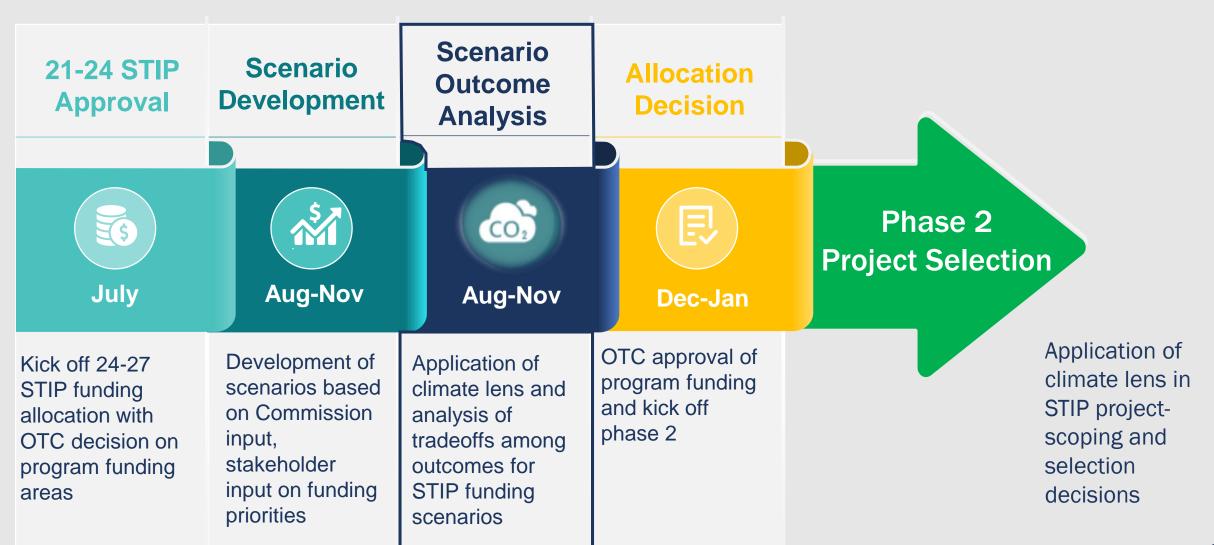
Development of the 2024-2027 Statewide Transportation Improvement Program

October 22, 2020

Karen Rowe, Delivery and Operations Division Administrator
Jerri Bohard, Policy, Data and Analysis Division Administrator
Jeff Flowers, Statewide Investments Management Section Manager
Travis Brouwer, Assistant Director for Revenue, Finance & Compliance
Amanda Pietz, Climate Office Director

2024-2027 STIP Development & Analysis Process





Next Steps for STIP Funding Allocation

October

- ODOT shares scenarios and results of analysis
- OTC provides feedback on refining scenarios

December

OTC selects funding allocation option

January

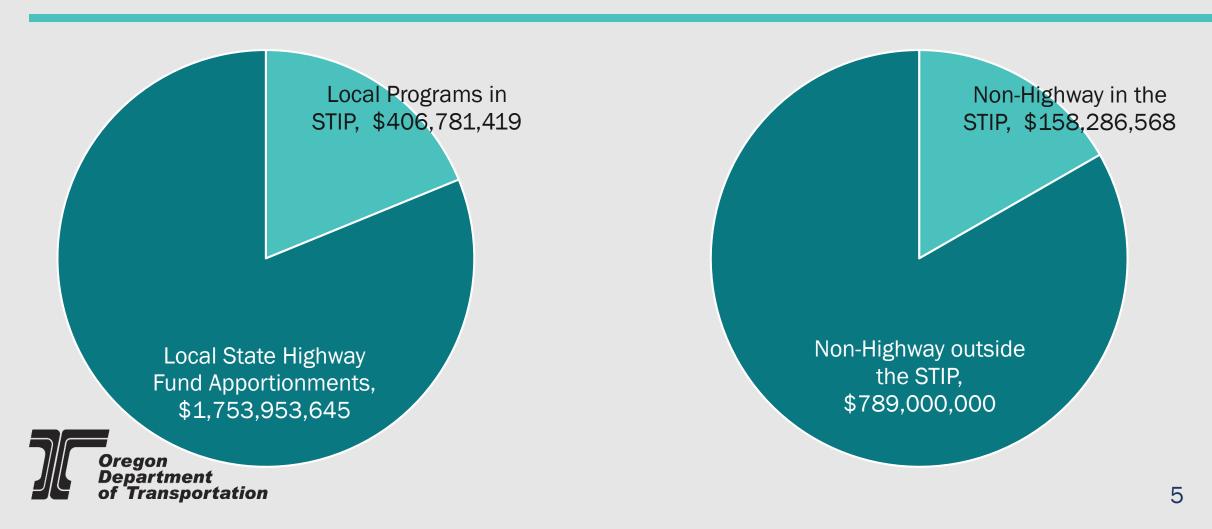
- ODOT presents program allocations
- OTC direction to ODOT on how to use any additional federal funds

STIP Public Engagement and Input Opportunities

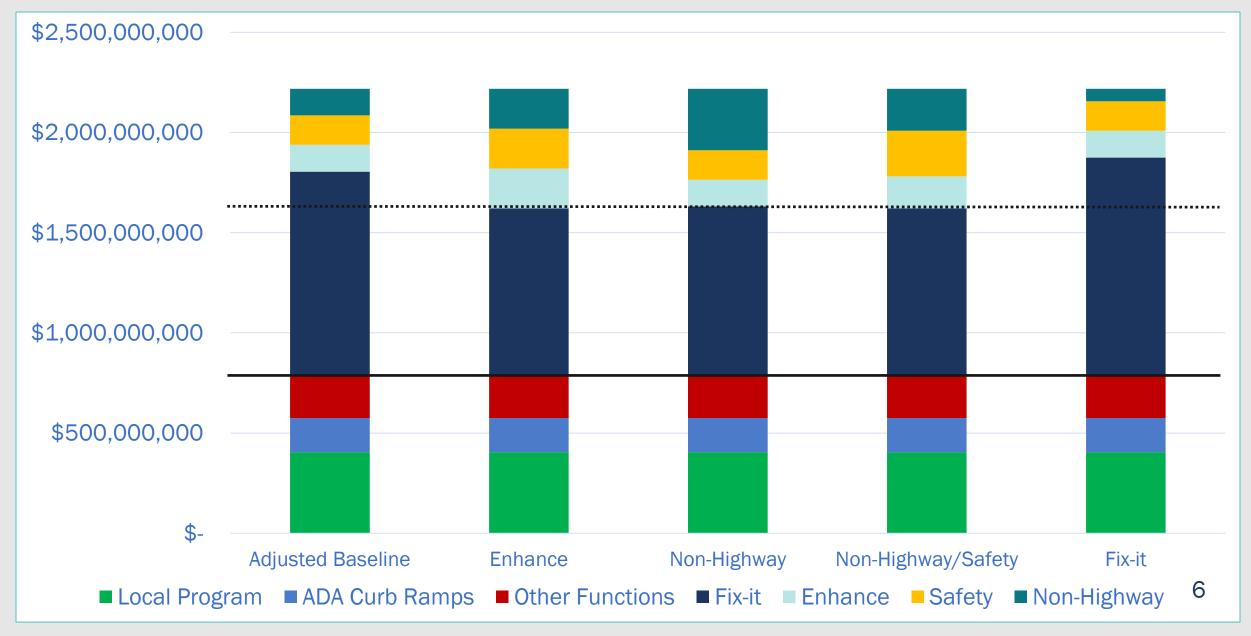
- Advisory committee discussions on funding scenarios
- Online open house for public comment on funding scenarios
- Webinar on November 2 for public comment opportunity
- Encouraging stakeholders to weigh in through letters to the OTC



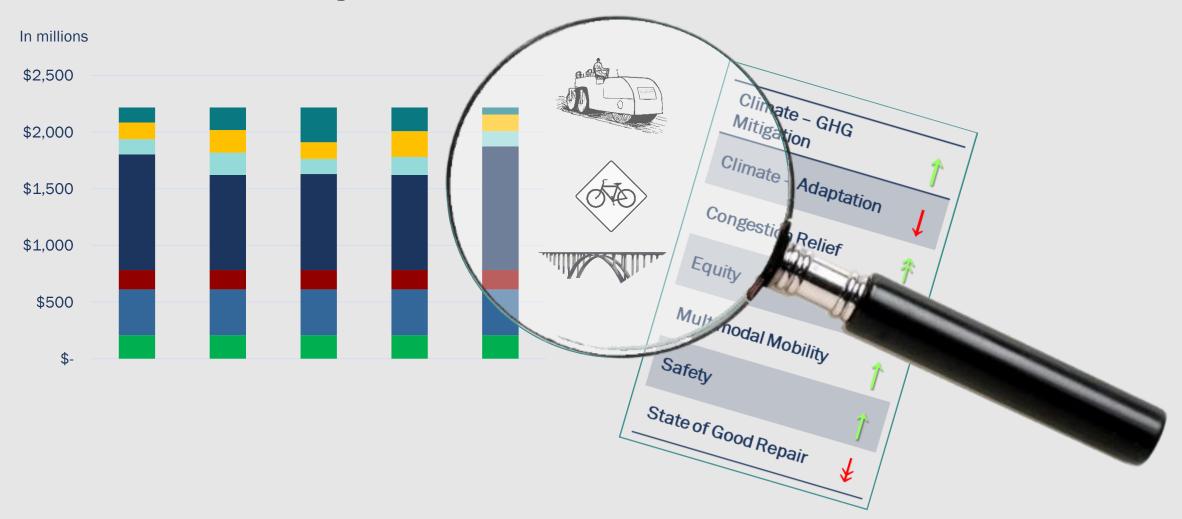
Non-Highway and Local Funding



2024-2027 STIP Scenarios



Scenario Analysis



Analysis Requirements

Executive Order 20-04



Add GHG Lens to Project Selection

- Phase 1: Inform funding allocation in 2024-2027 STIP
- Phase 2: Support project selection
 - Test and iterate
 - Engage stakeholders on methods
- Phase 3: Report on outcome of STIP projects





What about tradeoffs?

Develop a Tradeoff Evaluation Framework

Based on Strategic Action Plan Goals and Priorities

OTC Strategic Action Plan

3. Reduce Our Carbon Footprint

We will select and build cleaner projects to help reach Oregon's climate goa

Ongoris - climate is dinastically damping with more frequent and severe violidies, flooding, and Inadialise. These versus on lead to end closures that impact freight, the exonomy, and people's ability to obtain critical services. Cora, trucks, and other transportation sources significantly certainties to air pollution and are the largest source of GIT- emissions in Oregon, constituting and the contraction of the contraction of

The Oregen Statemide Transportation Strategy A 2050 Vision for GHG Reduction is the state's condamps for reducing carbon emissions from the transportation sector. Key actions include cleaner vehicles and fuels (e.g. electric vehicles), low carbon modes (transit blick, voils, etc.), close proximity of housing to jobs (land use), patcing (e.g. vehicle milles traveled charge), and demand management strategies (e.g. telecommuting).

ODOT is pursuing efforts within each of these categories by implementing the Governor's direction in Executive Order 20 04 and through multi-agency efforts (Every Mile Counts). Additional efforts are needed and will be identified in an ODOT Statewide Transportation Strategy Mid-Term Action 18

Cleaner Investments and Projects

Underprinting all of these efforts is determining how we pend money and how we build our projects. Most of Obegar's transportation dollars flow to or through ODOT and can be better targeted to low carbon investments. ODOT will consider GHG emission impacts and most entering trogatms in selecting major capital projects. ODOT will support allocation to low carbon emission projects. Historic spending will be compared to future spending to calculate emission savings.

After projects are selected, emissions from building the project must also be considered. ODOT will pursue low carbon construction techniques where possible, relying on low carbon fuels and materials. We will inventory emissions, identify lower carbon options, and develop and pursue a transition plan with our construction partners.

Implementing Actions

Year	Actions
2021	Establish a carbon baseline for emissions from the construction of transportation projects.
2021	Identify alternative lower carbon materials and fuels and set emission reduction targets.
2021	Apply GHG emission standards in making ODOT investment decisions.
2022	Phase in lower carbon materials finds and construction practices

rnase in lower carbon materials, meis, and construction practice monitor and adjust. Adjust investment programs to invest in lower emission projects





Climate-Mitigation



Climate Adaptation/ Resilience



Congestion



Social Equity



Multi-Modal Mobility





Reduces emissions per mile and supports VMT reduction, improves health/AQ

Proactive investment that increases resilience to extreme weather events and climate change

Ease of Roadway movement, ease congestion

Supports all user needs and exposure equitably, targets disadvantaged populations and frontline communities

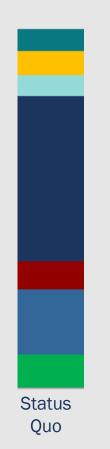
Multi-modal access, resilient set of modal options

Prioritize the safety of system users and transportation workers

Cost-effectively preserve and maintain our assets

Analysis Approach

Mapping to Real Projects and Outcomes



Look at STIP Projects

- Distinguish by project attribute
- Associate project attribute with:
 - Good: +
 - Neutral: 0
 - Bad: -

E.g. Bridge Replacement (adding capacity)



Des	sired Outcome	Relationship
>	Congestion Relief	+
>	Multi-Modal	0
>	Social Equity	0
>	Safety	+
>	Climate Mitigation	-
>	Climate Adaptation/Resilie nce	+
>	State of Good Repair	0

Project	Congestion	Multi-Modal	Equity	Safety	Mitigation	Adaptation	Good Repair	
A	\$x			\$x		\$x		
В		\$x	\$x	\$x	\$x		\$x	
С						\$x	\$x	
D		\$x	\$x		\$x			
TOTAL	X%	X%	X%	X%	X%	X%	X%	% of funding spent
Need	Y %	Y %	Y %	Y %	Y %	Y %	Y %	% of total need

Analysis Processes Will Improve Over Time

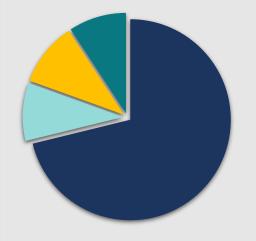
"We are building the bus as we drive it"



Future Potential Opportunities for Improvement

- Social Equity
- Geographic Sensitivity
- Social Cost of Carbon
- Requires Stability in Funding Categories and Outcomes

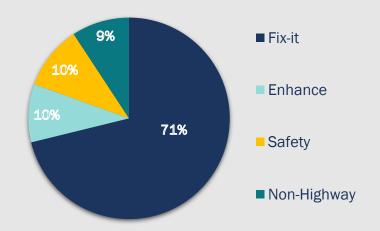
RESULTS – Individual Scenario Analysis







Adjusted Baseline



Baseline

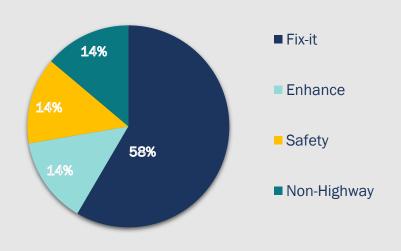
Funding splits unchanged

Outcome Areas		@	System Impacts and Implications
C 02	Climate – GHG Mitigation	D -	Most trips drive alone & in low MPG cars
	Climate - Adaptation/ Resilience	C -	Slow progress with preservation projects
	Congestion Relief	В-	Select bottleneck projects in development
	Social Equity	C -	Few low cost travel options
(#) ell	Multimodal Mobility	D	Connectivity gaps
	Safety	В	Focus on fatalities and serious injuries
The state of the s	State of Good Repair	С	Several assets and areas deteriorating

^{*}Note, grades reflect progress toward meeting identified needs, and are not the same as level of service

S1 - Enhance

Changes from Baseline

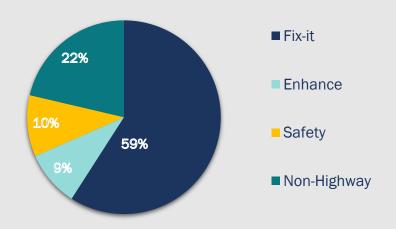




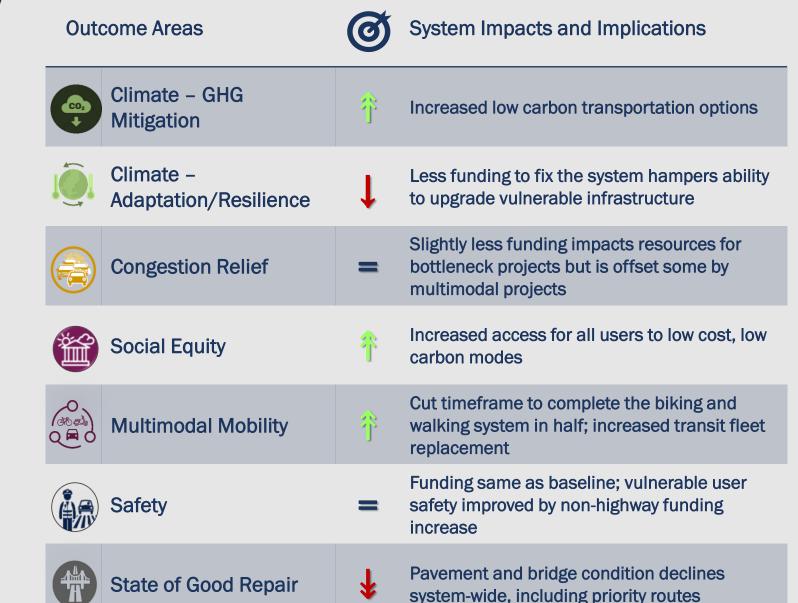


S2 - Non-highway

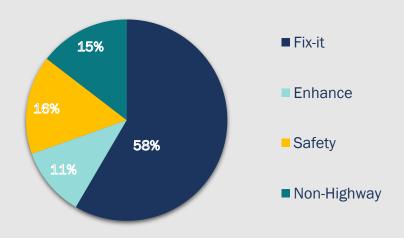
Changes from Baseline







S3 – Safety/ Non-highway Changes from Baseline

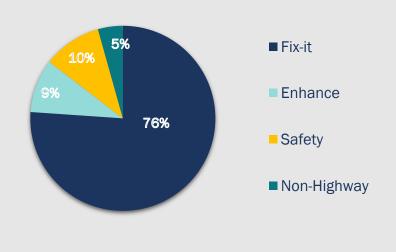






S4 - Fix-it

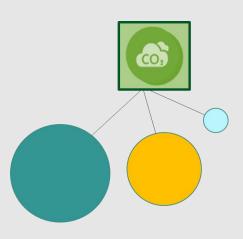
Changes from Baseline

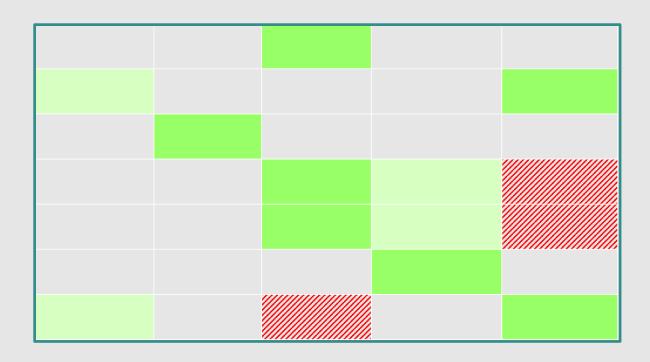






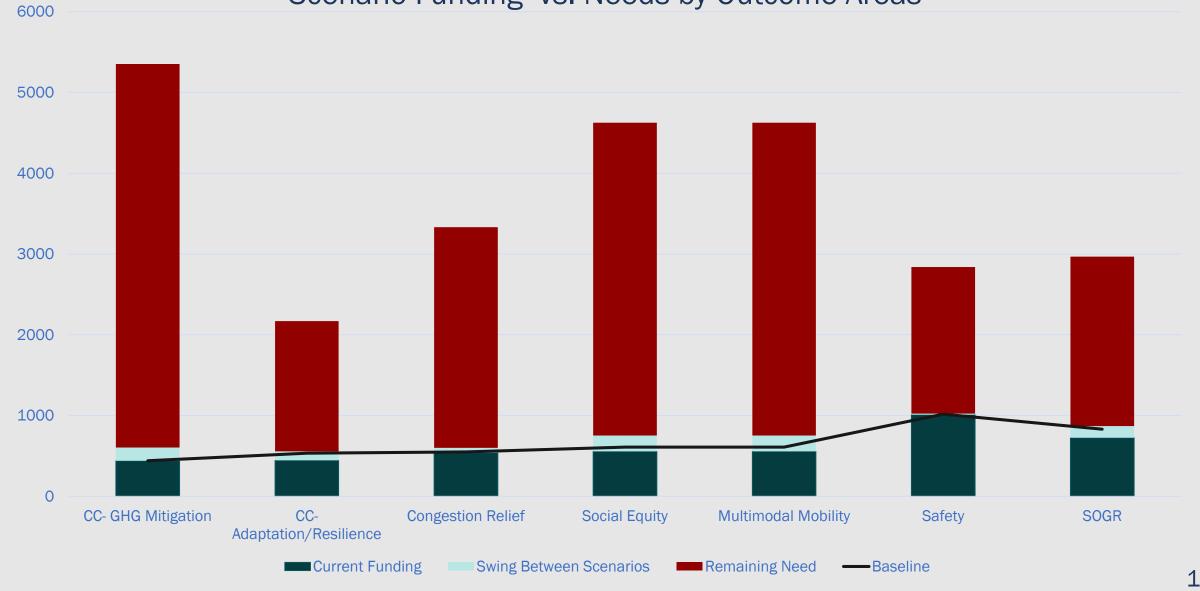
RESULTS – Summary



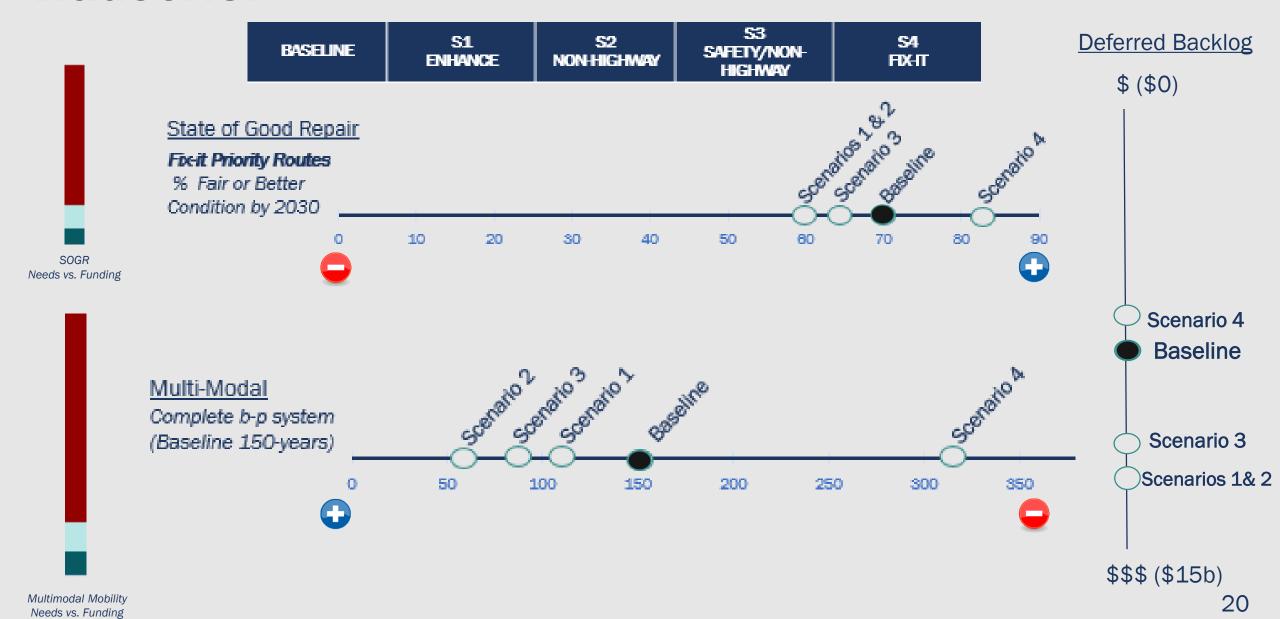


2024-2027 STIP Scenarios Impact Range

Scenario Funding vs. Needs by Outcome Areas



Tradeoffs: Indicators across Scenarios



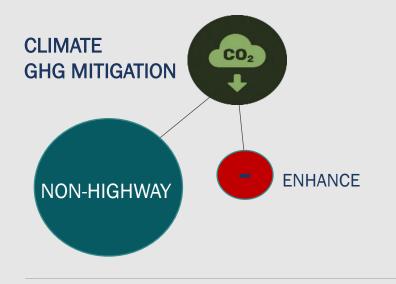
Tradeoffs

Changes from Baseline

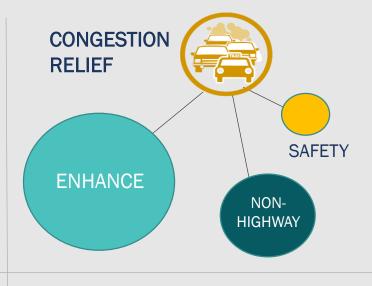
SCENARIOS	S1 ENHANCE	S2 NON-HIGHWAY	S3 SAFETY/ NON-HIGHWAY	S4 FIX-IT
CLIMATE - GHG MITIGATION				
CLIMATE - ADAPTATION/RESILIENCE				
CONGESTION RELIEF				
SOCIAL EQUITY				
MULTIMODAL MOBILITY				
SAFETY				
STATE OF GOOD REPAIR				

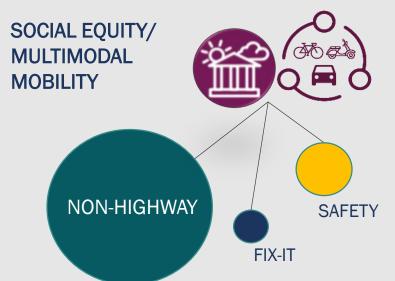
Investments to Influence Outcomes

Investment categories scaled to their support of outcomes

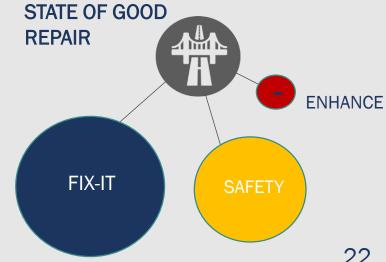










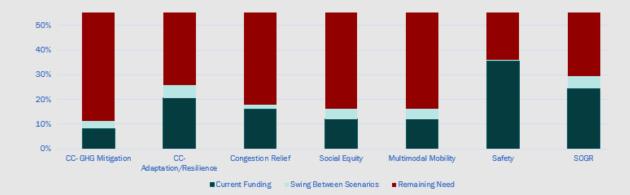


Summary Takeaways

Needs far outweigh available funds

There are a number of historically underfunded outcome areas, top among them include:

- Climate Change GHG Mitigation
- Multimodal Mobility and Social Equity

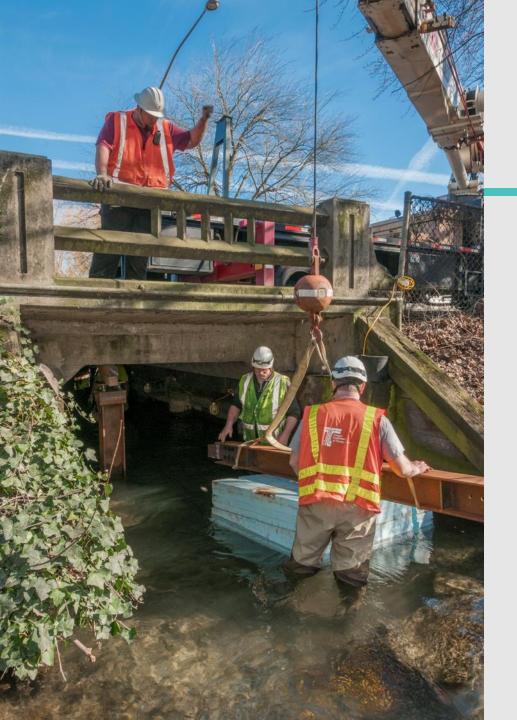


- There are key relationships between funding categories and outcomes
 - Non-highway most benefits GHG Mitigation, Multimodal Mobility, and Social Equity
 - Fix-it most benefits State of Good Repair and Adaptation/Resilience
 - Specific to Climate Change GHG Mitigation
 - Scenario 2 has the greatest potential positive impact
 - Scenario 4 has negative impacts for GHG Mitigation (but most positive for Adaptation/Resilience)

Summary of Scenarios

Performance Relative to One Another

SCENARIOS	BASELINE	S1 ENHANCE	S2 NON-HIGHWAY	S3 SAFETY/ NON-HIGHWAY	S4 FIX-IT
CLIMATE - GHG MITIGATION			++	+	
CLIMATE - ADAPTATION/RESILIENCE	+	-		-	++
CONGESTION RELIEF		++		+	=
SOCIAL EQUITY			++	+	
MULTIMODAL MOBILITY			++	+	
SAFETY	=	++	+		
STATE OF GOOD REPAIR	+	-		-	++



Direction Requested

- How to weigh the tradeoffs between goals
- General thoughts on scenarios
- Further information requested on scenarios
- Further modifications and refinements to scenarios

