



Transportation Satellite Accounts

U.S. Department of Transportation
Bureau of Transportation Statistics

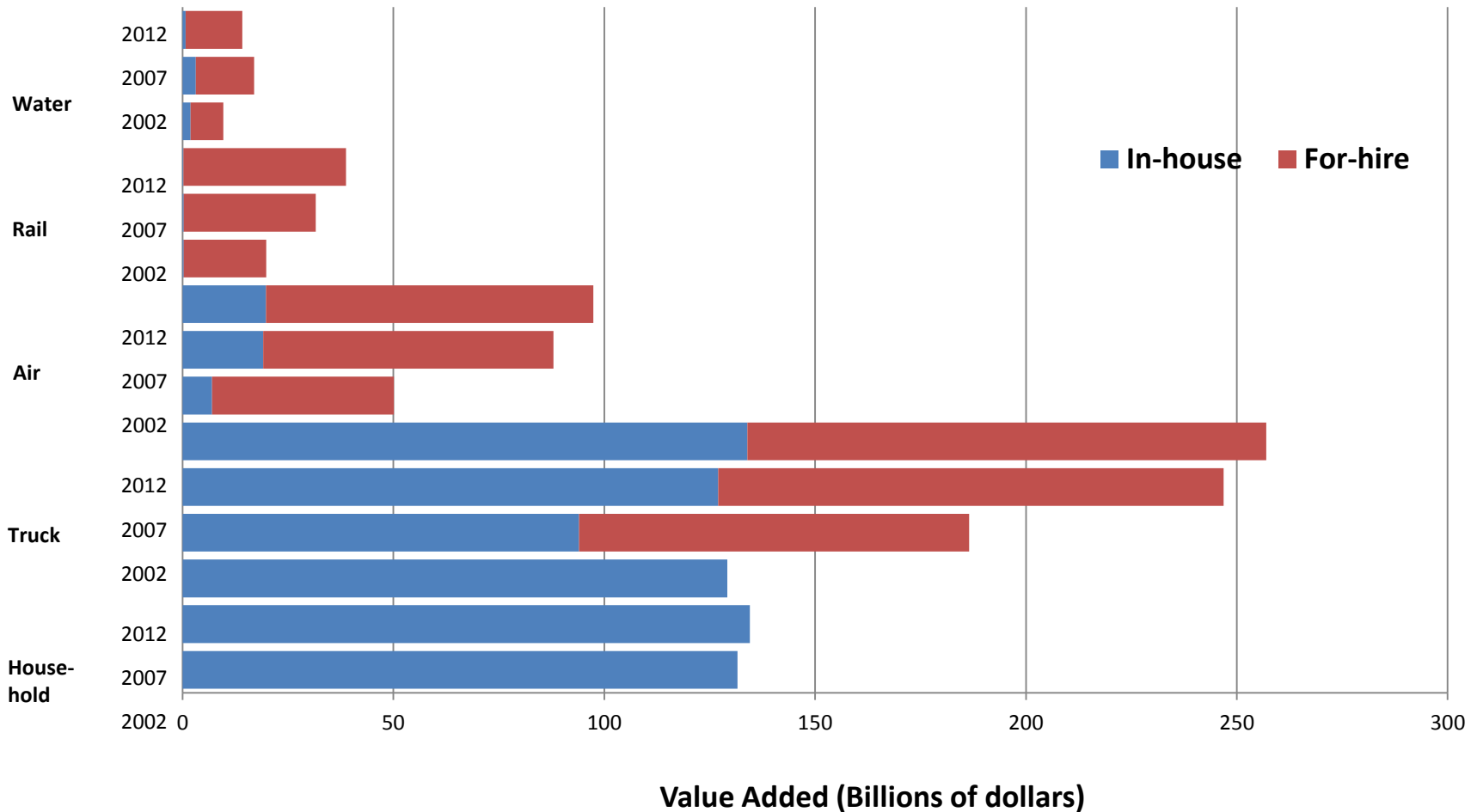
March 17, 2016

Transportation Satellite Accounts

Comprehensive means for measuring the contribution of transportation services to the national economy.

- Other national measures only explicitly show the value of transportation added by transportation industries
- TSAs capture the value of transportation added by non-transportation industries

Value Added by Transportation



Transportation Satellite Accounts: Derivation

Extension to the input-output (I-O) accounts produced by the Bureau of Economic Analysis.

- I-O accounts show the transportation value added by air, rail, water, truck, transit and ground passenger transportation, pipeline, other transportation and support activities, and warehousing and storage.
 - Known as for-hire transportation
- TSAs add on to I-O accounts. Show value of air, rail, water, and truck transportation produced and used within non-transportation industries.
 - Known as in-house transportation
- TSAs also show value of household's contribution transportation via the depreciation of household vehicle(s)

Transportation Satellite Account: Components

Structure replicates I-O accounts. Includes:

- **Make table:**

Shows the value of commodities produced by each industry.

Useful in seeing the:

- Primary and secondary producers of commodities

- **Use table:**

Shows the value of commodities used by each industry during production and the value each industry adds to gross domestic product (GDP).

Useful in finding the:

- Amount of transportation used by an industry
- Value added by transportation modes

- **Direct requirements table:**

Value of commodities used by each industry during production as per dollar of industry output.

Useful in finding:

- How important transportation is relative to other inputs
- What industries rely the most on transportation

Transportation Satellite Account: Components (cont.)

- **Commodity by commodity requirements table:**

Value of inputs for each commodity required to deliver a dollar of the commodity to final users.

Useful in finding the:

- Amount of transportation required to deliver a commodities to consumers

- **Industry by commodity total requirements table:**

Value of inputs for each industry required to deliver a dollar of a given commodity to final users.

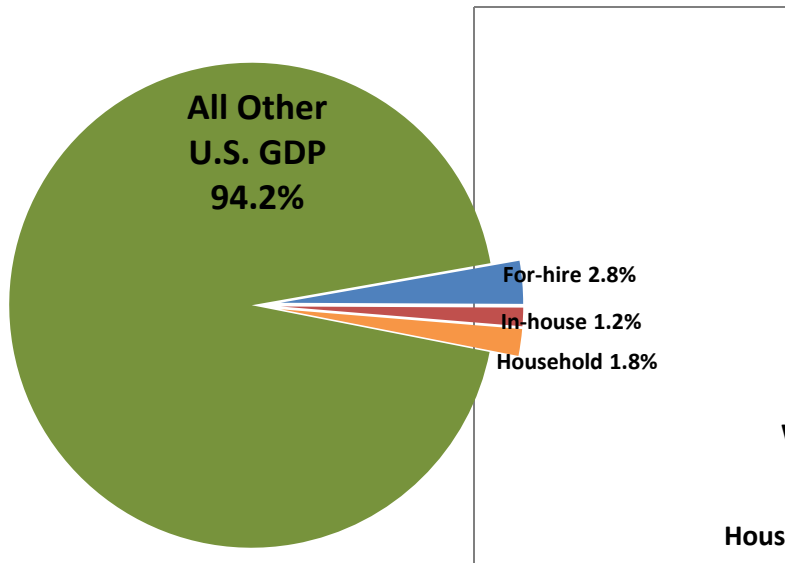
Useful in calculating the:

- Amount of transportation required to meet a dollar increase in the demand for a commodity
- Economic impact of transportation investments and economic impact of losses in transportation services

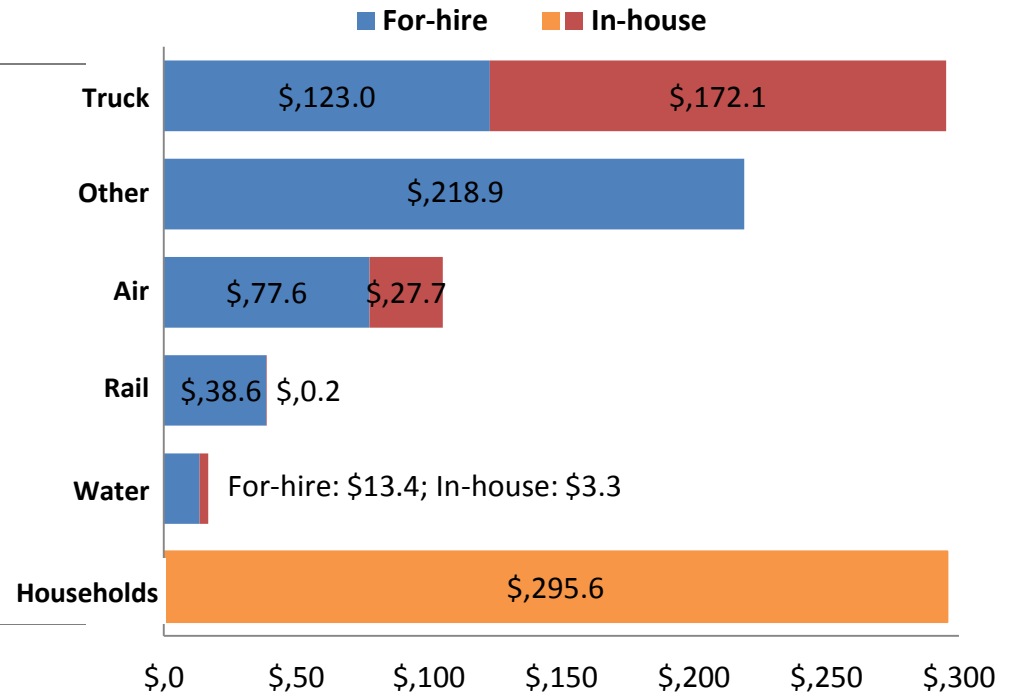
Contribution of For-Hire and In-House Transportation to U.S. Gross Domestic Product (GDP) (2012)

Economic Activity

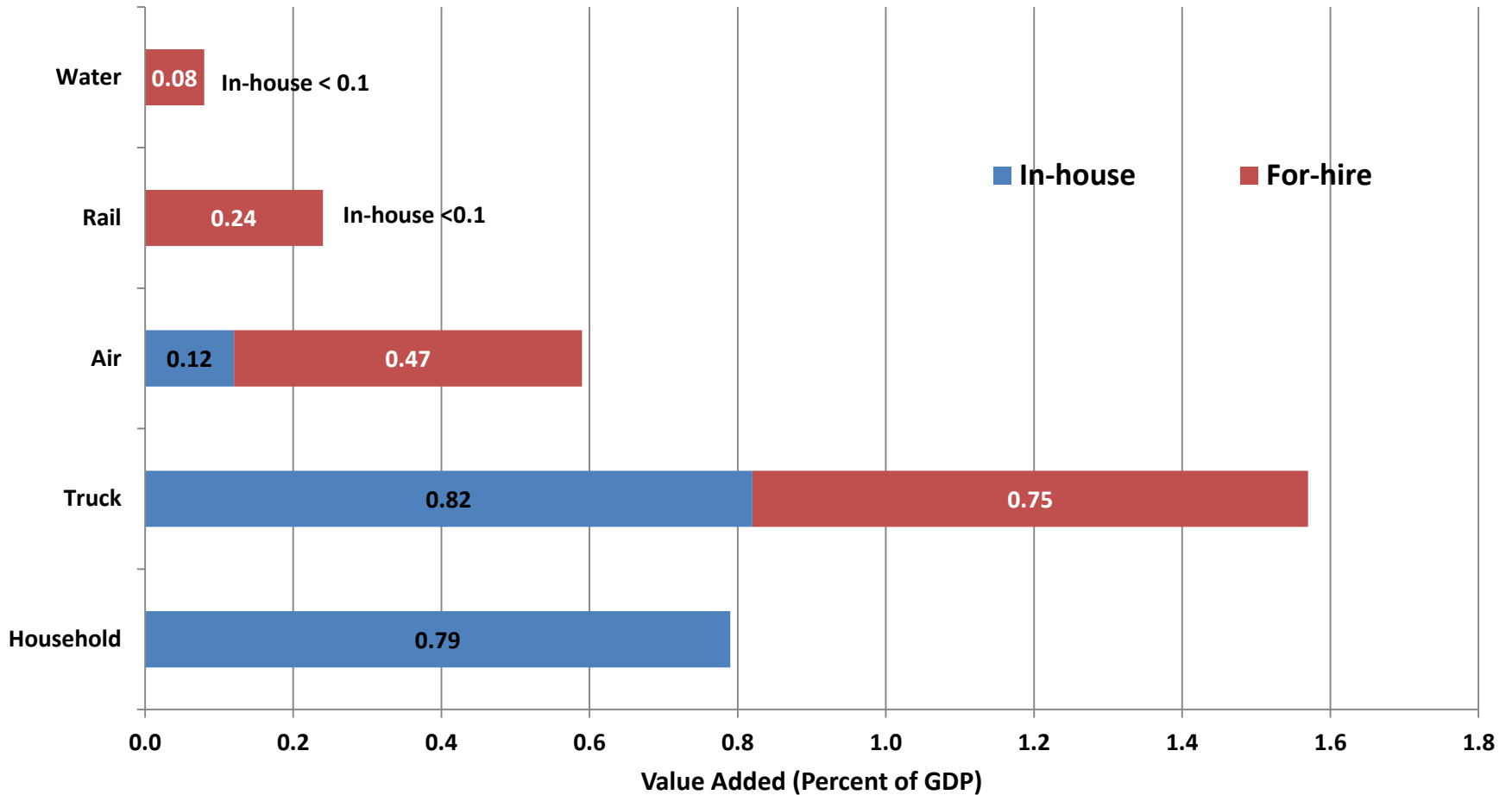
Total GDP = 16,540 billion



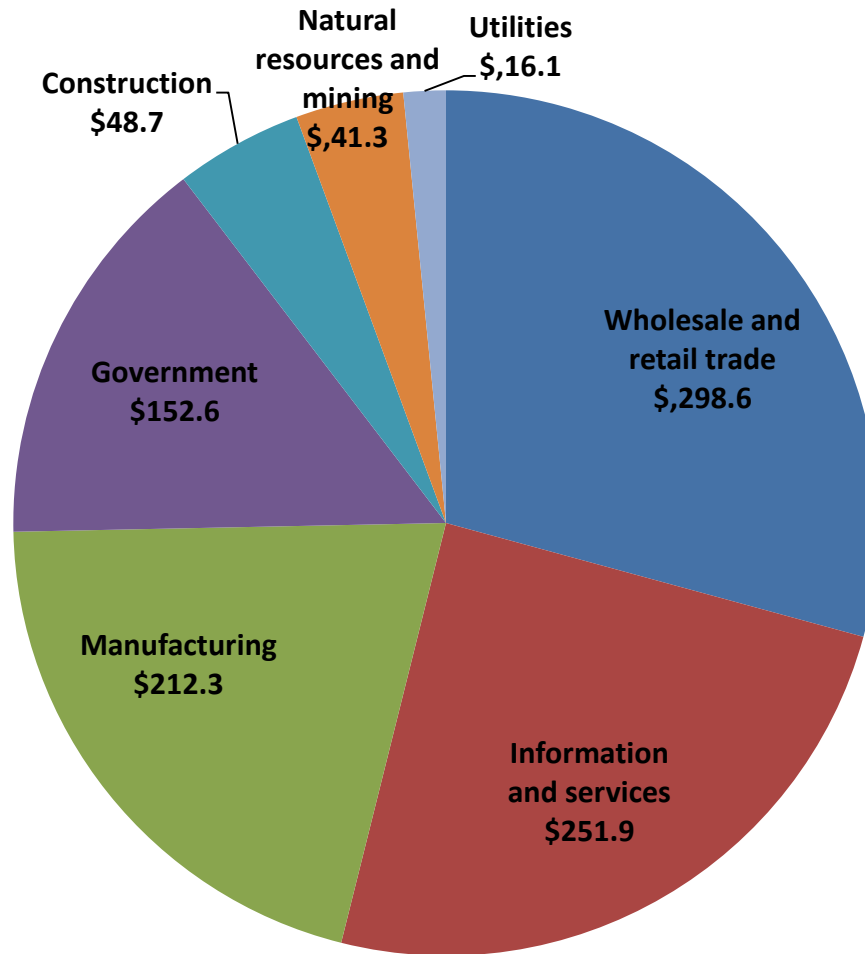
Contribution to GDP



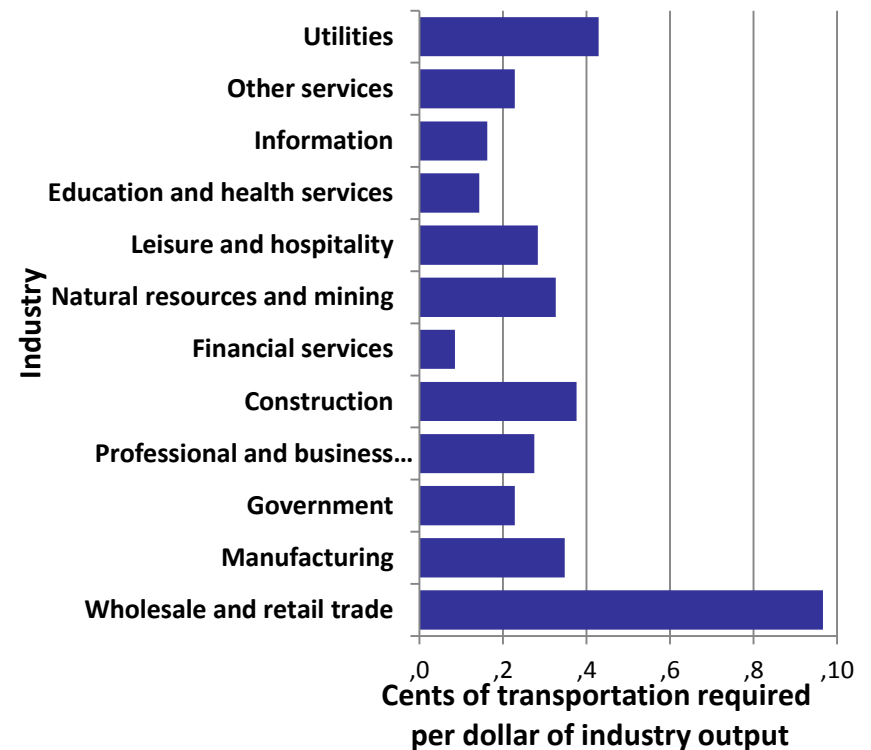
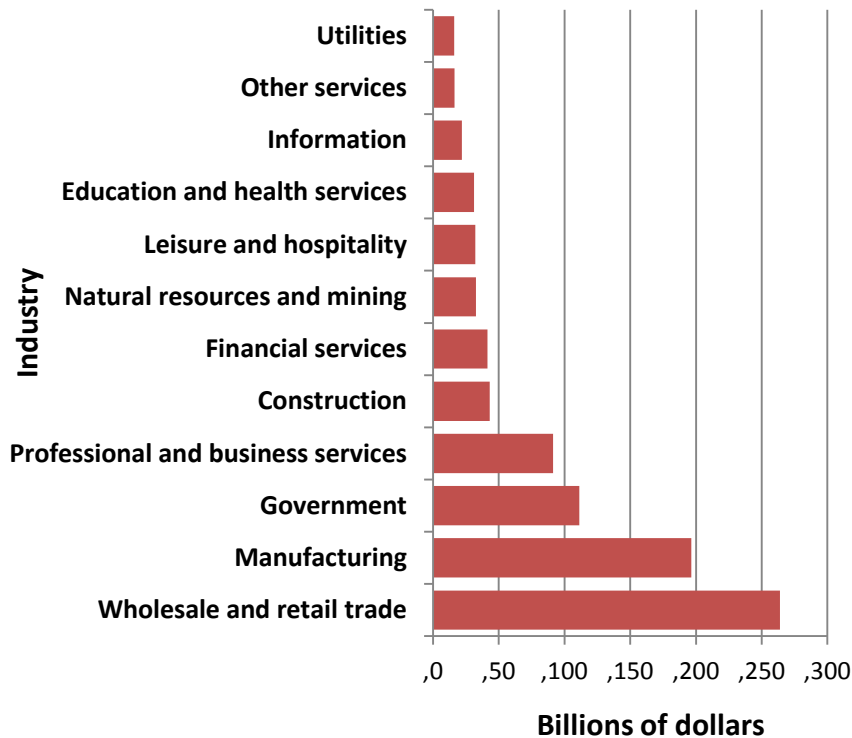
Contribution of Transportation to GDP - 2012 (TSA use table)



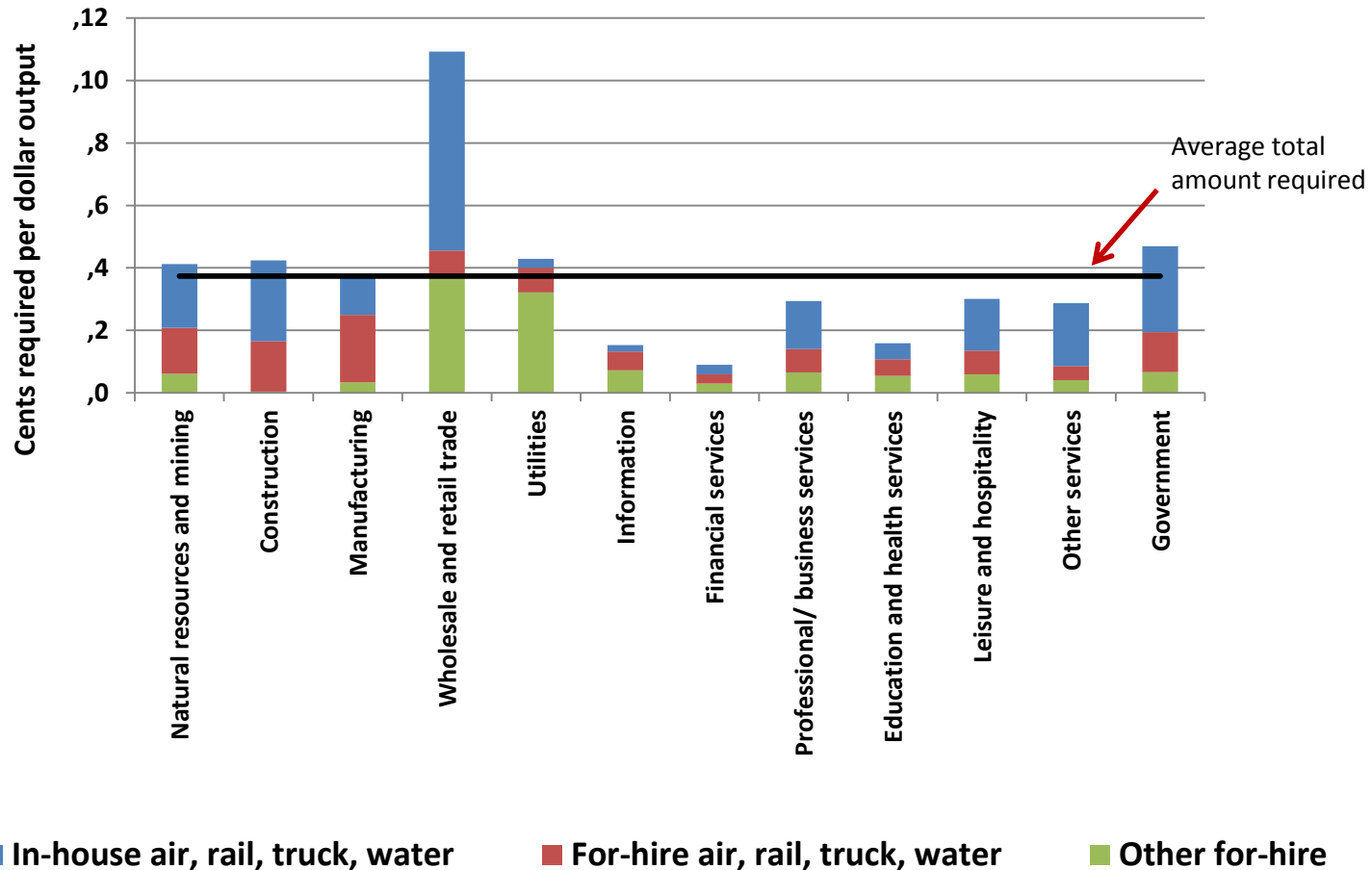
Use of Transportation by Sector 2012 (millions)



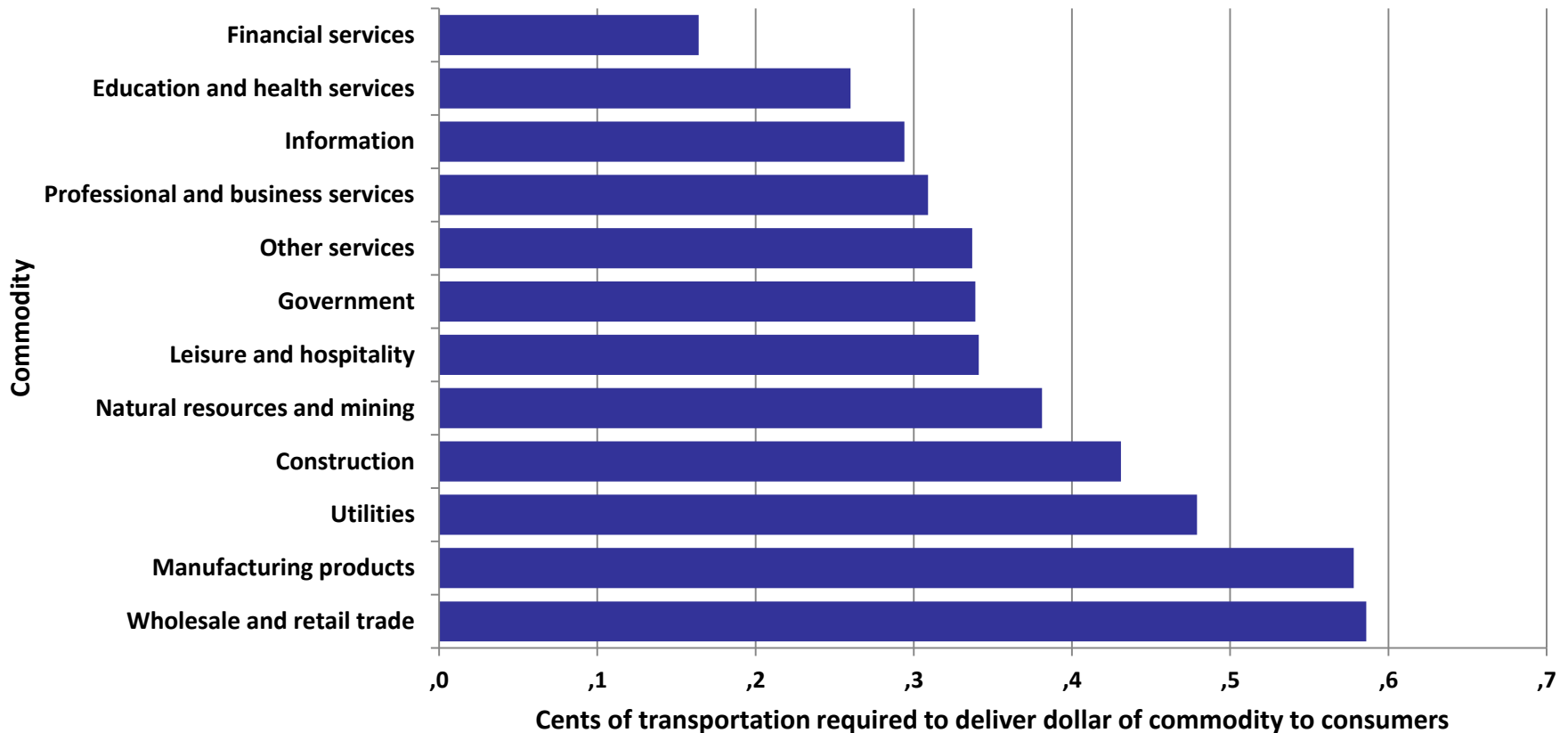
Use of Transportation by Industry (TSA use and direct requirements tables) - 2012



Transportation Required Per Dollar of Sector Output (2012)



Cost of Transportation Services to Deliver a Dollar of Commodity (TSA commodity-by-commodity requirements table) 2012



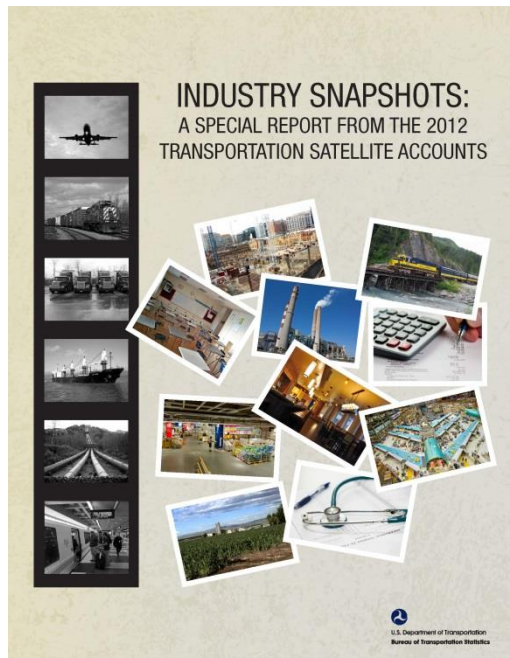
U.S. Department of Transportation

Office of the Assistant Secretary for
Research and Technology

Data Availability

Detailed data available at:

http://www.rita.dot.gov/bts/sites/rita.dot.gov.bts/files/publications/transportation_satellite_accounts/index.html



The Industry Snapshots: A Special Report from the 2012 Transportation Satellite Accounts (forthcoming)

- Shows the use of transportation by non-transportation industries

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