



Arizona State Freight Plan

Freight Advisory Committee Meeting #2

December 7, 2021



Interactive Polling – PollEverywhere

Join by Web

- 1) Go to PollEV.com
- 2) Enter streets315
- 3) Respond to each activity

Join by Text Message

- 1) Text streets315 to 22333
- 2) Respond to each activity using texts

Please tell us what type of organization you represent...

Academia

Airport

Arizona DOT

FHWA

Government/MPO/RTPO

Logistics

Manufacturer

Partner State

Private Consultant

Railroad

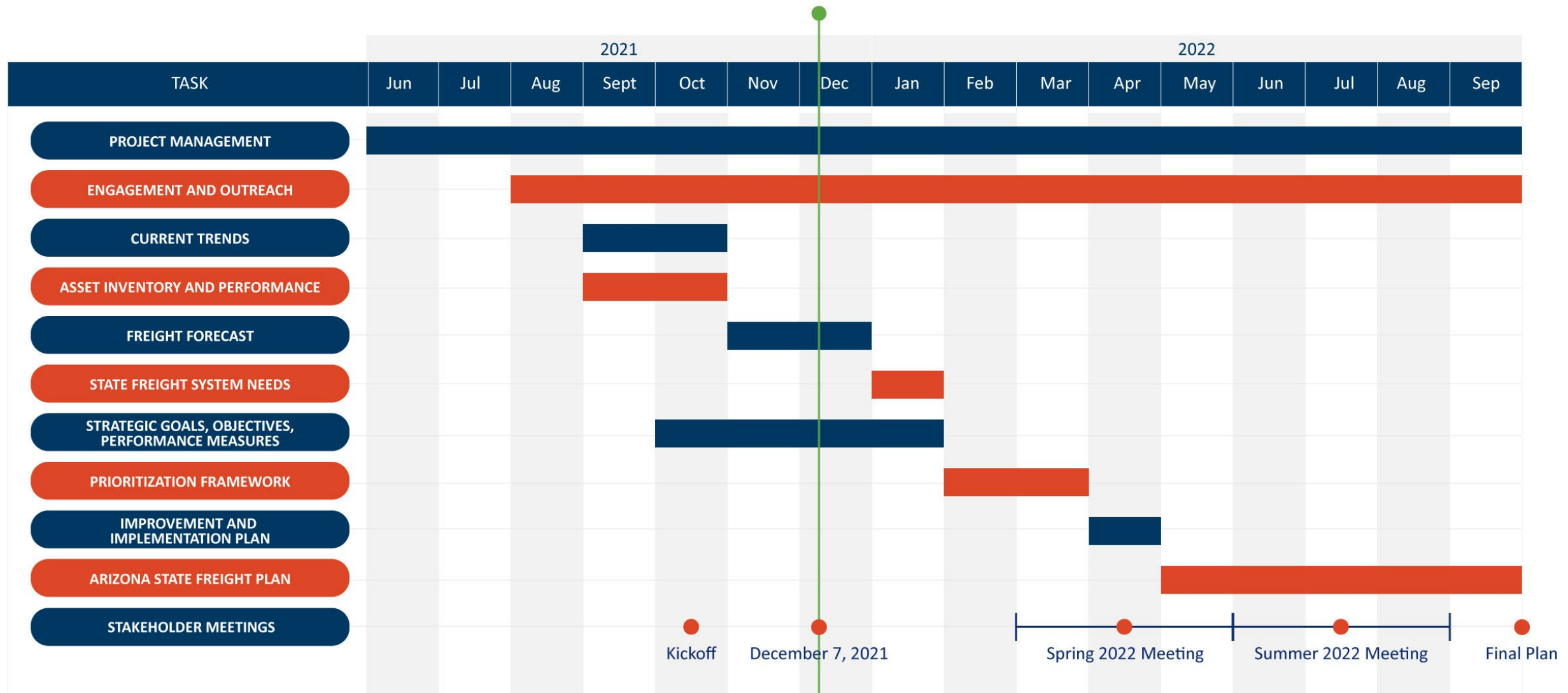
Trade Association

Trucking Carrier

Agenda

- Primary Highway Freight System Redesignation
- Freight Forecast Update
- Draft Vision and Goals
- Next Steps

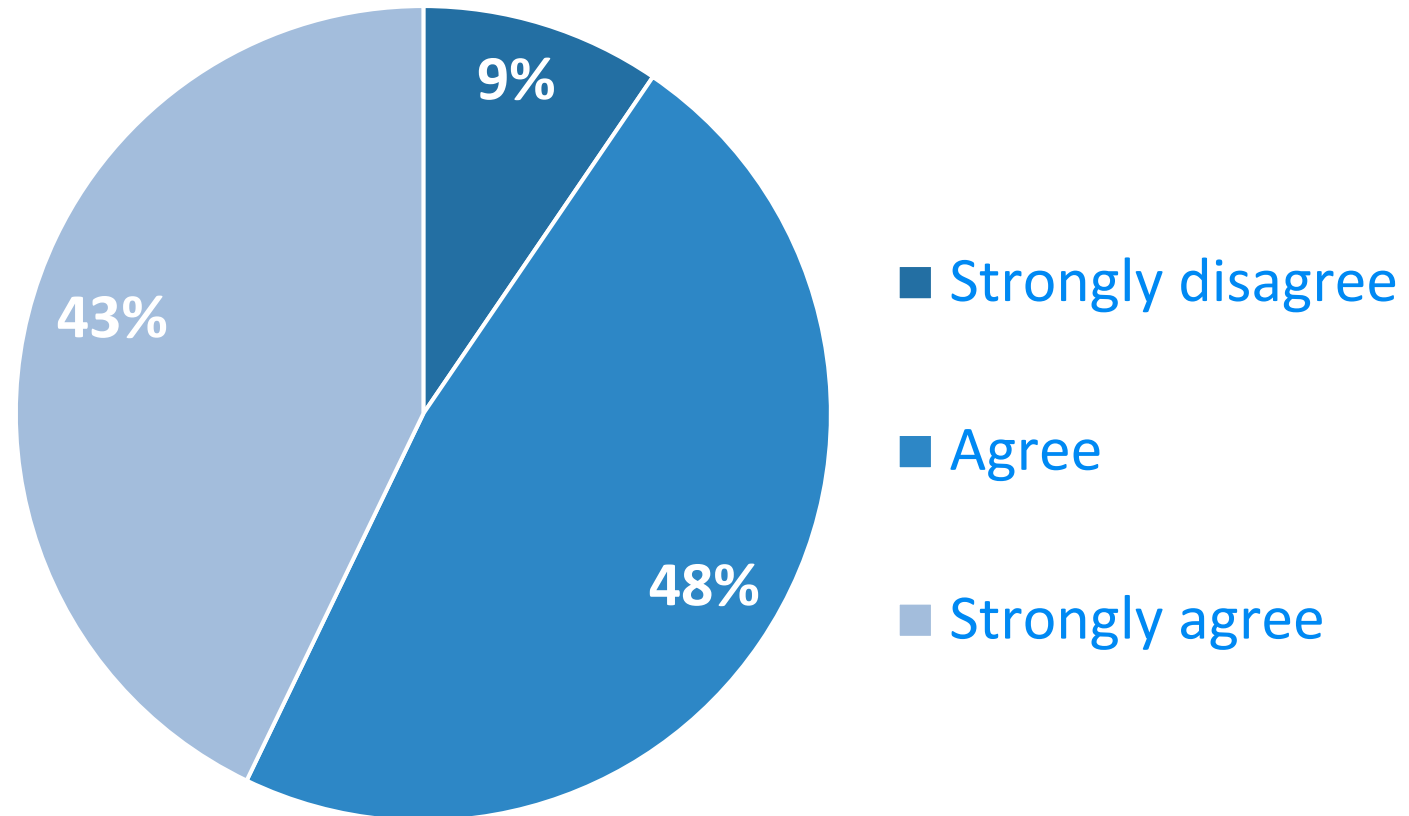
Arizona State Freight Plan PROJECT SCHEDULE





Primary Highway Freight System (PHFS) Redesignation

Summary Survey Results





Freight Forecast

Upcoming Poll Question:



Does any of this information surprise you? If so, what?

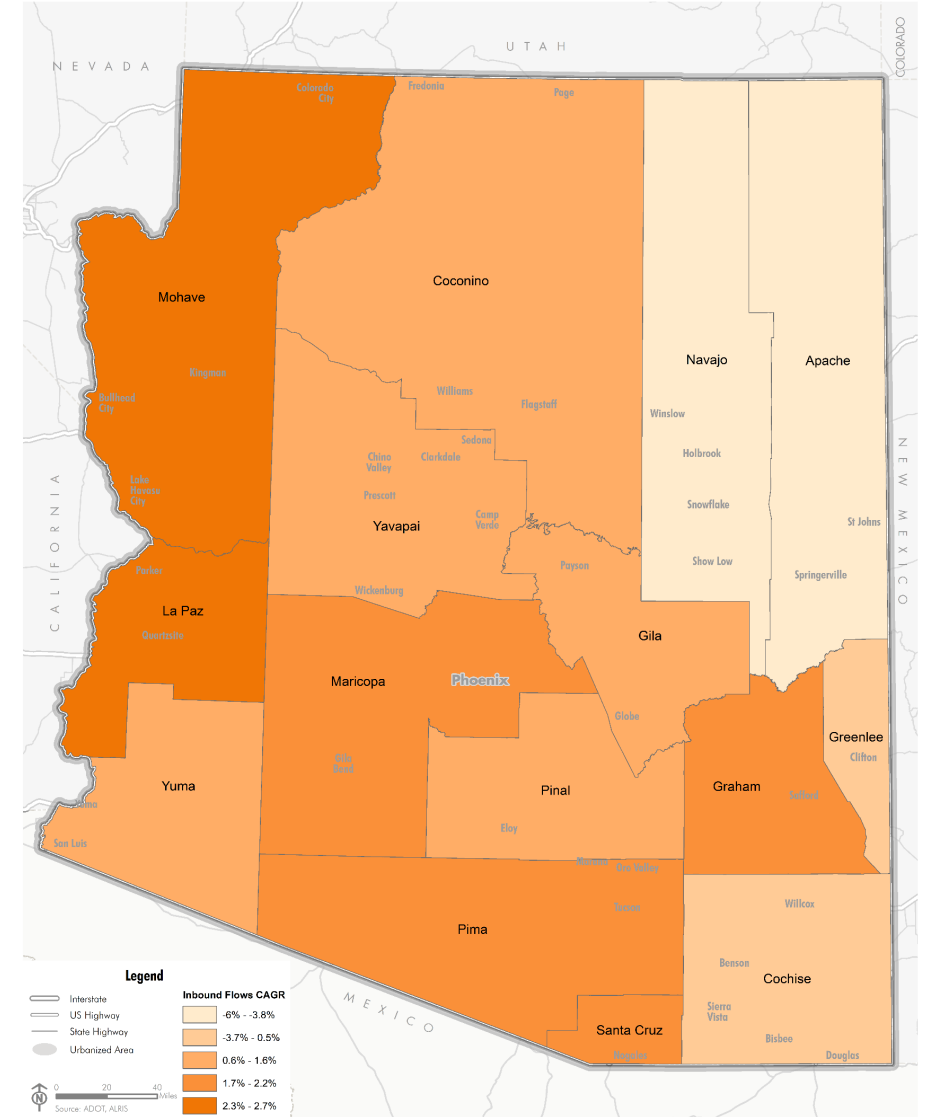
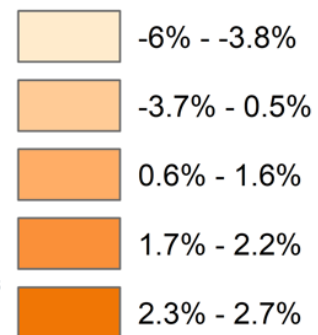
Arizona Total Truck, Air, and Rail – 2019 and 2045

	2019 Tons (000's)	2045 Tons (000's)	2019 Share of Total Tons	CAGR** 2019-2045	2019 Value (Million \$)	2045 Value (Million \$)	2019 Share of Total Value	CAGR** 2019-2045
Truck	284,942	444,216	54.0%	1.7%	395,239	715,923	30.2%	2.3%
Rail	242,761	405,072	46.0%	2.0%	854,422	1,588,994	65.4%	2.4%
Air	364	875	0.1%	3.4%	57,784	125,810	4.4%	3.0%
Total	528,067	850,163		1.8%	1,307,445	2,430,727		2.4%

**Compound Annual Growth Rate – mean annual growth rate from 2019 to 2045

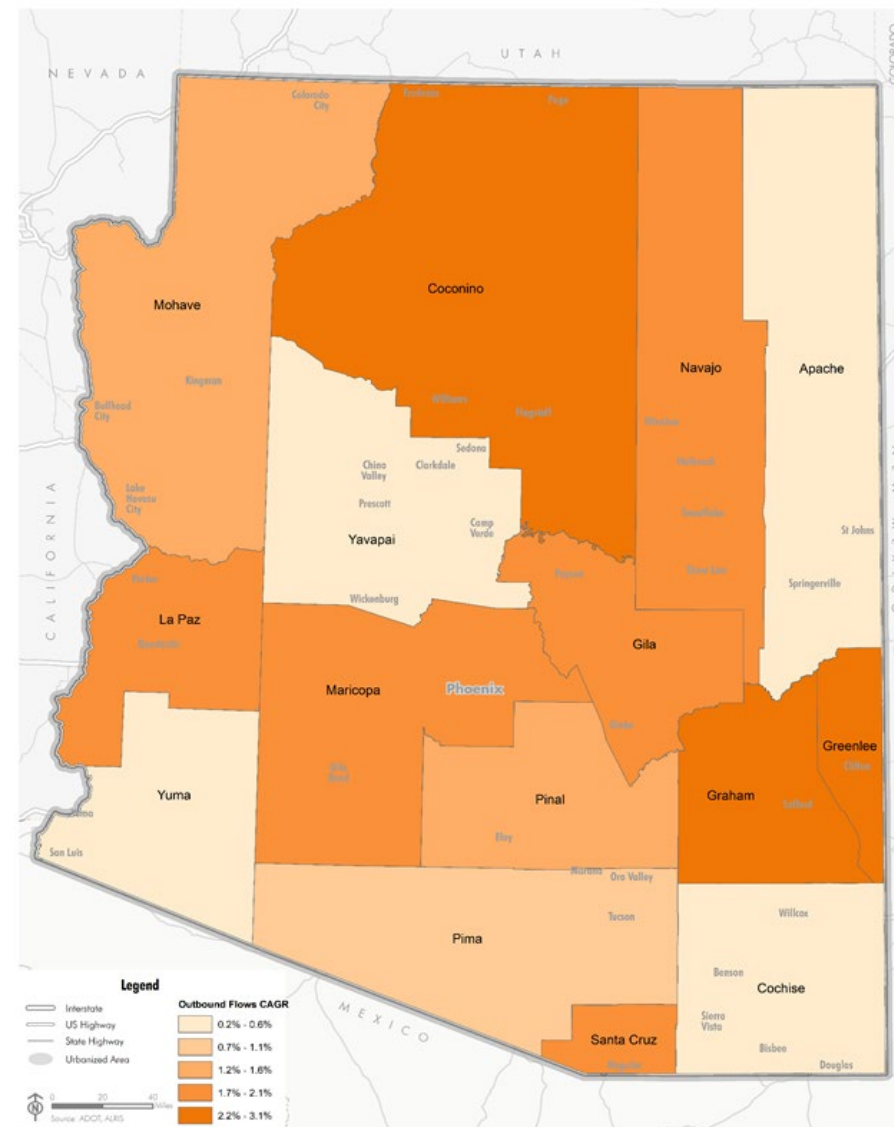
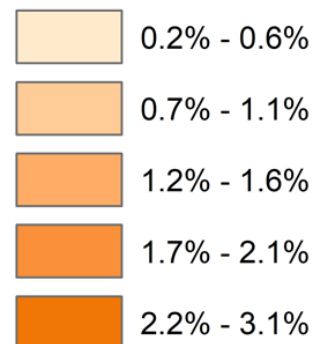
Inbound Freight Compound Annual Growth Rate 2019-2045

Inbound Flows CAGR

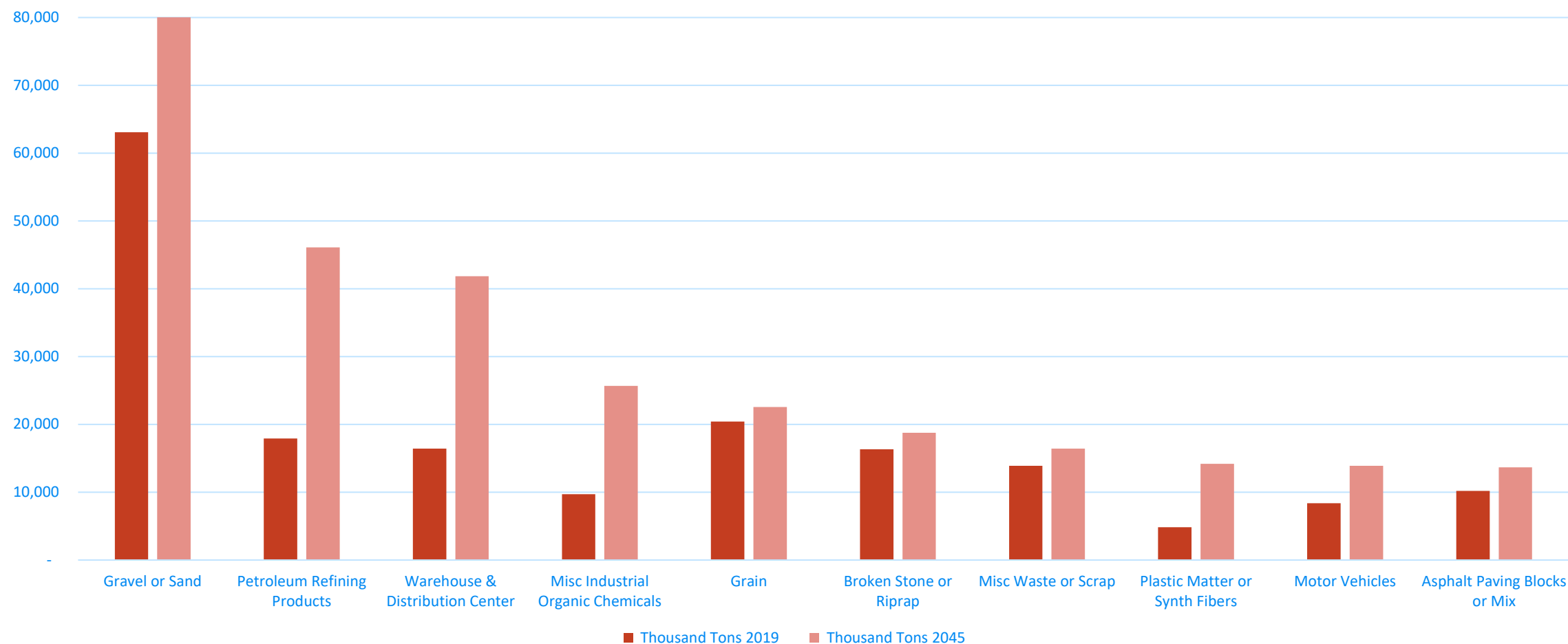


Outbound Freight Compound Annual Growth Rate 2019-2045

Outbound Flows CAGR

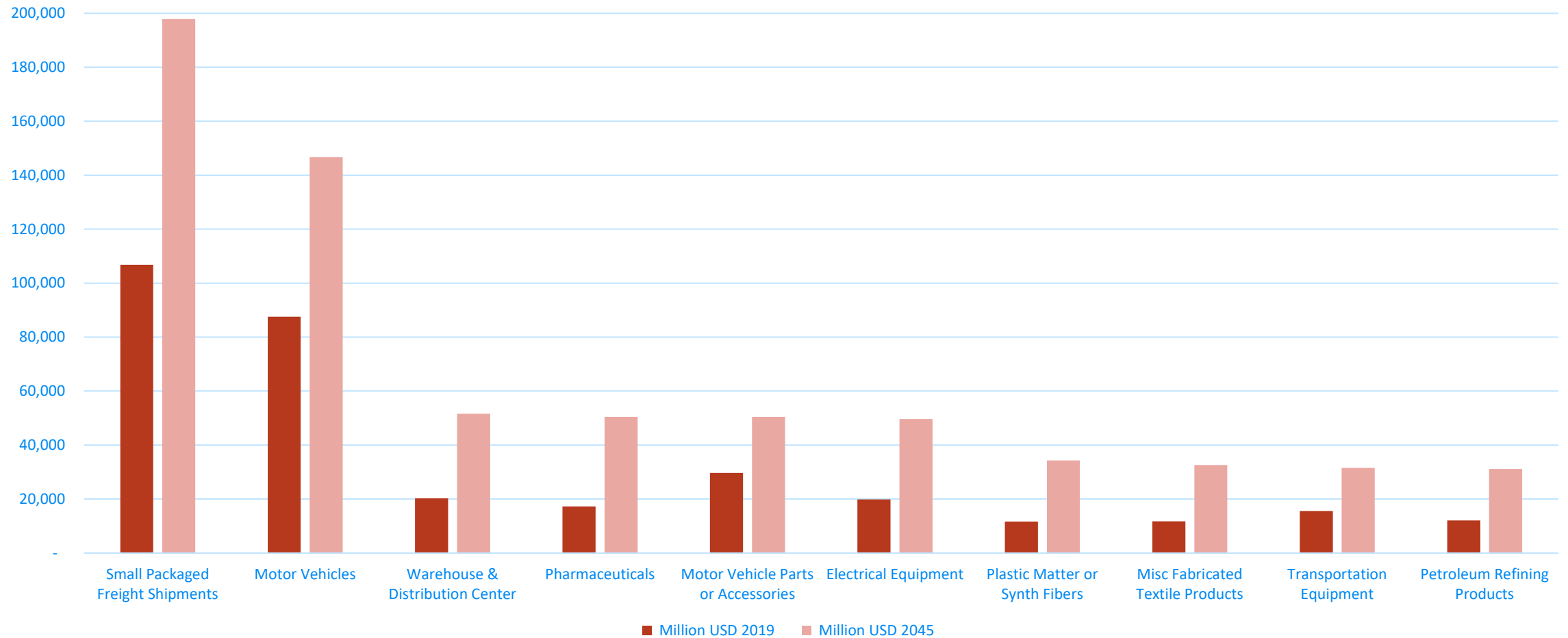


Top 10 Commodities by Weight*



*Excluding Freight of All Kinds

Top 10 Commodities by Value*



*Excluding Freight of All Kinds

Does any of this information surprise you? If so, what?



Arizona Freight Plan Update Draft Vision and Goals



National Context

National Freight Policy Strategic Goals

- **SAFETY:** Improve the safety, security, and resiliency of the national freight system.
- **INFRASTRUCTURE:** Modernize freight infrastructure and operations to grow the economy, increase competitiveness, and improve quality of life.
- **INNOVATION:** Prepare for the future by supporting the development of data, technologies, and workforce capabilities that improve freight system performance.

Additions to National Freight Plan (IIJA/BID)

- (12)best practices for **reducing environmental impacts** of freight movement (including reducing local air pollution from freight movement, stormwater runoff, and wildlife habitat loss resulting from freight facilities, freight vehicles, or freight activity);
- (13)possible strategies to **increase the resilience of the freight system**, including the ability to anticipate, prepare for, or adapt to conditions, or withstand, respond to, or recover rapidly from disruptions, including extreme weather and natural disasters;
- (14)strategies to promote United States **economic growth and international competitiveness**;
- (15)consideration of any potential unique **impacts of the national freight system on rural and other underserved and historically disadvantaged communities**;
- (16)strategies for **decarbonizing freight movement, as appropriate**; and
- (17)consideration of the impacts of **e-commerce** on the national multimodal freight system.

National Performance Goals

- **SAFETY:** To achieve a significant reduction in traffic fatalities and serious injuries on all public roads.
- **INFRASTRUCTURE CONDITION:** To maintain the highway infrastructure asset system in a state of good repair
- **CONGESTION REDUCTION:** To achieve a significant reduction in congestion on the National Highway System
- **SYSTEM RELIABILITY:** To improve the efficiency of the surface transportation system
- **FREIGHT MOVEMENT AND ECONOMIC VITALITY:** To improve the national freight network, strengthen the ability of rural communities to access national and international trade markets, and support regional economic development.
- **ENVIRONMENTAL SUSTAINABILITY:** To enhance the performance of the transportation system while protecting and enhancing the natural environment.
- **REDUCED PROJECT DELIVERY DELAYS:** To reduce project costs, promote jobs and the economy, and expedite the movement of people and goods by accelerating project completion through eliminating delays in the project development and delivery process, including reducing regulatory burdens and improving agencies' work practices.



Vision

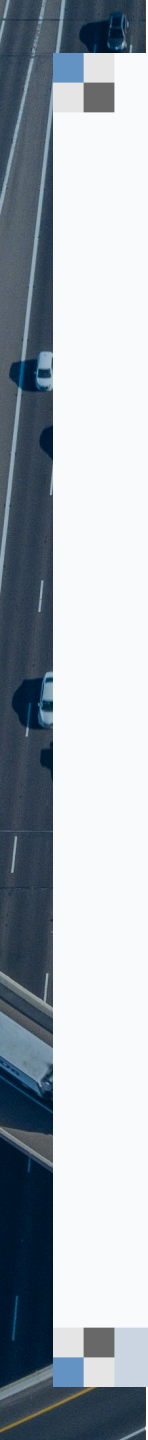
2017 Arizona Freight Plan Vision

Arizona's freight transportation system enhances economic competitiveness and quality growth through effective system performance and management

Draft Updated Vision: Arizona's freight transportation system enhances economic competitiveness and quality growth through **innovation** and effective system management



Looking Forward: Priorities



**What are the highest priority topics that you feel ADOT
should address to improve freight in Arizona?**



Draft Freight Plan Goals

Additions to Freight Plan Requirements (IIJA/BID)

PLAN CONTENTS.—A State freight plan described in subsection (a) shall include, at a minimum...

- (16) **Strategies and goals** to decrease—
 - (A) the severity of impacts of **extreme weather and natural disasters** on freight mobility;
 - (B) the impacts of freight movement on local **air pollution**;
 - (C) the impacts of freight movement on **flooding and stormwater runoff**; and
 - (D) the impacts of freight movement on **wildlife habitat loss**;
- Each State freight plan under this section shall include a requirement that the State, in carrying out activities under the State freight plan—
 - (1) enhance **reliability or redundancy** of freight transportation; or
 - (2) incorporate the ability to **rapidly restore access and reliability** with respect to freight transportation.

Goals

- **GOALS** are broad, over-arching statements that describe desired outcomes.
 - Goals answer the question “*What are we trying to achieve?*”
 - Goals should be directional but not focused on the “how”

Draft Arizona Freight Goals

- **SAFETY:** A safe and secure freight transportation system
- **SYSTEM MANAGEMENT & MOBILITY:** A reliable, resilient transportation system that enables efficient freight movement, and provides access to economic opportunity across Arizona
- **COMPETITIVENESS:** Strategic policies, investments, partnerships, and infrastructure that position Arizona to benefit from emerging opportunities and enhance its economic competitiveness in key sectors



Draft Arizona Freight Goals

- **SAFETY:** A safe and secure freight transportation system

SAFETY: How well does this goal represent your priorities for Arizona's freight system?

Very Well

Mostly

Somewhat

Not At All



Draft Arizona Freight Goals

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SYSTEM MANAGEMENT & MOBILITY: How well does this goal represent your priorities for Arizona's freight system?

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Draft Arizona Freight Goals

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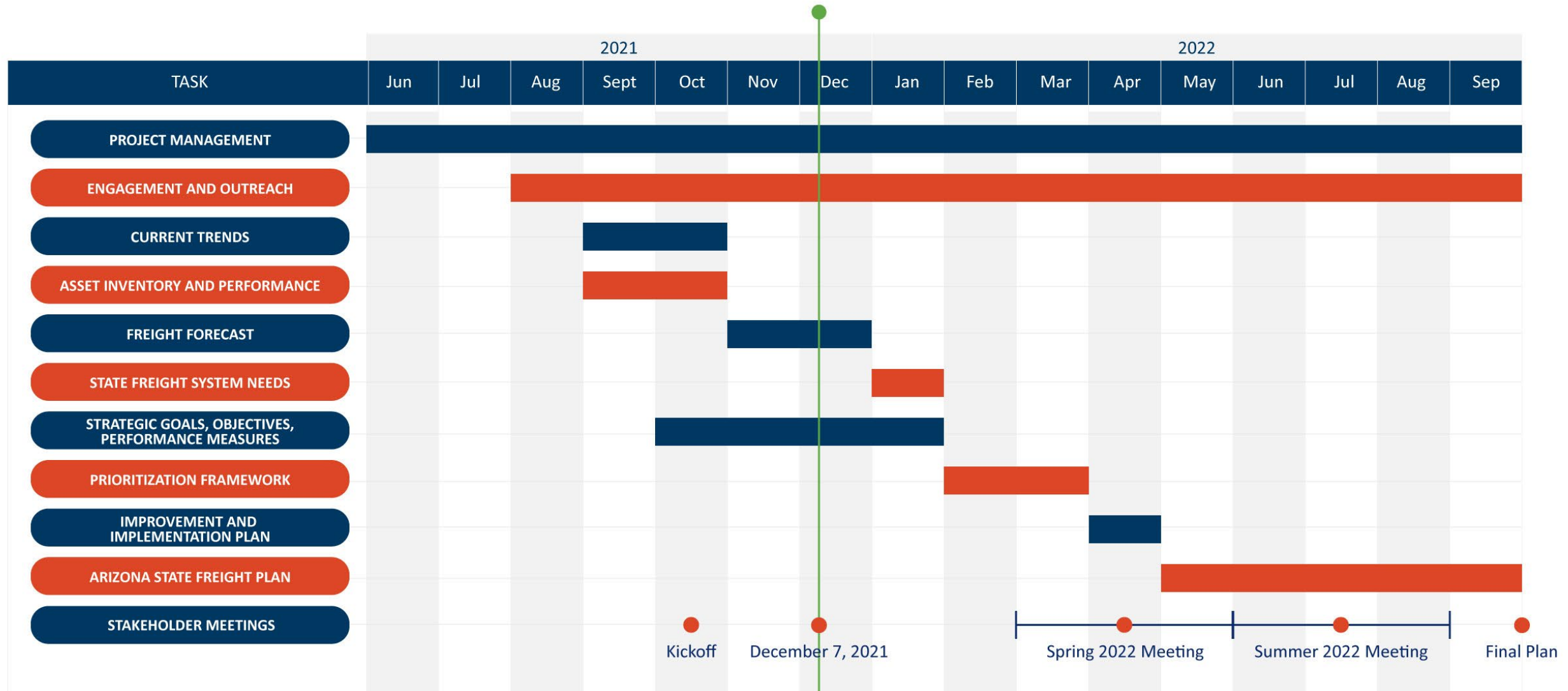
What topics or priorities are missing from the draft goals?

What topics don't belong in the draft goals?



Next Steps

Arizona State Freight Plan PROJECT SCHEDULE





Questions?



Thank you for your time!

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