



Urban Freight Challenges

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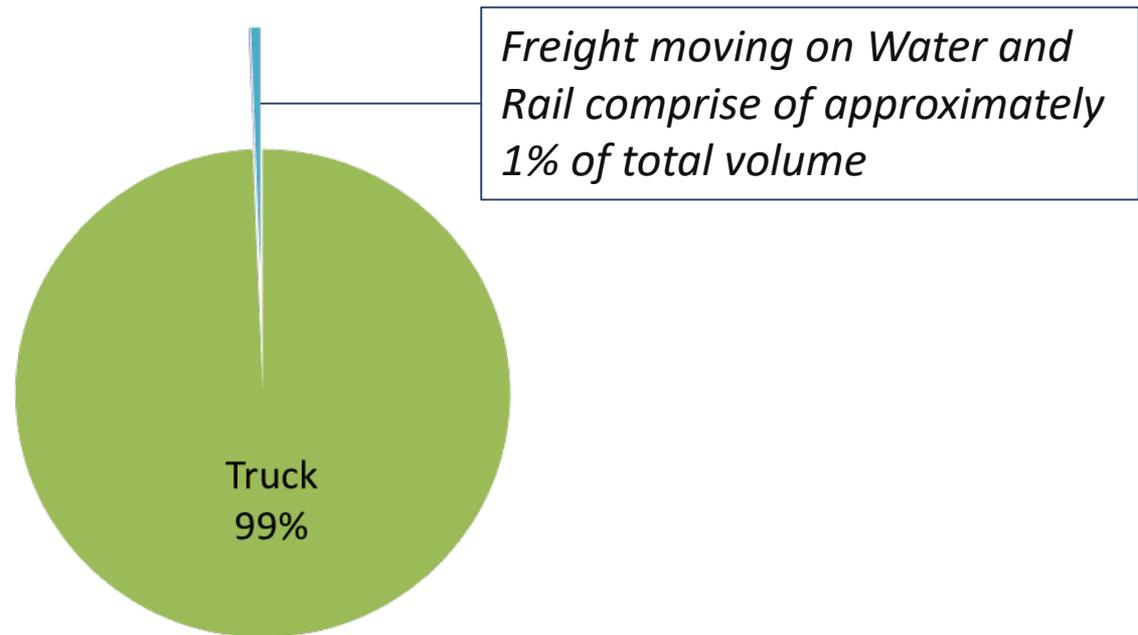
Washington, DC: an Overview

- ~660,000 residents (40% travel by auto to work)
- ~600,000 commuters (80% travel by auto to work)
- ~125,000 visitors daily
- ~260,000 on-street parking spaces (~19,800 are metered parking spaces)
 - Three ways to pay meter (Coin, Credit Card, or Pay by Cell (PBC))
- Nearly 99% of freight in the District arrives by truck.
 - 59.3% of total freight tonnage
 - 57.4% of total freight value



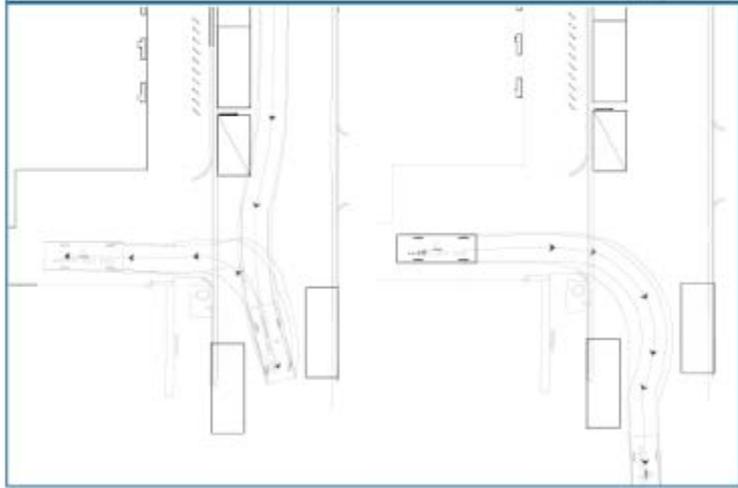
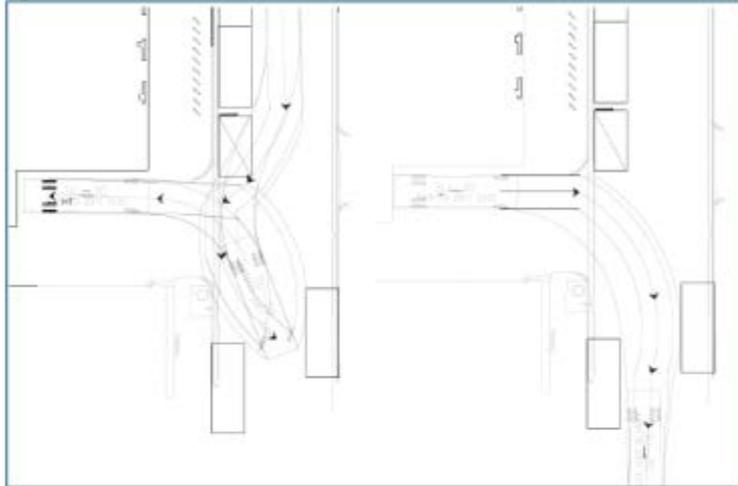
Freight Traffic in the District

- Freight traffic in the District grows by 75 percent from 2011 to 2040 in terms of tons, and 159% from 2011 to 2040 in terms of value.
- The compounded annual growth rate for freight tonnage and value is 1.9% and 3.3% respectively



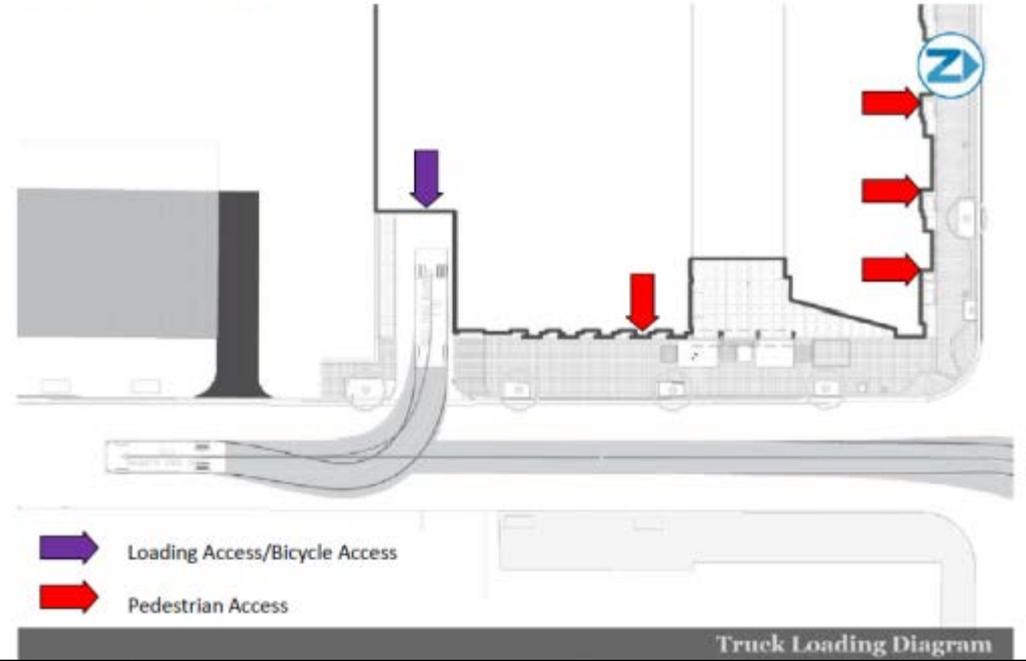
Total Volume of Freight Moved by Mode, 2011

Figure 20 Site Access Plan



Truck Loading Diagram

Figure 20 Site Access Plan





How to create a sustainable urban freight system?

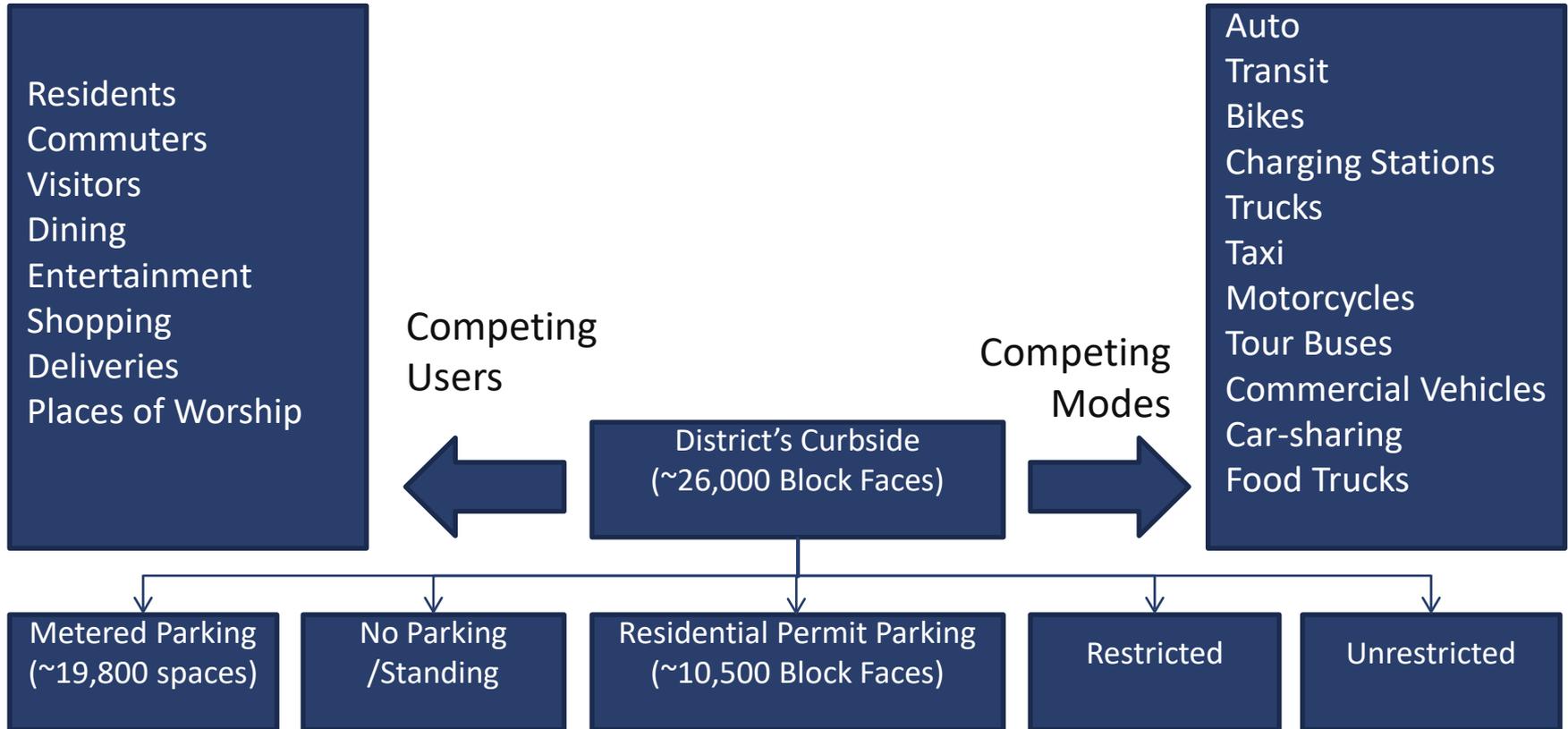
Help to get the product to the consumer at the right time, place and price

 Improving the point of delivery 

Proper use of Public Space/Loading Zones



Curbside – A Precious Asset



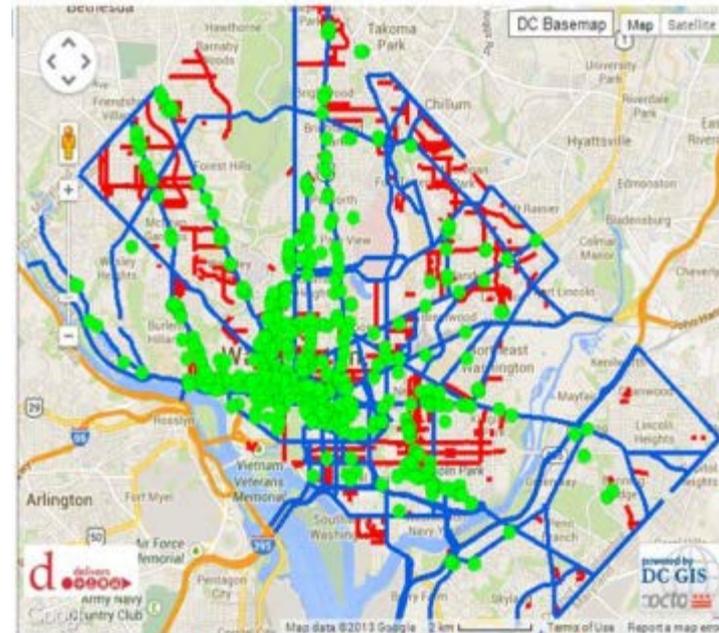
400,000 parking spaces in DC – 260,000 on-street
~1,400 miles of public curbside
~301,000 registered vehicles, ~105,000 RPP permits

Alternative Modes

Mode	Supply	Demand
Metrorail	38 linear District (118 linear regional) miles 40 District (91 regional) stations	119.2 million District (273.8 million regional) passenger trips in 2013
Metrobus	261 linear District (1,201 linear regional) miles of bus routes ~3,500 District (~11,400 regional) bus stops	73.5 million District (132.1 million regional) passenger trips in 2013
Circulator	130 stops over 43 linear miles	5.1 million passenger trips in 2014
Bikeshare	221 District (380 regional) stations	2,797,341 trips in 2014
Point to Point Carsharing	700 vehicle fleet	~50,000 members ~3 million trips since March 2012
Reserved Residential On-street ADA Parking	~1,000 reserved spaces	N/A
Car sharing	84 dedicated on-street spaces	Not available
Roadway Vendor (RV)	93 reserved Mobile RV spaces in 12 locations 70 Stationary RV spaces	200+ Mobile RVs
Commuter bus stops	195 commuter bus stops in the District	7.6 million passenger trips in 2013
Tour bus parking	~200 locations (on & off-street)	100,000 annually (~300 daily)
Loading Zones	~600	
Other Curb Uses	~400 valet parking curb spaces ~460 diplomatic parking spaces 6 on-street EV Charging stations ~200 on-street motorcycle spaces ~450 hotel guest loading curb spaces	

Freight System in DC (Loading)

- **Public Space**
 - Commercial Loading Zones
 - Inventory of 580 loading zones in the city
 - 17% are in residential areas; 49% are in commercial areas, 34% in other areas not zoned commercial or residential.
 - Loading zones primarily serve businesses that deal in small consumer goods and perishables
 - For every 1 loading zone there are 531 parking spaces



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District Department of Transportation

