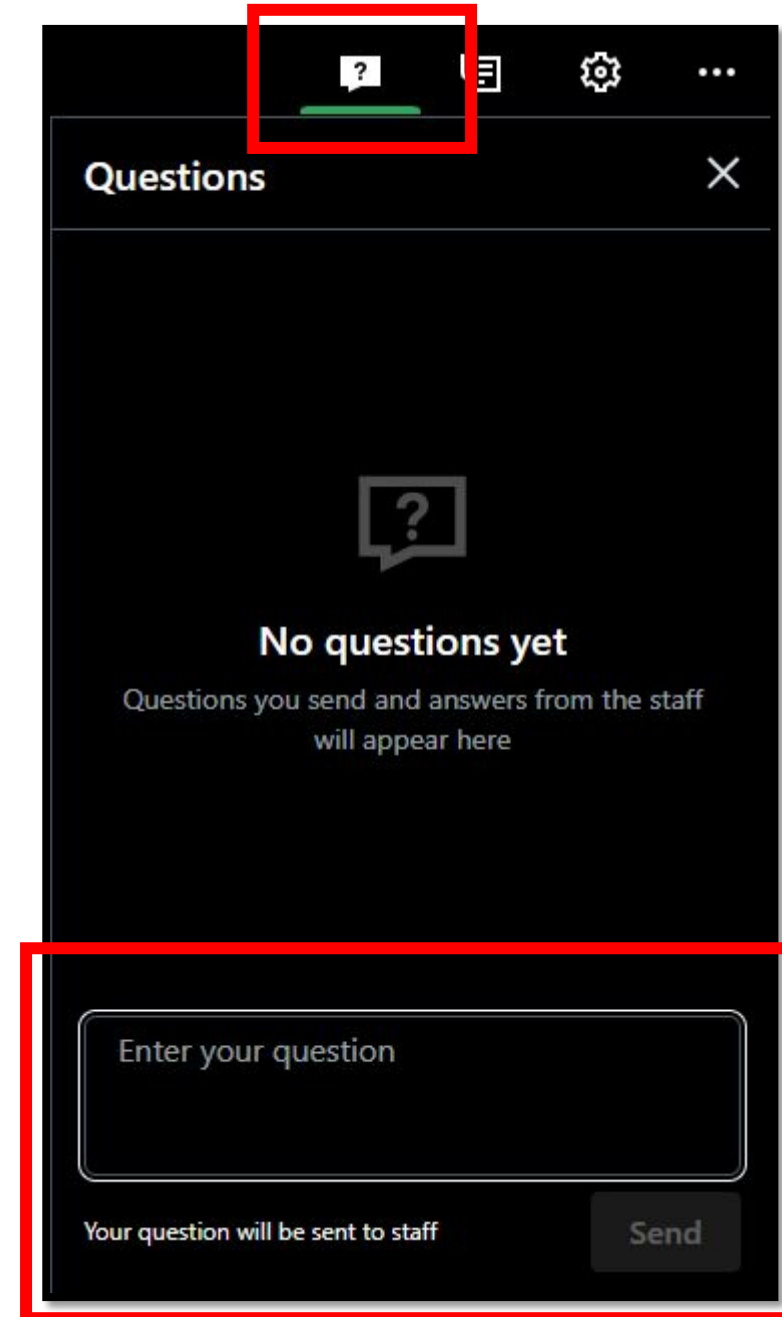
Learning Objectives

At the end of this webinar, you will be able to:

1. Evaluate strategies for planning and implementing nighttime transit services that address safety concerns, operational limitations, and rider needs
2. Identify innovative practices used by transit agencies to enhance safety and reliability during overnight service

Questions and Answers

- Please type your questions into your webinar control panel
- We will read your questions out loud, and answer as many as time allows



The screenshot shows a dark-themed mobile application interface for a webinar Q&A session. At the top, a navigation bar contains several icons: a question mark icon (highlighted with a red box), a list icon, a settings gear icon, and a three-dot menu icon. Below the navigation bar is a header section with the word "Questions" and a close button (X). The main content area displays a large question mark icon and the text "No questions yet" followed by "Questions you send and answers from the staff will appear here". At the bottom, a red box highlights the input area, which includes a text field with the placeholder "Enter your question", a small text note "Your question will be sent to staff", and a "Send" button.

Today's Presenters



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Jessica Garcia
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Jacob Simmons
SimmonsJ@rtcsonv.com



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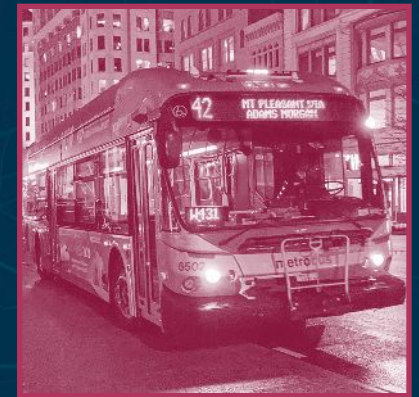
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Transportation Research Board

Innovation After Dark – Boosting Nighttime Transit Ridership

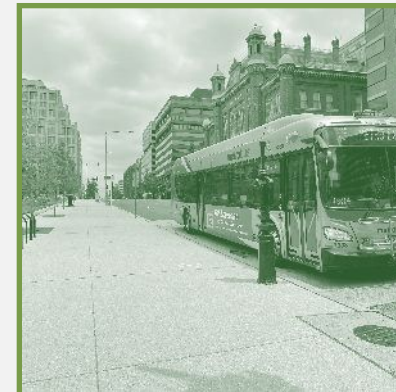
TRB Webinar

November 10, 2025



Prepared by:

Foursquare
ITP

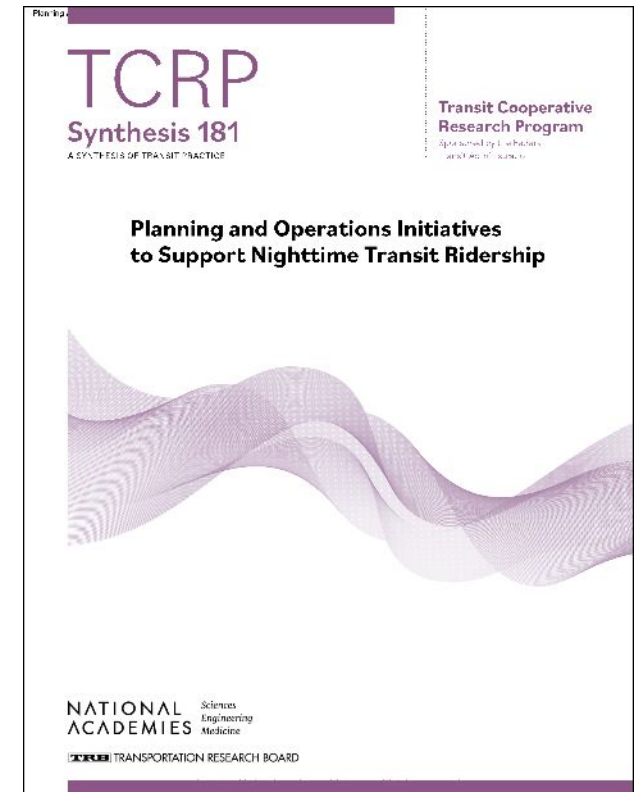


Background

- The pandemic impacted **how** and **how much we move**, resulting in **changes in transit ridership** and trip **distribution during the day**
- It also highlighted the critical **importance of transit to essential workers**
- **Off-peak ridership turned out to be more resilient than peak ridership**, and many transit agencies have been increasingly focusing on off-peak service and its ridership to create 24/7 ubiquitous mobility and accessibility

Research

- The recently published **TCRP Synthesis 181: Planning and Operations Initiatives to Support Nighttime Transit Ridership** documents initiatives agencies have taken to support:
 - Nighttime demand overall and
 - Nighttime essential, service, and shift workers



Research Approach

1 Literature Review

2 National Survey

3 Case Examples

Survey Topics:

1. Nighttime Economy
2. Planning
3. Partnerships
4. Resources and Fares
5. Performance Monitoring
6. Safety
7. Challenges and Successful Initiatives



CASE STUDY FOCUS

Safety

Operational Solutions

Resources

Ridership Patterns and Recovery

Partnerships

Key Insights from the Report

- Nighttime ridership is **essential but underserved**.
- **Nighttime economies are expanding**, but planning frameworks rarely distinguish nighttime from daytime needs.
- **Partnerships** with employers, municipalities, or universities can fill funding and service gaps, but these are still uncommon.
- Data and organizational gaps persist: **few agencies have formal nighttime planning structures or metrics**.

Key Insights from the Report

- Nighttime service tends to be fixed-route, but many **smaller agencies** rely more on **microtransit or TNC subsidies**.
- Most agencies (96%) identified **shift and service workers** as their **main nighttime markets**.
- **Safety** (identified by 80% of agencies) and **workforce shortages** (68%) are key challenges.
- Agencies track safety and **transfer times** more closely at night, emphasizing **reliability** and **security over productivity metrics**.

Advancing Nighttime Transit

- Today's presenters represent agencies that have each taken **innovative steps to meet nighttime mobility needs.**



Moving Phoenix After Dark: Lessons from Nighttime Ops

Aaron Xaevier
Service Planning & GIS Manager



About Valley Metro

- Serves **Maricopa County (Phoenix metro)**
- Operates bus, light rail, and streetcar
- 19 member cities
- ~10.7 million rail and 27.7M bus rides per year



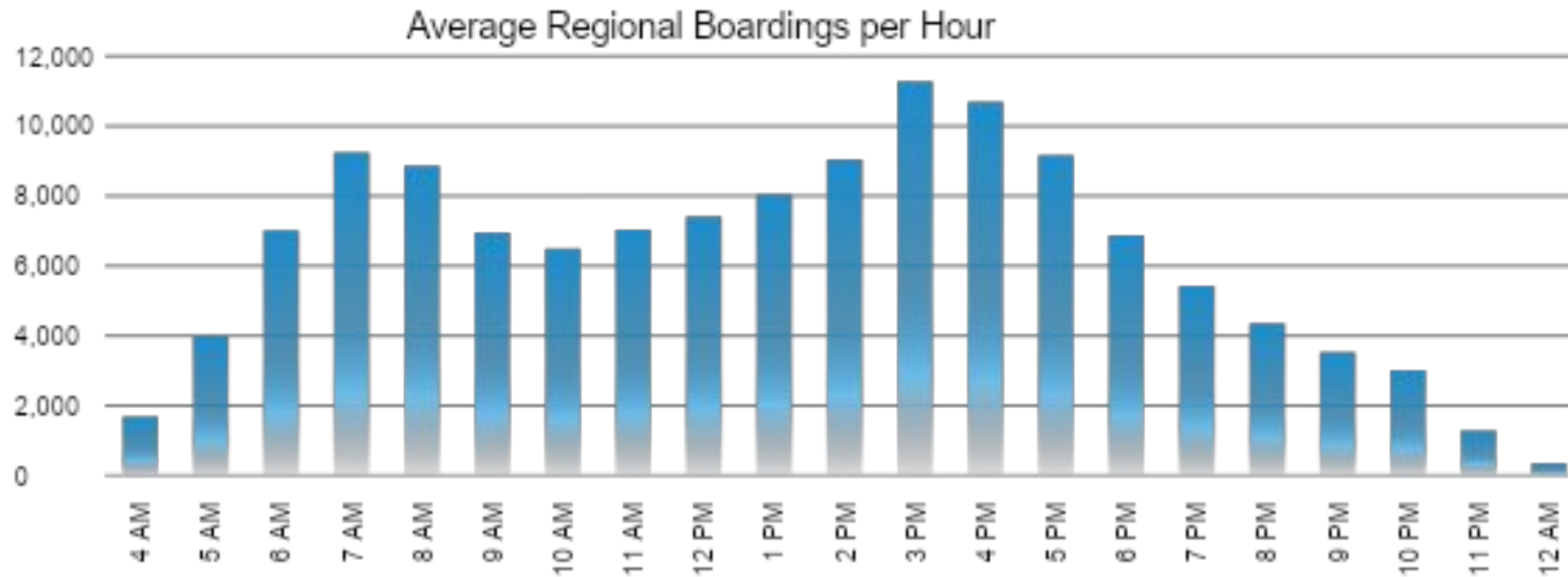
Why Nighttime Transit Matters

- Pandemic flattened ridership peaks
- Off-peak trips more resilient than rush hour
- Night workers = essential workers
- Agencies re-evaluating late-night service

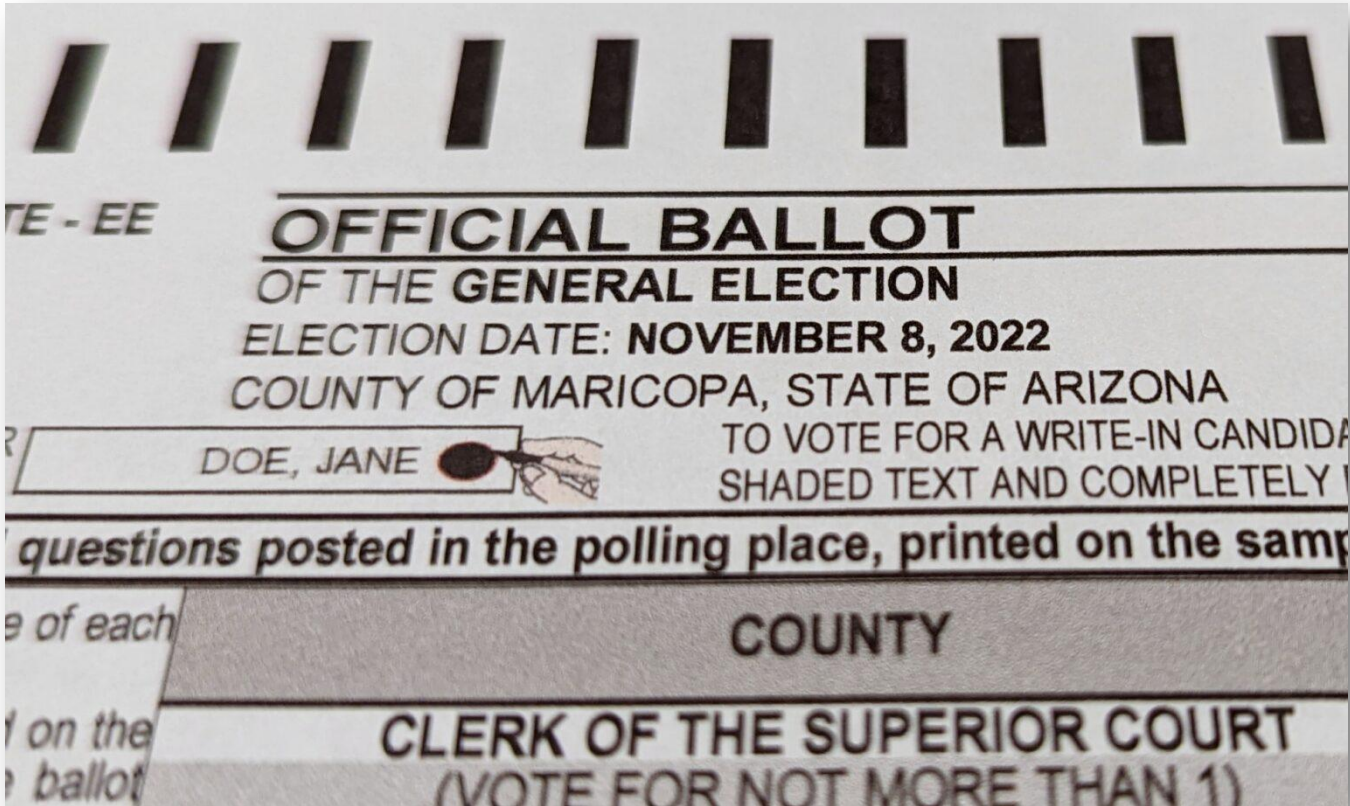


Current Nighttime Service Span

- **Light Rail:** 4:40 a.m.–12 a.m. (Fri/Sat to ~3 a.m.)
- **Tempe Streetcar:** 6 a.m.–12 a.m.
- **Bus:** Most routes end ~10 p.m.; Phoenix extends to midnight
- **Focus:** Extended service Friday & Saturday



Planning & Funding Context



- Funded by **½-cent county sales tax**
- Renewal measure tied funds to **productivity metrics**
- City of Phoenix still restoring some pre-COVID night routes
- Expansion limited by operator and facility capacity

Key Challenges

- Multiple police jurisdictions
- Limited lighting/shelters at suburban stops
- Gender-based safety concerns
- Operator & security turnover



Safety Strategies Implemented

- **Full span coverage of security officers** on rail
- **Fare inspection + customer service** roles
- **Incident tracking system** for crimes & vandalism
- **Hotspot mapping** for police coordination
- **Real-time tracking app** enhances rider confidence
- **Project Blue Ride** brings police onto high incident routes



Notable Results

30% decline in light rail incidents (Q1 2024 vs 2023)

Better coordination with police

Improved data sharing

Stable rider satisfaction scores

Security Incident Rates (July - September 2025)

Total Incidents

40

Incidents Per 100K Boardings

1.33

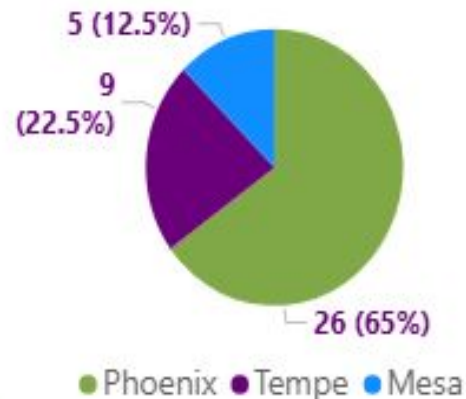
Calendar Year Over Year

-25%

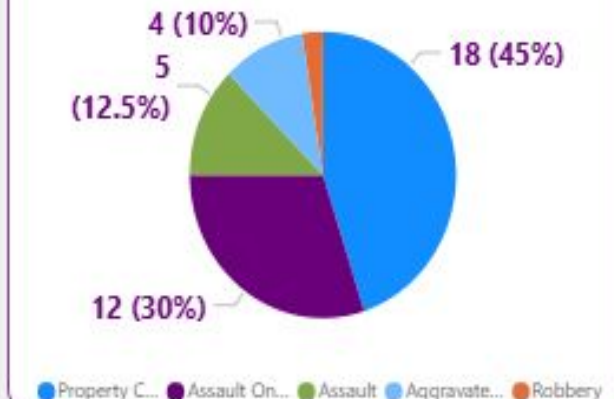
Total Incidents by Month



Incidents by City

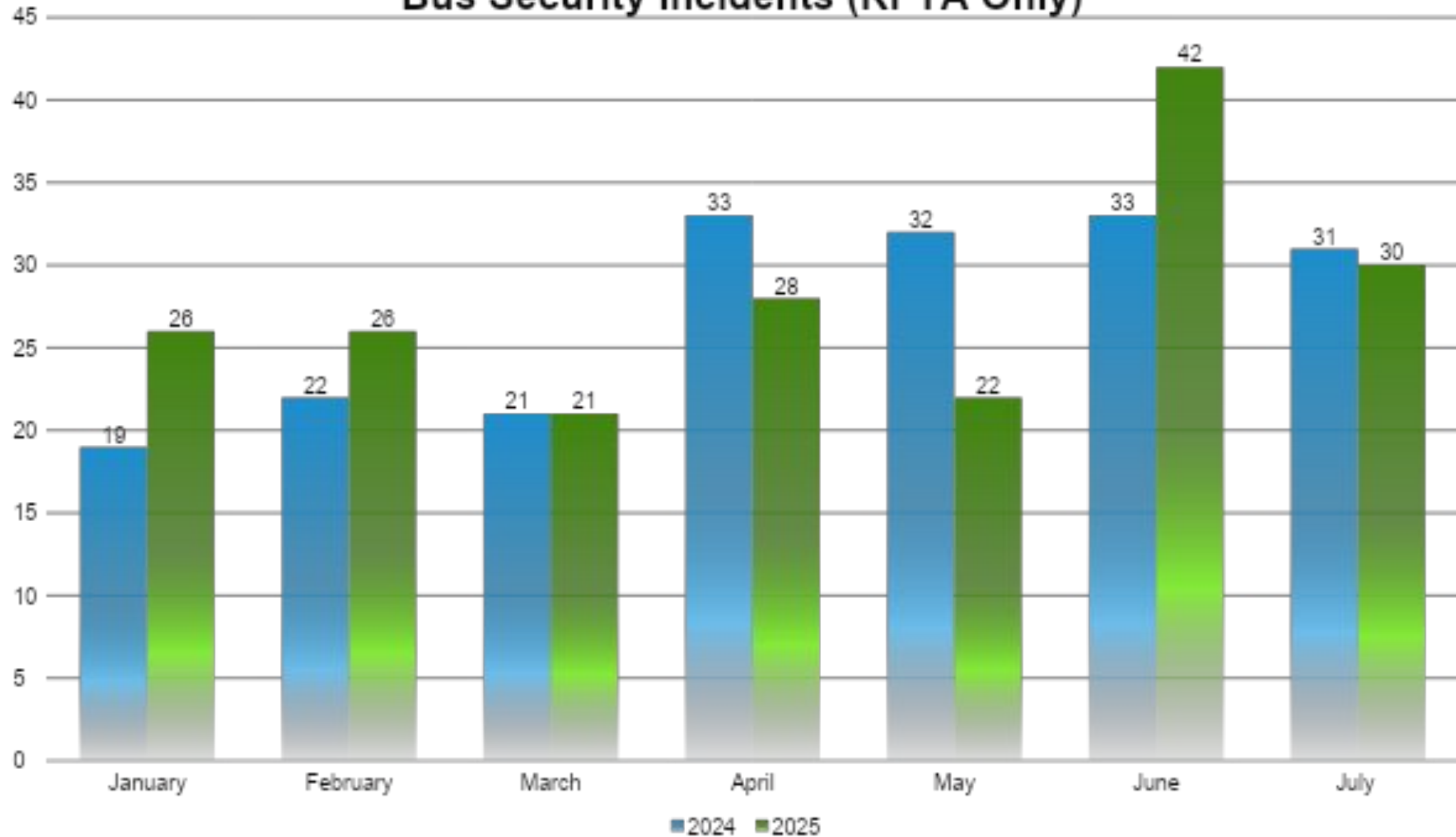


Incidents by Type



- Security incidents occurring on trains, PNRs and platforms along the rail alignment are included in rail incident data.

Bus Security Incidents (RPTA Only)



Lessons Learned

Proactive, data-driven safety planning

Integrate safety into infrastructure design

Prioritize high-demand corridors

Equity lens for late-shift workers

The Road Ahead

- Current **Comprehensive Operational Analysis (COA)** will
 - Identify nighttime service gaps and recommend changes
 - Identify customer pain points related to safety and span
- Continue safety & equity focus in all departments



Thank you!

Aaron Xaevier
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SFMTA

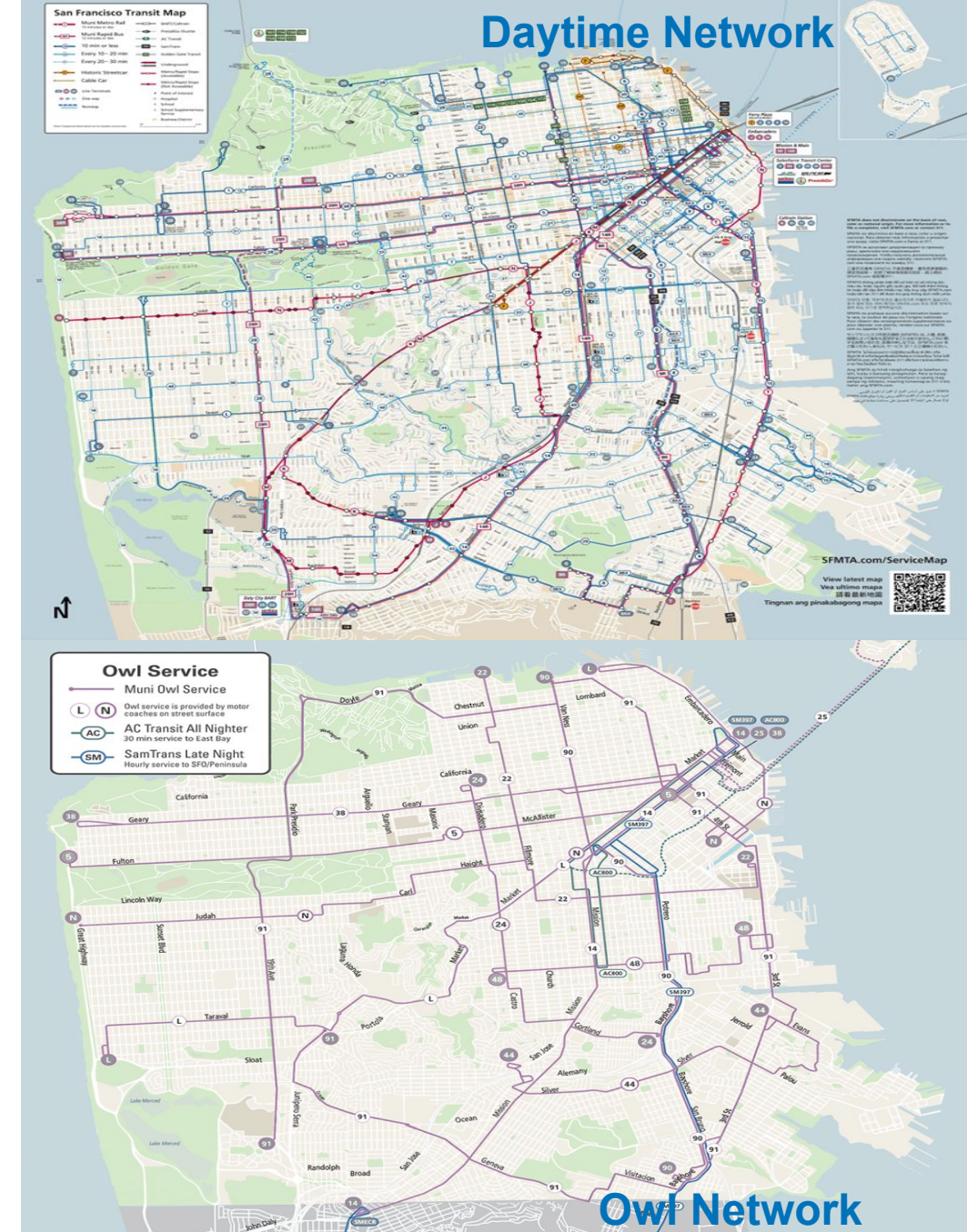
The Other 9-to-5: How Muni Owl Makes Overnight Transit Work

Jessica Garcia, Service Planning Manager
San Francisco Municipal Transportation Agency

TRB Webinar: Innovation After Dark—Boosting Nighttime Transit Ridership
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Muni System

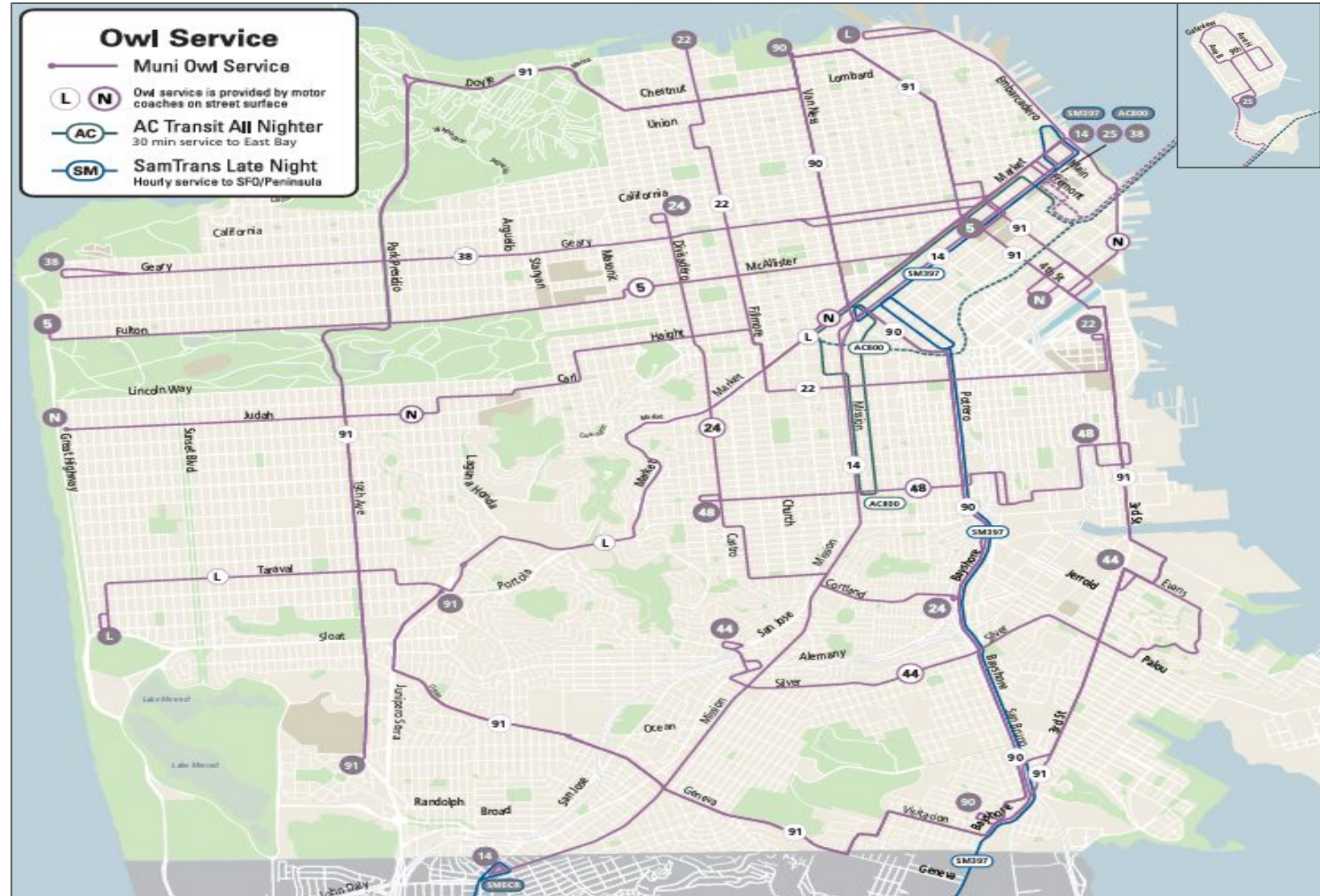
- **71 Routes**
 - Daytime and Owl routes
 - 540,000 weekday & 360,000 weekend riders (*Sept 2025 Muni Ridership*)
 - ~2,500 operators
- **~1,100 Vehicles**
 - 850 buses, 300 rail
- **Over 3,000 stops**
 - All residents within SF are $\frac{1}{4}$ mile of a stop
- **13 Subway Stations**
 - Two tunnels, Market Street & Central Subway
- **24/7 service**
 - Daytime routes, 5 a.m. - 12 a.m.
 - Owl routes, 12 a.m. – 5 a.m.



Muni's Owl Network



- Daily, **12am to 5am**
- **12 Owl Routes**, daytime service routes and owl period only routes branded with “Owl”
- Frequency of **30 mins**, more based on demand
- Covers all residential areas within **½ mile of stop**
- Riders can request to be dropped off at **any corner** along an Owl route
- Base for **emergency network**

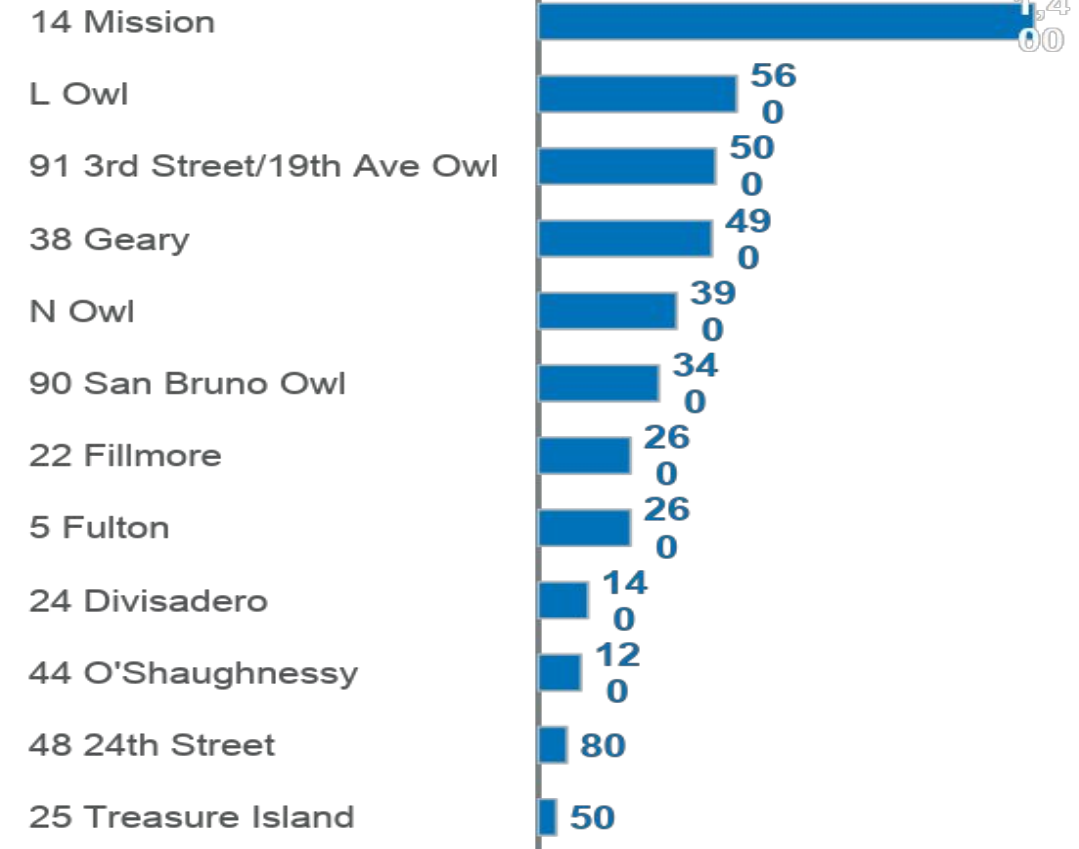


Owl Ridership

Owl Network serves on average over 4,500 daily riders

Average Daily Boardings During Owl Time Period (12am-5am)

Source: September 2025 Muni Ridership



Owl Rider Demographics

Owl service is an equity lifeline, serving more people of color, low-income riders and late-night commuters than the systemwide average.



Source: 2025 Muni Customer On-Board Survey

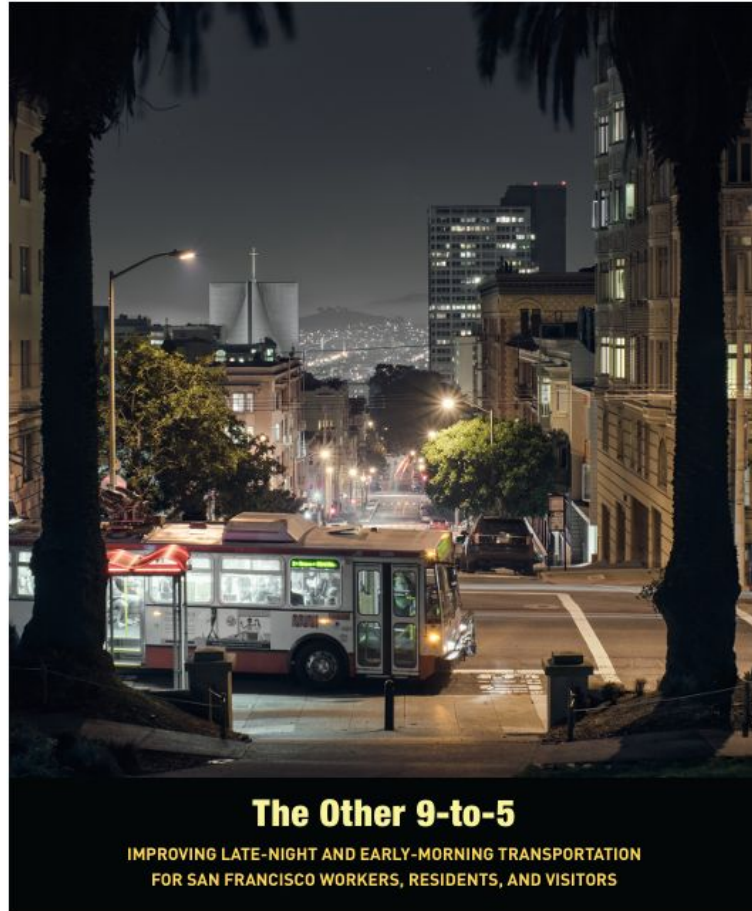
Unique Late-Night Challenges

- Route Planning Around Nighttime Conditions
- Owl Service Reliability and Ridership
- Safety and Security for Customers & Operations Staff



Service Improvements Completed

Late Night Working Group

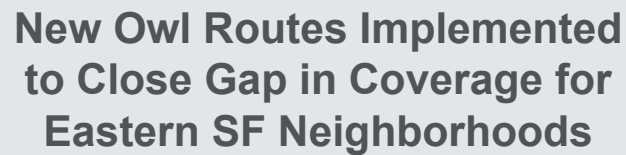


- Initiated by then San Francisco Board Supervisor Scott Weiner (now State Senator)
- Late Night Working Group formed with representatives from regional agencies
- Focused on transit needs between 9pm and 5am
- Study of existing late-night service conducted, recommendations provided to regional agencies
- Recommendations for Muni included expanding coverage and frequency increases



FEBRUARY 23, 2015

Expanded Owl Coverage



L Owl Extended to Serve Hospitality Workers at Fisherman's Wharf (recommendation from Late Night Working Group)

Muni7 - Route L Modification Extension to Fisherman's Wharf

- Existing Late Night Service
- Existing Route of Interest
- Proposed Modifications

Job Density - Workers per Sq Mile (I-I)

Job Density - Workers per Sq Mile (I-I)
0 - 50
51 - 100
101 - 250
251 - 500
501 - 1,000
1,000 +

The map displays the proposed extension of Muni7 Route L (indicated by a dashed yellow line) from the existing route (solid black line) to Fisherman's Wharf. The map also shows the existing late night service (solid black line) and the existing route of interest (solid black line). The map includes a legend for job density (Workers per Sq Mile) and a legend for the proposed modifications. The map also shows the existing late night service and the existing route of interest. The map includes a legend for job density (Workers per Sq Mile) and a legend for the proposed modifications.

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2019

Service Improvements Completed

More Legible Service



Rail Bus Substitution Plan Improvements

- In February 2020, cleaned up routing and stops for rail bus substitution to be more in alignment with rail routes and stops
- Service plan used for gaps between Owl and Daytime Train Service, when subways are closed (after 11pm, before 6am)
- Critical during COVID, planned and emergency shutdowns
- Branded bus subs with “Rail Letter” + “Bus”

Service Improvements Underway

Service Evaluation

Crowding Thresholds

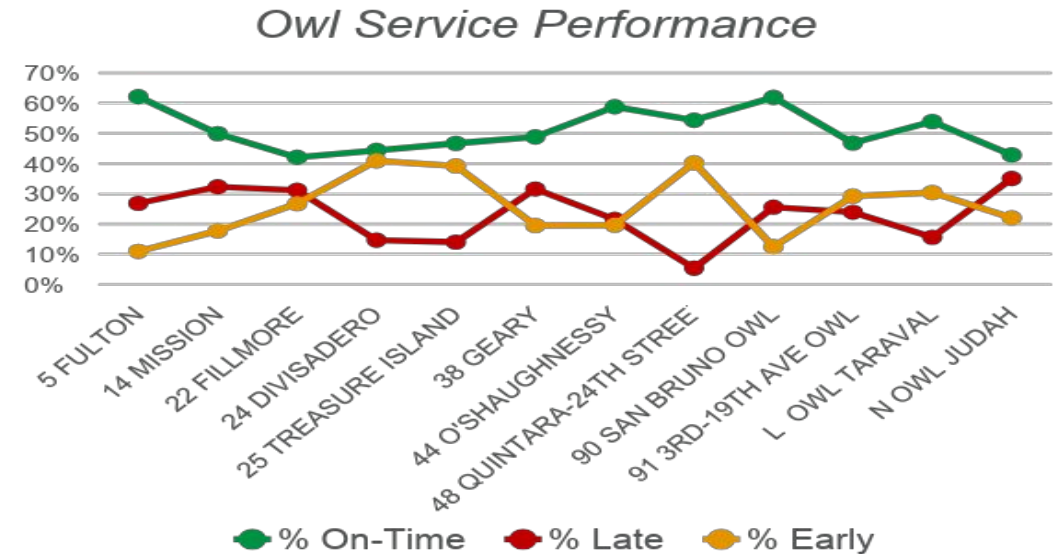
- Crowding during Owl service is different experience, additional factor for safety
- Considering different thresholds for Owl service

Example of different target thresholds under consideration

	Target Max Crowding	Target Descrip	40ft Owl Target Capacity
10pm-12am	100%	Crowding	51
12am-2:30am	85%	Planning	44
2:30am-6am	60%	Seats	31

Service Performance

- Reliability is inconsistent, with all routes under 70% on-time
- In 2026, focusing on schedule adjustments and route changes to improve reliability



Safety Improvements Underway

Stop Lighting

New Signage Program



Installing new signage, including solar lights at all stops.

Muni Stop Lighting Project



Developing lighting policy and testing additional lighting options

Safety Improvements Underway

Safety Equity Initiative

Gender-based harassment and assault are unacceptable
El acoso y la agresión por motivos de género son inaceptables/基於性別的騷擾和攻擊不能接受/
Hindi katanggap-tanggap ang panliligalig at pananakit na nakabatay sa kasarian



Make Muni a safe space: Report incidents
311 mobile app • call 311 for language assisted reporting

Haga de Muni un espacio seguro: reporte incidentes
Aplicación móvil 311 • Llame al 311 para informes asistidos por idioma

讓Muni成為一個安全的地方: 報告案件
311手機app(移動應用程式) • 致電311透過語言協助報告案件

Gawing ligtas na lugar ang Muni:
Mag-ulat ng mga Incidente
311 mobile app • Tumawag sa 311 para sa pag-uulat na tinulungan ng wika

 **MuniSafe**
SFMTA.com/MuniFeedback



- Aims to end harassment and assault and improve safety on Muni and at Muni stations and stops
- Conducted survey and identified factors that contribute to personal safety while using Muni
- Developed agency action plan, includes integrating Safety into Service Planning
 - Address long waits and reliability at night
 - Incorporate data gathered into decision making

Future of Owl Service

Given the SFMTA's Financial Outlook, any improvements would have to be made cost-neutrally unless additional funding could be identified.

Service Evaluation

- Consider subset of service standards and policies for Owl Service

Safety

- Continue lighting improvements and incorporate Safety Equity Initiative

Branding

- More legible for customers, starting with consistent route naming

Route Changes

- Adjust routes to be more reliable

Frequency Increases

- Address crowding and ridership growth



Thank you!



Jessica Garcia
Service Planning Manager, SFMTA
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**DELIVERING ROUND-THE-CLOCK TRANSIT
TO SUPPORT TODAY'S SERVICE ECONOMY**
JACOB SIMMONS, TRANSIT PLANNING SUPERVISOR, RTC SNV

WE'RE GOING PLACES. LET'S GO TOGETHER.

WHO WE ARE



TRANSIT



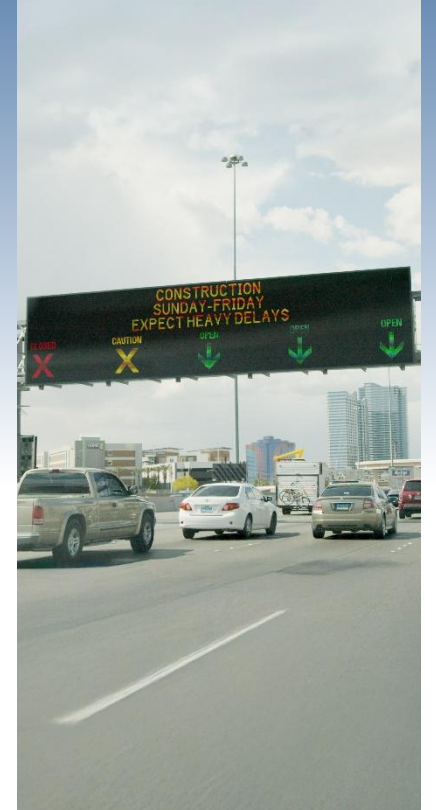
BICYCLING



PLANNING



ROADWAY
FUNDING



TRAFFIC
MANAGEMENT



REGIONAL OVERVIEW



Clark County covers 8K sq. miles



42.5M VISITORS



2.3M RESIDENTS



400 SQ. MI. TRANSIT SERVICE AREA



~10K MILES OF ROADWAY



SERVICE-BASED ECONOMY



HOSPITALITY

MEDICAL

SECURITY

FOOD SERVICE

SUPERMARKETS

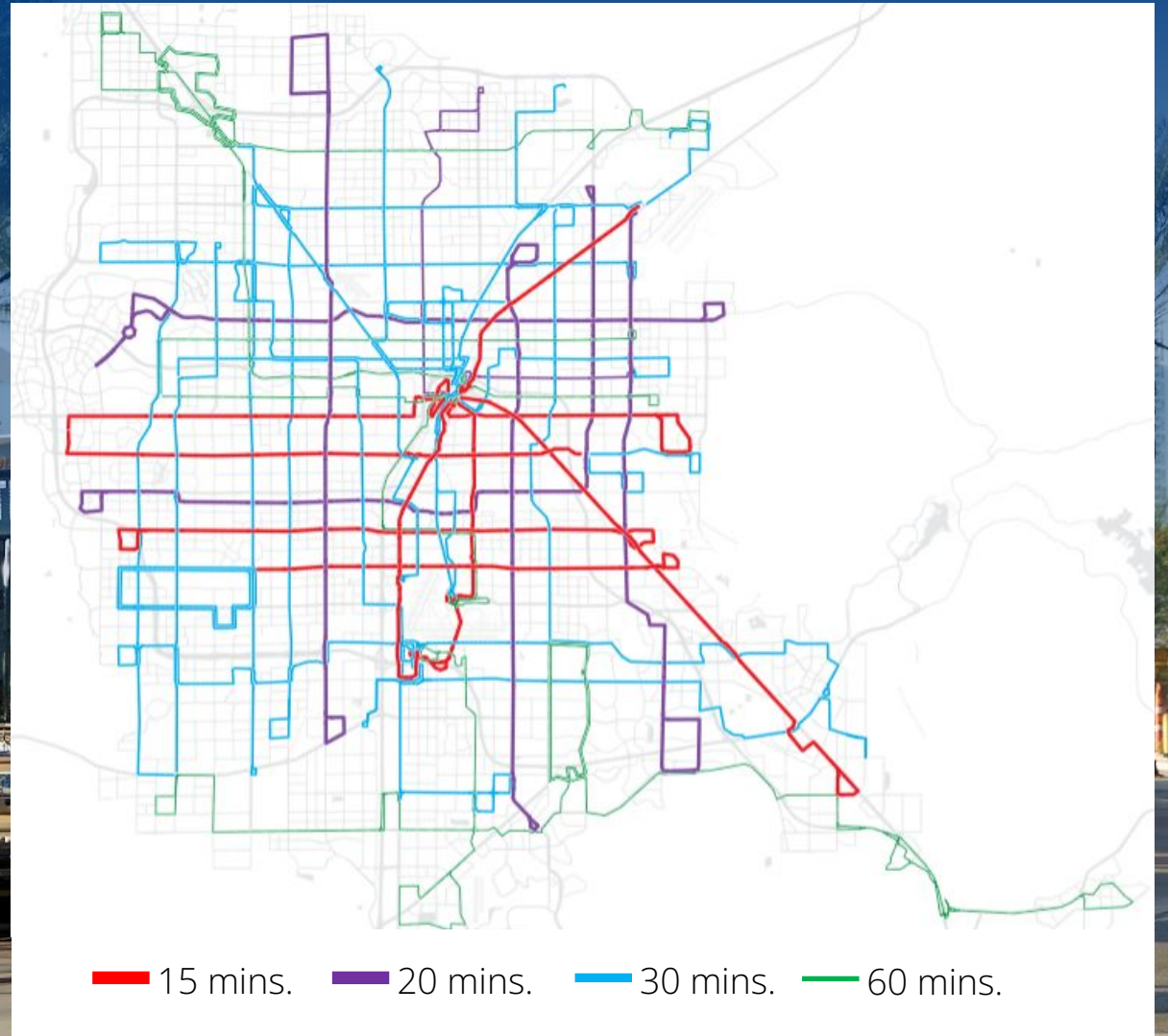
BARISTAS

NIGHTLIFE

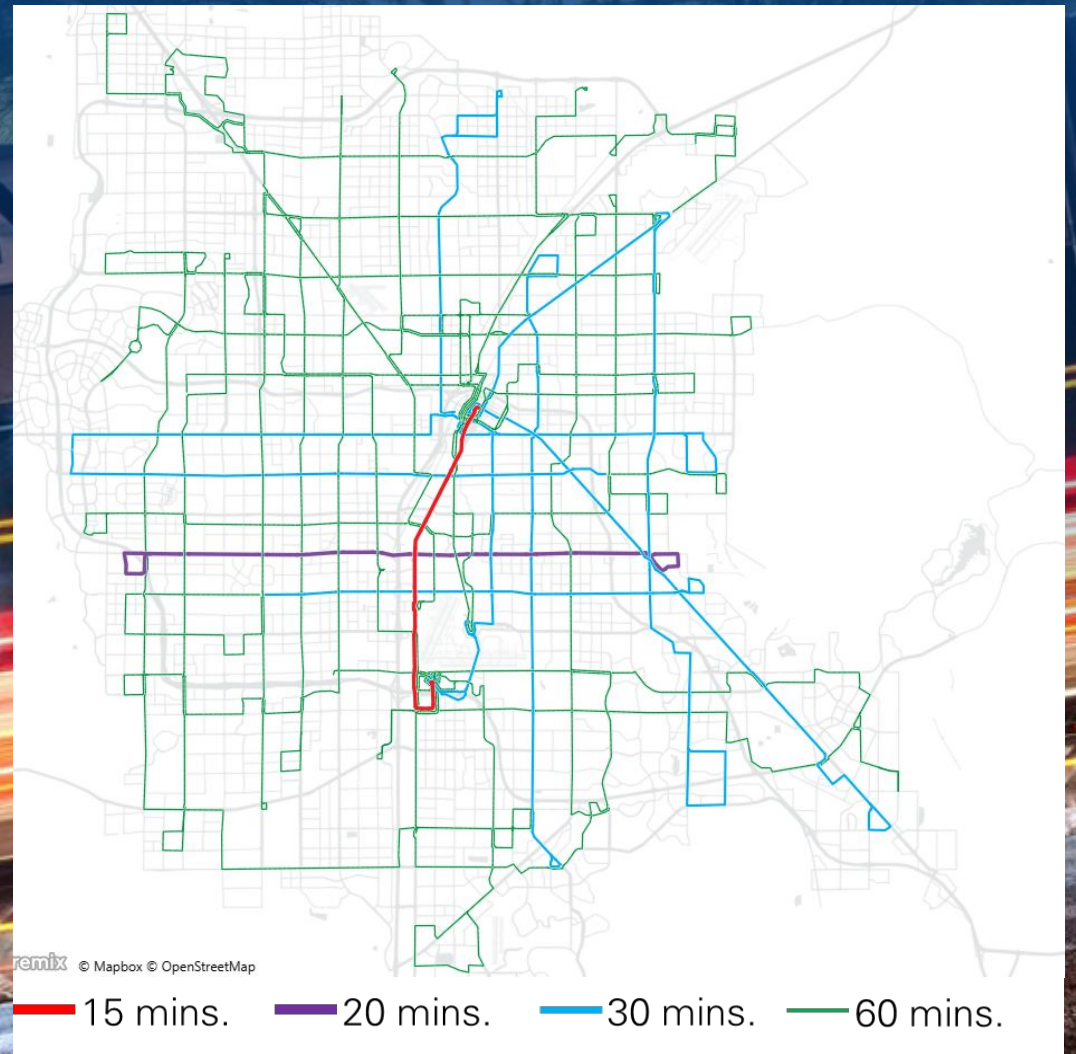
TRANSPORTATION



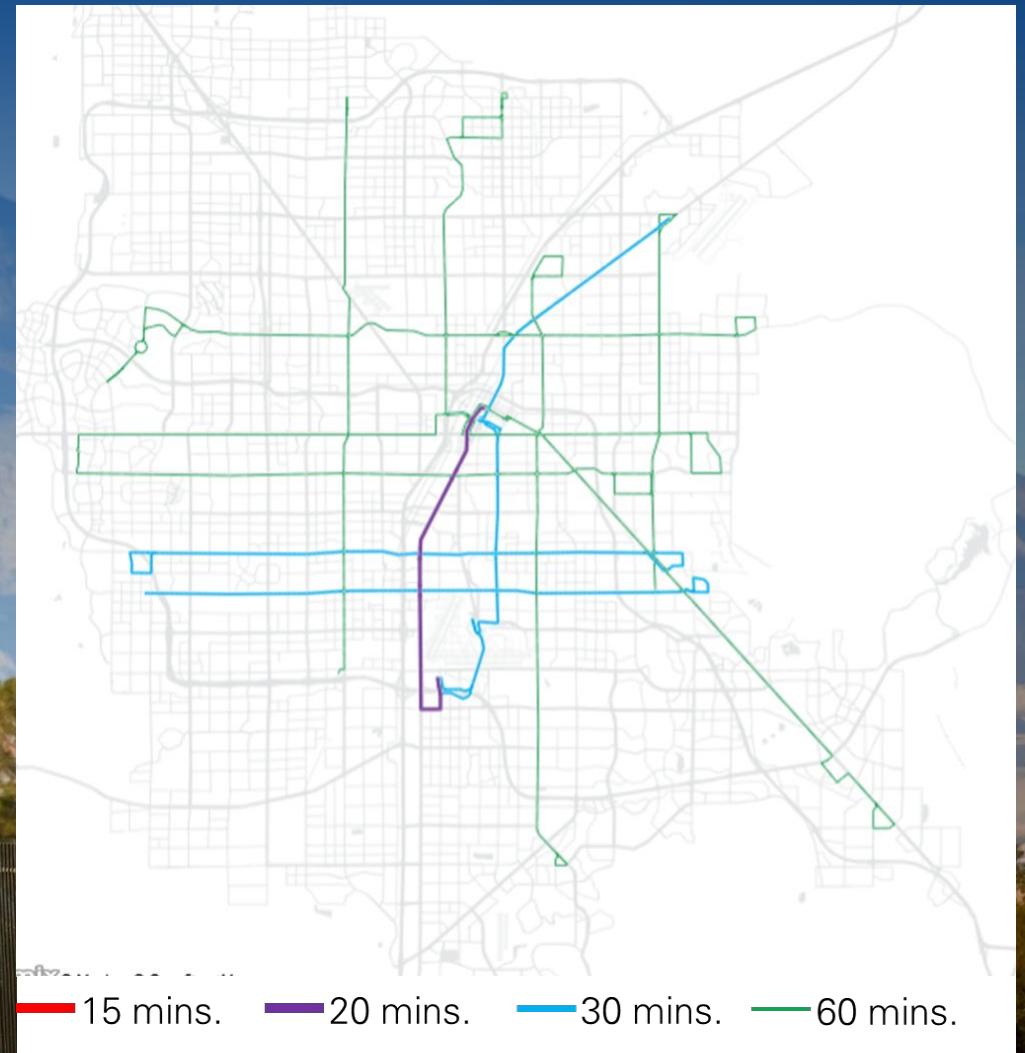
DAYTIME NETWORK



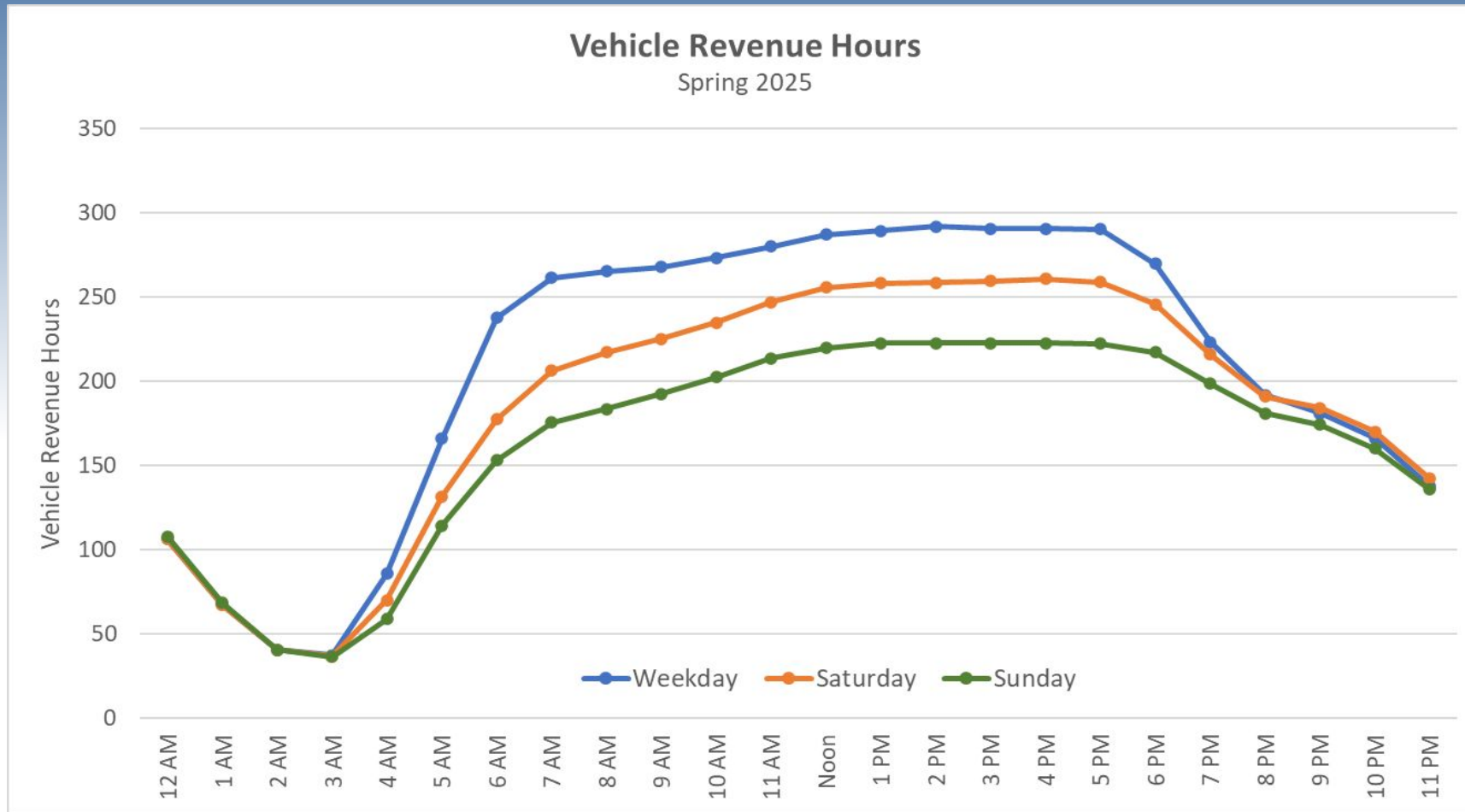
MIDNIGHT NETWORK



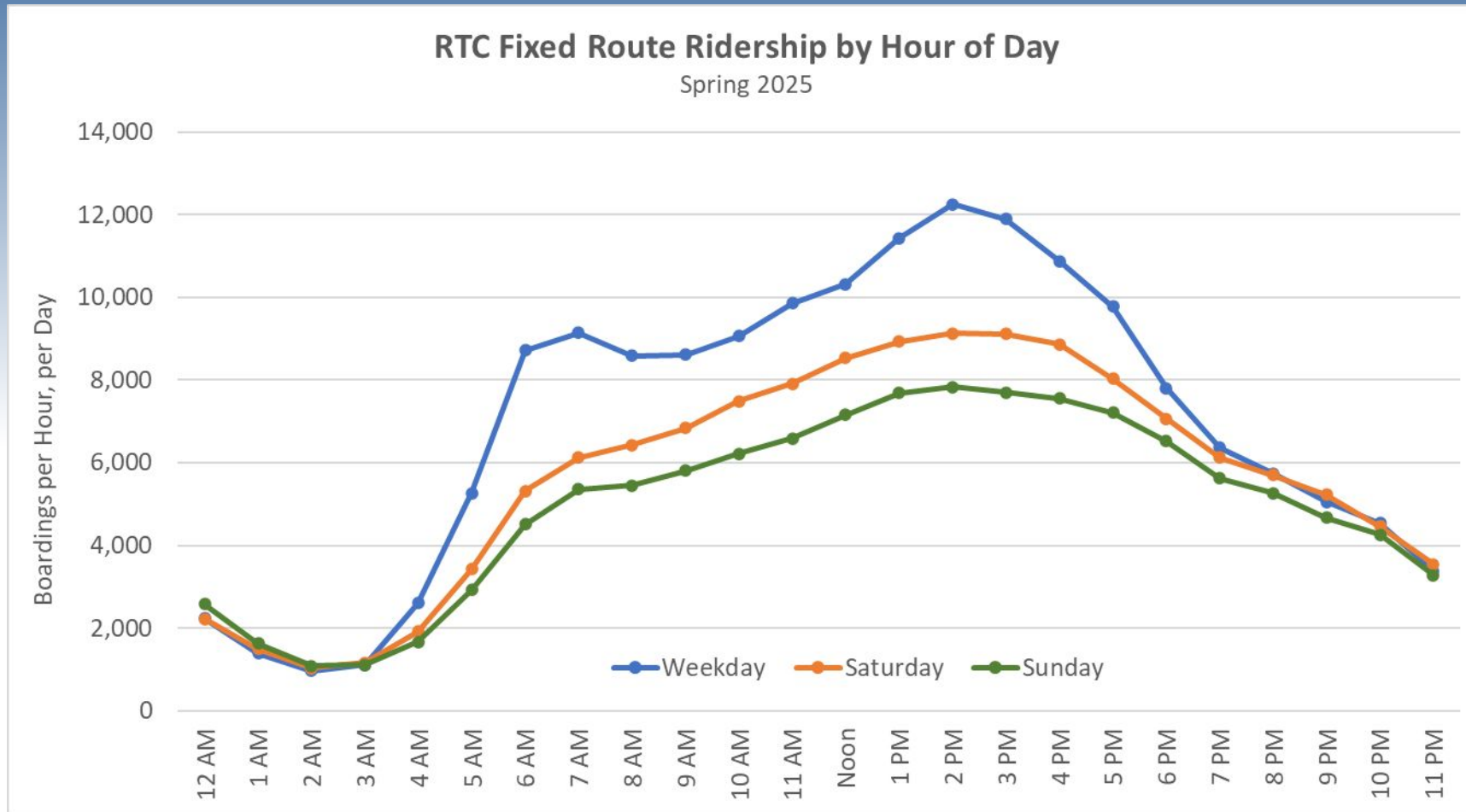
TRUE 24/7 NETWORK



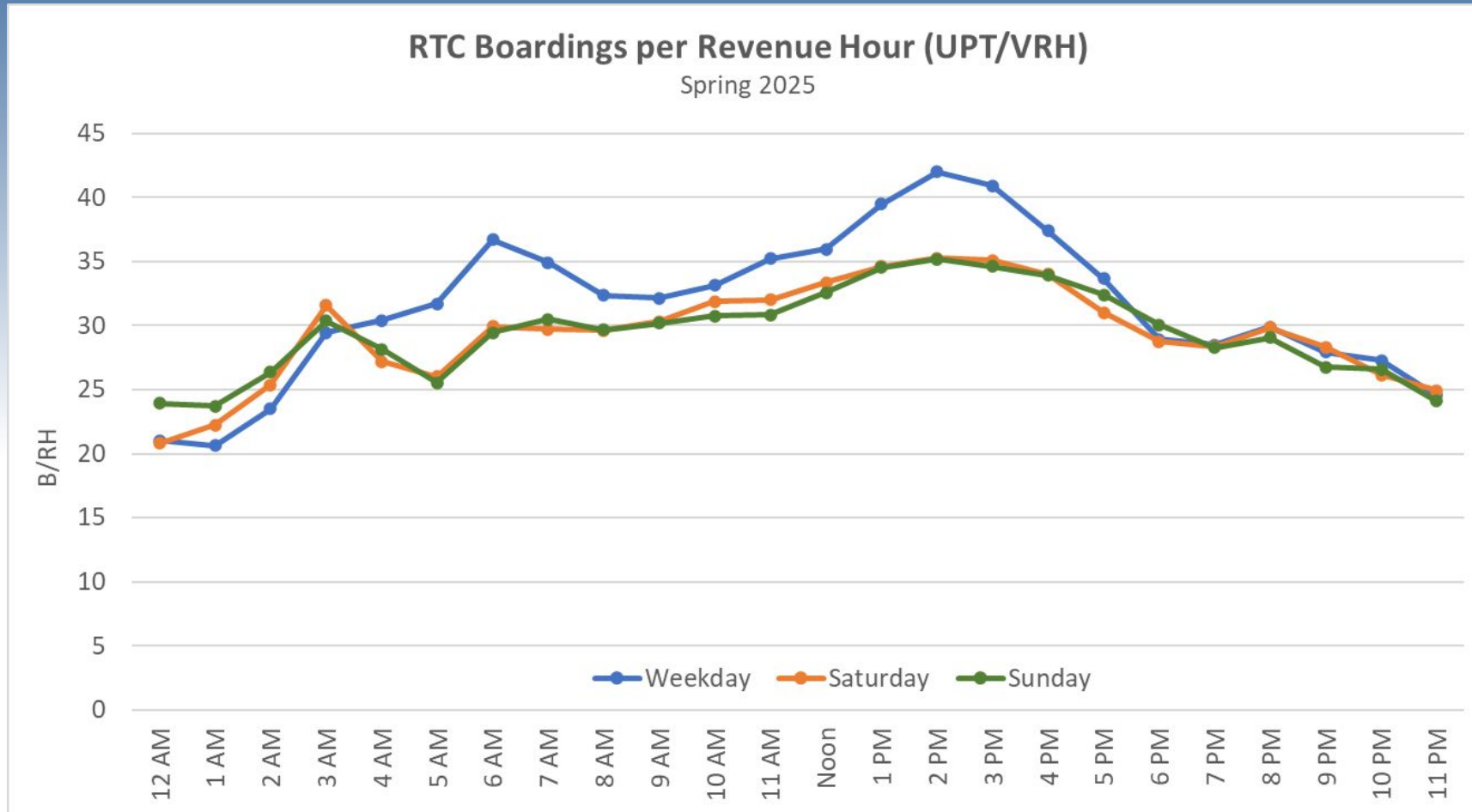
BUSES IN SERVICE BY HOUR



RIDERSHIP BY HOUR



PRODUCTIVITY BY HOUR



INGREDIENTS FOR EFFICIENT NIGHTTIME/OVERNIGHT SERVICE

1. RAMPING DOWN & RAMPING UP FREQUENCY

2. STRONG OVERALL RIDERSHIP

3. TRIPS TIMED TO RUN FASTER

4. DEADHEAD INTERLINING OPPORTUNITIES FOR BUSES TO PERFORM A TRIP OR TWO ON OTHER ROUTES



WEEKDAY FREQUENCY BY HOUR -MAXIMUM WAIT TIME (in minutes) - OCTOBER 2025

Route	Name	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	12AM	Legend:
101	Rainbow	52			39	33	27	30	30	30	27	27	28	29	30	30	30	29	27	28	30	30	32	47	51	NoSvc
102	Jones	59			49	43	28	30	30	30	30	30	30	30	30	30	30	30	29	31	46	51	59	59	48-61	
103	Decatur	60	60	60	42	25	21	20	19	20	19	19	19	19	20	19	20	19	20	24	28	29	29	29	41	33-47
104	Valley View				40	36	30	28	27	27	27	29	29	29	29	30	30	29	29	35	52	56	57	57	60	22-32
105	Martin L. King	60	60	60	51	39	22	20	20	20	20	20	18	19	19	20	20	19	19	29	29	29	29	29	39	17-21
106	Randho / Centennial Hills	55			42	37	29	29	29	29	30	29	30	29	30	30	30	29	29	29	29	30	30	43	58	>16
108	Paradise	58			30	29	28	29	30	30	30	28	25	25	26	25	25	24	24	26	28	29	28	29	58	
109	Maryland Pkwy	30	30	30	29	21	15	15	15	15	15	15	15	15	15	15	15	15	15	17	20	20	20	25	30	
110	Eastern	49	60	58	41	25	20	20	18	19	19	19	20	20	20	20	19	19	21	27	30	30	29	27	39	
111	Pecos / Green Valley Pkwy.				27	27	27	27	28	27	28	29	29	29	30	30	30	29	27	28	48	59	58	57	52	
113	Las Vegas Blvd. North	30	30	30	28	19	15	15	15	14	15	15	15	15	15	15	15	15	15	17	20	20	20	24	28	
115	Nellis / Stephanie	50	58	54	43	27	20	20	20	19	19	19	19	19	19	19	19	19	19	28	29	28	30	29	39	
117	LVB South / Silverado Ranch	60			45	40	28	29	30	29	29	28	30	30	30	30	30	30	29	29	28	29	37	55		
119	Simmons / Koval					39	29	30	29	29	29	29	29	30	30	30	30	29	29	37	56	59	59	53	54	
120	Fort Apache / Rampart	59			54	46	34	30	30	30	30	30	30	30	30	30	30	30	29	28	40	59	59	59	59	
121	Buffalo / Durango	59			52	44	29	29	30	30	30	30	30	30	30	30	30	30	29	37	59	59	58	60	59	
122	S. Maryland Pkwy / West Henderson				49	46	48	49	50	50	50	50	50	50	50	50	50	50	48	50	59	60	57	60	58	
201	Tropicana	30	30	30	28	22	15	15	15	15	15	15	15	15	15	15	15	15	15	18	20	20	20	29	30	
202	Flamingo	29	29	30	29	20	15	15	15	15	15	15	15	15	15	15	15	15	15	18	20	20	20	20	24	
203	Spring Mtn / Desert Inn / Lamb	52			30	25	19	19	19	20	20	19	19	19	20	20	20	20	21	27	29	29	30	35	42	
206	Charleston	40	54	60	43	22	16	15	15	15	15	15	15	15	15	15	15	15	17	20	20	20	23	28	30	
207	Alta / Stewart						56	60	60	60	60	60	60	60	60	60	60	60	58	51						
208	Washington				49	30	29	29	30	30	30	29	30	30	30	29	30	28	29	51	58	58	54	59	57	
209	Vegas / Owens					60	54	60	60	60	60	60	60	60	60	60	60	60	60	59	55					
210	Lake Mead Blvd.	47	60	60	42	24	18	19	20	20	20	20	19	19	20	20	20	19	19	27	29	29	28	30	49	
212	Sunset	50			34	28	29	30	29	29	29	29	30	30	30	30	30	30	30	36	47	49	54	53	51	
214	H Street / D Street					60	60	60	60	60	60	60	60	58	59	59	60	60	60	60	60	60	60	60	60	
215	Bonanza	60			28	28	25	19	20	20	20	20	20	19	20	20	20	20	21	27	30	30	30	45	60	
217	Warm Springs / Lake Mead Pkwy				45	40	30	29	30	30	29	29	29	29	30	30	30	29	29	44	59	58	57	54	60	
218	Cheyenne	57			47	38	29	30	30	30	30	30	30	30	30	30	30	29	29	30	45	42	50	58	59	
219	Craig	60			44	36	25	30	30	30	30	30	29	26	26	30	30	29	29	29	29	30	36	45	57	
220	Ann / Tropical				56	56	56	60	60	60	60	60	59	59	60	60	60	60	59	58	58	60	58	52	53	
221	Cactus / Horizon Ridge / Boulder City				44	57	58	59	60	58	60	56	60	60	60	60	60	60	57	57	59	45	56	60	56	
Deuce	Deuce on the Strip	14	16	20	20	16	13	12	11	11	10	9	9	9	9	9	9	9	9	9	9	9	10	10	11	
401	N. Outlets/Symphony Park										20	18	15	15	15	15	15	15	20	20						
BHX	Boulder Hwy Express	30	59	59	26	20	15	15	15	15	15	14	14	15	15	15	15	15	15	19	20	20	19	22	30	
SX	Sahara Express	60	60	60	38	20	15	15	15	15	15	15	14	15	15	15	15	15	16	20	20	20	27	29	30	
CX	Centennial Express						56	58	60	60	60	44	56	50	58	55	57	55	57	48	59	60	59	60		
DVX	Downtown & Vet. Med. Ctr. Exp.					35	28	30	30	30	30	30	28	29	30	30	30	30	29	46	56	55	55	59	57	

#2 STRONG OVERALL RIDERSHIP

RTC Route #	Average Ridership per Weekday
Deuce	23,000
206	11,200
202	11,100
BHX	9,800
203	8,900
SX	8,700
109	8,500
201	7,900
113	7,400
110	7,200
115	6,800
210	6,700
103	6,600
111	3,800
101	3,300
104	3,200
105	3,000
208	3,000
212	3,000
106	2,800
219	2,600
215	2,400
102	2,300
119	2,300
218	2,300
108	2,200
117	2,000
217	1,700
120	1,600
121	1,500
CX	1,200
221	1,000
DVX	1,000
209	900
214	800
207	700
220	700
122	600
401	300

Every 15 Minutes or Better		
Every 20 Minutes		
Every 30 Minutes		
Every 50-60 Minutes		

RTC Scheduled Route Speed: % Faster than Slowest Hour																								
Route\Hour	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
101	52%	57%			52%	28%	14%	12%	13%	13%	13%	11%	3%	2%	0%	0%	2%	10%	13%	24%	28%	28%	37%	46%
102	38%				39%	20%	6%	5%	5%	6%	5%	2%	2%	1%	2%	1%	0%	6%	14%	16%	20%	22%	27%	39%
103	50%	50%	48%	43%	41%	24%	17%	12%	12%	12%	10%	6%	0%	0%	1%	1%	2%	11%	13%	21%	27%	31%	40%	45%
104	41%				39%	27%	14%	17%	16%	18%	16%	11%	9%	2%	0%	1%	3%	10%	22%	24%	28%	32%	37%	41%
105	41%	46%	46%	44%	54%	33%	22%	8%	8%	8%	8%	8%	4%	3%	0%	0%	0%	6%	11%	13%	20%	23%	26%	41%
106	49%	55%			39%	26%	9%	7%	7%	7%	7%	1%	1%	0%	0%	0%	2%	3%	10%	16%	20%	19%	22%	39%
108	40%	49%			43%	31%	14%	8%	8%	8%	8%	5%	4%	3%	0%	1%	2%	1%	7%	14%	16%	16%	30%	42%
109	36%	44%	45%	46%	36%	19%	14%	8%	5%	4%	3%	2%	1%	0%	1%	0%	1%	6%	12%	13%	14%	21%	26%	32%
110	68%	74%	79%	64%	48%	26%	17%	17%	18%	16%	14%	10%	6%	1%	0%	0%	5%	15%	21%	28%	33%	40%	46%	57%
111	62%				46%	28%	13%	14%	16%	15%	13%	11%	8%	2%	0%	2%	2%	11%	22%	27%	26%	34%	37%	49%
113	31%	32%	36%	38%	32%	18%	8%	7%	6%	4%	3%	0%	0%	0%	1%	1%	1%	2%	7%	6%	17%	17%	23%	31%
115	51%	54%	52%	59%	43%	30%	18%	15%	15%	14%	13%	12%	6%	2%	0%	2%	3%	11%	21%	26%	27%	38%	45%	46%
117	43%	46%			37%	27%	13%	10%	11%	11%	10%	7%	7%	0%	1%	2%	2%	4%	9%	16%	16%	20%	29%	40%
119	42%	83%			41%	28%	17%	17%	16%	16%	15%	11%	6%	3%	1%	0%	1%	9%	13%	17%	18%	22%	26%	32%
120	34%				32%	20%	10%	6%	5%	4%	4%	4%	4%	3%	0%	0%	0%	4%	5%	12%	14%	19%	20%	25%
121	32%				29%	18%	6%	5%	5%	5%	5%	5%	4%	2%	0%	0%	0%	3%	9%	11%	14%	21%	21%	21%
122	38%				24%	16%	10%	4%	6%	5%	5%	5%	5%	0%	0%	0%	0%	3%	10%	15%	14%	18%	24%	31%
201	30%	32%	40%	50%	39%	27%	15%	12%	12%	12%	11%	8%	3%	2%	1%	0%	0%	5%	9%	15%	17%	20%	28%	31%
202	54%	60%	63%	63%	57%	35%	23%	20%	20%	19%	17%	14%	9%	7%	3%	0%	3%	11%	19%	24%	26%	28%	39%	45%
203	55%	53%		49%	46%	26%	15%	14%	15%	13%	12%	11%	7%	1%	0%	0%	3%	11%	19%	22%	25%	32%	40%	47%
206	60%	69%	70%	65%	55%	30%	17%	13%	12%	7%	6%	5%	4%	0%	0%	2%	6%	15%	23%	26%	29%	33%	43%	53%
207						13%	8%	4%	4%	4%	2%	1%	1%	0%	0%	0%	0%	3%	10%	7%				
208	54%				44%	16%	22%	8%	11%	11%	11%	11%	5%	0%	3%	4%	4%	10%	14%	24%	26%	29%	34%	42%
209						13%	3%	3%	3%	3%	3%	3%	2%	0%	0%	0%	0%	1%	4%	12%	2%			
210	54%	58%	62%	57%	46%	30%	15%	12%	10%	10%	10%	9%	1%	0%	0%	0%	2%	12%	19%	23%	25%	37%	38%	47%
212	36%				28%	13%	6%	6%	6%	6%	6%	4%	2%	1%	0%	0%	0%	3%	8%	13%	17%	20%	29%	29%
214	42%				36%	23%	9%	4%	5%	5%	4%	4%	3%	1%	0%	0%	0%	7%	14%	14%	20%	20%	30%	30%
215	54%	54%			57%	42%	20%	10%	16%	13%	11%	8%	7%	4%	0%	3%	5%	9%	19%	26%	31%	39%	44%	48%
217					26%	15%	12%	7%	7%	7%	7%	6%	3%	1%	0%	0%	1%	4%	12%	14%	18%	18%	22%	32%
218	40%			58%	42%	21%	7%	3%	3%	3%	3%	3%	3%	0%	0%	0%	0%	6%	15%	18%	21%	24%	28%	28%
219	59%	59%			47%	36%	18%	16%	19%	18%	14%	11%	10%	2%	0%	3%	6%	12%	20%	25%	33%	42%	44%	51%
220	31%				23%	12%	5%	2%	2%	2%	2%	2%	1%	0%	0%	0%	0%	0%	6%	11%	13%	13%	22%	25%
221	24%	24%			19%	21%	5%	5%	5%	5%	5%	2%	0%	1%	1%	1%	5%	5%	11%	14%	17%	23%	26%	28%
DEUCE	37%	47%	53%	61%	52%	41%	30%	24%	21%	15%	12%	10%	9%	6%	4%	0%	2%	4%	7%	9%	11%	14%	19%	27%
401										7%	12%	12%	5%	5%	5%	5%	5%	5%	20%	20%	0%			
BHX	33%	37%	37%	34%	31%	20%	12%	8%	8%	8%	6%	2%	0%	0%	0%	0%	0%	3%	8%	8%	12%	14%	22%	24%
SX	53%	60%	60%	56%	39%	24%	23%	16%	13%	12%	12%	11%	5%	3%	1%	0%	0%	8%	16%	18%	21%	25%	31%	41%
Average	44%	52%	53%	52%	40%	24%	13%	10%	10%	9%	9%	7%	4%	2%	1%	1%	2%	7%	13%	17%	20%	25%	31%	38%

3 A.M. TRIP



**#3 TRIP
TIMED TO RUN
FASTER**

3 P.M. TRIP

INGREDIENTS FOR EFFICIENT NIGHTTIME/OVERNIGHT SERVICE

1. RAMPING DOWN & RAMPING UP FREQUENCY

2. STRONG OVERALL RIDERSHIP

3. TRIPS TIMED TO RUN FASTER

4. DEADHEAD INTERLINING OPPORTUNITIES
FOR BUSES TO PERFORM A TRIP OR TWO
ON OTHER ROUTES



TAKEAWAYS

RIDERSHIP GROWTH TAKES TIME

**NIGHTTIME & DAYTIME RIDERSHIP
ARE LINKED**

**OPPORTUNITY TO TRADE SOME
FREQUENCY FOR SPAN**

**CONSIDER NEEDS & SEEK MODEST
IMPROVEMENTS**



The background of the slide is a wide-angle photograph of a city skyline at sunset. The sky is a mix of orange, yellow, and grey clouds. In the distance, a range of mountains is visible. The city skyline includes several tall buildings, with the Stratosphere Tower being a prominent feature on the right side. The foreground is a dark blue gradient.

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WE'RE GOING PLACES. LET'S GO TOGETHER.

Today's Presenters



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Technologies and the Future of the
Transportation Agency

June 23-26, 2025

2nd International Roadside Safety
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[https://www.nationalacademies.org/trb/
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A large crowd of people, mostly men, are gathered at what appears to be a conference or meeting. Many are wearing lanyards with identification badges. The crowd is diverse in age and appearance. In the foreground, a man with a beard and glasses is prominent. To his right, a woman with glasses is smiling. Further back, a man is holding a camera on a tripod. The background is filled with more people, some looking towards the camera and others looking away.

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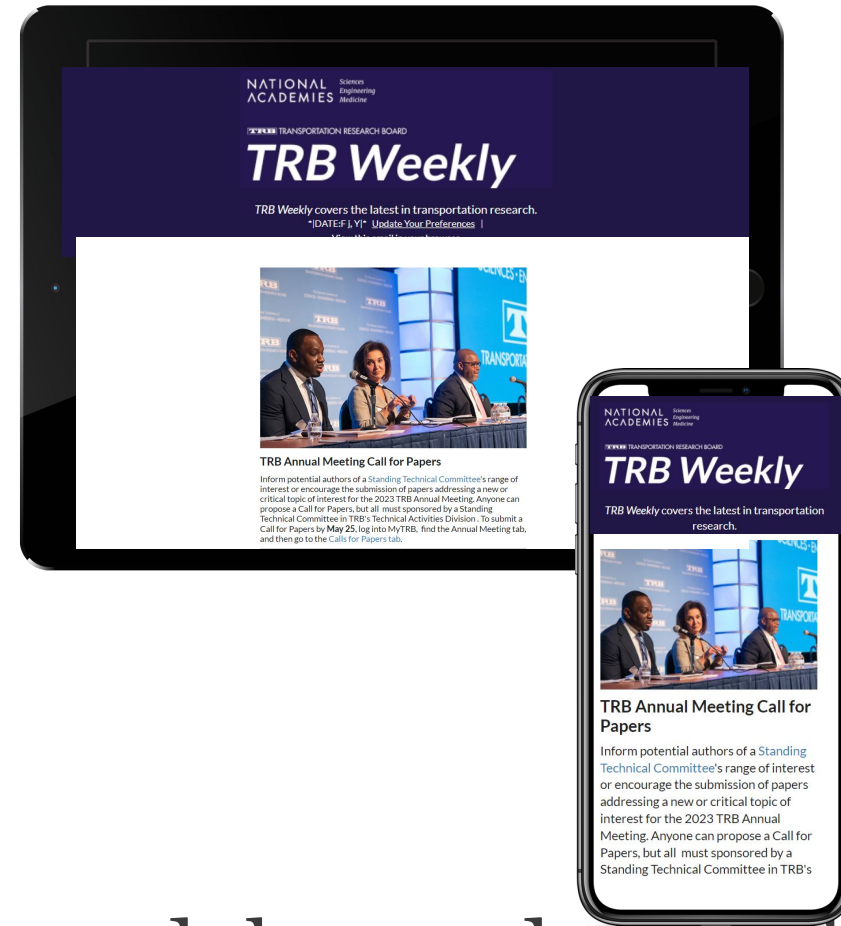
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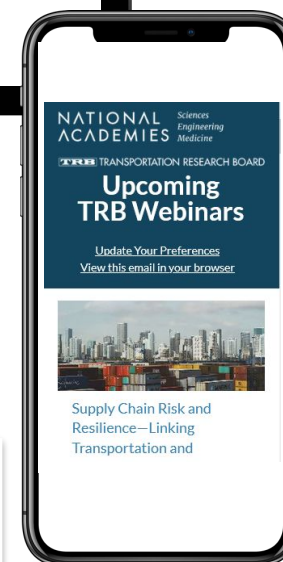
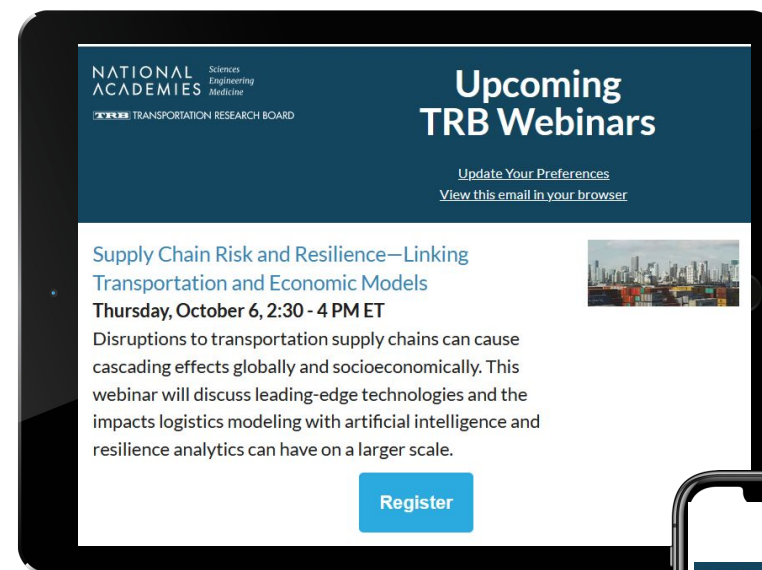
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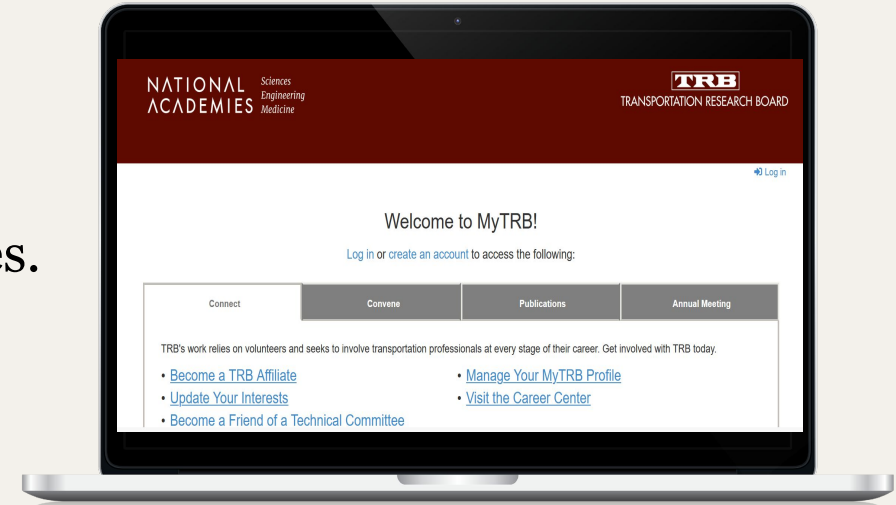


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