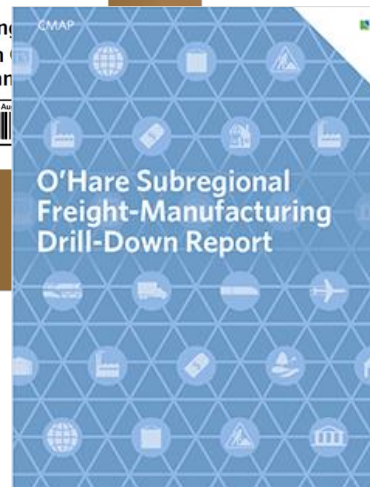
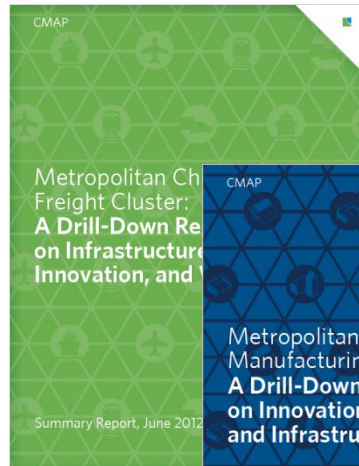




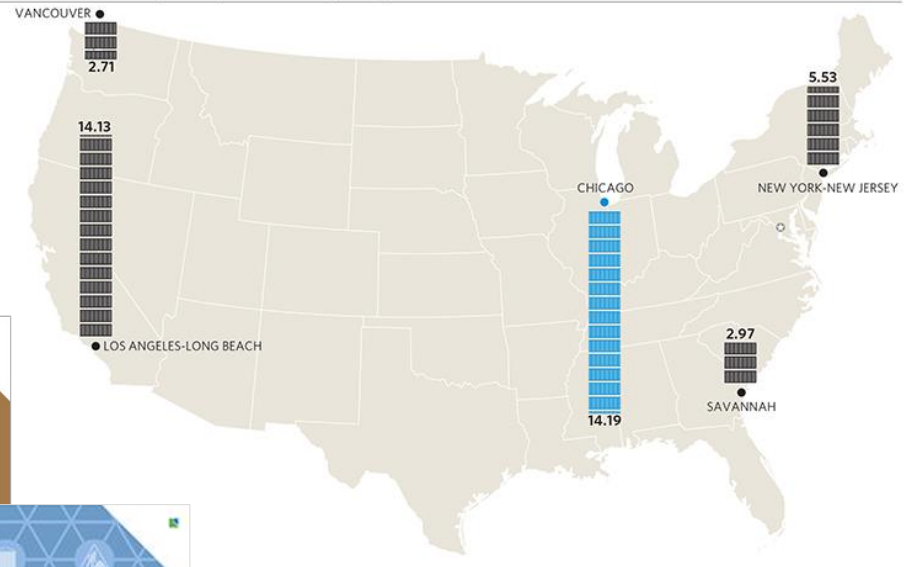
# CMAP GO TO 2040

Regional Supply Chains Report  
Presentation to CMAP's Freight Committee  
September 24, 2015

# Freight and economic development



Busiest North American ports by TEUs moved, 2012, in millions



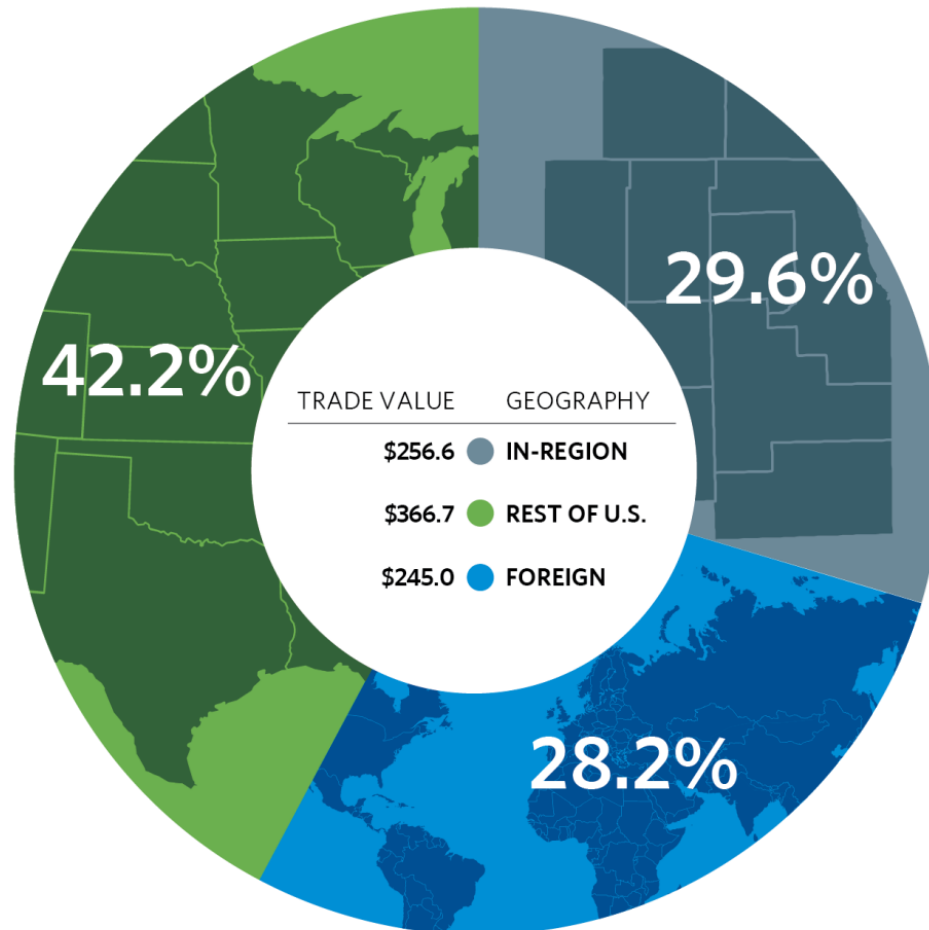
# Report on the region's supply chains



- Top trading partners
- What commodities are traded
- Manufacturing and mode choice
- Trends in modern supply chains and logistics

# Geography of trade

Chicago region total trade value by geography, 2012, in billions of dollars

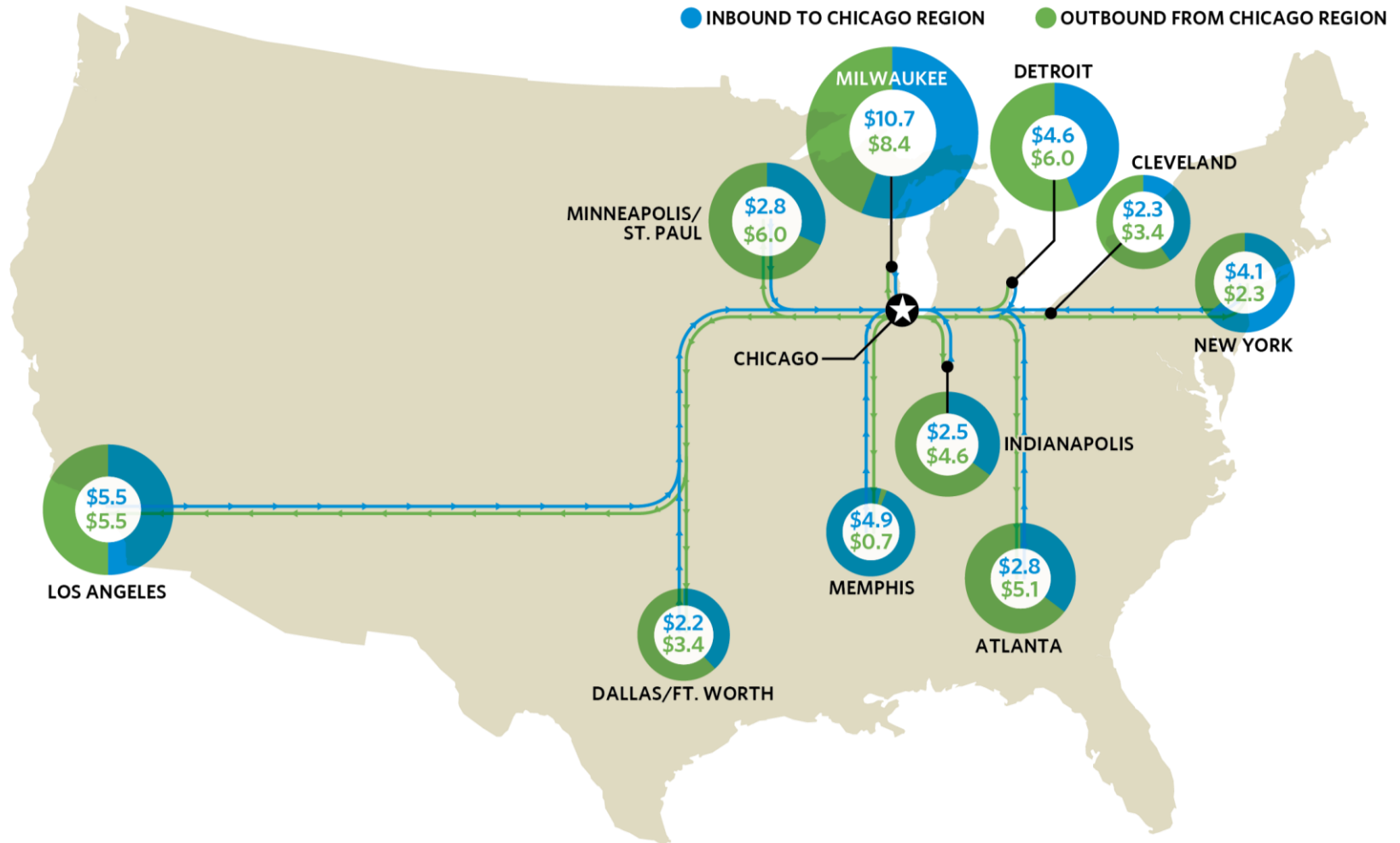


Note: Freight modes include: air, truck, rail, and water.

Source: Chicago Metropolitan Agency for Planning analysis of Freight Analysis Framework data.

# Major trading partners

Top domestic trading partners by total value, 2012, in billions of dollars

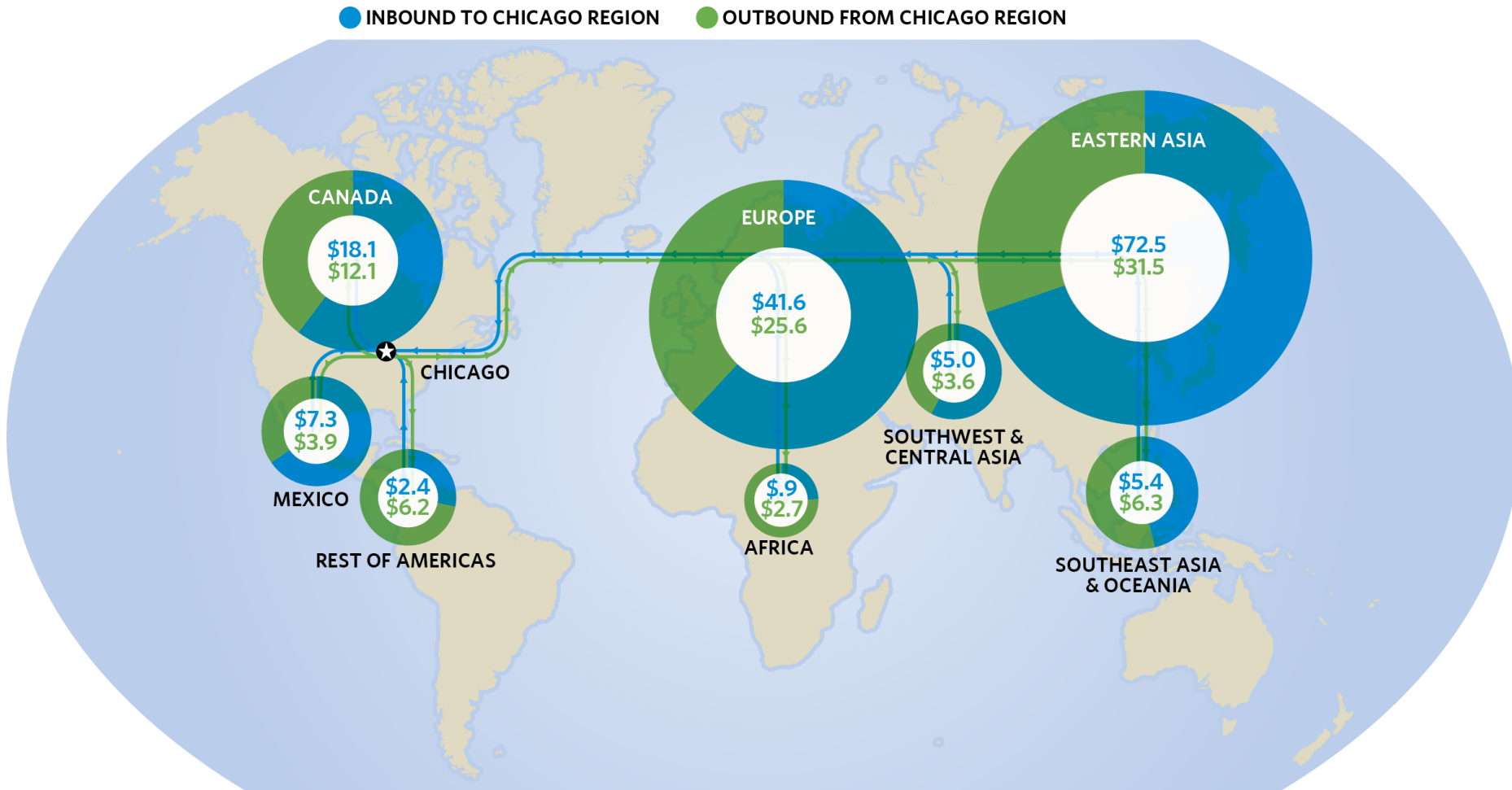


Note: Analysis includes only urban Freight Analysis Framework zones. Freight modes include: air, truck, rail, and water.

Source: Chicago Metropolitan Agency for Planning analysis of Freight Analysis Framework data.

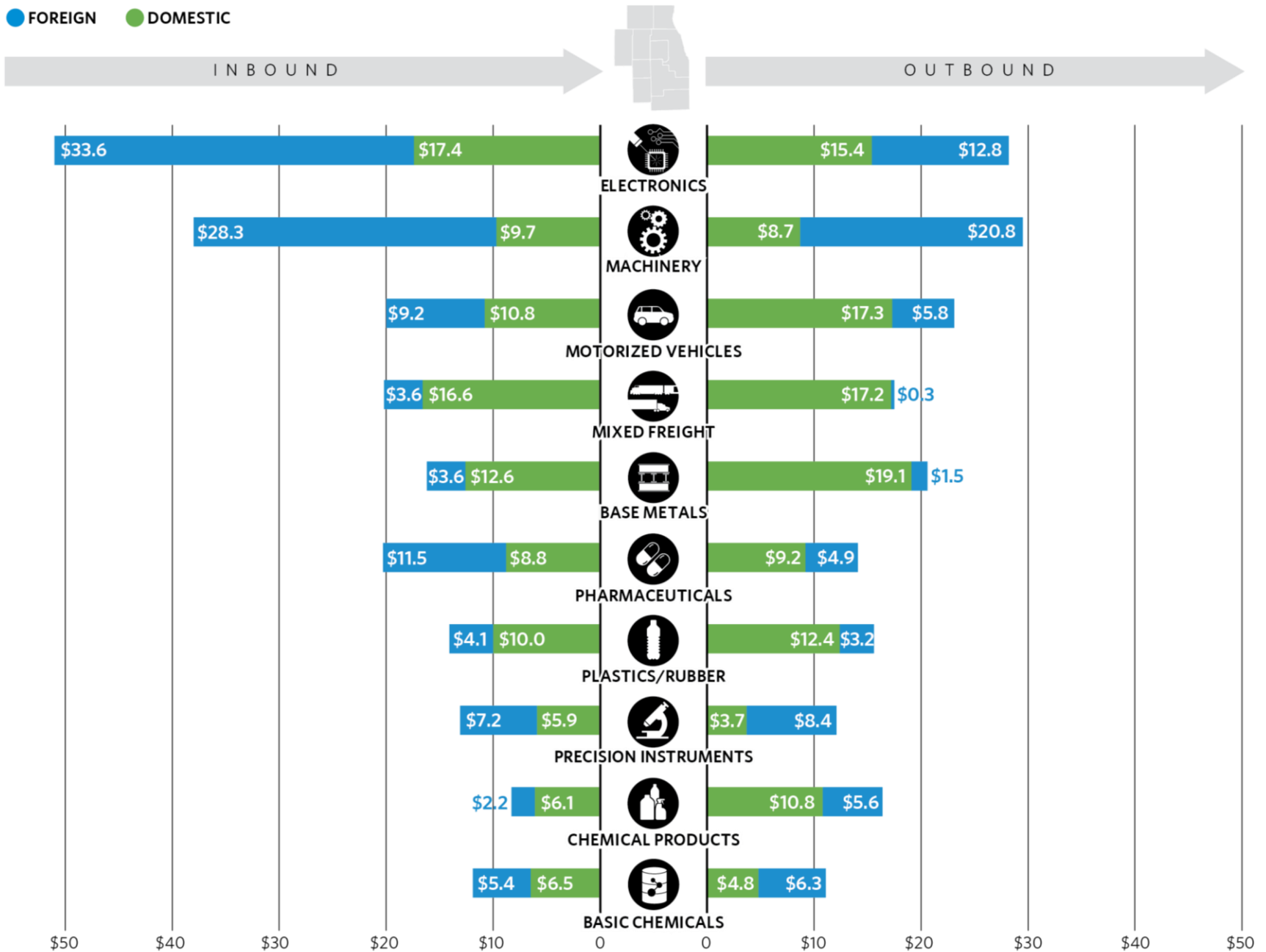
# Foreign trading partners

Foreign trading partners total trade value, 2012, in billions of dollars



Chicago region top commodities traded by value, 2012, in billions of dollars

● FOREIGN ● DOMESTIC

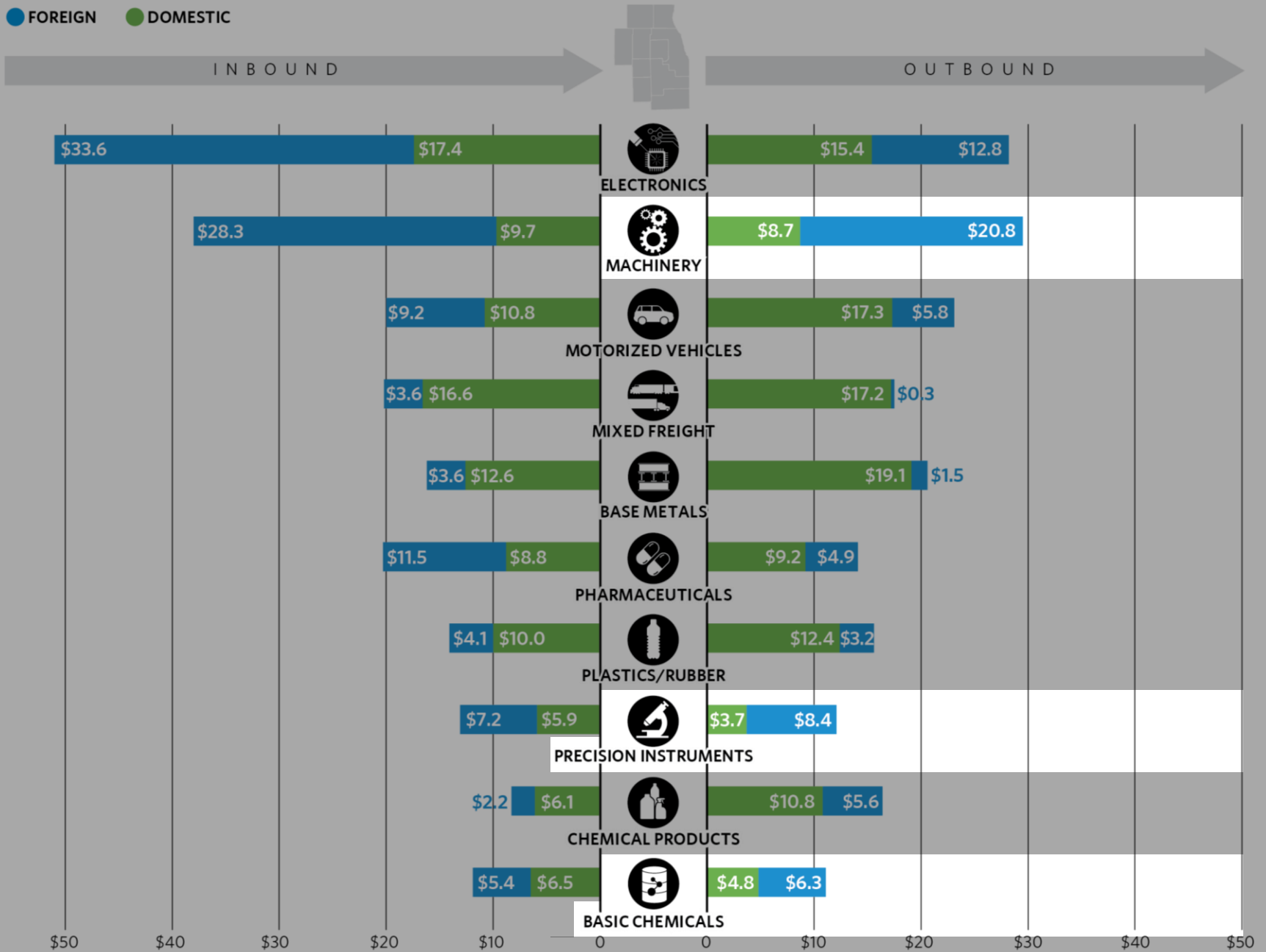


Note: Freight modes include: air, truck, rail, and water.

Source: Chicago Metropolitan Agency for Planning analysis of Freight Analysis Framework data.

Chicago region top commodities traded by value, 2012, in billions of dollars

● FOREIGN ● DOMESTIC



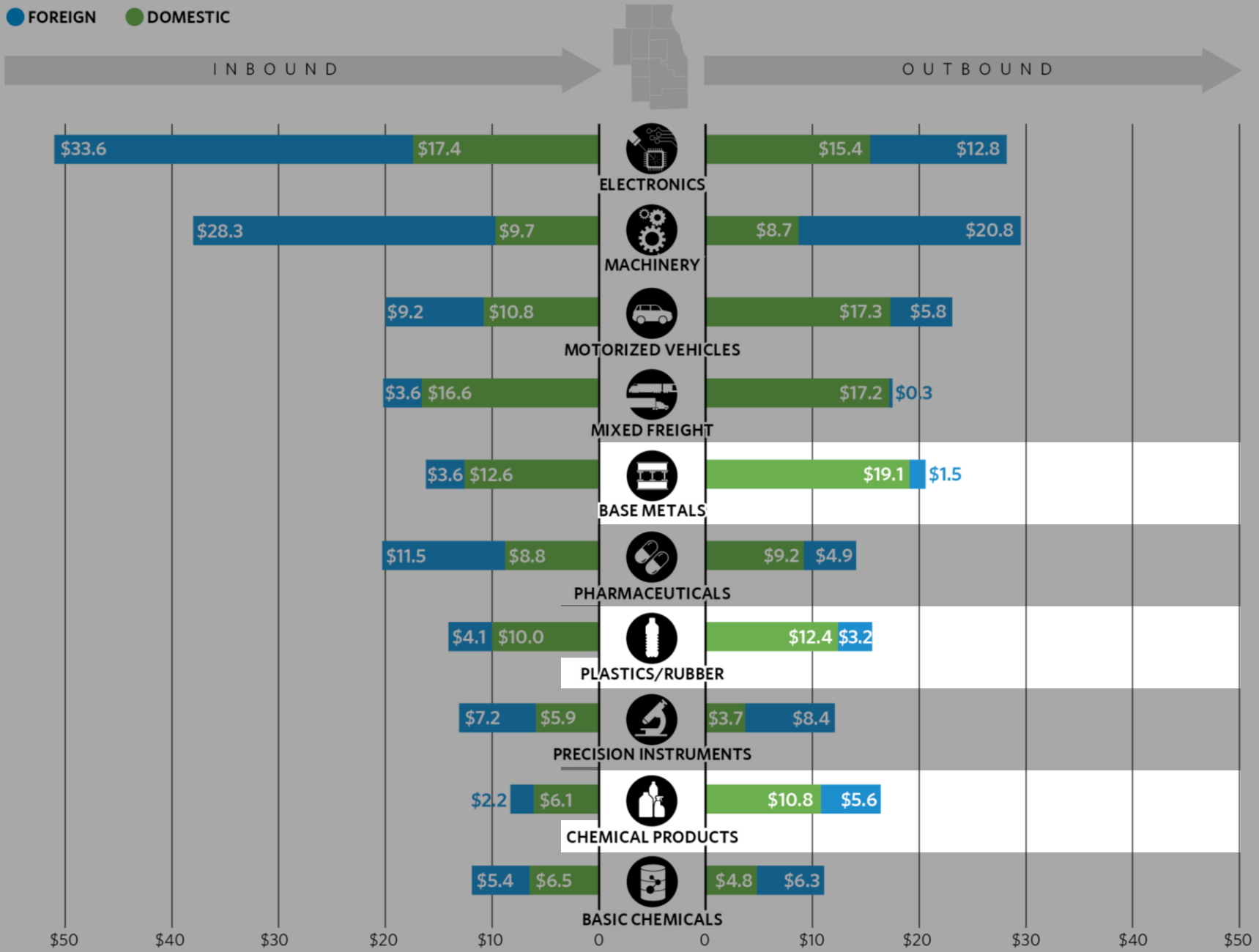
Note: Freight modes include: air, truck, rail, and water.

Source: Chicago Metropolitan Agency for Planning analysis of Freight Analysis Framework data.



Chicago region top commodities traded by value, 2012, in billions of dollars

● FOREIGN ● DOMESTIC



















Note: Freight modes include: air, truck, rail, and water.

Source: Chicago Metropolitan Agency for Planning analysis of Freight Analysis Framework data.

# Mode choice factors

## Chicago region top trading partners by mode





MODE	TOP PARTNERS	MODE CHARACTERISTICS	WEIGHT	VALUE	TIME
	Los Angeles Cleveland Memphis	Atlanta San Francisco Most reliable			
	Los Angeles Detroit Milwaukee	New York Minneapolis-St. Paul Fast and reliable			
	Detroit Los Angeles San Diego	Houston Seattle Shipping speeds vary			
	Houston New Orleans St. Louis	Baton Rouge Lake Charles, LA Ships non-time-sensitive goods that depend on affordable transportation options Lowest transportation costs			

Sources: Chicago Metropolitan Agency for Planning analysis of Freight Analysis Framework data; Wial et al., "Why Does Manufacturing Matter?" 2012.

# Modern supply chains and logistics trends

- Outsourcing logistics
- Increasing reliance on 3PLs
- Increasing demand for larger distribution spaces
- Growth in multimodal transportation

## Logistics firms roles and services

ENTITY	SERVICE PROVIDED
<b>Carrier</b> 	Handles the physical transport of goods from one location to another.
<b>Broker</b> 	Negotiates terms of freight movement agreements between shippers and carriers for a fee. Client base may consist of either carriers or shippers.
<b>Forwarder</b> 	Negotiates terms of freight movement agreements between shippers and carriers for a fee, typically with international shipments. May advise clients on export laws and regulations, as well as product packaging and carriage costs.
<b>Third Party Logistics (3PL)</b> 	Provides comprehensive logistics services. Services may include arranging transportation, warehousing, cross-docking, inventory management, packaging, and freight forwarding.

Sources: Council of Supply Chain Management Professionals Supply Chain Management Terms and Glossary, 2013; Export.gov.

# Moving forward



- Supply chain report will be published
  - ▣ Components of the analysis will be integrated into the freight plan
  
- Future drill downs into specific supply chains
  - ▣ Metals cluster
  - ▣ Future TBD



# CMAP GO TO 2040

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