



Walking the talk:

Moving from scenarios to action

Lake Arrowhead Symposium, September 20, 2009

Harrison Rue



Sustainability action strategy

- Single planning process (one conversation)
 - Long-Range metro & rural plans, state multimodal plans, transit operators and localities
- Scenario planning (regional & corridor)
- Multimodal corridor planning
 - Transit Ready Development
- Focused investment strategy
 - Review available funds/projects across all partners
 - Re-purpose \$\$ to 'complete the networks'
 - Target short-term action: TDM, operational, transit
 & walk-bike improvements, connect-the-dots

Assumptions (it's all in there):

- Regional Sustainability Accords
 - Green building & infrastructure, etc.
- Hands on public participation
- Interagency project teams
- Coordination of plans & projects
 - Across jurisdictions & agencies
 - Include multiple programs & funding
- Plans incorporate Action Agendas





Regional Scenario Plann Linking land use, transportation, economy & environment

New US DOT/HUD/EPA partnership

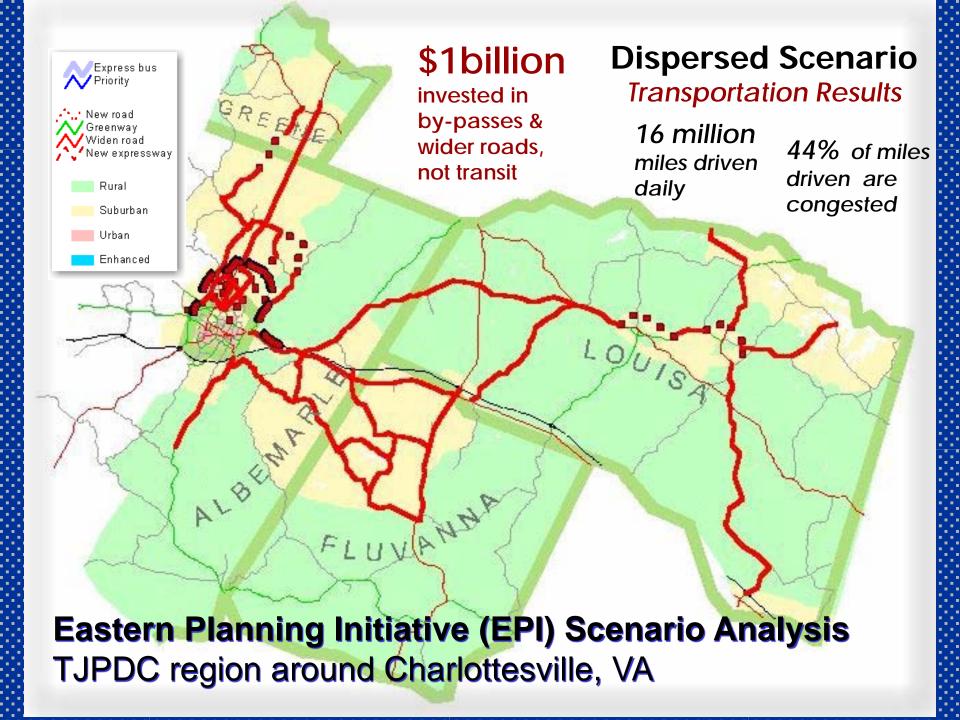
- Interagency task force to better coordinate federal transportation and housing investments
- Enhance integrated regional housing, transportation and land use planning and investment
- Goal to have every major metro area conduct integrated housing, transportation, and land use planning and investment in the next four years

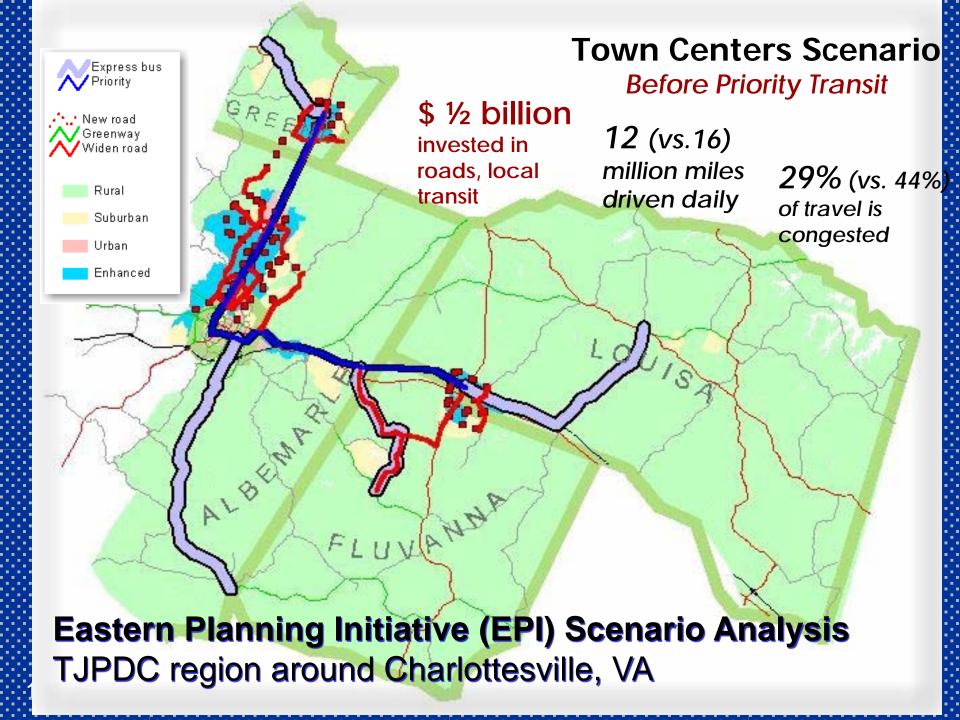
New US DOT/HUDEPA partnership

- Develop federal housing affordability measures that include housing and transportation costs and other costs that affect location choices
- Research, evaluate and recommend measures that indicate the livability of communities
- Identify opportunities to better coordinate their programs
- Conduct joint research, data collection and outreach

TJPDC Sustainability Accords: Regional values as EPI model inputs

- Encourage and maintain strong ties between the region's urban and rural areas
- Strive for a size and distribute the human population in ways that preserve vital resources
- Retain the natural habitat
- Ensure water quality and quantity are sufficient to support people and ecosystems
- Optimize the use and re-use of developed land and promote clustering
- Promote appropriate scale for land uses
- Retain farm and forest land
- Develop attractive and economical transportation alternatives
- Conserve energy
- Provide educational and employment opportunities
- Increase individual participation in neighborhoods and communities





EPI Scenario Analysis Identified and modeled 26 place types

Urban Mixed-use



East Market Street; Charlottesville

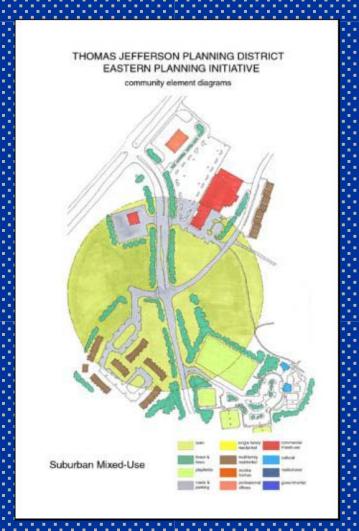


EPI Scenario Analysis Identified and modeled 26 place types

Suburban Mixed-use

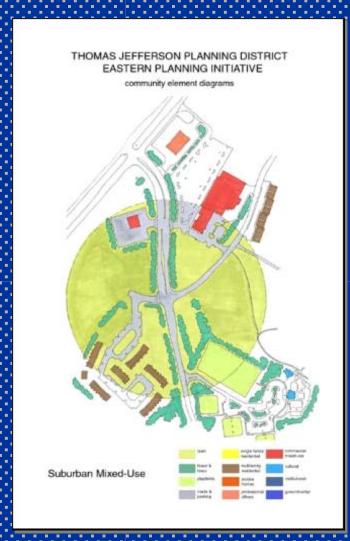


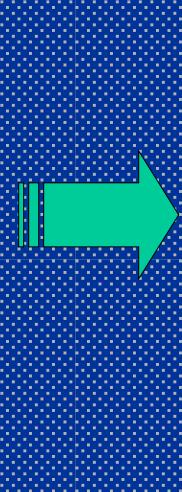
PUD Development US 29 North

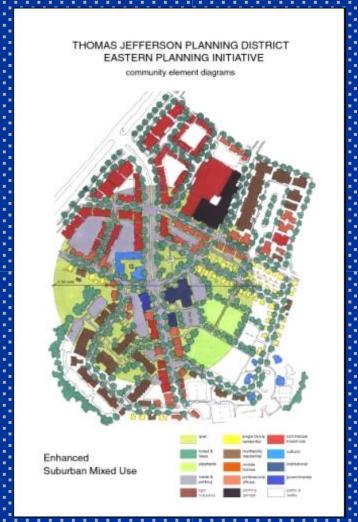


Circle reflects five minute walk

EPI Scenario Analysis Enhanced Suburban Mixed-use



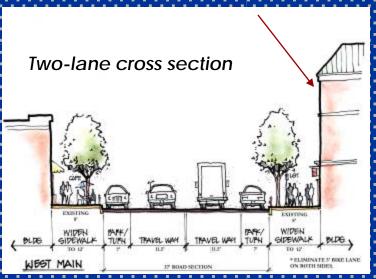




Boulevard Design Characteristics "People Friendly Streets"

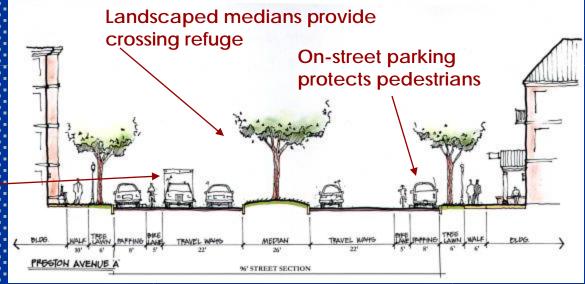


Buildings brought to street for enclosure / interest

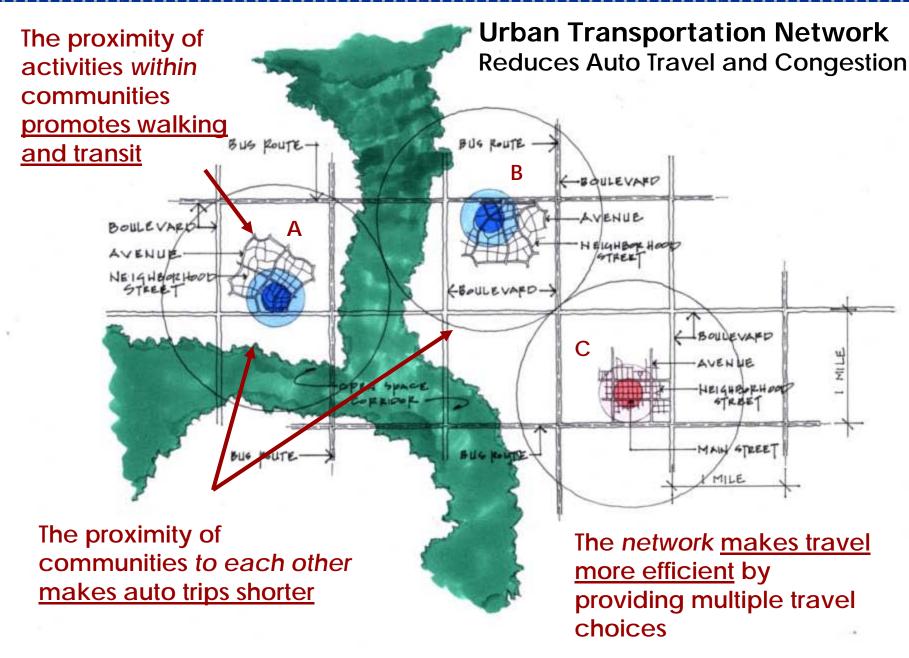


Streetscape

Bus amenities include shelters and by-pass lanes.



Four-lane cross section



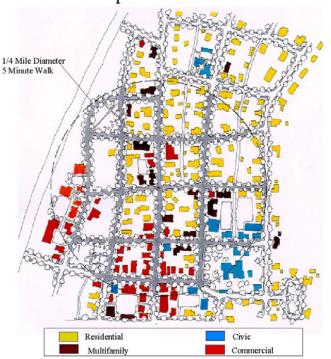
How the Regional Scenarios Compare

All scenarios assume @ 330,000 population and 220,000 employment

Measure / Sustainability Accord	Disp- ersed	Town Ctr	CoreL	CoreM
Pct. Farms and Forests Retain resources/habitat/farms/forests	<i>55</i>	64	65	65
Pct. Developed Retain resources/habitat/farms/forests	45	36	35	35
Pct. Living In Clustered Communities Optimize use/cluster/human scale	13	61	68	68
Pct. Non -auto Trips Transportation Alternatives	4-1	15	18	18
Annual Gallons Gas Consumed (billions) Conserve Energy	155	121	110	114
Pct. Travel Congested Employment / Education Access	-44	27	20	21
Water Quality and Quantity Water Quality and Quantity	Poor R	Good ed/italics-	Good Comparativ	Good ely worst

Nelson County Comp Plan - rural area

Nelson County Comprehensive Plan Rural Small Town Development Model



Small Town

A well-defined center of rural activity that is surrounded by sparsely developed, or sparsely populated rural or agricultural land. The area contains at least several of the following land uses: residential, retail, office, civic, institutional, limited industrial, and park/recreation.

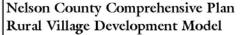
Building Sizes - Building scale should be compatible with exsting buildings.

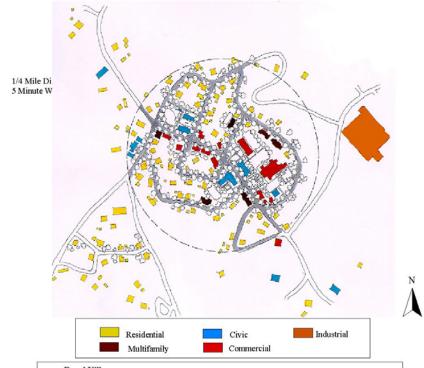
Proximity of Activities and Methods of Transportation - High proximity, balanced travel among automobile, rural transit, bicycling, and walking.

Locational Requirements - Usually at or near a crossroads; sometimes major highways.

Parking Characteristics - A mixture of on-street parking, parking lots, and driveways.

Growth/Change Potential - Relatively stable. However, some areas are facing growth pressures and suburbanization, while others are losing residents. Infill development is encouraged.





Rural Village

A center of rural activity, smaller than a small town, surrounded by sparsely developed, or sparsely populated rural or agricultural land. The area may contain residential, commercial, civic, institutional, or industrial uses.

Building Sizes - Building scale should be compatible with exsting buildings.

Proximity of Activities and Methods of Transportation - Moderate proximity, balanced travel among automobile, rural transit, bicycling, and walking.

Locational Requirements - Located at or near crossroads; sometimes major highways.

Parking Characteristics - A mixture of on-street parking, parking lots, and driveways.

Growth/Change Potential - Relatively stable. However, some areas are facing growth pressures and suburbanization, while others are losing residents.



Focused investment strategy Multimodal corridors Completing the network

Multimodal Investment Strategy

- ☐ Integrated, multimodal T&LU planning
 - Link cities & suburban corridors, growing rural counties, and small towns
- All-hands-on-deck public process
 - Include business and developers
 - Inter-agency collaboration & tech team
 - ☐ Focus on implementing the vision
- Tie to local comprehensive plans & DOT project programming

Multimodal Investment Strategy

- Use projects to demonstrate state-of-the art practices and policy changes
- Voluntary participation using incentives, not mandates
- ☐ Target \$\$ toward strategic solutions
 - Put new \$\$ to work in support of new ideas
 - ☐ Leverage private investment
 - Use public funds to 'connect the dots'

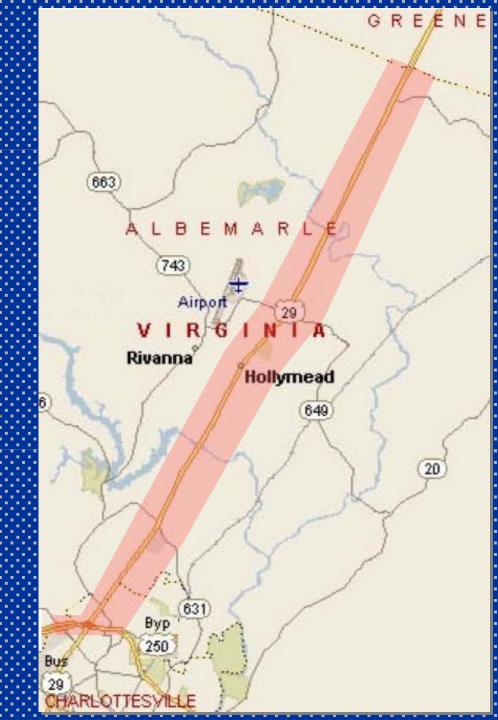
Multimodal Investment Strategy

- Couple high-level strategic direction
 with implementation capabilities of
 existing agency structure
- Select regions for planning \$\$
- Award implementation \$\$ based on:
 - ☐ Feasible multimodal plans
 - ☐ Adopted local land use plans
 - Committed private investment & R.O.W.
 - Complete consensus on priorities

Places 29 & 29N

Places29 combines:

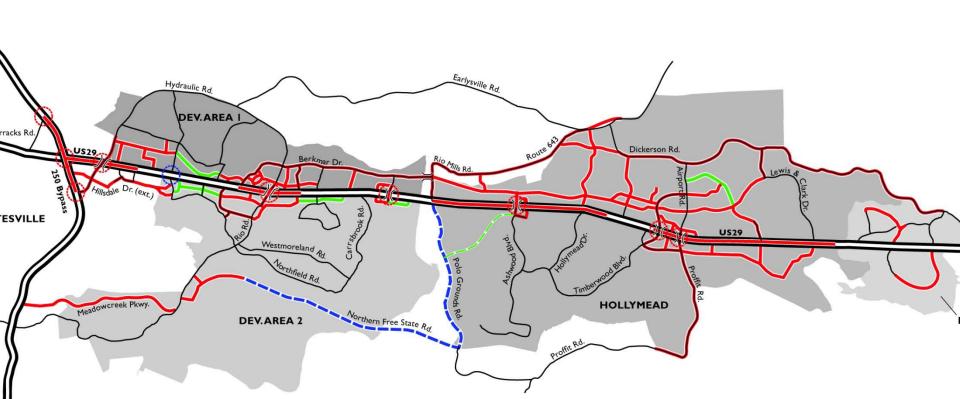
- VDOT & MPO 29N
 Corridor study
- Albemarle County
 Northern Development
 Areas Master Plan
- 29H250 Ph 1&2 Studies-City & County
- Links land use & transportation
- Transit-Ready Development



Places29 Preferred Road Network

Establish Parallel Routes that support performance of corridor Provide Connectivity across US 29 through grade separations in key locations

Framework for bicycle and trails network



US 29 at Hydraulic Existing conditions



US 29 at Hydraulic High-Capacity Boulevard



US 29 - Urban Grade separation



Boulevard goes underneath cross-road - 3 travel lanes each direction with low-speed access ramps

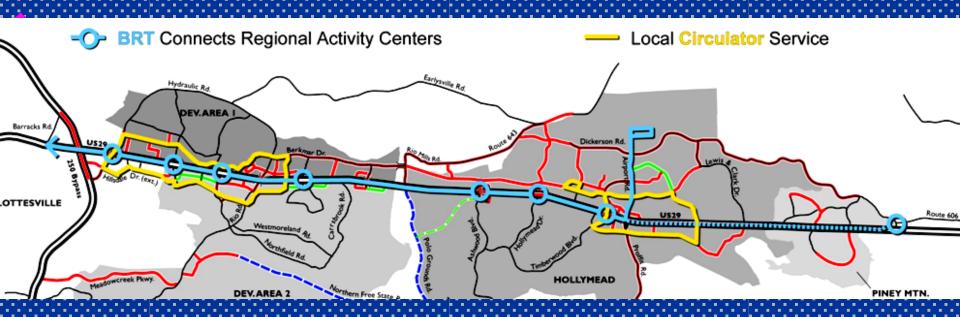
Preferred Network - Transit (Expanded Stage)

Use BRT to connect Regional: Activity Centers

- Employment NGIC, GE Fanuc, UREF
- Airport
- UVA
- Downtown Charlottesville

Provide Circulators in Uptown Area and S. of Rio Road

- Use parallel/frontage roads:
- Link lifestyle/retail destinations
- Allows for wider BRT stop spacing/faster trip time
- Suitable for Modern Streetcar



Bus Rapid Transit (BRT)Multiple doors, low floors, fast boarding







Typical suburban roadway with auto-oriented shopping



Urban grade separation (in distance) and multimodal boulevard – 4 lanes each direction plus turn lanes (with median islands for safety)



Mixed-use infill development on existing aging shopping centers



Additional block-by-block redevelopment provides Transit Targets and enhanced walking and wheeling choices



Additional block-by-block redevelopment provides Transit
Targets and enhanced walking and wheeling choices



Additional block-by-block redevelopment provides Transit
Targets and enhanced walking and wheeling choices

US29 facing south toward Rio Road



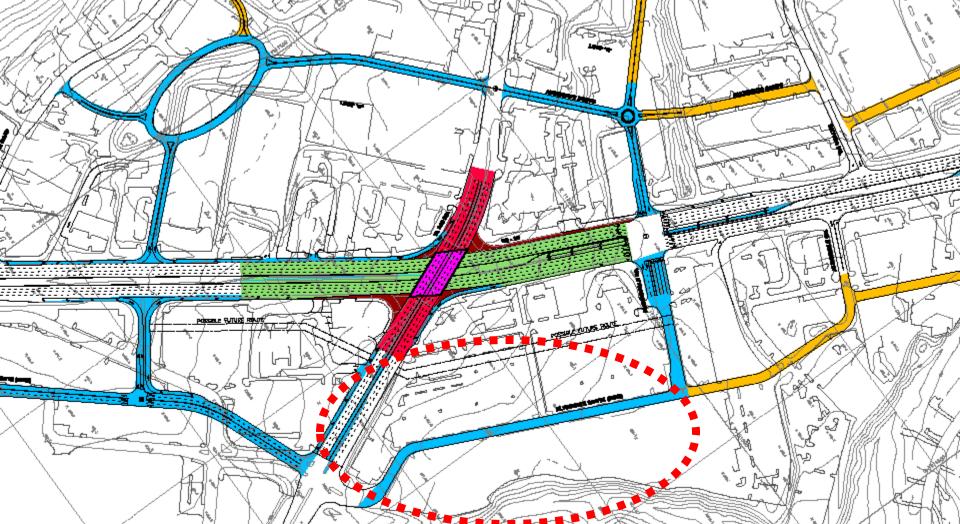
Landscaping matures over time

US29 facing south toward Rio Road



Zoomed in toward grade-separated intersection

Albemarle Square – older shopping center at Rio & 29



Redevelopment as Transit Target Albemarle Square – older shopping center in Midtown



Mixed use/residential infill on under-used parking lot



Redevelopment of existing buildings



Amenities for walkability and interaction



Expansion as market demands



Transit-Ready Development

- Strategies to address how development in greenfield (or redevelopment) sites can:
- Incorporate transit-supportive strategies early on
- Grow into transit-oriented development over time

Transit-Ready Development

- Mixed land uses and diversity of housing types
- Pedestrian-friendly site plan, with generous sidewalks and comfortable transit stops
- A neighborhood street grid (plenty of connections versus cul-de-sacs)
- Transit routes and stops that are
 - incorporated into current development
 - or factored into future plans
- Public and commercial facilities designed as Transit Targets and community focal points

Transit-Ready Development

- Regional transit planning, across jurisdictions
- Developer marketing plans that take advantage of transit-supportive strategies
 - Wide range of housing products
 - One-car (or no-car) families
 - Location-efficient mortgages
- 'Early-action' transit service
 - Commuter coaches, Circulator trolleys

New development – Research Park Typical Suburban Research Park Campus



New development – Research Park Phase & coordinate public/private infrastructure



New development — Research Park Initial phase Transit-Ready, urban block structure



New development – Research Park Infill on surface lots as demand increases



Transforming 'Gasoline Alley' Becoming a Transit-Ready neighborhood center



Transforming 'Gasoline Alley' Medians and pedestrian improvements



Transforming 'Gasoline Alley' Continue public improvements



Transforming 'Gasoline Alley' Mixed-use infill development on individual properties



Transforming 'Gasoline Alley' Continue infill development



Transforming 'Gasoline Alley' Landscape matures over time



Transforming 'Gasoline Alley' Add transit service as market grows



Focused investment strategy

- Review available funds/projects across all partners (inc private)
- Re-purpose \$\$ 'accruing' into multimodal corridor target areas
- Target short-term action:
 - TDM, operational & access, transit & walk-bike improvements, connect-the-dots links to private investment
- Complete the Networks!





Thank you

Harrison Rue hrue@icfi.com (919) 293-1647