

GOING GREEN WITH TRANSIT MACRO AND MICRO

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Building Livable Communities with Transit

GOING GREEN WITH TRANSIT

- Greener Stations
- Reducing Greenhouse Gas Emissions
- Smart Locations
- Smart Connections



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Greener Stations

- Recycled building materials
- Local building materials
- Passive solar design
- Radiant heating
- Geothermal wells
- Graywater tank – rainwater
- Solar array/solar film
- Green roof
- High-efficiency light bulbs, etc.
- Bicycle storage
- Green parking



RTA W. 65th Rapid Station opens in Cleveland's EcoVillage community

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Greener Stations - Parking

- Minimum Parking Space Dimensions
- Alternative Pavement Materials
- Shading
- Structured Parking
- Bike Storage
- Charging Stations
- Priority Parking
 - Green Cars
 - Car Pools and Van Pools
 - Zero Emission Vehicles



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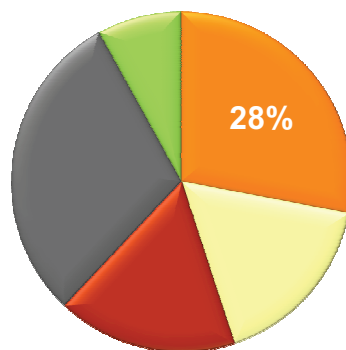
- Six wind turbines
- Green roof
- Rain cisterns

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Greenhouse Gas Emissions by Sector

40% in Florida and
Portland, 50% in Seattle



■ **Transportation**

■ **Residential**

■ **Commercial**

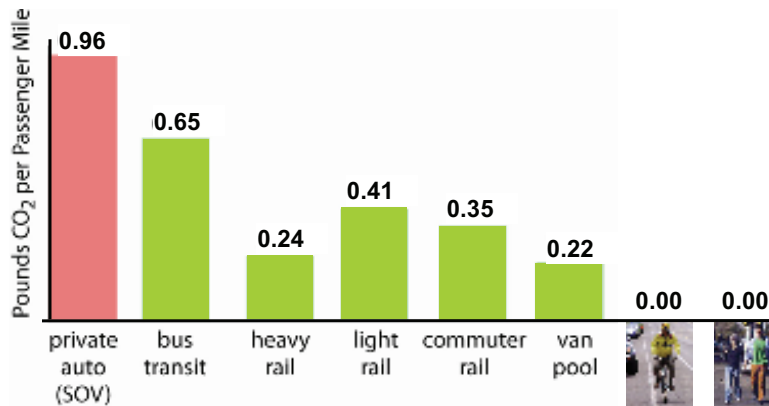
■ **Industry**

■ **Agriculture**

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Greenhouse Gas Emissions



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Smart Locations

- New locations
 - Focus on reducing VMT
 - GHG Reductions as a bonus
 - Locations suitable for development
 - Locations where people are – adding transit in older neighborhoods
- Smart locations – a greener approach
 - Utilize existing infrastructure - bring  development to existing transit investment
 - Previously developed sites
 - Underutilized sites

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New Locations - Jacksonville Square, FL

Adding Transit and Transit-Oriented Development to Older Neighborhoods



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Smart Locations - Opportunities

- Existing Stations
 - Park 'n Ride
 - Other existing stations
- Stations – Characteristics
 - With little/no adjacent development
 - Underutilized sites
 - Previously developed sites
(brownfields and grayfields)

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Smart Locations – Park ‘n Ride



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Smart Locations - Redevelopment

- Retain Parking
- Consider Structured Parking
- Add Transit-Oriented Development



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Smart Locations - Redevelopment



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Smart Locations - Redevelopment



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Bloomington Central Station - MN



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Source: MTC

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Smart Locations - Timing



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Smart Connections

- Rail, Transit, Ferry, or Tram Connections
- Transit-Oriented Development
 - Housing and Jobs
 - Schools
 - Commercial and Services
 - Other Neighborhood Assets
- Bicycle Network
- Pedestrian Network



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Smart Connections - TOD



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Smart Connections - TOD

- Compact village design
- Mixed use - residential, office, retail, school and civic uses
- High density development within a ½ mile of station
- Connecting trolleys, streetcars, light rail and buses
- Connecting bicycle network
- Balance pedestrian-friendly and transit-efficient features
- Walkability



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Smart Locations/Smart Connections

- Study Underutilized Station Locations
- Identify Opportunities
- Community Outreach
- TOD zoning to increase population with access to transit and the ability to live 'away' from the city



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