

LOTS

TRANSIT ASSET MANAGEMENT WORKSHOP

2021 GROUP TAMP UPDATE REVIEW

MAY 12, 2021

Workshop Objective

To review the Tier II LOTS Group Transit Asset Management Plan

- Section-Specific Feedback & Discussion
- COVID Impact Discussion

Agenda

Inventory & Condition Update

Updated FY21 Targets

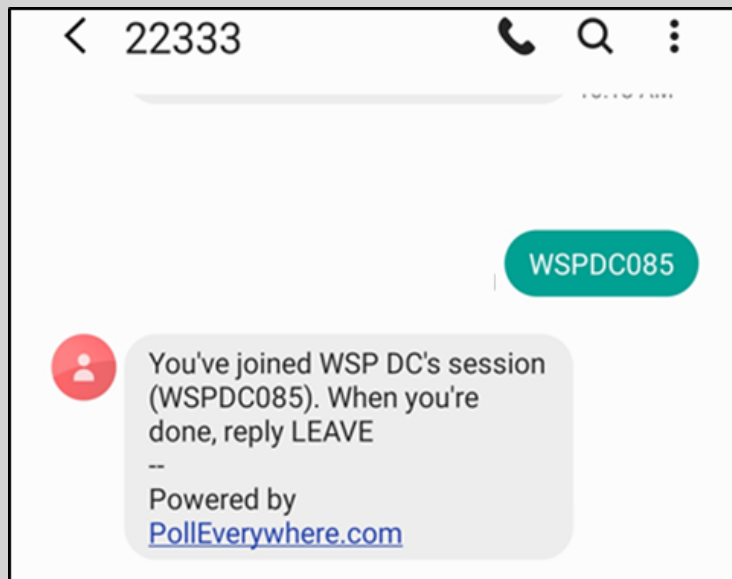
COVID Impacts

Funding Scenario Forecasts

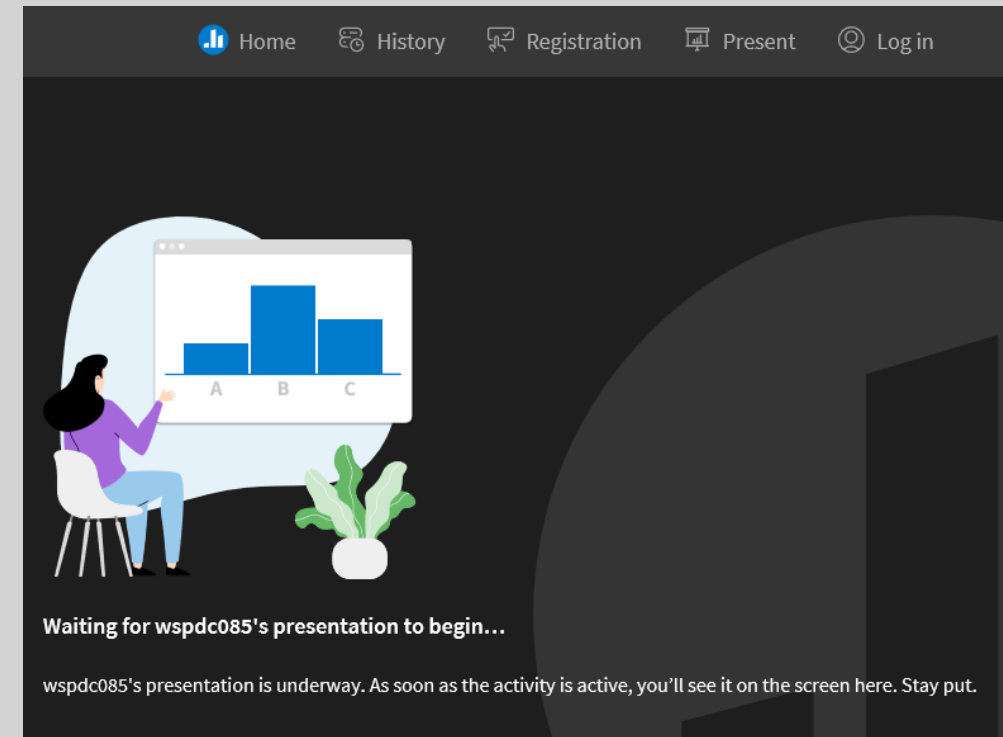
Next Steps

Poll Everywhere - Be prepared to answer some poll questions

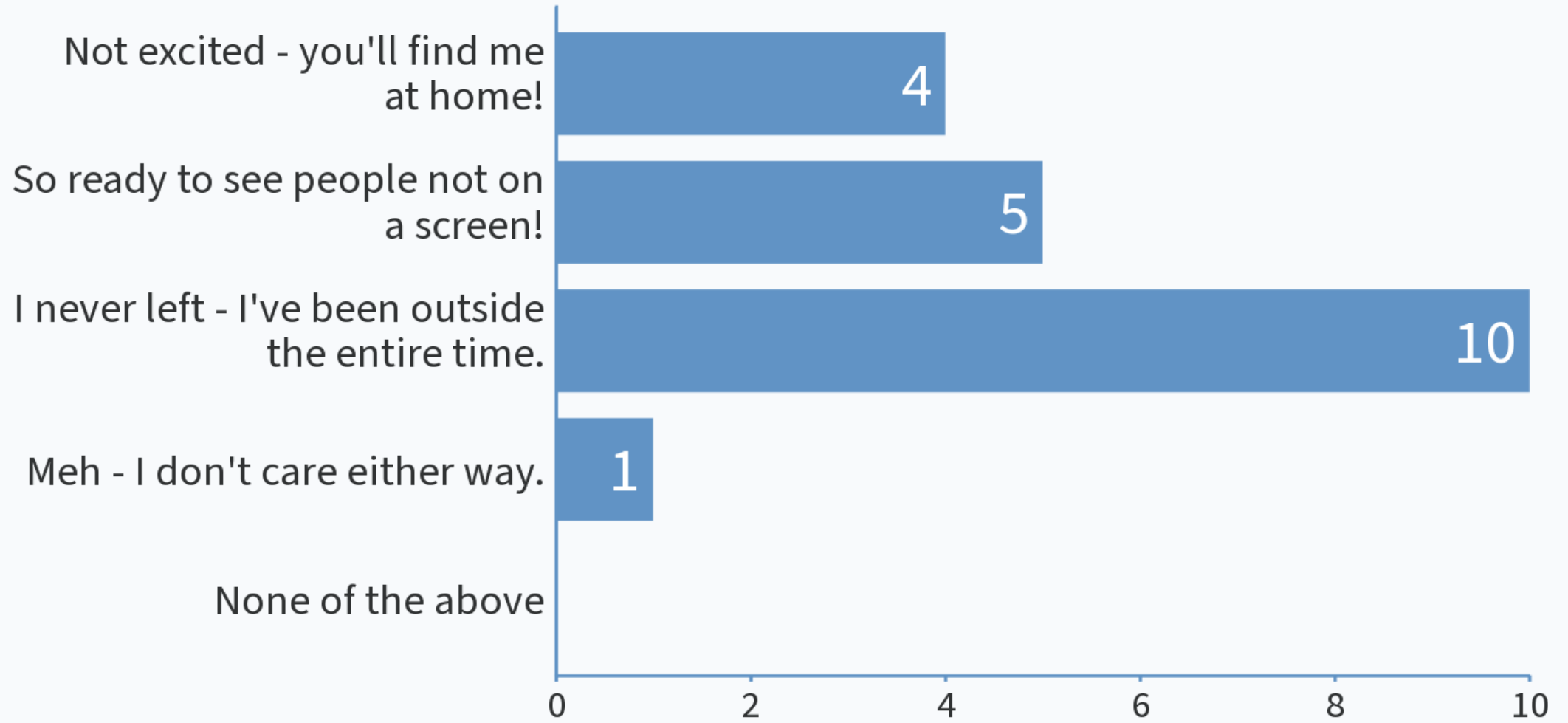
OPTION 1: Text WSPDC085 to 22333



OPTION 2: Go to Pollev.com/wspdc085

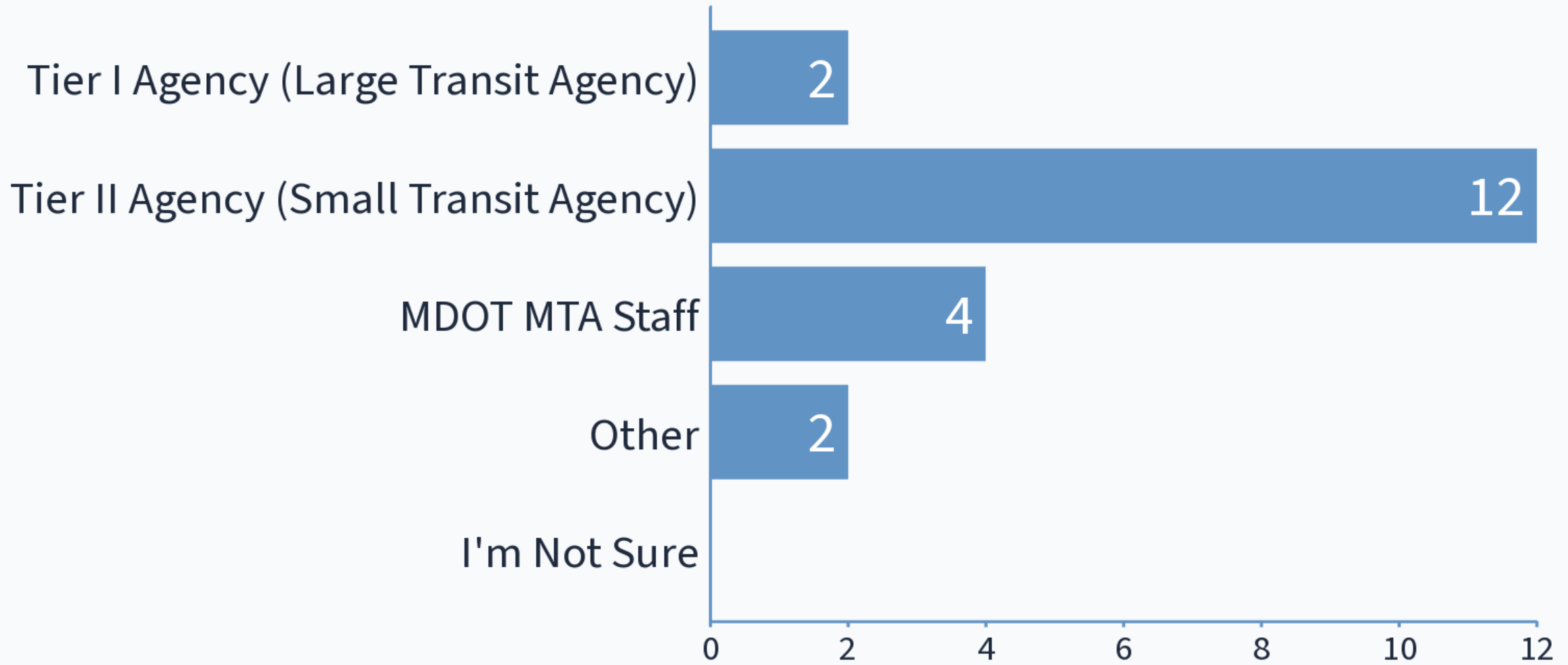


How excited are you to get back to non-remote life?



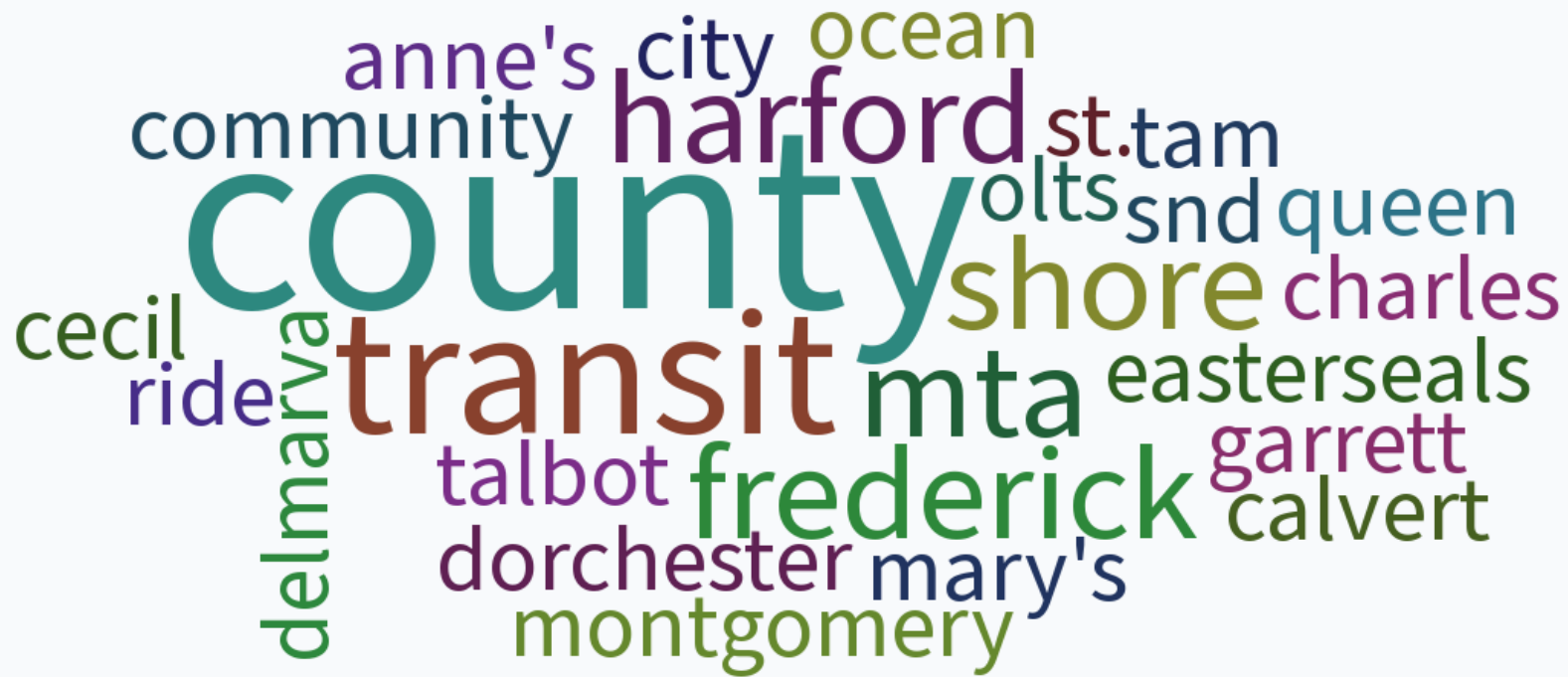
Total Results: 20

Who do we have in the "room"?

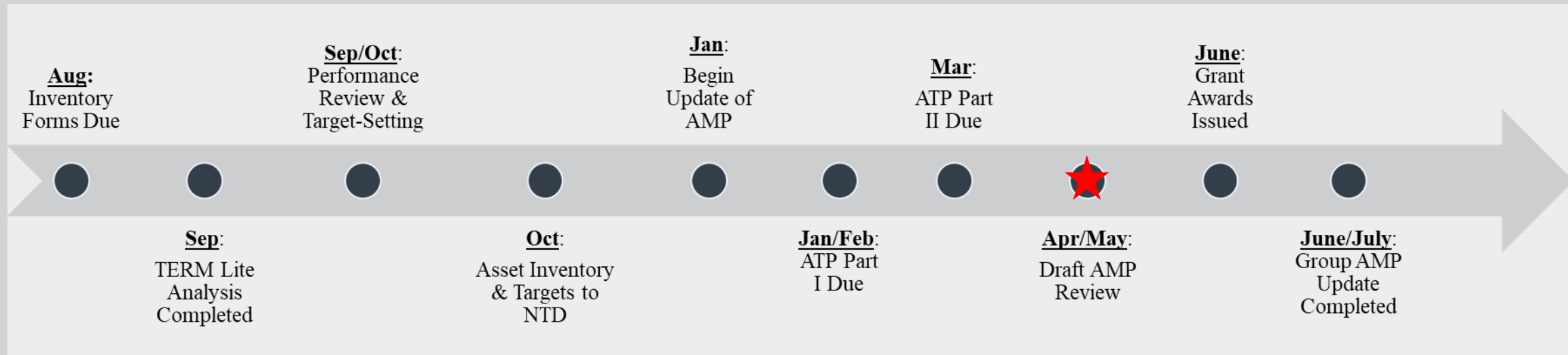


Total Results: 20

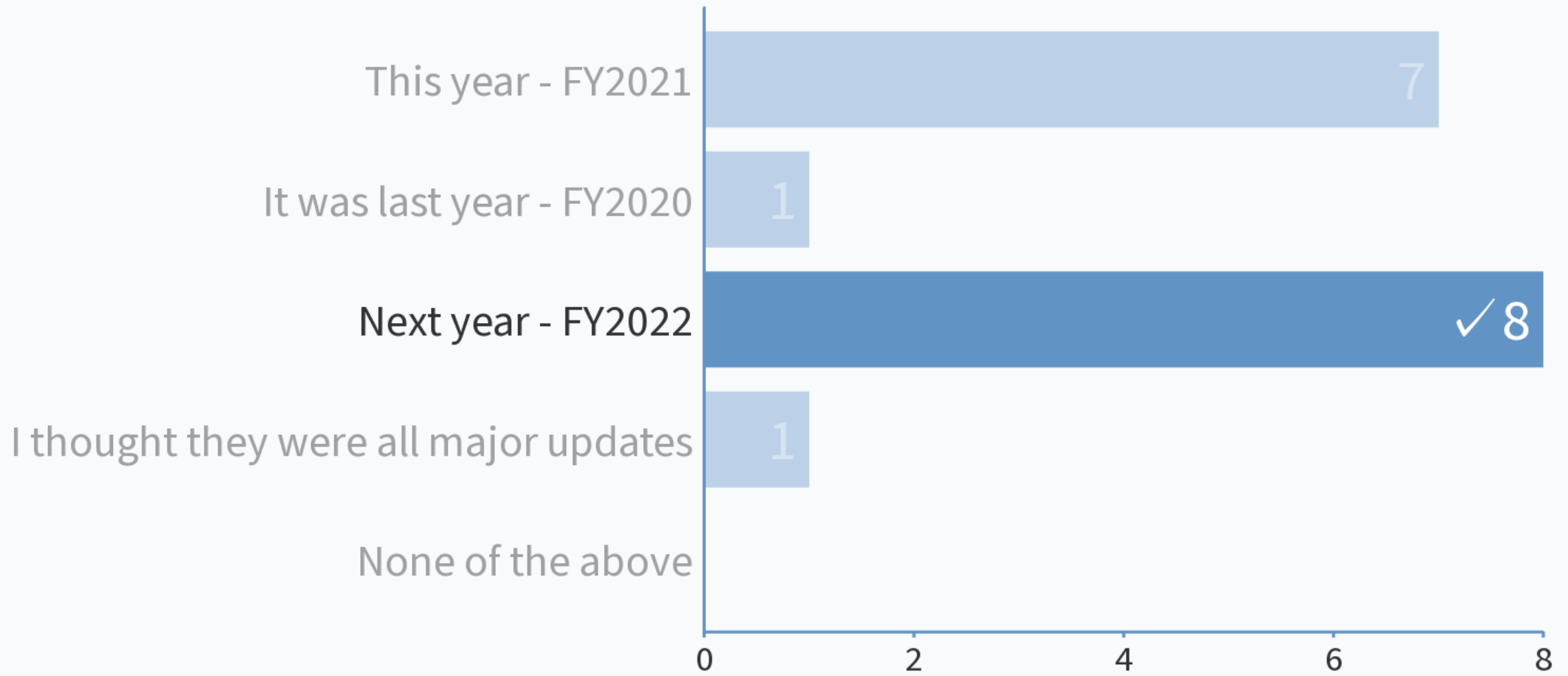
What agency do you represent?



Annual Asset Management Timeline



When is our first major TAMP update?



Total Results: 17

Tier II LOTS Group TAMP

You may recall...

- Minor annual TAMP updates - aligned with ATP process
 - Asset performance baseline
 - Annual performance target
 - Project prioritization
- Major 4-year updates

LOCALLY
OPERATED
TRANSIT SYSTEM
(LOTS)

TIER II GROUP
TRANSIT ASSET
MANAGEMENT
PLAN (TAMP)

2020



AM Plan Elements

LOTS Group TAMP Outline

1. Introduction
2. LOTS Asset Management Policy
3. Levels of Service
4. Capital Asset Portfolio
5. Asset & Safety Risk Management
6. Asset Lifecycle Strategies
7. Coronavirus Disease Impacts
8. Work Plans & Budget Forecasts
9. Asset Management Enablers
10. Continuous Improvement

FTA Requirements

AM & SGR Policy

Capital Asset Inventory

Condition Assessment

Decision Support Tools

Investment Prioritization

Updated

Updated

Pending grant awards

Pending LOTS input

What's Changed in the Updated TAMP?

Updated Ridership & Operating Performance Data

FY20 Asset Inventory & Performance

FY21 Performance Targets

COVID-19 Impact Discussion

Capital Funding Scenarios

Investment Prioritization

Asset Inventory & Performance

**Facilities includes only those with LOTS capital responsibility*




• 2020 TAMP: (FY2019 Snapshot)

INVENTORY


    673 revenue vehicles





    57 facilities

   377 equipment assets

CURRENT PERFORMANCE

 18.1% at or past FTA ULB

 3.5% in poor condition

 28.9% at or past FTA ULB


• 2021 TAMP: (FY2020 Snapshot)

INVENTORY




    658 revenue vehicles






    46 facilities

    350 equipment

CURRENT PERFORMANCE

   25.5% at or past FTA ULB

0.0% in poor condition

   21.7% at or past FTA ULB

TAMP Inventory Changes

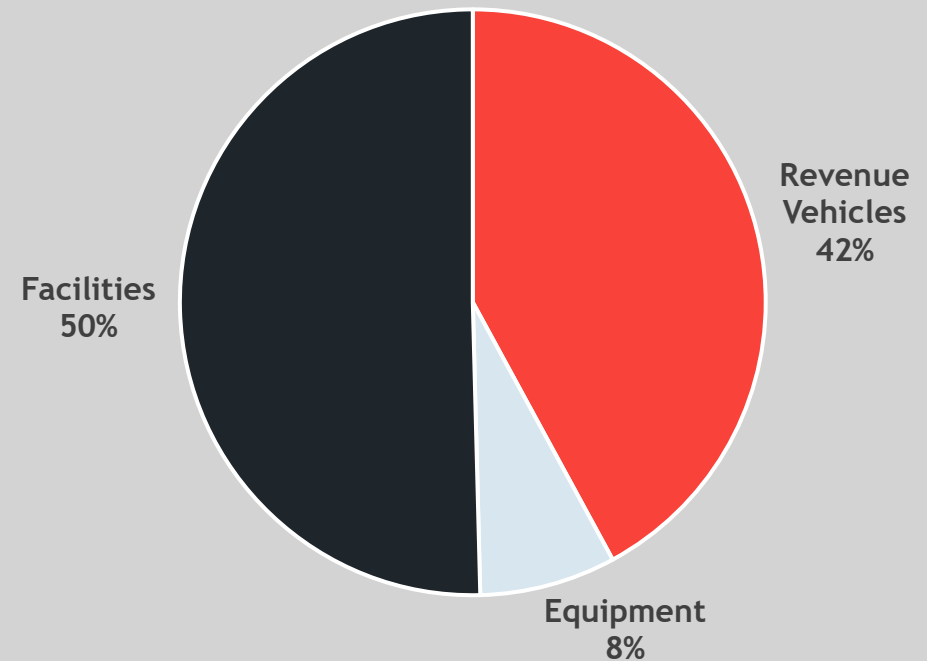
**Facilities includes only those with LOTS capital responsibility*

LOTS	2020 Revenue Vehicles	2021 Revenue Vehicles	2020 Equipment	2021 Equipment	2020 Facilities	2021 Facilities
Allegany County	22	23	18	18	2	2
Anne Arundel County	51	51	-	-	-	-
Baltimore City	22	23	10	15	-	-
Baltimore County	24	25	-	-	1	-
Calvert County	19	21	14	17	3	3
Carroll County	40	43	66	18	1	1
Cecil County	22	22	11	10	3	3
Charles County	40	40	31	31	7	1
City of Annapolis	16	15	16	16	4	4
Dorchester County	34	32	18	25	3	2
Frederick County	49	53	7	9	4	
Garrett County	28	21	5	6	5	5
Harford County	34	32	6	6	2	2
Howard County	65	72	36	38	1	1
Queen Anne's County	15	15	3	3	3	3
St. Mary's County	24	22	36	42	0	5
Talbot/Caroline/Kent Counties	23	20	33	33	1	1
TCCLES	45	45	27	24	3	3
Town of Ocean City	82	66	24	24	6	7
Washington County	18	17	16	15	3	3
Grand Total	673	658	377	350	57	47

2021 TAMP Asset Replacement Value

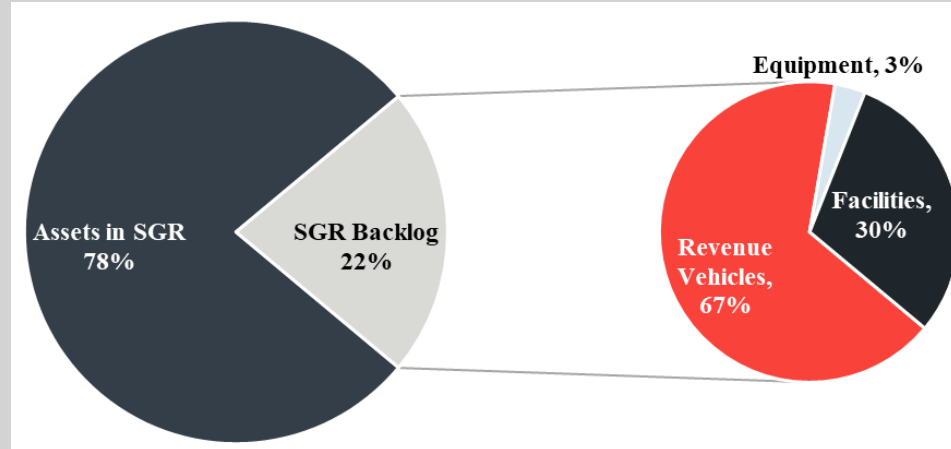
Asset Category/Type	Total Replacement Value/Cost (2020 \$)	% of Asset Base (by Cost)
Revenue Vehicles	\$115,583,509	42.1%
Automobile	\$359,881	0.1%
Bus	\$83,629,141	30.4%
Cutaway Bus	\$28,505,535	10.4%
Ferry Boat	\$1,759,701	0.6%
Van	\$1,329,251	0.5%
Equipment	\$20,652,594	7.5%
Non-Revenue Vehicles	\$3,625,294	1.3%
Communications	\$1,805,753	0.7%
Revenue Collection	\$1,345,310	0.5%
ITS	\$2,728,100	1.0%
Maintenance Equipment	\$11,148,137	4.1%
Facilities	\$138,475,378	50.4%
Administrative/Maintenance*	\$109,609,986	39.9%
Passenger/Parking	\$28,865,392	10.5%
TOTAL	\$274,711,481	100.00%

Asset Category Breakdown by Replacement Value (2020 dollars)

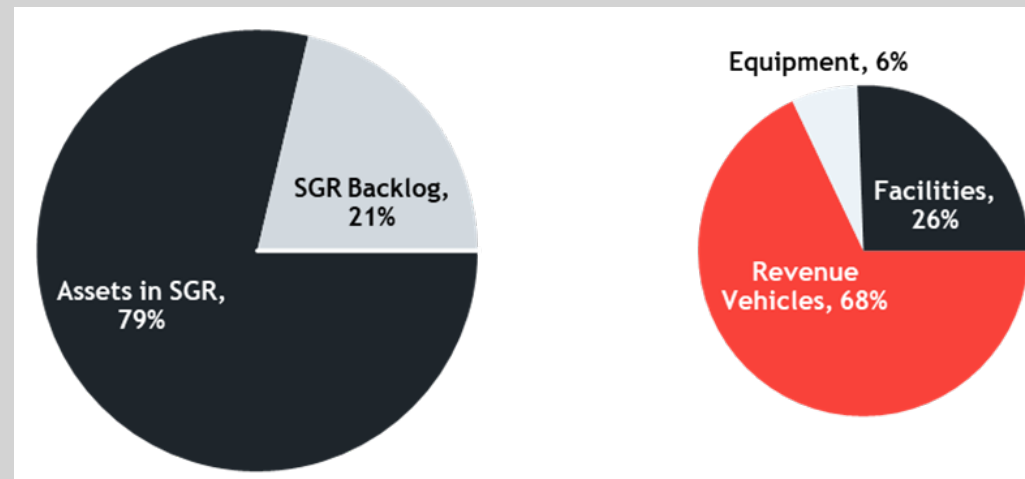


TERM Lite Inventory Backlog

- 2020 TAMP:
\$61.3M backlog
(FY2019 Snapshot)



- 2021 TAMP:
\$58.4M backlog
(FY2020 Snapshot)



Here's What Changed (since September)

Updated inventories

Ferryboat ULB

NTD issues raised

NTD Issues – Inventory Consistency

Number & age of
assets reported

Vehicle asset
types and modes

Useful Life
Benchmark

NTD Issues Example: Assets Reported & ULB

Asset Class	2020 TAMP Performance	2020 NTD Asset Performance
Bus	16.6%	19.4%
Cutaway Bus	16.9%	33.8%
Automobile	33.3%	41.7%
Van	32.7%	35.0%
Ferry Boat	0.0%	66.7%

**FY20 Snapshot - i.e. as of June 30th, 2020*

NTD Issues Example: Asset Types

“You did not report a target for Sports Utility Vehicle on the A-90 Form; however, there are revenue vehicle fleets with this vehicle type on the A-30 form for participant(s) in your plan. Please confirm the data...for targets for Rolling Stock on the A-90 and Vehicle Type of the A-30...”

Performance Targets

Presented in
September 2020
& TAMP

Asset Category	Asset Class	FY20 Target (TAMP)	FY20 Performance	Updated FY20 Performance	FY21 Final Target	Updated FY21 Target
Revenue Vehicles	Articulated Bus	-	-	0%	-	0%
	Bus	12%	24%	24%	18%	18%
	Cutaway Bus	15%	27%	27%	32%	32%
	Automobile	33%	27%	27%	64%	64%
	Van	26%	27%	31%	25%	28%
	Minivan	-	-	0%	-	0%
	Ferry Boat	0%	0%	25%	0%	75%
Equipment	Automobile	-	-	53%	-	60%
	Non-Revenue Vehicles	38%	37%	34%	44%	42%

Updated for NTD

Resolving NTD Discrepancies

- LOTS inventory process updates
- Individual LOTS Asset Performance Packet

[illegible]

Questions/Feedback

Part I: Asset Inventory, Condition,
Performance Targets



What's Changed in the Updated TAMP?

Updated Ridership & Operating Performance Data

FY20 Asset Inventory & Performance

FY21 Performance Targets

COVID-19 Impact Discussion

Capital Funding Scenarios

Investment Prioritization

COVID-19 Impact Discussion

Overall response to COVID-19:

- Initial and continued response to the pandemic
- Impacts on service and operations

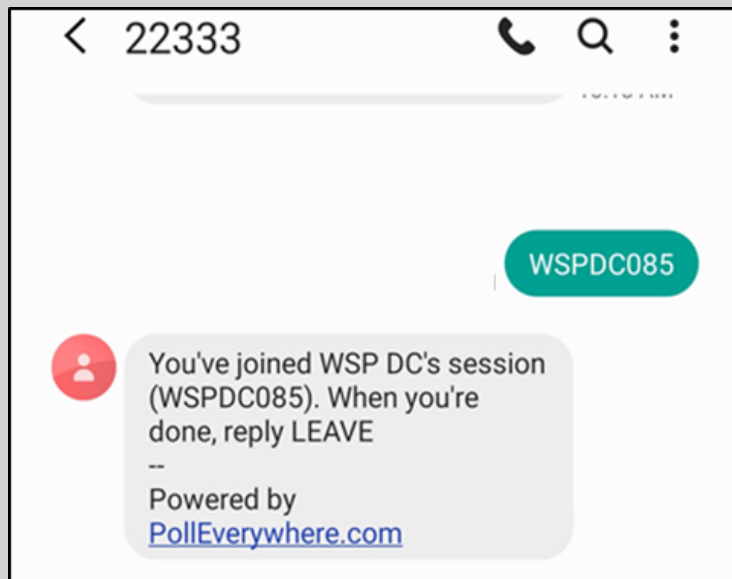
Specific discussion on:

- Impacts on asset maintenance
- Asset condition reporting & monitoring
- Declines in existing revenue and funding
- New funding sources

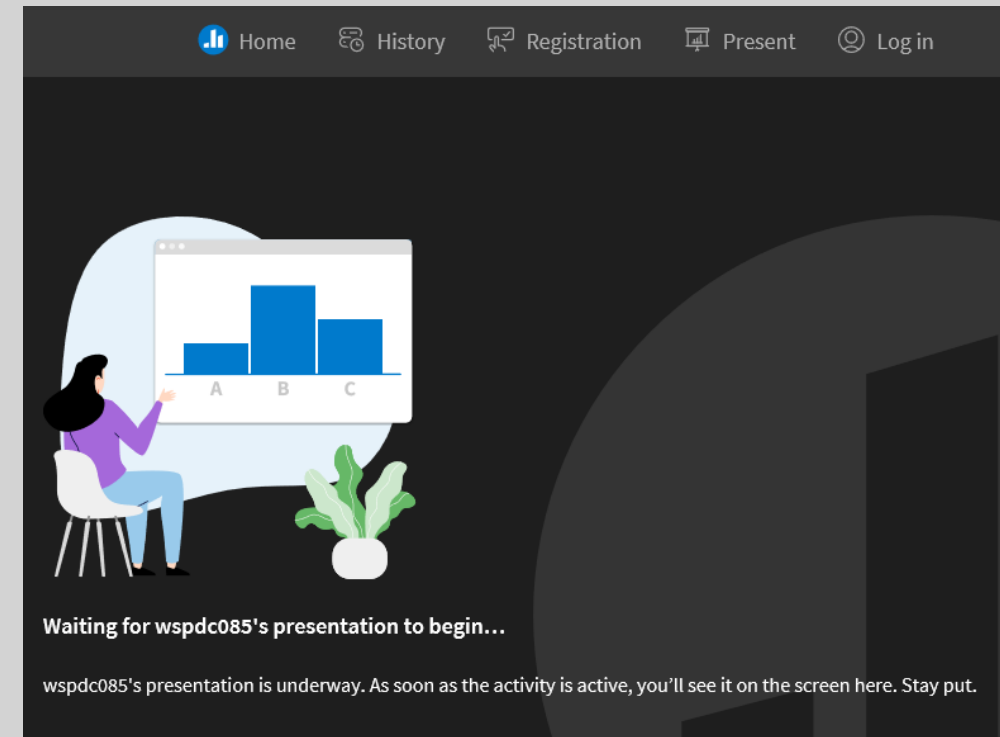
NEEDS UPDATE

Poll Everywhere - Be prepared to answer some poll questions

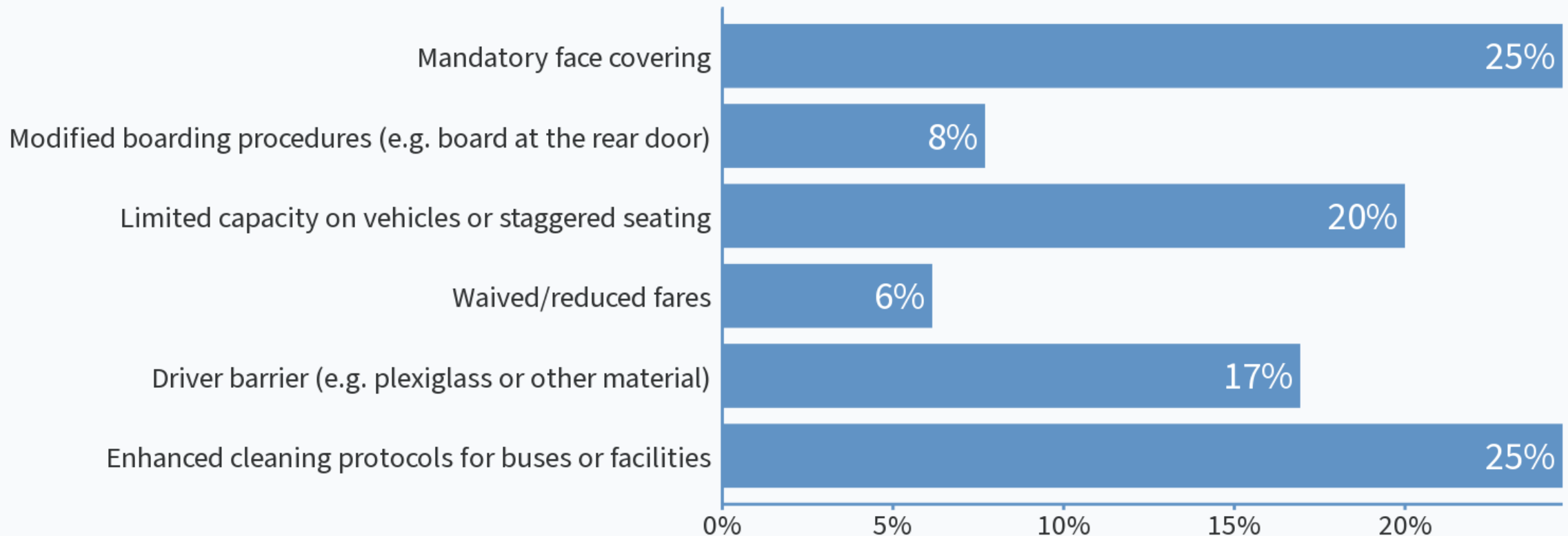
OPTION 1: Text WSPDC085 to 22333



OPTION 2: Go to PollEv.com/wspdc085



Which policy/operation changes implemented in the first few months of the pandemic lockdowns are still in place in your transit system? (select all that apply)



Are you supplying personal protective equipment (PPE) to staff or customers? (select all that apply)

Providing for drivers

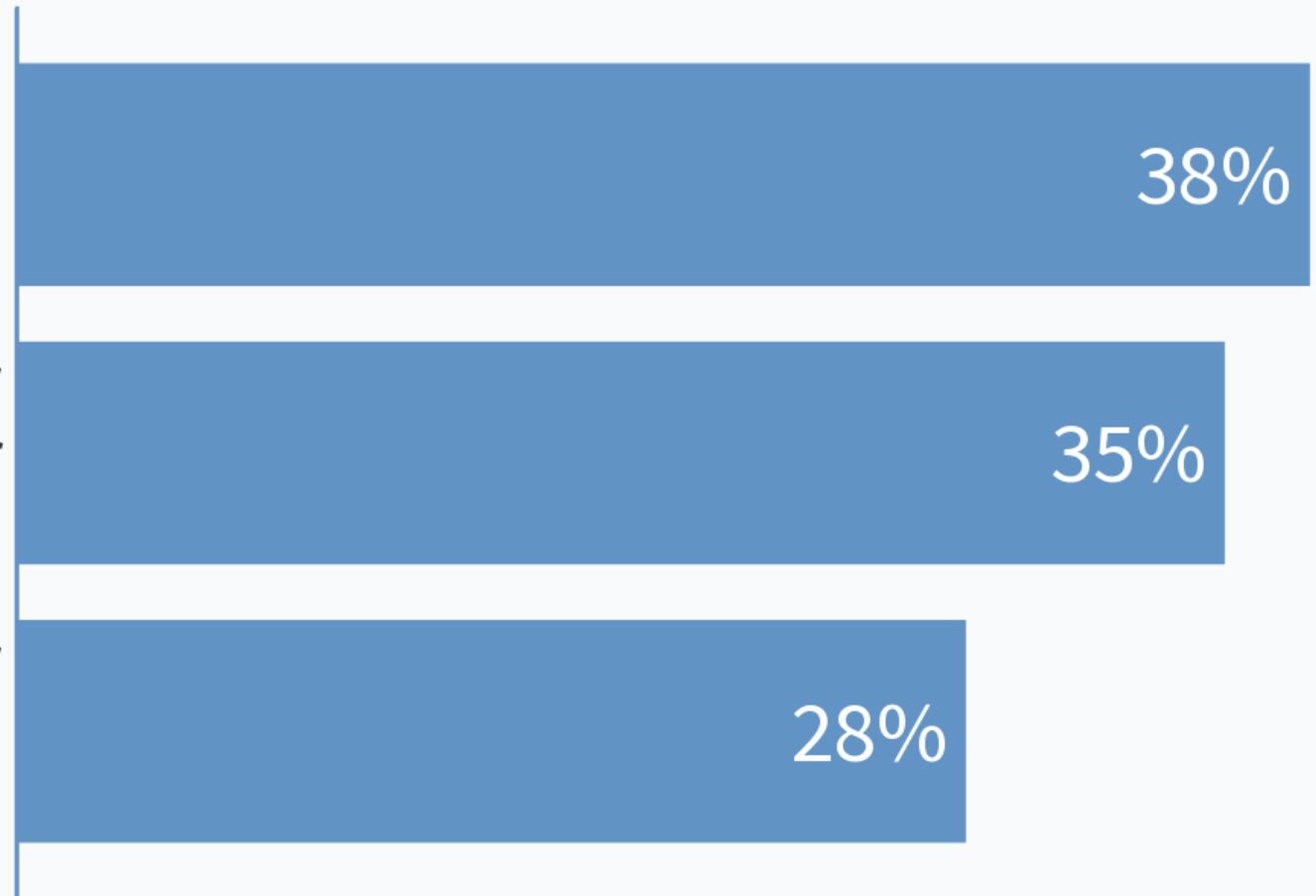
38%

Providing for other staff

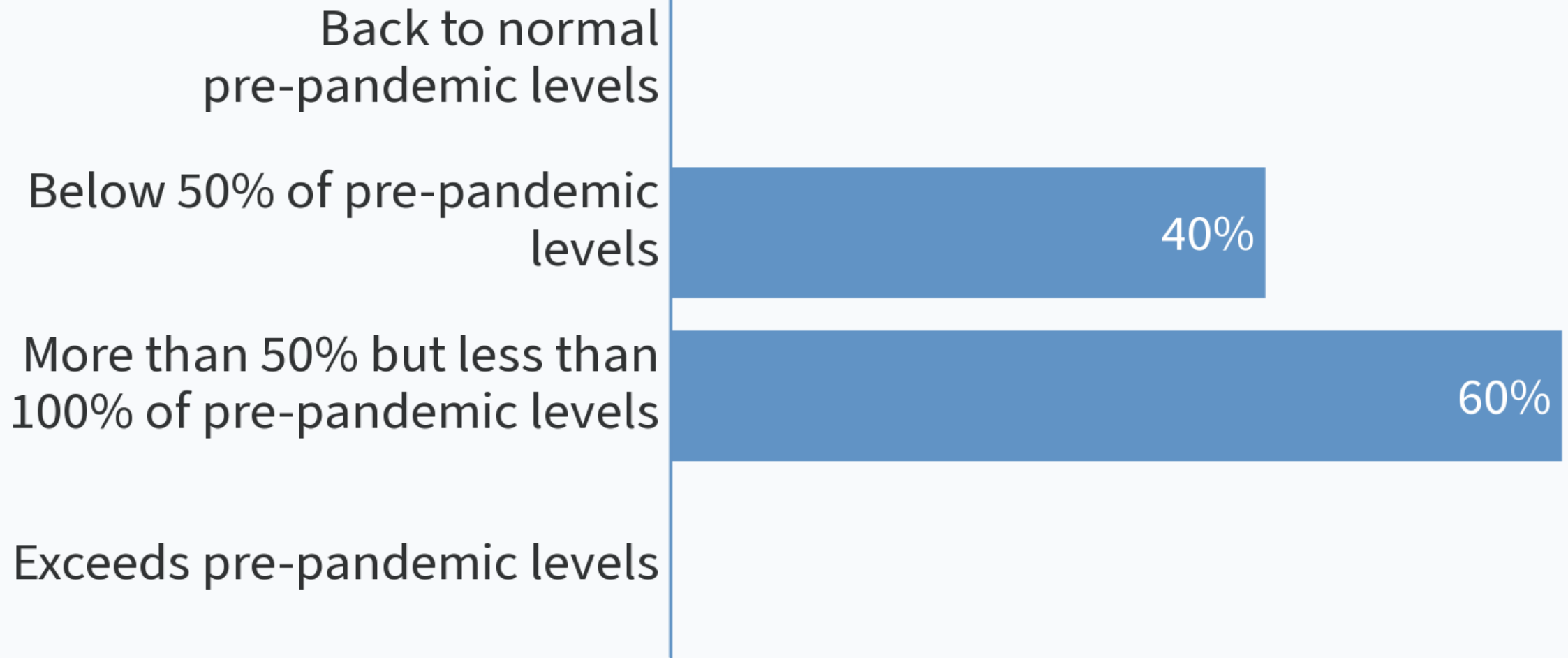
35%

Providing for customers

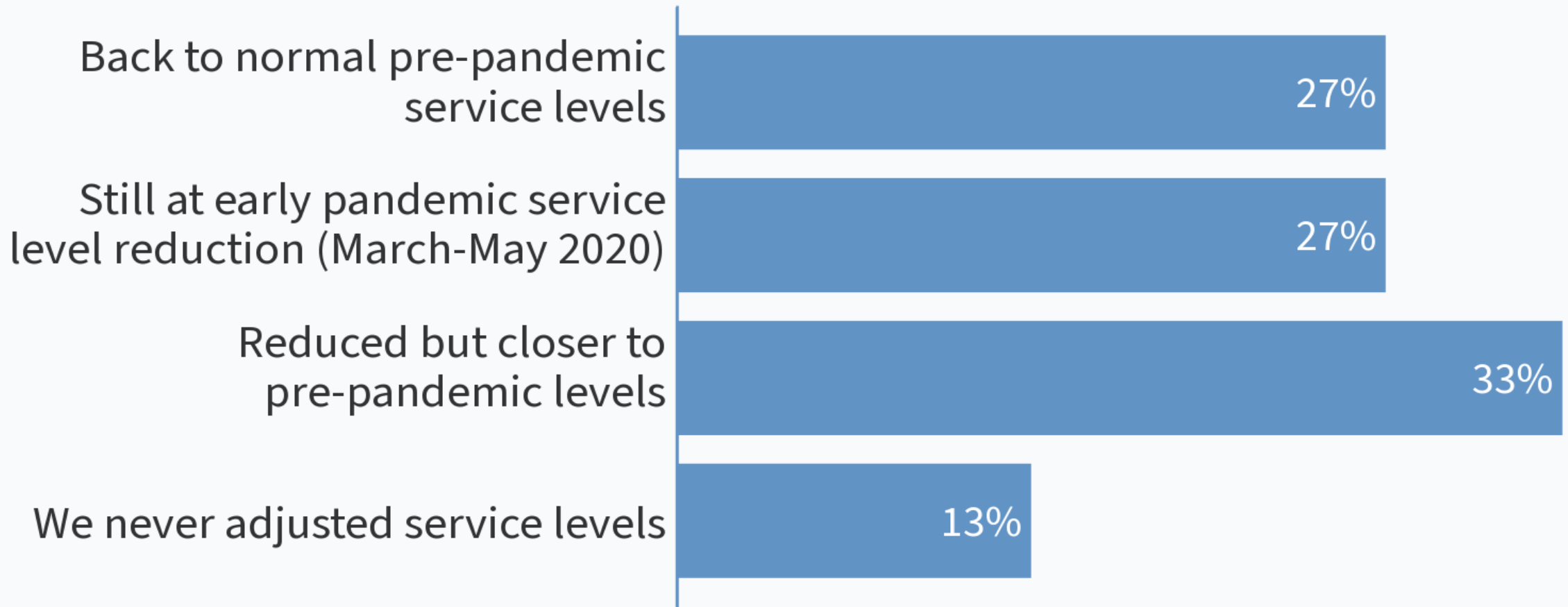
28%



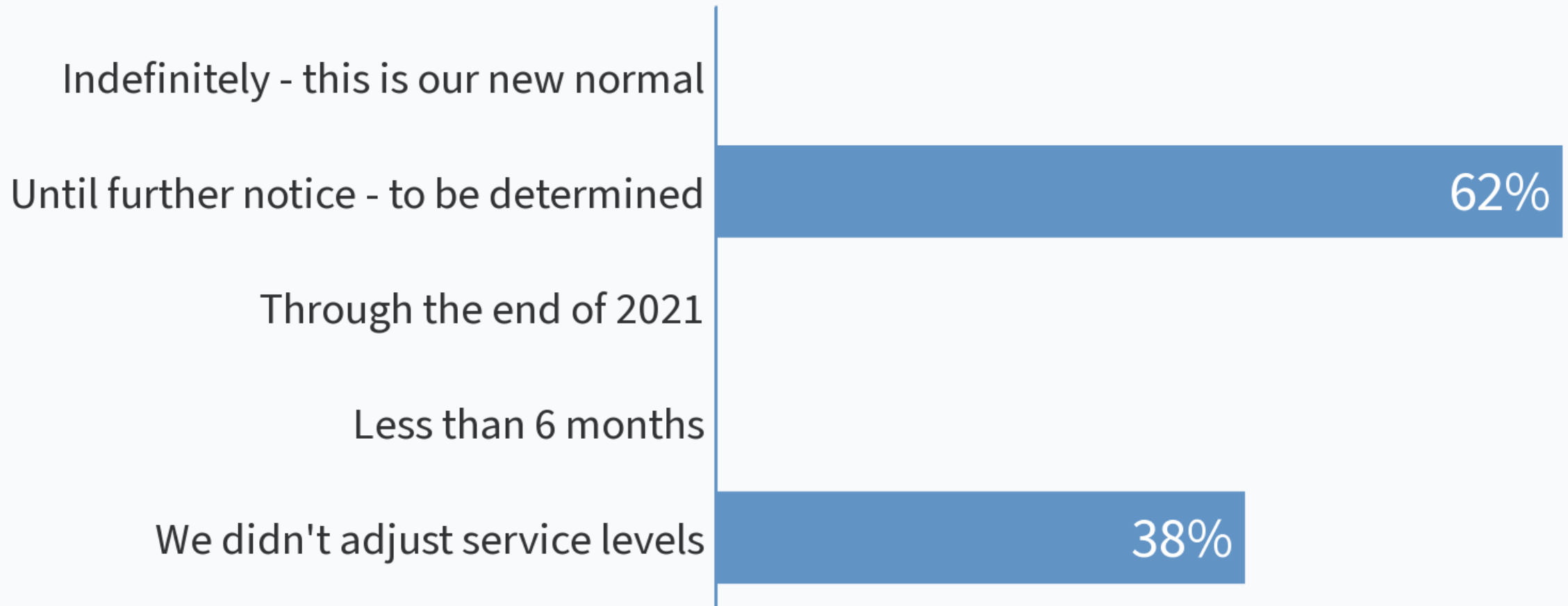
Where are your ridership levels as of today?



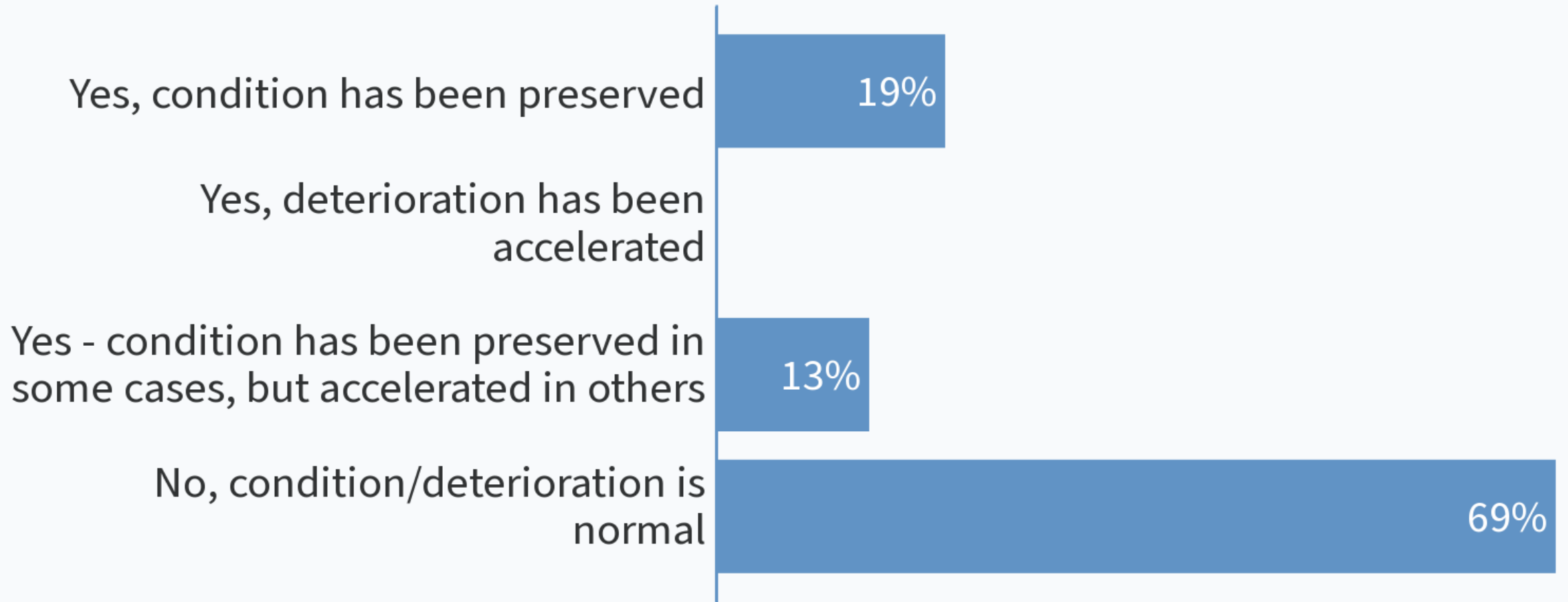
What is the status of any service adjustments introduced as a result of the pandemic?



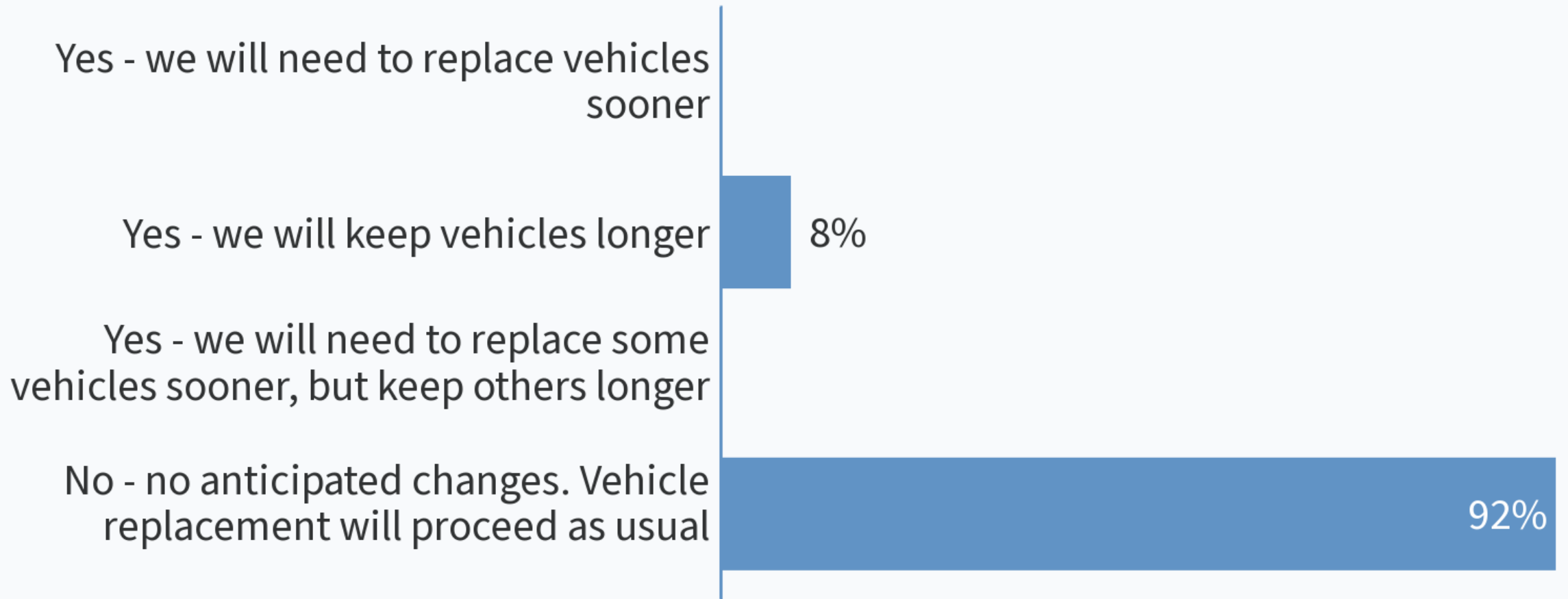
With the vaccine rollout, how long do you anticipate maintaining service modifications?



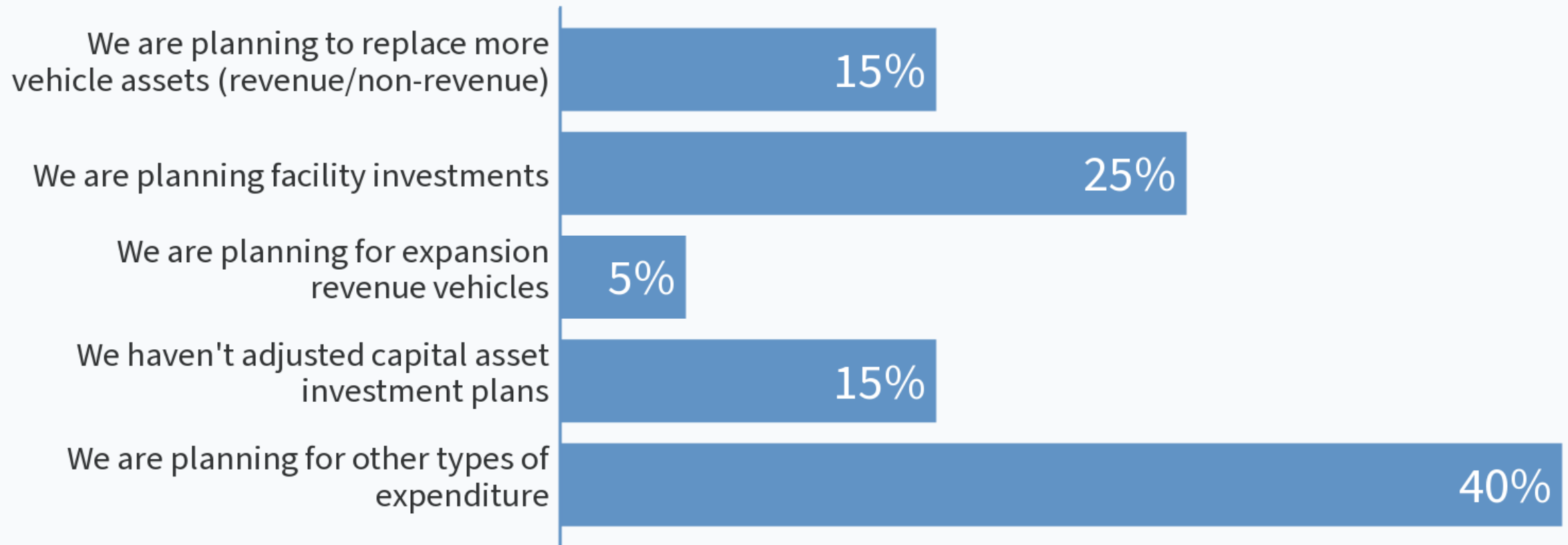
Have you seen any impact to your vehicle condition due to the pandemic?



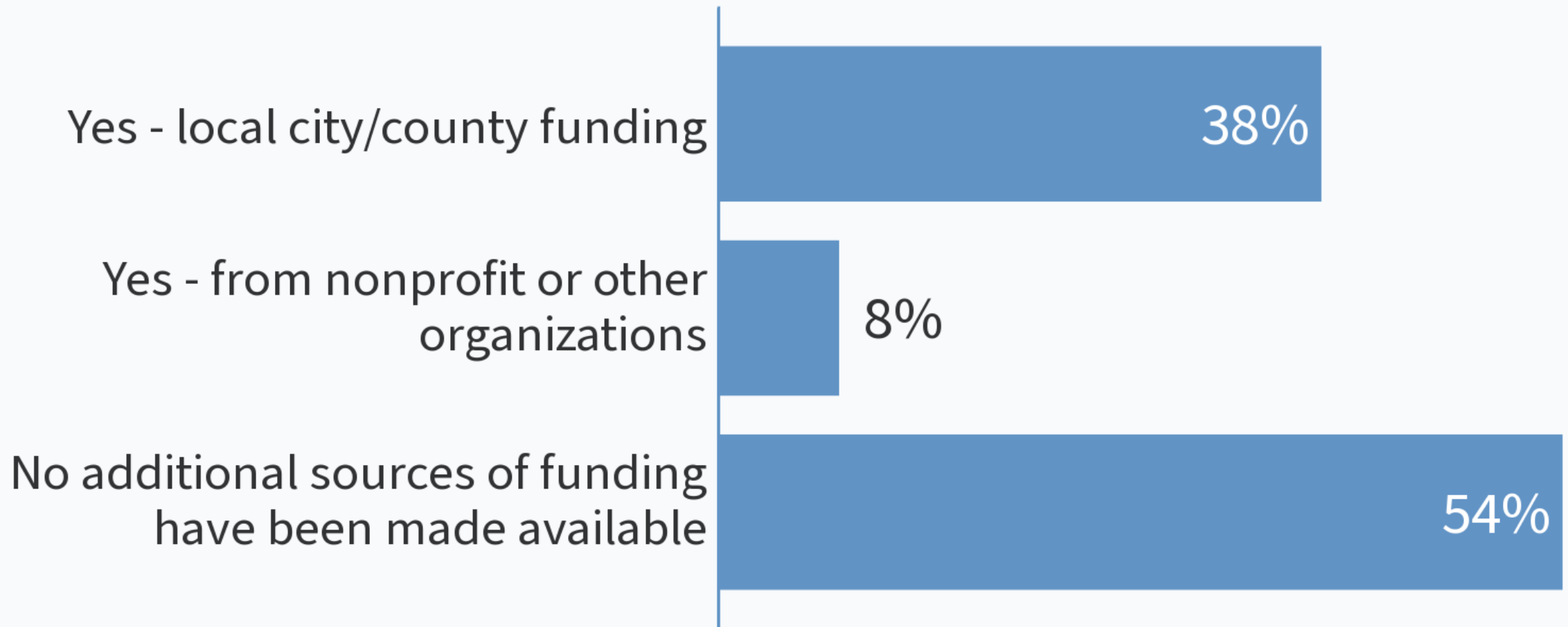
Do you anticipate any changes to your vehicle replacement schedule due to asset condition?



What type of expenditure are you planning/anticipating, given the emergency funding provided through CARES/CRRSAA/ARP? (select all that apply)



In light of the pandemic, have you had the option for using additional funding sources? (select all that apply)



AM Plan Elements

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FTA Requirements

AM & SGR Policy

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Condition Assessment

Decision Support Tools

Investment Prioritization

Updated

Updated

Pending grant awards

To be updated with LOTS input

Questions/Feedback

Part II: COVID-19 Impact Discussion



What's Changed in the Updated TAMP?

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FY20 Asset Inventory & Performance

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COVID-19 Impact Discussion

Capital Funding Scenarios

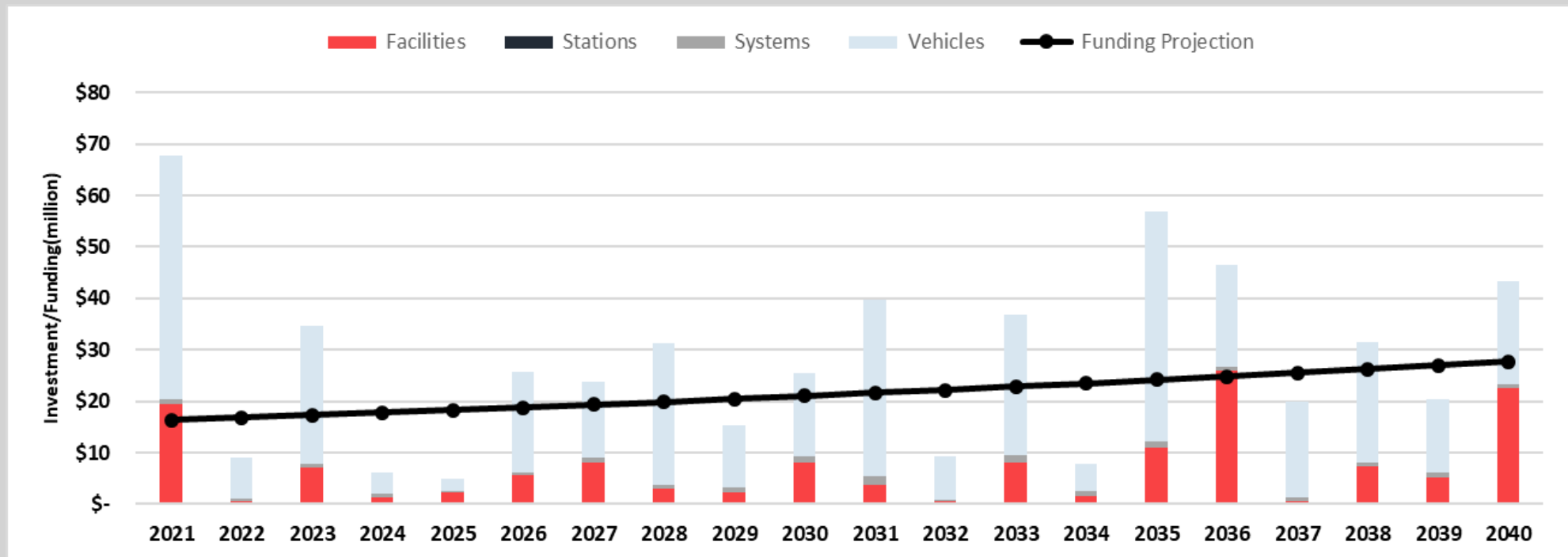
Investment Prioritization

A Few Modeling Notes

- Funding analysis completed using FTA's TERMLite tool
- Funding is applied to the Tier II group assets as a group
- Funding includes 5307, 5311, 5339 (+CARES estimate)
- Local funding is not included
- 20-year modeling scenario considered
- Projected amounts are in Year of Expenditure Dollars (\$YOE)
- Inflation rate of 2.82%

Funding Scenario Context: 20-Year Projected Needs & Funding

Initial Backlog: \$58.4M
Avg Annual Unconstrained Need: \$27.6M
Projected Avg Annual Funding: \$22.9M

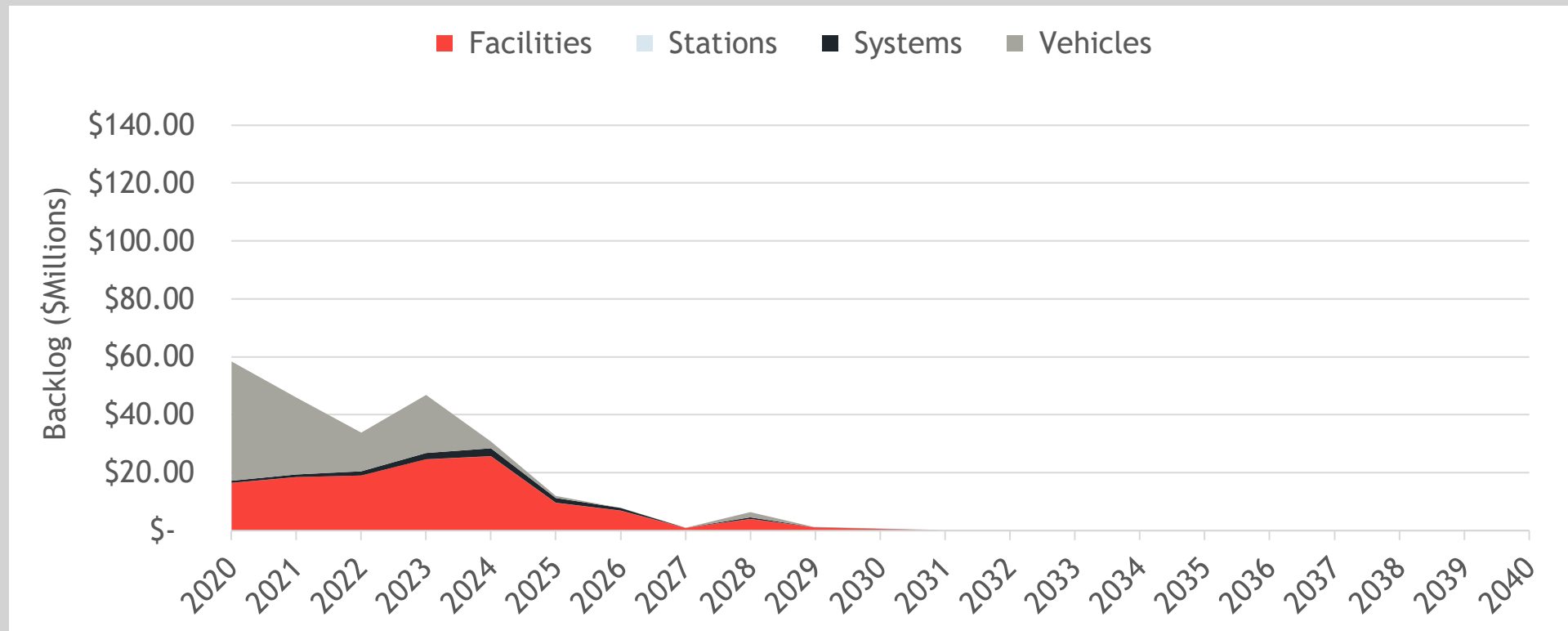


TAMP 2021 Funding Scenarios

Scenario	Funding Descriptions
Scenario 1	Current Funding Levels with 5339 Sustained (\$22M in 2020)
Scenario 2	Current Funding Levels without 5339 (\$17.8M in 2020)
Scenario 3	Current Funding with 5339 + CARES (One-Time)
Scenario 4	Historical Average Funding (\$16.4M in 2020)
Scenario 5	50% Backlog Target Seek in 20 Years
Scenario 6	Maintain Backlog for 20 Years (100% Backlog Target Seek)

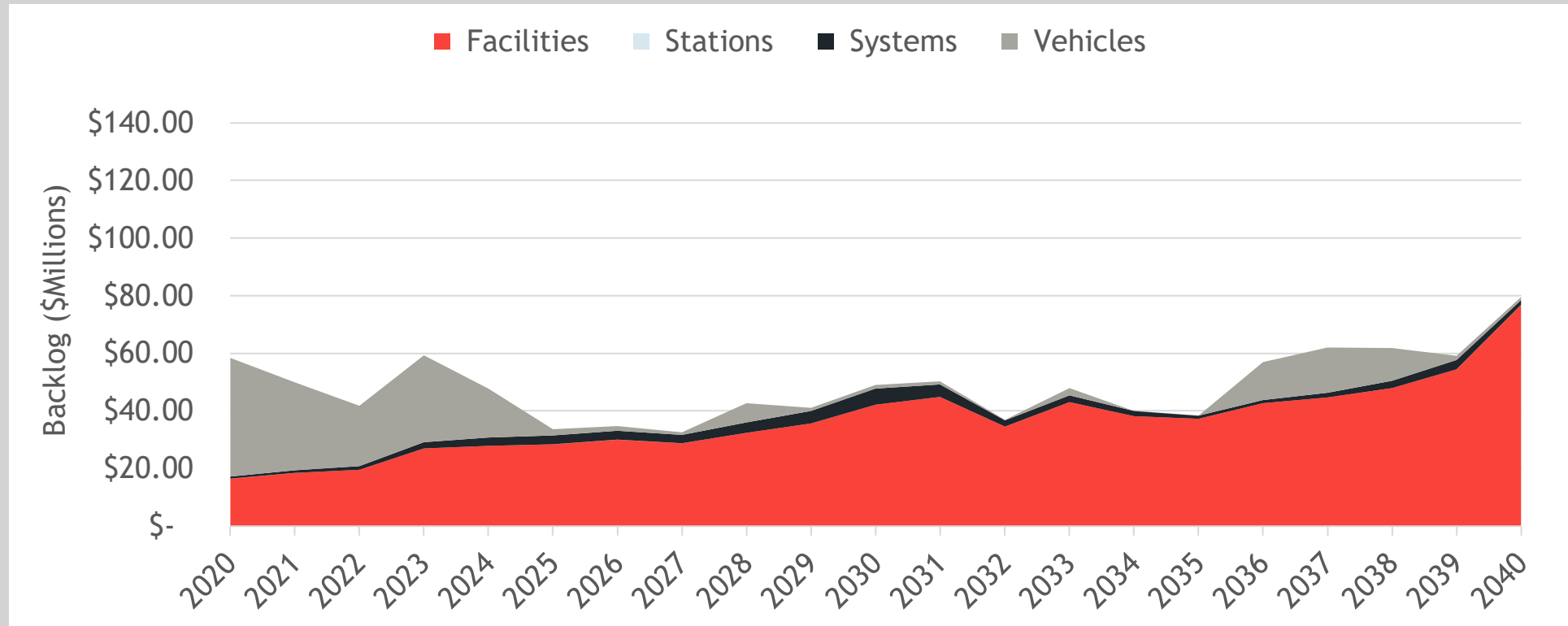
SCENARIO 1: Current Funding Levels with 5339 Discretionary Funding Sustained

Initial Backlog: \$58.4M
Avg Annual Investment: \$27.9M
Resulting Backlog: \$0.0M



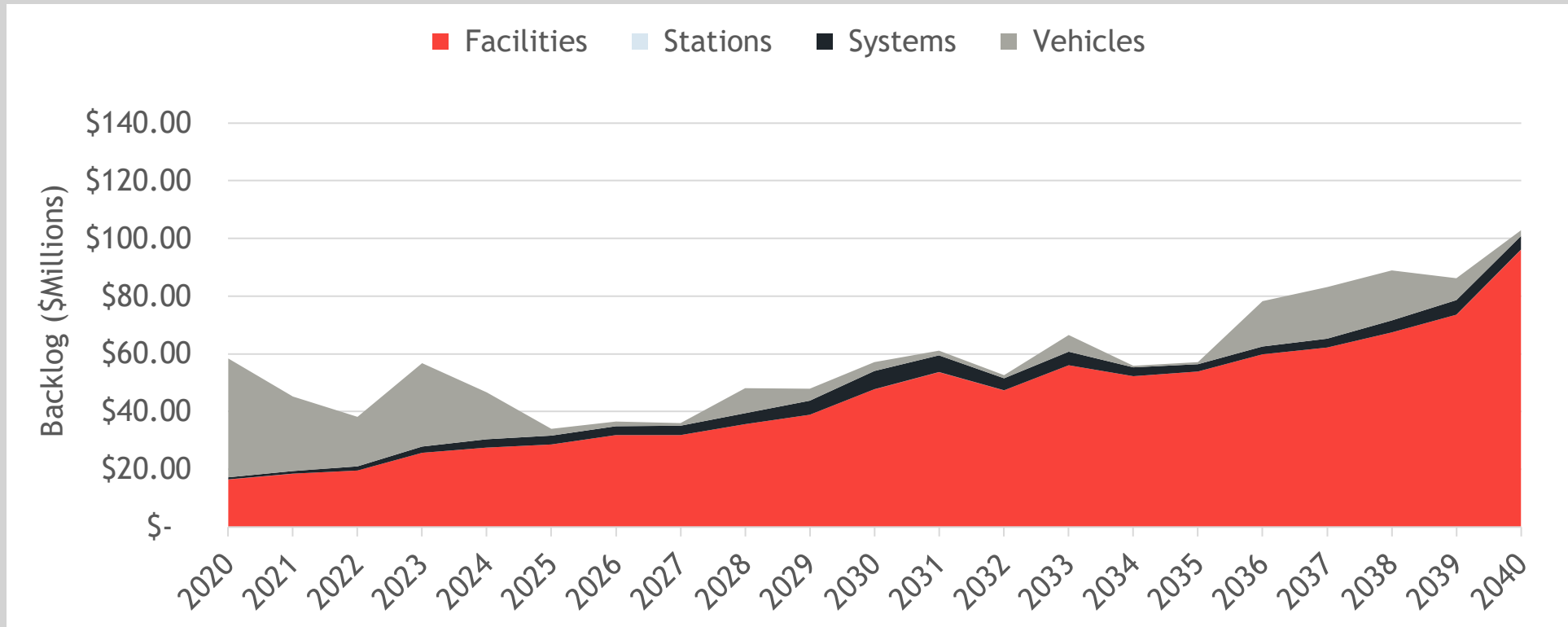
SCENARIO 2: Current Funding Levels without 5339

Initial Backlog: \$58.4M
Avg Annual Investment: \$23.5M
Resulting Backlog: \$79.5M



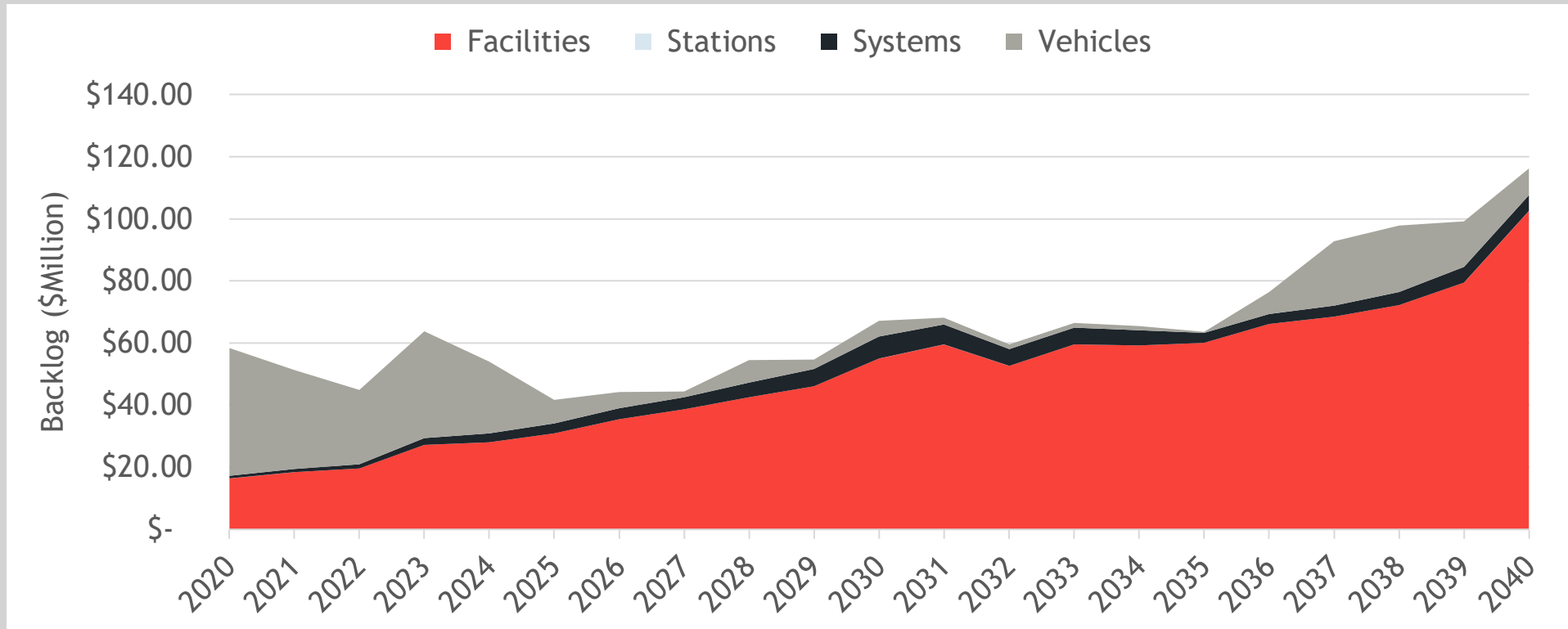
SCENARIO 3: Current Funding with 5339 & CARES Act Funds

Initial Backlog: \$58.4M
Avg Annual Investment: \$22.2M
Resulting Backlog: \$102.8M



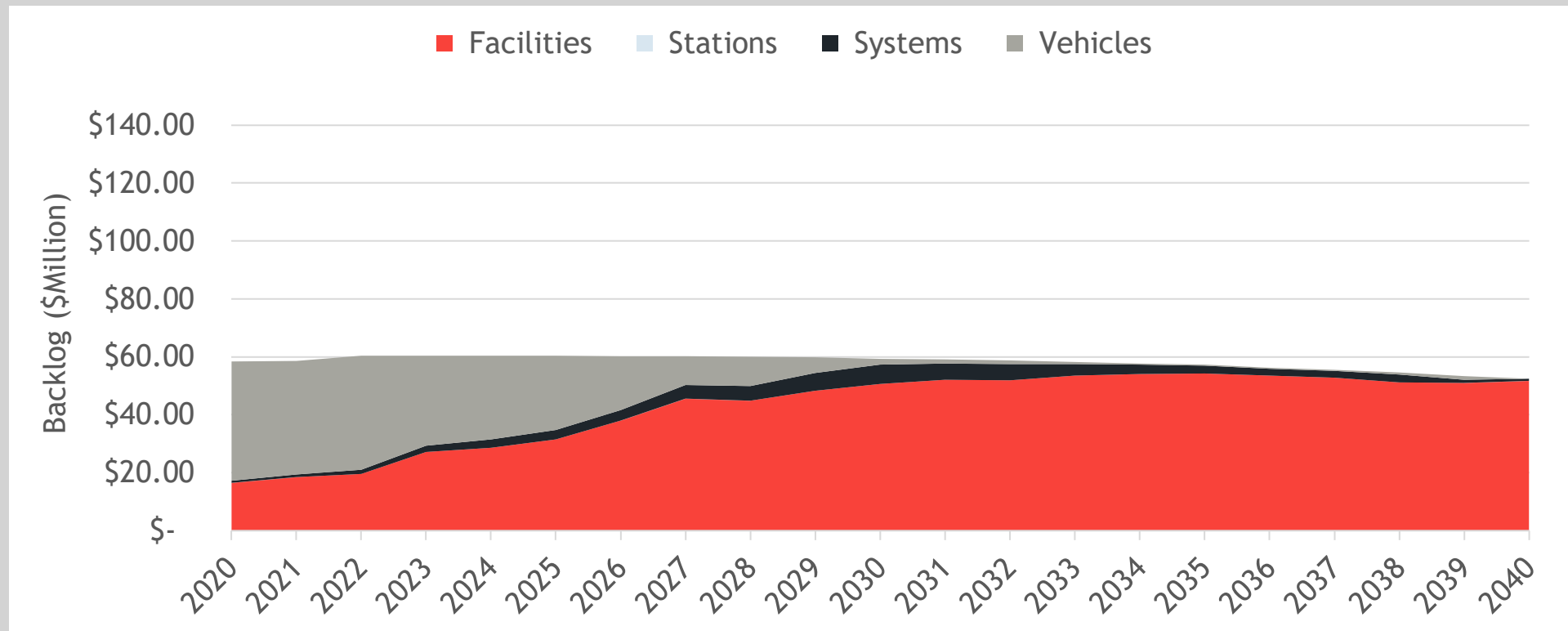
SCENARIO 4: Historical Average Funding

Initial Backlog: \$58.4M
Avg Annual Investment: \$21.6M
Resulting Backlog: \$116.3M



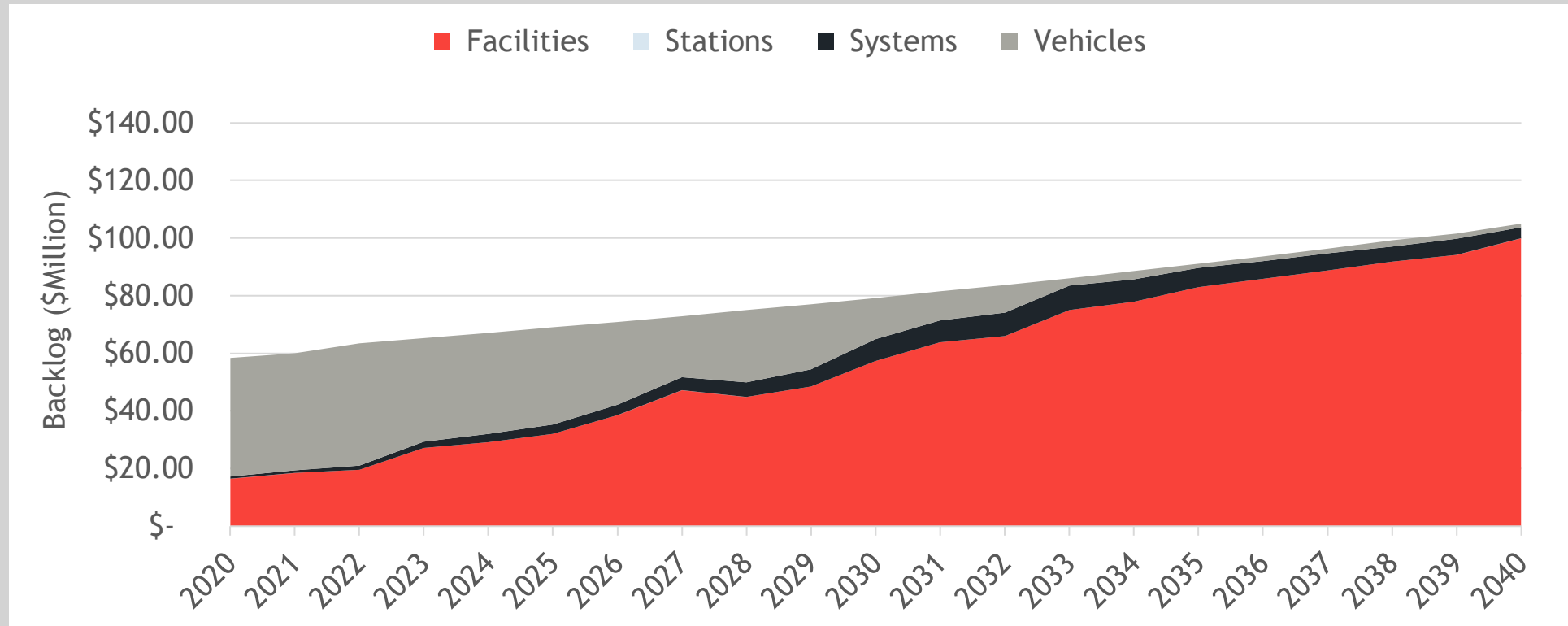
SCENARIO 5: 50% Backlog Target Seek in 20 Years

Initial Backlog: \$58.4M
Avg Annual Investment: \$24.9M
Resulting Backlog: \$52.5M



SCENARIO 6: Maintain Backlog (100% Backlog Target Seek)

Initial Backlog: \$58.4M
Avg Annual Investment: \$22.1M
Resulting Backlog: \$105.1M



Funding Scenario Comparison

Initial Backlog: \$58.4M (2020\$)
Avg Annual Unconstrained Need: \$27.6M

Scenario	Average Annual Investment	Average Annual Funding Gap	Backlog at Period End (2040\$)	Backlog at Period End (2020\$)
1 - Current Funding + 5339 Sustained	\$27.9M	(\$0.3)M	\$0.0M	\$0.0M
2 - Current Funding - 5339	\$23.5M	\$4.1M	\$79.5M	\$45.6M
3 - Current Funding +5339+ CARES (One-Time)	\$22.2M	\$5.4M	\$102.8M	\$58.9M
4 - Historical Funding	\$21.6M	\$6.0M	\$116.3M	\$66.7M
5 - 50% Backlog	\$24.9M	\$2.7M	\$52.5M	\$30.1M
6-Maintain Backlog	\$22.1M	\$5.5M	\$105.1M	\$60.3M

Questions/Feedback

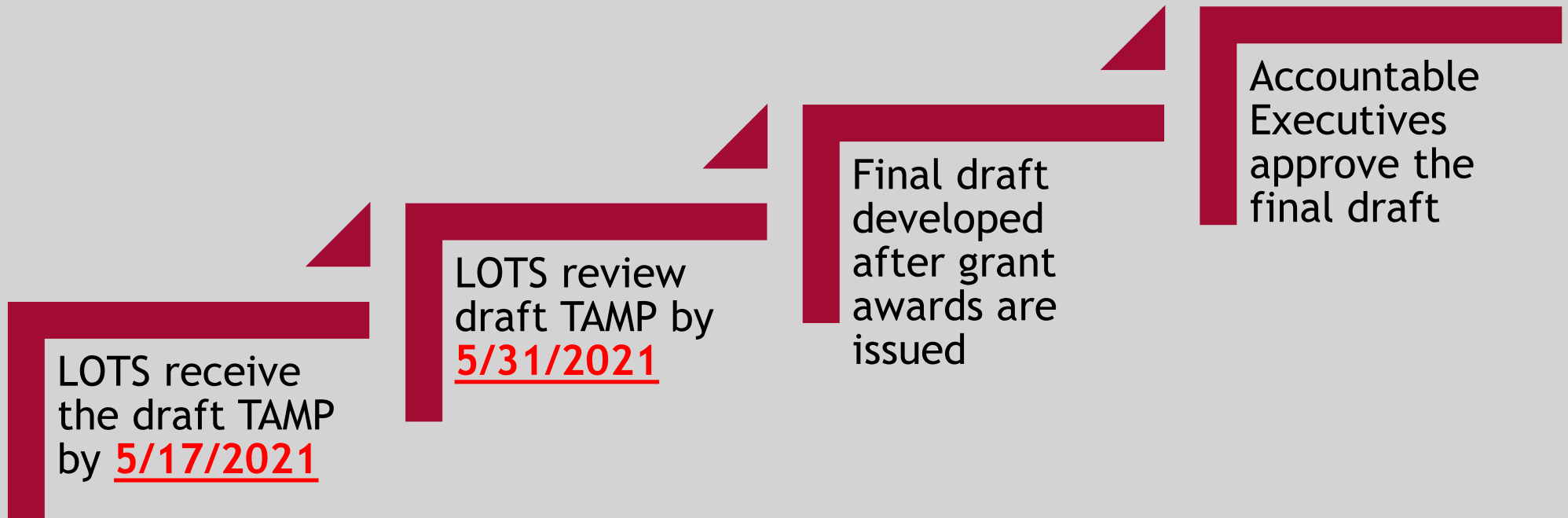
Part III: Capital Funding Scenarios





THE WRAP UP

2021 TAMP Development Next Steps



Thank You

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5/12/2021

