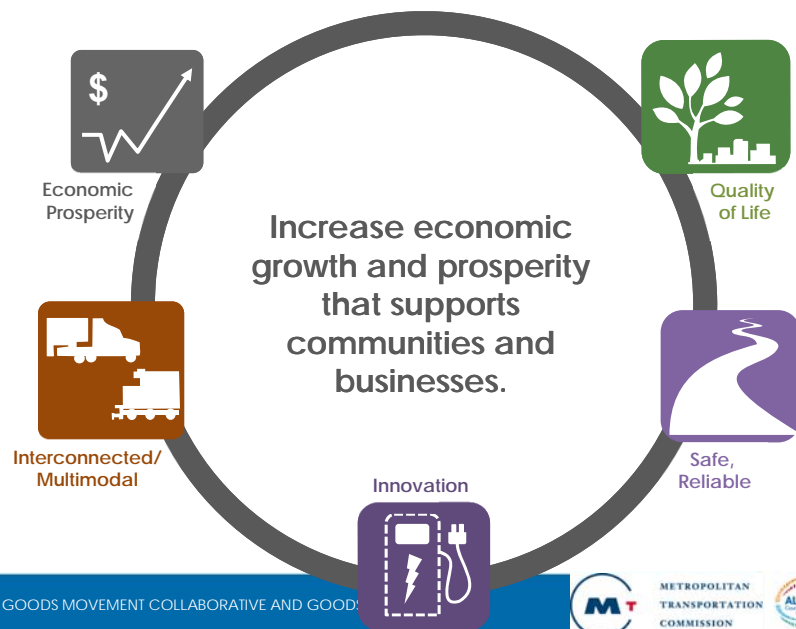


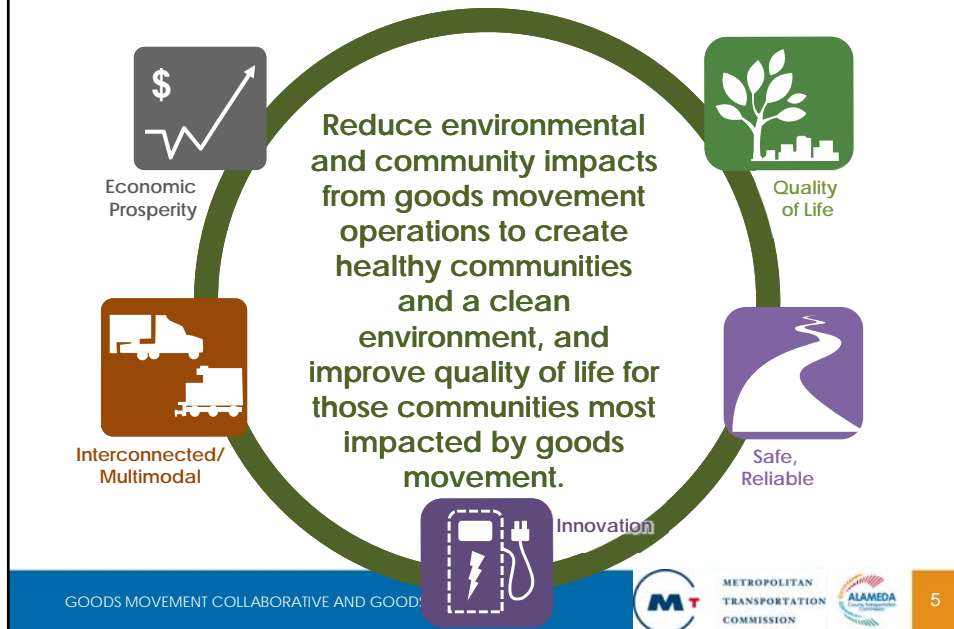
Performance Measures in Goods Movement Plan

- Linked to goals and identified issues
- Assessment of system needs and opportunities, and evaluation of strategies
 - *Based on quantitative and qualitative performance measures and stakeholder input*
- Monitor ongoing performance

Goods Movement Vision and Goals



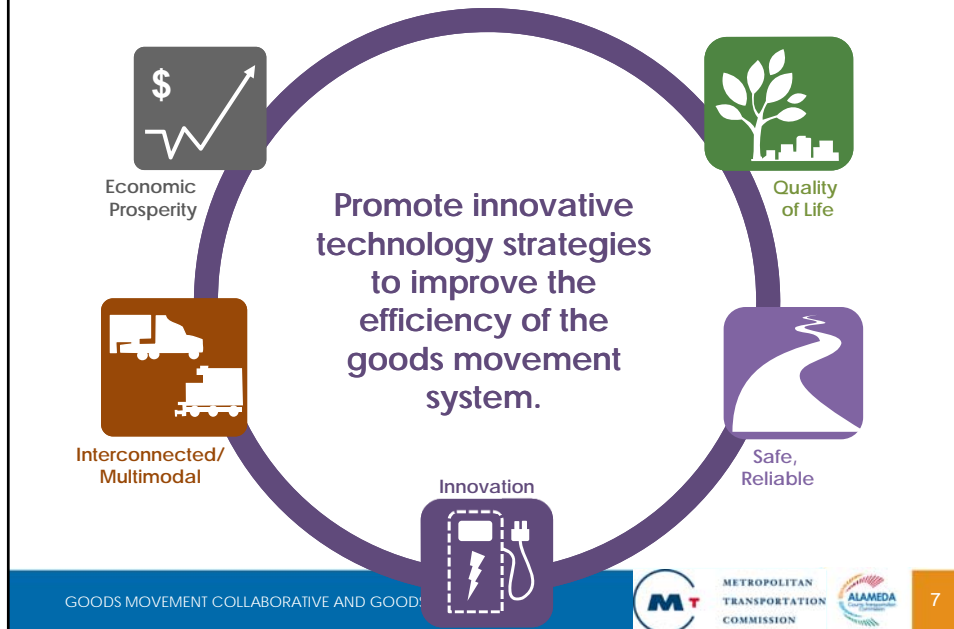
Goods Movement Vision and Goals



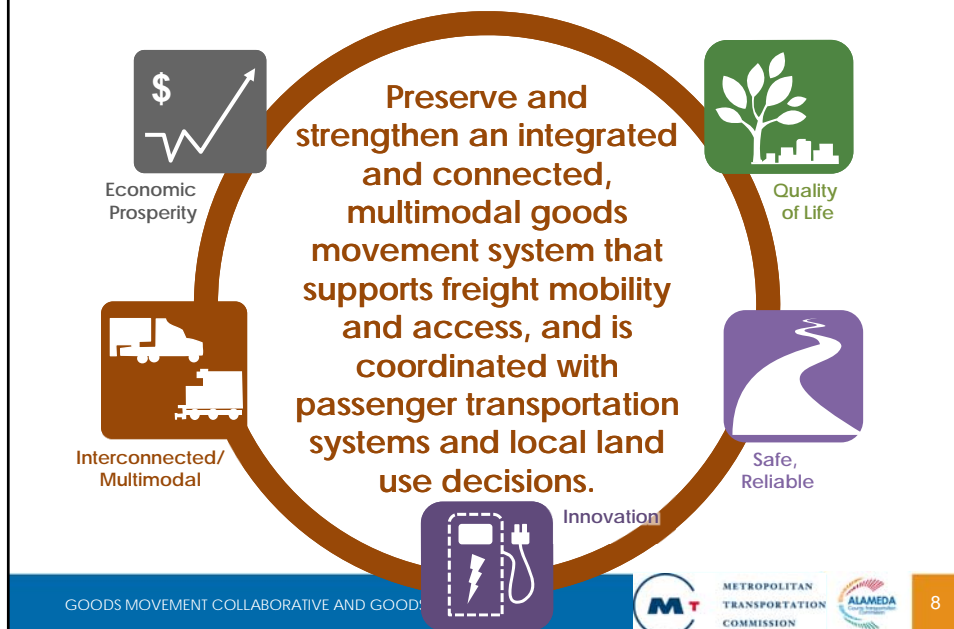
Goods Movement Vision and Goals



Goods Movement Vision and Goals



Goods Movement Vision and Goals



Recommended Performance Measures

Economic Prosperity - Increase economic growth and prosperity that supports communities and businesses.

Measures	Metrics
Economic Contribution	Jobs and output generated

Quality of Life - Reduce environmental and community impacts from goods movement operations to create healthy communities and a clean environment, and improve quality of life for those communities most impacted by goods movement.

Measures	Metrics
Emissions/Air Quality/Public Health	Tons of GHG emissions
	Tons of PM emissions
Equity	Freight Impacts, such as light, noise pollution, safety, air pollution and encroachment on adjacent communities

Recommended Performance Measures

Safe, Reliable - Provide safe, reliable, efficient and well-maintained goods movement facilities.


Measures	Metrics
Travel Time Reliability	Buffer time index on key freight (truck) routes
Freight-Related Crashes	Truck-involved crashes and crash rates
	Crashes at at-grade rail crossings
Freight Infrastructure Conditions	Bridge conditions ratings
	Key freight (truck) highway and arterial routes pavement conditions ratings
Freight Resiliency	Addresses freight system vulnerability to major service disruptions due to major natural or other events

Recommended Performance Measures

Innovation - Promote innovative technology strategies to improve the efficiency of the goods movement system.

Measures	Metrics
Use of Innovative Technologies	Use of ITS and innovative technologies

GOODS MOVEMENT COLLABORATIVE AND GOODS MOVEMENT PLAN



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Recommended Performance Measures

Interconnected/Multimodal - Preserve and strengthen an integrated and connected, multimodal goods movement system that supports freight mobility and access, and is coordinated with passenger transportation systems and local land use decisions.

Measures	Metrics
Travel Time Delay	Travel time delay on key freight (truck) routes
	Travel time delay on railways, terminals, ports, airports
Multimodal Connectivity and Redundancy	Freight generator access to freight routes
	Freight generator access to rail lines, terminals, ports, and airports
Coordinate with Passenger Systems	Freight system element shares use with passenger system and addresses passenger/freight conflicts
Compatibility with Land Use Decisions	Freight generator proximity to non-compatible land uses

Key feedback on Performance Measures from Tech Team Meeting

- **Emissions/Air Quality/Public Health**
 - *Add PM2.5 and NOx as measures*
 - *Identify specific communities and their geographic extent, and get additional specific indicators of public health (such as asthma rates)*
- **Freight-Related Crashes**
 - *Also look at bike/pedestrian crashes with trucks*
- **Economic contribution**
 - *Look at co-benefits to communities*
- **Technologies**
 - *clarification by what that means (such as zero emissions)*
- **Compatibilities with Land Use Decisions**
 - *Also look at future land use patterns*
 - *Add freight corridors to freight generators, and broaden definition of freight generators*