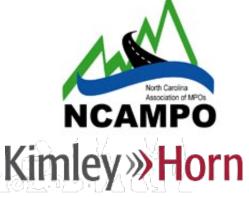


Mobility Planning:

From Vision to Implementation

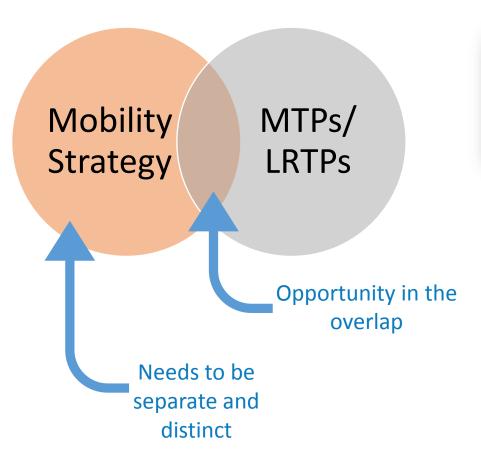


Mobility Plans: a new paradigm

- Cities are constrained places
- Cities represent the best place for mode-shift opportunities
- There is a history of mono-modal planning
- The competition for space and resources is often handled in an ad-hoc way
- Complete Streets Policies were thought to be a remedy
- Can harmony be found between MTPs/LRTPs and local mobility plans?



Relationship to MPO Planning





Continuing the mission of MAP-21's focus on performance target areas

Restructuring funding sources; Creating new programs

New focus on safety, freight, resiliency, intercity transit, and tourism

Why isn't the rate of change occurring faster?

Over 700 agencies at the local, regional, and state levels have adopted Complete Streets policies

- National Complete Streets Coalition

Complete Streets Policy

"The City Council approved a Complete Streets policy that ensures transportation planning and street maintenance that accommodates pedestrians, bicyclists, transit riders, people with disabilities, children and the elderly among others. Supporting multi-modal transportation in the City is one of City Council's strategic goals."

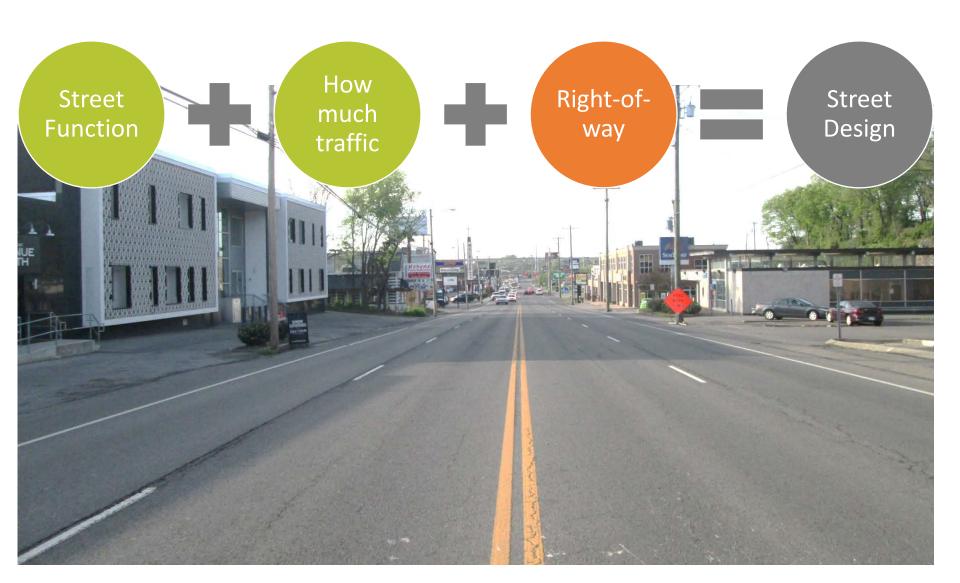


-Image, Smart Growth America

Complete Streets principles will be applied in <u>all</u> street construction, retrofit, and reconstruction projects <u>except</u> in the following circumstances:

- Where pedestrians and bicyclists are prohibited by law.
- Where existing ROW doesn't allow for accommodation of all users.
- The cost of establishing walkways or bikeways or other accommodations would be disproportionate to the need, particularly if alternative facilities are available within a reasonable walking and/or bicycling distance.
- Where they are unnecessary or inappropriate because it would be contrary to public safety and increase risk of injury or death.
- The construction is not practically feasible or cost effective because of unreasonable adverse impacts resulting from right-of-way acquisition.
- Ordinary maintenance activities designed to keep street and other transportation assets in serviceable condition.

Traditional Decision-Making



Competion Between Plans







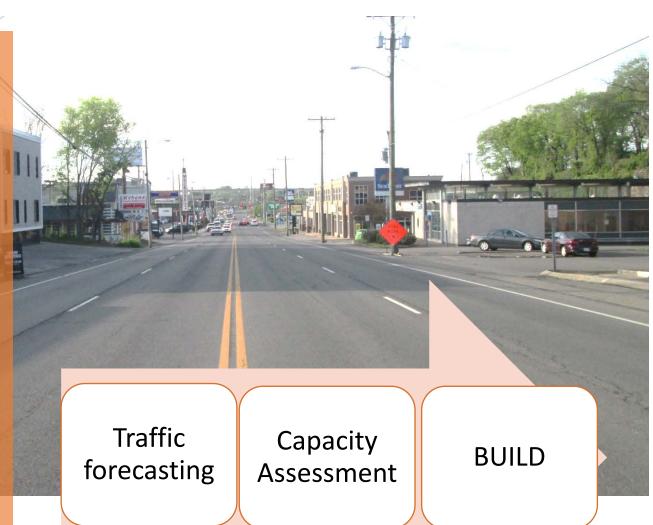




"Plans should seek to resolve conflict rather than propagate conflict."

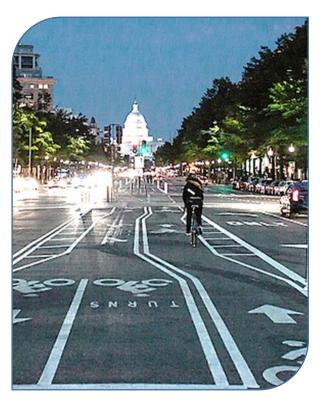
Risk of the Conventional Approach

- Limited mobility choices
- Failure to implement modespecific plans
- Missed opportunities to advance community goals
- Influences to vitality
- Neighborhood Isolation

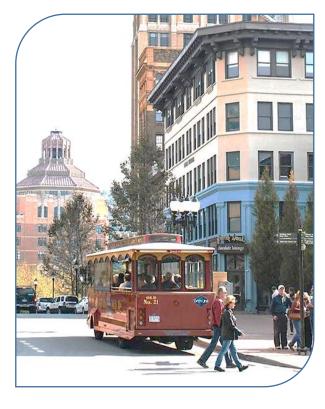


Why are cities changing their priorities and street design?

Why are they changing their strategy?







Washington DC

Historic focus on in-migration Extreme Constraints Strategy Not Sustainable Change in Housing Market Emphasis on Placemaking

Austin, TX

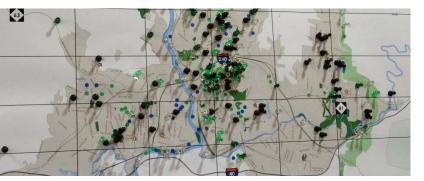
Extreme congestion
Imagine Austin
Goal: Compact & Connected
New Development CodeNext
Affordable Housing

Asheville, NC

Extreme Constraints
Limited Funding
Affordable Housing
Hospitality Economy
Changing Demographics











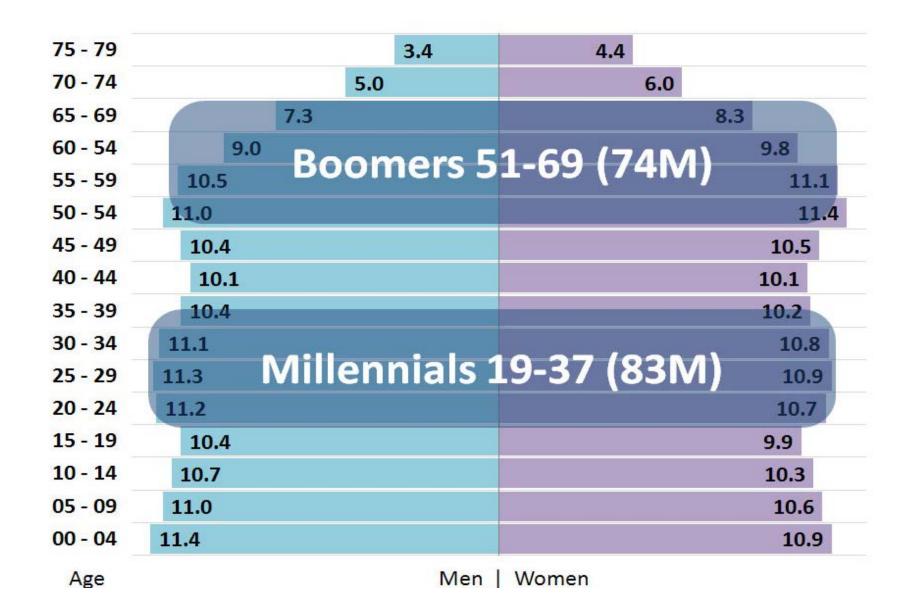
PRIORITIES

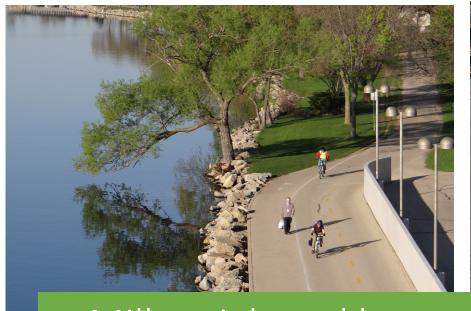




Communities Are Demanding It

This is who we are.





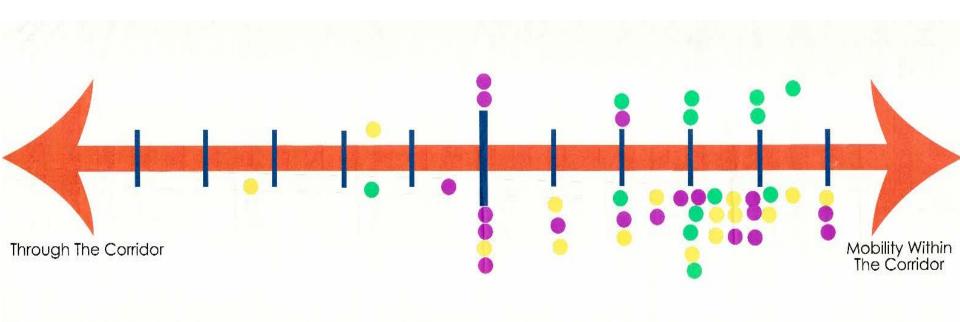


Millennials and boomers are driving less and looking for other transportation options.





Mobility Continuum



MON NON





Priority Pyramid



burying utilities

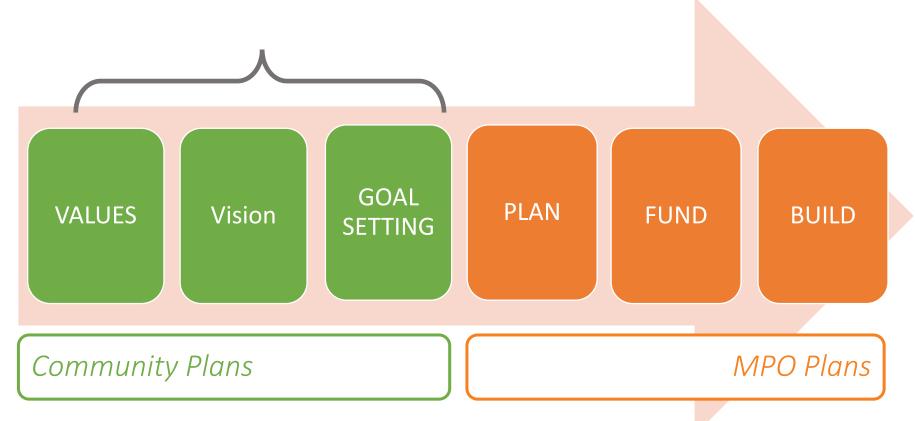
Pyramid Ranking in Constrained Settings

	1 st	2 nd	3 rd	4 th	5 th	6 th	7 th	8 th
	Walking	Transit	Economic Vitality	Biking	Beautifi- cation	Congestion	Parking	Burying Utilities
Priority Theme								
Weighted Average	86.1	61.1	49.2	47.4	33.1	30.5	20.4	10.3
Percent Reponses by Tier	1 st Tier: 38% 2 nd Tier: 33% 3 rd Tier: 21% Unranked: 8%	1 st Tier: 19% 2 nd Tier: 35% 3 rd Tier: 35% Unranked: 11%	1 st Tier: 15% 2 nd Tier: 29% 3 rd Tier: 38% Unranked: 18%	1 st Tier: 6% 2 nd Tier: 40% 3 rd Tier: 19% Unranked: 35%	1 st Tier: 10% 2 nd Tier: 19% 3 rd Tier: 65% Unranked: 6%	1 st Tier: 8% 2 nd Tier: 19% 3 rd Tier: 23% Unranked: 50%	1 st Tier: 4% 2 nd Tier: 15% 3 rd Tier: 38% Unranked: 43%	1 st Tier: 0% 2 nd Tier: 10% 3 rd Tier: 65% Unranked: 25%

Not where it used to be...

How are cities changing their priorities and street design?

Process Innovations



Project Prioritization Considerations

Traffic Flow

Travel Safety

Economic Vitality

Environmental Preservation

Network Connectivity Freight Movement Affordable Housing Commute Mode Shift

Social Equity

Public Support

Tourism & Recreation

many others



- Considering FAST Act/MAP-21 performance measures when developing criteria
- Linking evaluation criteria with processes associated with MTP/LRTP
- Community outreach

Report Card Elements

Safety

- Responds to known safety challenges
- Pedestrian, Bike, and Traffic
- Reduce travel speeds

Walkability

- Quality of pedestrian realm
- Reduced time at risk
- Quality walkscore

Transit

- Opportunities for enhanced shelters and design
- Transit ready environment
- Enhanced ridership characteristics

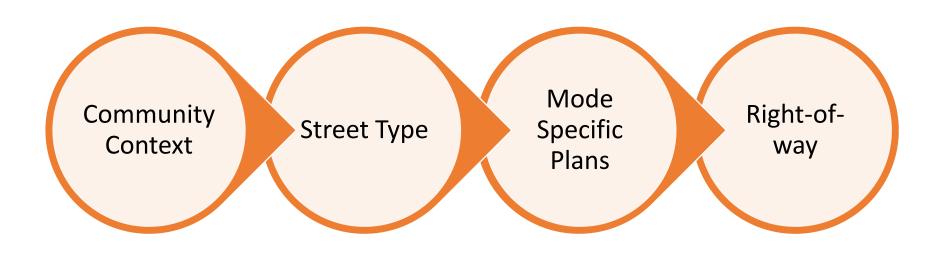
Corridor Vibrancy

- Local business environment vs pass-by auto-centric
- Enhanced Aesthetic
- Improved accessibility by multiple travel modes

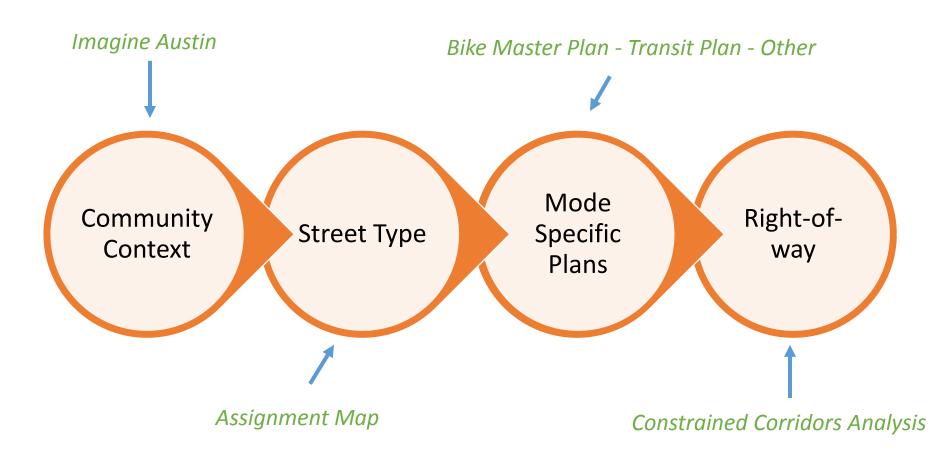
Traffic

- Accommodates acceptable LOS
- Accommodates additional weekday trips
- Truck traffic accommodations

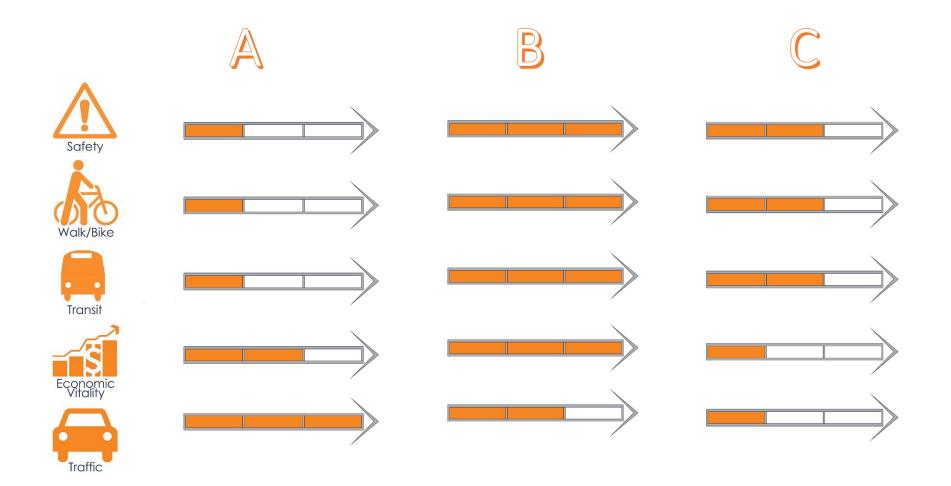
Typology Considerations



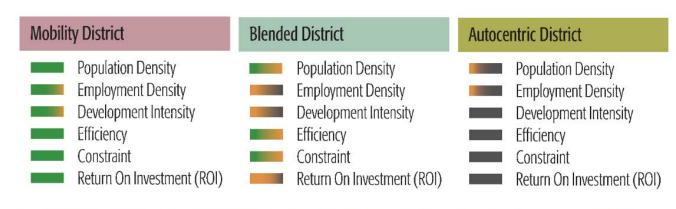
Typology Ingredients



Ingredients: Community Context







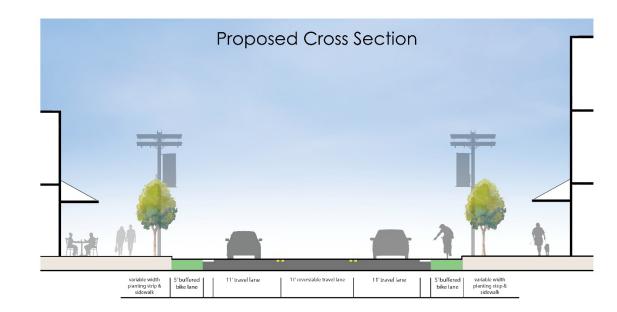
Scenario C Three Lane with Center Reversible Lane

Design Characteristics:

- -Single travel lanes in each direction -Center reversible lane
- -Buffered bike lanes in each direction
- -25 mph design speed

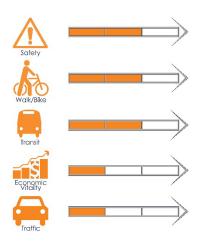
Scenario C								
	AM Peak Hour	PM Peak Hour						
Wedgewood	F (116.9)	F (110.1)						
Bradford	A (8.0)	B (10.1)						
Craighead	D (44.1)	F (174.4)						
Kirkwood	C (22.6)	F (296.9)						
Berry	E (73.9)	F (84.1)						
Travel Time (min)	4.4	10.9						



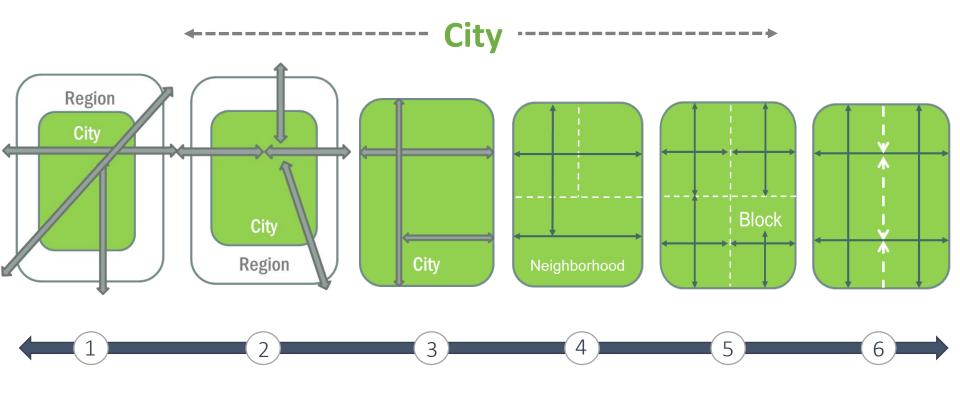


Report Card

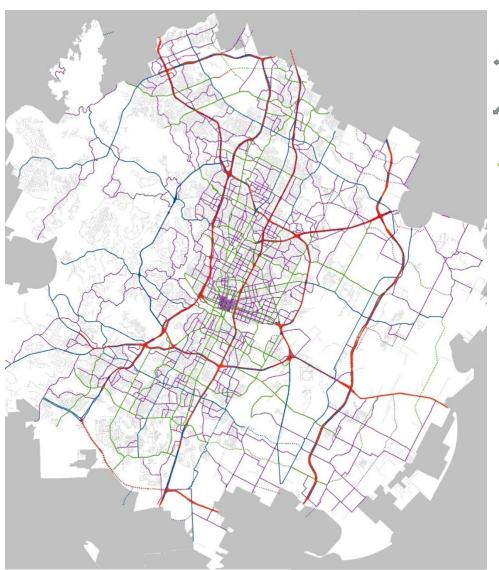


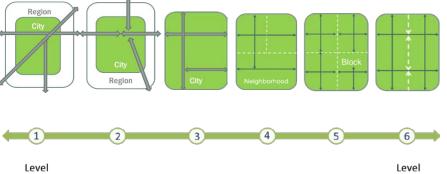


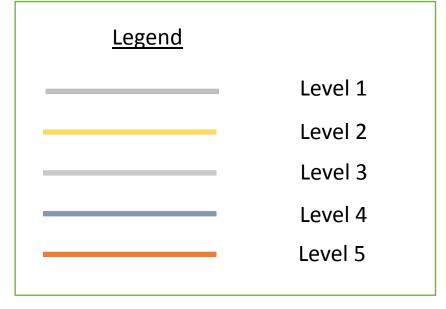
Ingredients: Street Types



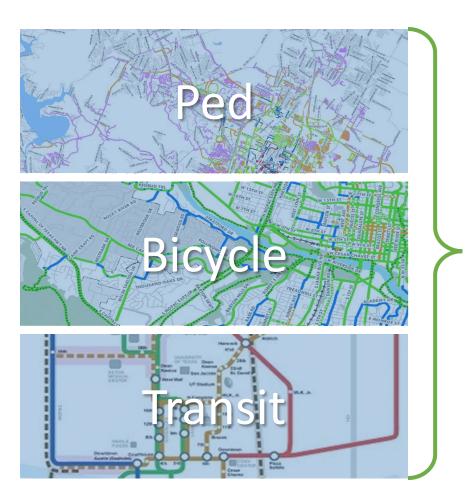
Ingredients: Street Types





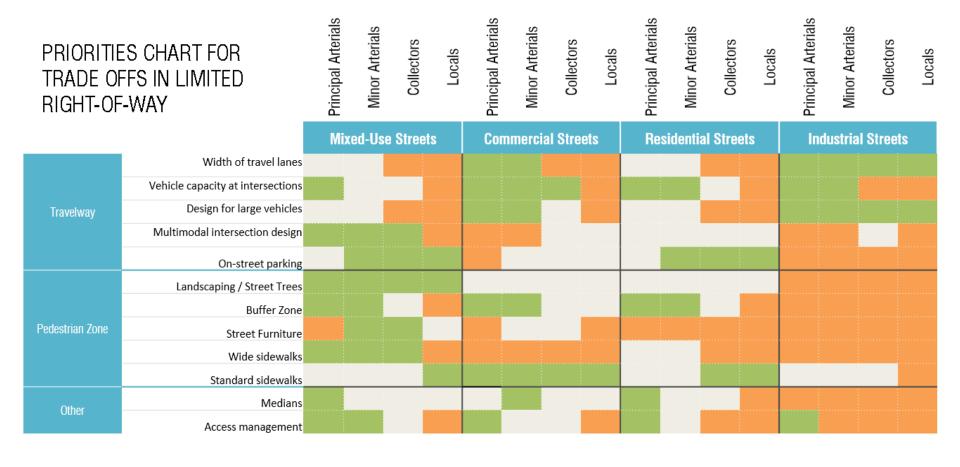


Ingredients: Framework Plans

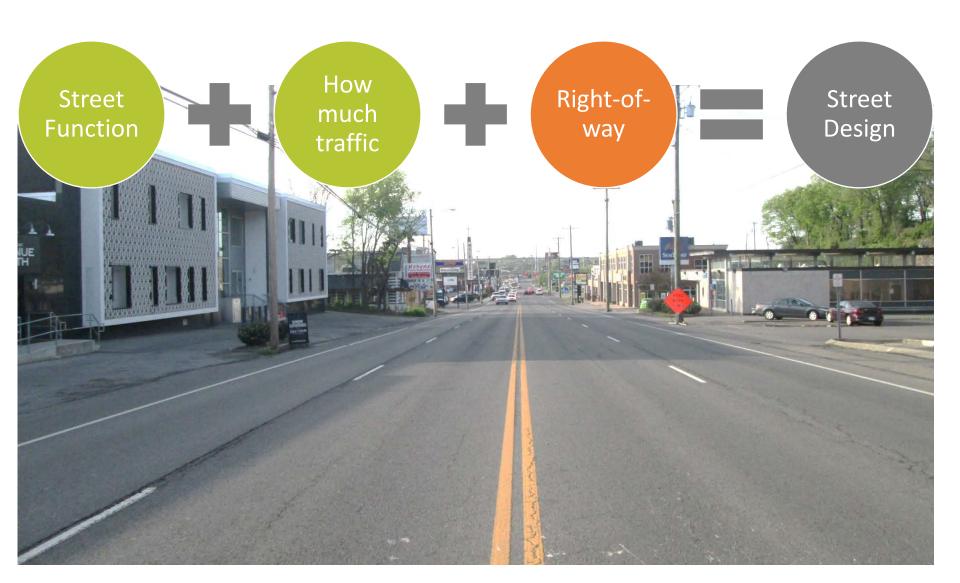


Framework
Plans
(mono-modal)

Ingredients: Constrained Corridors Analysis

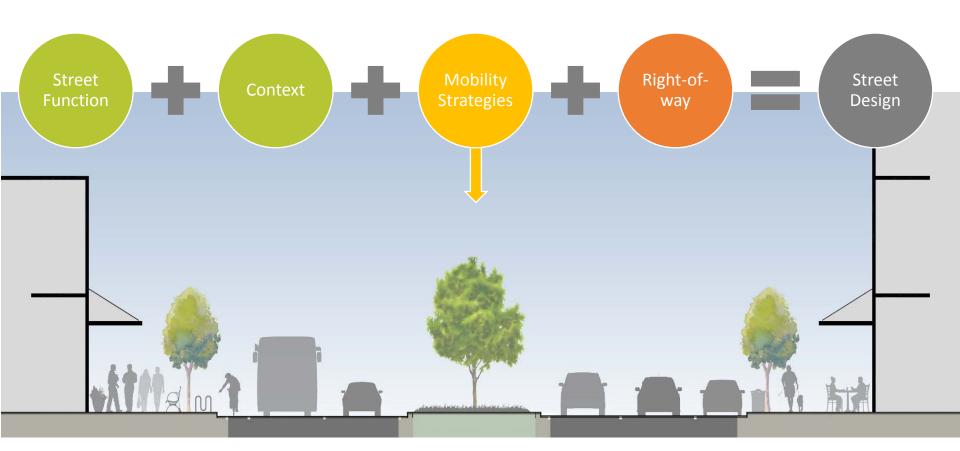


Traditional Decision-Making



Positioning our area for Successful Street Design





Respect MPO process for integrating the best information from all levels

Recognize the important role of the MPO in regional decision-making

Respect community decisions when a clear strategy is defined

Recognize community planning as an educational and advocacy tool



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