Goods movement is essential.
Homes now generate freight trips.
Streets are increasingly multi-modal.
Supply ≠ Demand
Streets are difficult to navigate.
Parking and accessing the curb are challenging.
Network Connectivity
Design Vehicle vs. Control Vehicle

1. Space available for wide design vehicle turn from inside lane
2. Larger control vehicle can use adjacent lane
3. Clear midblock turning path may require parking restriction
Intersection Design

1. Asymmetrical median nose provides space for wide turn

2. Space available for lane encroachment

1. Recessed stop line
Control and Regulation
Safety
Space

1. Horizontal clearance zone for loading and delivery

2. 14" MIN Clearance
3. 13'6" MAX TYP.
4. Lighting free of overhead power lines
5. Vertical clearance zone free of obstructions
Curbside Loading

1. Direct curb access for loading
2. Transit bulb
3. Corner bulb
Curb Access

1. Loading zone with adequate length for maneuvering and rear loading
2. Access aisle
3. Midblock curb cut

1. Textured pavement delineates vehicle space
Off-Hour Deliveries
Consolidation
Lockers, Pick-Up Points, and Building Management
Thanks!
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