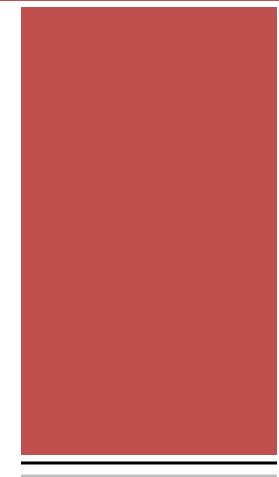
Delivering Infrastructure Who said there was NO Money?

New Partners for Smart Growth Baltimore, MD January 31, 2015

Overview

- Outstanding panel introduction
- Review current state of infrastructure and funding challenges
- Looks toward new directions to address the challenges
 - Private sector perspective
 - Public sector perspective
 - Non-profit sector perspective
- Lessons learned
- Q&A



Jessica Murray

- Head of External Affairs, Infrastructure Development North America, Skanska USA Inc.
- 18 years' experience in the private sector
- Active involvement in PPP development
- Expertise in the areas of
 - Public affairs
 - Community and stakeholder outreach
 - Marketing
 - Corporate communications



Jessica.murray@skanska.com



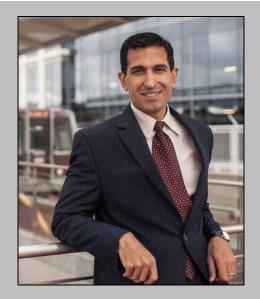
PMorris@atlbeltline.org

Paul Morris

- President and CEO, Atlanta Beltline, Inc.
- 30 year career in private, public and nonprofit sectors
- North American, European and Asian experience
- Strategic consulting in
 - Transportation
 - Infrastructure investment
 - Urban redevelopment
 - Natural resource management
 - Corporate facilities development

Shyam Kannan

- Managing Director, Planning, WMATA
- 12 years in public and private practice
- National and international experience
- Areas of expertise focus on
 - Strategic systems planning
 - Market and economic development
 - Value capture
 - Innovative infrastructure finance



skannan@wmata.org

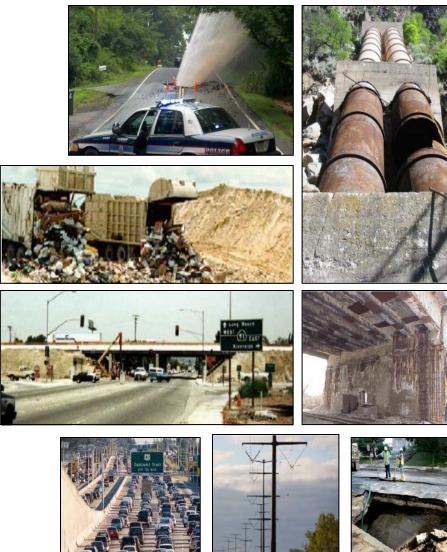
Importance and Value of Infrastructure

- Infrastructure is fundamental to a longterm livability and economic health
- Infrastructure is public in nature, affecting communities and regions
- Infrastructure is in a competitive environment for public funding in an era where there:
 - Are declining revenues
 - Is often a lack of community vision
 - Is indecision on spending priorities



State of Today's Infrastructure

- North America's infrastructure is in decline
- Every sector is affected
 - Transport
 - Energy
 - Water
 - Waste
 - Public realm
 - Information
- Inability to maintain even a state of good repair









ASCE's 2013 Report Card

- 15 categories rated
- Overall grade of D+
- \$3.6 trillion = five year investment need for state of good repair
- US ranked 25th worldwide behind
 - Switzerland
 - Austria
 - Bahrain
 - South Korea
 - United Kingdom

AMERICA'S G.P.A.

Each category was evaluated on the basis of capacity, condition, funding, future need, operation and maintenance, public safety and resilience.

METHODOLOGY >

AVIATION	D	PORTS	C
BRIDGES	C+	PUBLIC PARKS AND RECREATION	C-
DAMS	D	RAIL	C⁺
DRINKING WATER	D	ROADS	D
ENERGY	D+	SCHOOLS	D
HAZARDOUS WASTE	D	SOLID WASTE	B
INLAND WATERWAYS	D-	TRANSIT	D
LEVEES	D-	WASTEWATER	D

Just When You Think the Well is Dry...

- Facilities are aging and deficient
- Construction costs are rising
- Revenues are declining
- Competition for funds is increasing
- So, what do you do when you are finding yourself in such circumstances?
 - Look for "unusual" suspects
 - Seek innovation
 - Insist on performance measures
 - Share rewards and manage risks



SO, HOW CAN WE REACH THE INFRASTRUCTURE OF TOMORROW?



Make an Attitude Adjustment...

"We knew we couldn't do all of this just with sales tax revenue. So we could either sit back and point fingers and say why we couldn't get these projects done, or we could go to the private sector, explain our situation and ask them to help."

Phillip Washington, General Manager Regional Transit District (Denver)







The PPP Market – An Innovative Approach to Finance

Jessica Murray, Skanska USA

Oculus, World Trade Center, New York, U.S.



Skanska AB

- Founded 1887 in Sweden
- Listed on the Stockholm
 Stock Exchange
- 2013 revenues: USD 21 billion
- Fortune 500 Company
- 57,000 employees
- 10,000 ongoing projects

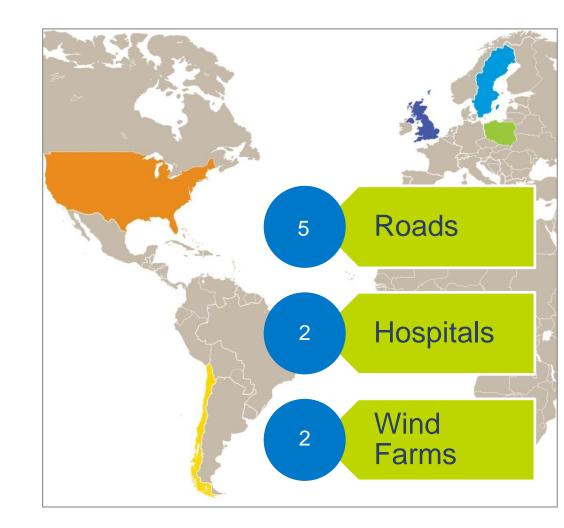


Skanska USA

- ENR: 4th largest contractor on revenue
 - \$6.7 billion
 - Ranked 2nd in General Building
 - 3rd largest Heavy Building Contractor
 - 9,600 US employees
- Four Business Streams:
 - Civil Construction
 - Commercial Construction
 - Commercial Development
 - Infrastructure Development

Infrastructure Development

- 110 employees
- 31 projects in9 countries (historic)
- Current portfolio of 9
 P3 projects
- Committed equity \$600M; total construction costs of \$7billion
- U.S. headquarters in Washington, D.C.
- #1 growth market



Elizabeth River Tunnels

Construction of new tunnel

Maintenance and safety improvements to existing tunnels

Interchange modifications in Norfolk and extension of MLK Freeway in Portsmouth

\$2.1 B total project value~6 year construction58 year concession

Equity: Skanska, Macquarie

Construction: Skanska, Kiewit, Lane Elizabeth River Tunnels

Operated by: erc

Interstate 4 Ultimate – Florida

21-mile highway replacement with tolled managed lanes through heart of Orlando

\$2.3 B total project value~7 year construction40 year concession

Equity: Skanska, John Laing

Construction: Skanska, Granite, Lane



US Public Private Partnerships -How do they work?

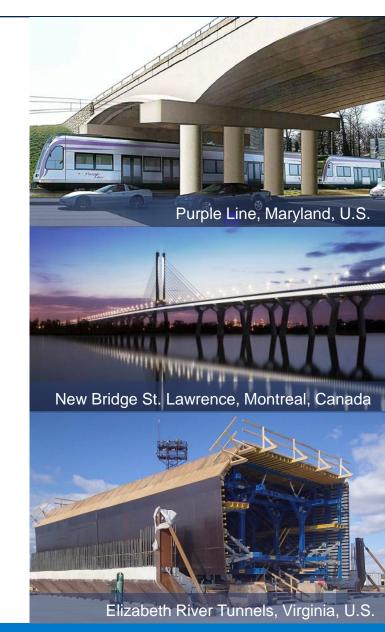
Concession agreement with a public client in which a consortium of private companies develops, constructs, operates, and maintains a project – such as a toll road or bridge or hospital – and is responsible for implementing debt and equity project financing

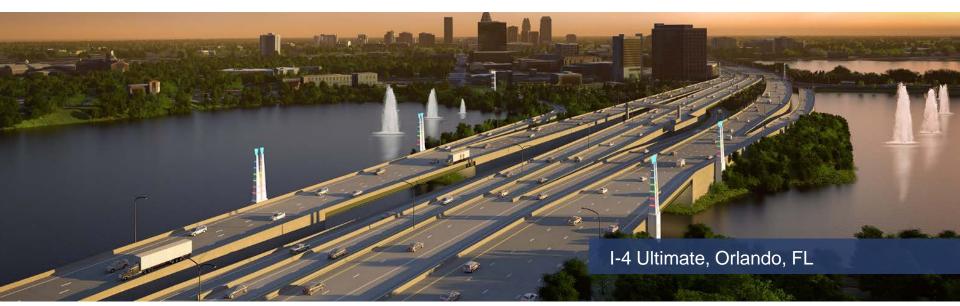
What is a P3?

- A procurement method for large capital projects that features:
 - Transfer of major project risks from the public to the private sector
 - Performance-based scope
 - Usually competitive bid process
- Involves a long-term contractual partnership among:
 - Government entities
 - Private investors/Developers/Lenders
 - Construction firms, Operating companies
 - Asset & Operations managers
- Requires a long-term repayment stream
 - User fee (tolls)
 - Annual "availability" payment from the government client
 - Alternative revenue streams depending non asset class
- Asset reverts to public sector at end of concession at zero cost
 - Typical concession length is 25-50 years, as long as 100

PPP Market Drivers

- National infrastructure crisis, need to upgrade and build new capacity
- Large budget deficits, balance sheet constraints
- Public debt limitations
- Leveraging limited public funds with private investment
- Growing urban population
- Growing support of user-based tolls over new taxes





What kind of infrastructure?

Airports Hospitals Schools Government buildings Street Lighting Wind farms Highways Bridges Tunnels Railways Power plants Wastewater plants

Benefits to government clients

- Risk Transfer!
- Performance-based spec allows for innovation
- Asset lifecycle planned for from inception
- (Potentially) faster project delivery
- High standards of maintenance and operation set by public sector
- Fixed-price, date certain construction
- The asset is handed back in excellent condition at the end of the contract



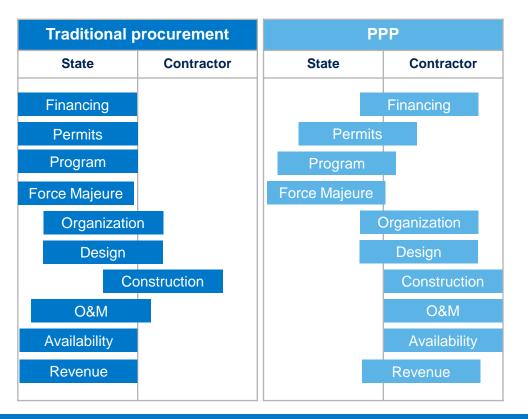
Benefits to users

- Access to better infrastructure for living, traveling and working
- Infrastructure maintained in top condition throughout its life
- Politicians can't mess with your infrastructure funding (as much)
- Infrastructure is delivered in advance of its economic costs



Optimized allocation of risks

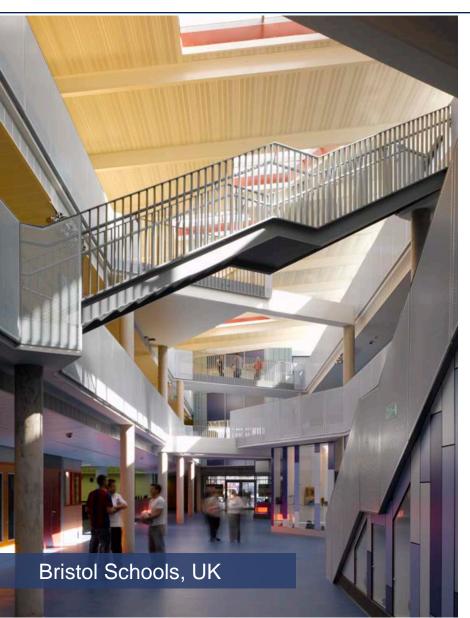
The party best suited to assess, manage, and price the risk should also be harboring the risk





Two principal compensation models

	Availability model	Market risk model
Compensation/Revenue	Predetermined, contractually agreed	End-user fees and market based
Project company's responsibility/rights	Responsible for providing availability and service to an agreed standard	Right to collect end-user fees e.g. toll-road usage
Normal capital structure	5–10% equity	20–40% equity
Location	Mainly U.S., Europe, Canada	Mainly Latin America, Quebec



Challenges to the P3 Model

- Enabling legislation and political will
- Upfront cost
- Education of clients, clients' advisors, stakeholders
- Clear standards of evaluation
- The inertia of short-term thinking
- Environmental & Sustainability
- Quality/Price

U.S. Market Assessment

- New states, sectors, opportunities in play
 - -~33 states with legislation
 - Social market is warming up in addition to transportation
- Several attractive projects coming to market
- Growing, intense competition
- Aspects of PPP remain controversial
- Market Leaders
 - Virginia, Florida, Texas, California, Colorado, Indiana



U.S. Market Assessment

- Federal Highway Trust extended till May 2015
- Support from administration on Build America Initiatives and PPP
 - Investing in Drinking Water and Wastewater Systems through a new Center at EPA
 - Driving Investment to Rural America via a New USDA Rural Opportunity Investment Initiative
 - Implementation of Qualified Public Infrastructure Bonds (QPIB)
- At the state and local level, political will to protect/drive PPP remains mixed





Clearly a need to strengthen U.S. infrastructure

PPP momentum growing nationwide

Robust pipeline and growing rapidly

New states, sectors evolving daily

Political will is the ultimate driver

The money is there for the right projects



Washington Metropolitan Area Transit Authority

Alternative Financing Options for Mature Transit Systems

New Partners for Smart Growth

January 31, 2015

Rebuilding the Foundation

Metro Forward: \$5 billion, six-year investment program





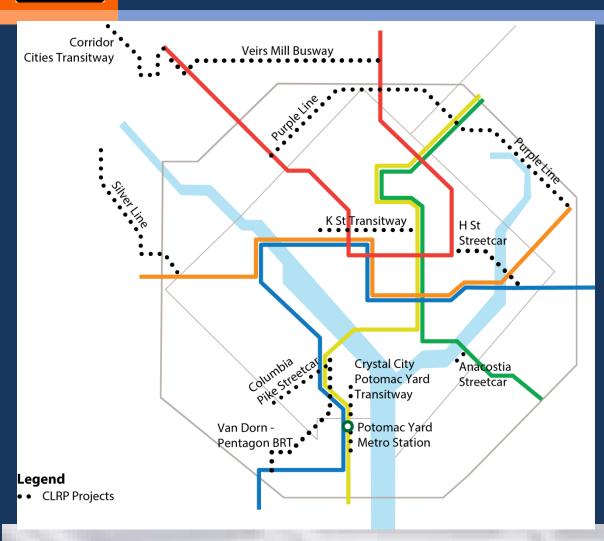
What If We Do Nothing?

- More delays, service disruptions and crowded conditions
- More congested highways as regional growth will outpace Metro investment
- Reduced overall quality of life
- Harms region's competitive advantage –talent, jobs, and investment dollars





What If We Do Nothing?



Metro is integral to the success of the region's current transit investments.

If these projects get built and Metro cannot keep up with growth, do they deliver as promised?



metro

Animation...

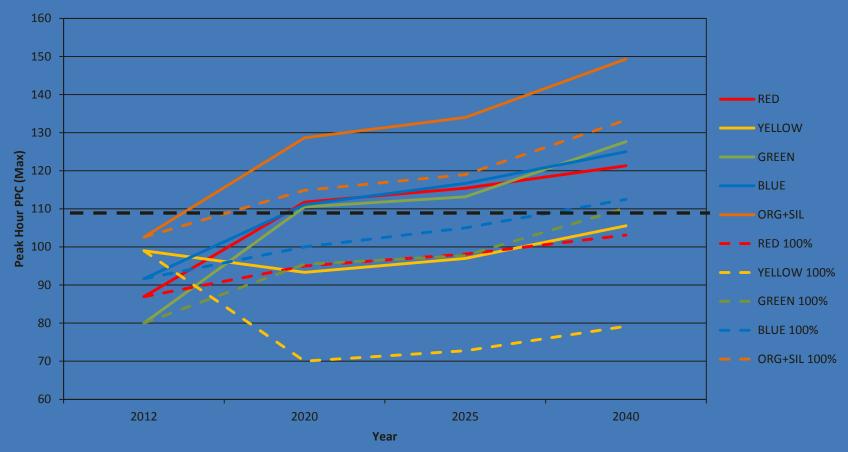
Forecast Metrorail Crowding

AM Peak, 2014 - 2030



With Eight-Car Trains

Estimates for Crowding across All Lines with and without 100 Percent 8-car Trains



Momentum Delivers Metro 2025



Longest possible trains to provide more seats

More cars + power improvements and maintenance facilities to operate all 8-car trains during rush hours



Improved flow through major stations

More escalators, stairs and mezzanine space added at transfer Stations to accommodate more riders more comfortably



More reliable, faster bus service

Bus-only lanes along major corridors, additional limited-stop and express service, and more buses will upgrade bus service

Momentum Delivers Metro 2025



More timely, reliable customer information

Metro will provide a network for region-wide transit information and fare collection, giving customers information when and how they want it



Improve reliability of rail system

New connections will allow trains to more easily be routed around delays and get back on-time more quickly



Increase rush hour service on the Blue Line

New track connections or a new station at Rosslyn will allow for more frequent Blue Line service during rush hours



How easy is it to apply alternative financing and funding mechanisms to existing systems?





Convened Thought Leaders Expertise

- Banking/Finance on public-private partnerships
- Academia on value capture and real estate economics
- Peer agencies on enhanced leverage
- Operators on previous experience/lessons learned





Summary of Panel Discussions

- Funding and financing not synonymous
- No "new money" via mechanisms
- Applying tools to existing integrated system poses challenges
- TIFIA becoming less and less attractive
- All mechanisms require recurring predictable revenue streams
- Metro's cost inflation presents jurisdictional challenges



Alternative Mechanisms Explored

- Public-Private Partnerships (P3)
- Real Estate Value Capture
- Infrastructure Bank
- Station Adoption
- Regional Sales Tax
- Enhanced Debt Instruments



CREATIVE CAPITAL + METRO

ALTERNATIVE FINANCING FOR METRO 2025

WMATA's Momentum necessitates strategic investments in seven capital projects to support the region's growth over the next decade and beyond. Connecting the capital program to ways of paying for the investments may require innovative thinking and new financial tools.



National Precedents

Agency or Jurisdiction	Mechanism		
NJ Transit's Hudson-Bergen Light Rail Line	Public-Private Partnership		
Charlotte, NC Commuter Rail 'Red Line'	Value Capture		
Fairfax County's Dulles Rail Transportation Improvement District	Station Area Tax District		
California's Infrastructure and Economic Development Bank	Infrastructure Bank		
Los Angeles County's Measure R	Regional Sales Tax		



Mechanisms' Pros & Cons

Public Private Partnerships (P3)

- + Initial private capital equity to supplement public funds
- + Risk transfer to the private partner
- + Incentive for state of good repair by partner



- Requirement of a steady fund flow to repay partner

<u>Metro 2025 Application</u>: Red Line, Metrobus Priority Corridor Network



Mechanisms' Pros & Cons

Value Capture or Property Tax within Station Areas
+ Strong relationship to certain Metro 2025 projects
+ Allows partners to invest in "local" projects

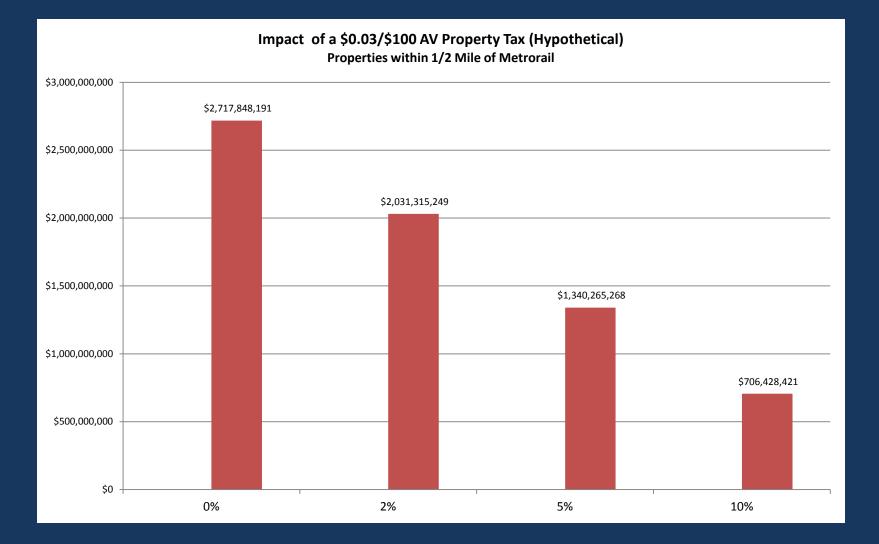


- Difficulty of capital financing based on TIF revenue
- Overlap of jurisdictions' established value capture
- Less powerful in areas where land is already developed

Metro 2025 Application: Core Stations, Passageways



System-Wide Value Capture





Mechanisms' Pros & Cons

Infrastructure Bank

- + Large-sum of upfront capital
- + Hybrid bank Private sector contributions



- Requirement of a revenue base of taxes and/or fees
- Possibility of insufficient revenues
- Hybrid bank Highly complex investment agreements

Metro 2025 Application: None



Mechanisms' Pros & Cons

Station Adoption

+ Enhancements and improvements via local organization

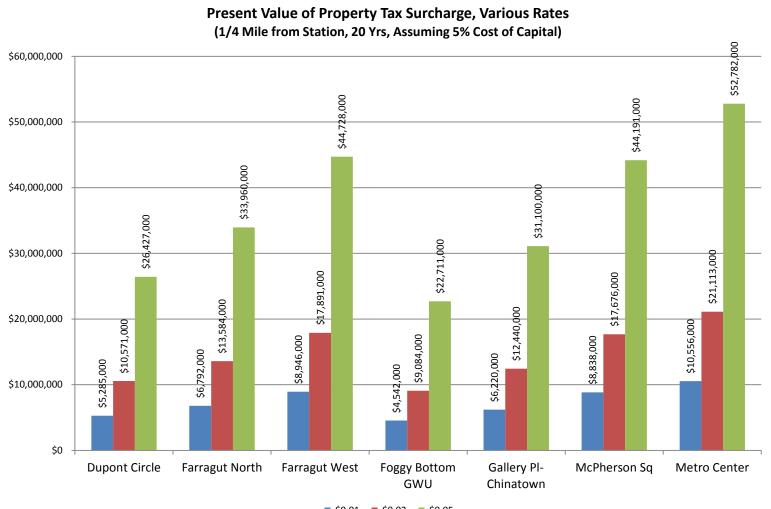


- Constraints of Metro safety and security protocols
- Possible restrictions of Metro labor agreements
- Diversion of current advertising revenue to the partner

Metro 2025 Application: Core Stations



Station Area Value Capture



\$0.01 \$0.02 \$0.05



Mechanisms' Pros & Cons

Regional Sales Tax

- + Ability to piggyback on existing mechanisms
- + Generation of significant revenues
- + Relative stability year-to-year, though subject to cycles



Difficulty to revisit major transportation funding

Metro 2025 Application: All seven initiatives



Potential Mechanisms for Metro 2025

Metro 2025 Initiative	Public-Private Partnerships	Value Capture or Station-Area Tax Districts	Infrastructure Bank	Station Adoption Programs	Supplemental Regional Sales Tax	
100% Eight Car Trains				\bigcirc		High
Core Station Improvements						
Metrobus Priority Corridor Network						Medium
New Blue Line Connections						Low
Next Generation Communications	\bigcirc	\bigcirc		\bigcirc		None
Bus Fleet Expansion		\bigcirc		\bigcirc		
Pocket Tracks		\bigcirc		\bigcirc		



// The Atlanta BeltLine & Public Private Partnerships New Partners for Smart Growth Conference

1/16/2015

// Where is the Atlanta BeltLine?



- In the heart of the Atlanta region
- Brings together many of Atlanta's cultural destinations
- Connects four historic abandoned freight rail rights of way encircling the center of town



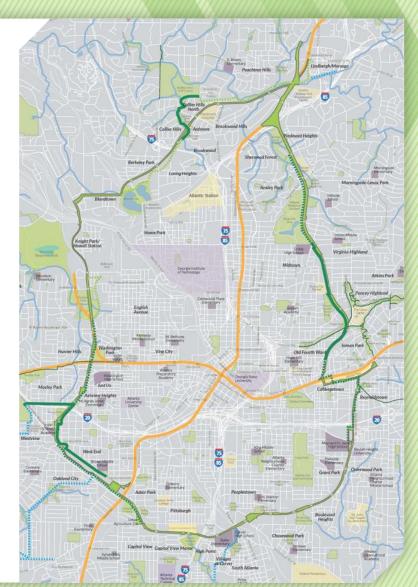


// What is the Atlanta BeltLine?



- Connects 45 neighborhoods
- 22% of City of Atlanta population lives in the planning area
- 19% of the City's land mass is inside the planning area
- 40% increase in Atlanta's parkland
- 6,500 acre TAD

1/16/2015



// The Atlanta BeltLine: Key Elements







1,300 ACRES of New Greenspace (w/700 ADDITIONAL ACRES REBUILT)

33 MILES of Trails

5,600 UNITS of Affordable Workforce Housing (AS PART OF 30,000 TOTAL UNITS)

Corridor-wide Historic Preservation, Public Art and Arboretum





22 MILES of Transit & Transportation Infrastructure

46 MILES Streetscapes & Complete Streets

30,000 JOBS & \$10-20B Economic Development

> 1,100 ACRES of Environmental Clean-up

Atlanta BeltLine // © 2014

// The Plan for Engagement

1/16/2015





// Funding Partners

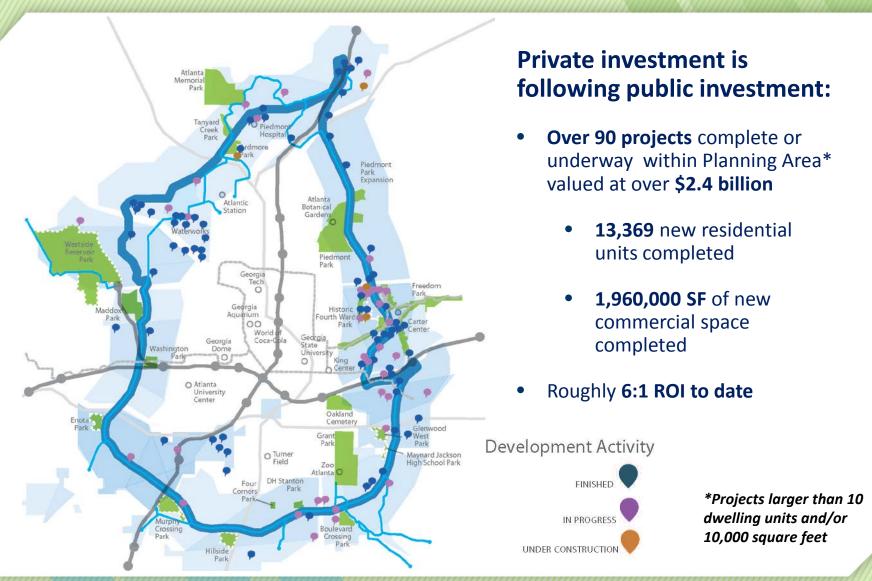
1/16/2015





// Economic Impacts Development Activity to Date





// ROI - Eastside Trail





- **\$13 million** post purchase project cost (design + construction) with <u>\$5 million</u> contribution from private donors
- **\$775 million** in new private development within half a mile of this segment of the Atlanta BeltLine



// Eastside Trail – Before





// Eastside Trail – After





// Historic Fourth Ward Park: Before





// Historic Fourth Ward Park – After



Cardlytics

\$50 million total project cost.

 \$400 million in new private development within a block of park

// Housing Background and Framework



Goal:

- Create a mix of housing for a variety and mix of incomes and household types
- 30,000 total additional housing units
- 5,600 affordable workforce housing units

1st Generation (2009-2014)

- \$8.8M Trust Fund capitalized
 - Down Payment Assistance
 - Incentives for Developers
 - Property Acquisition
- ABI and Invest Atlanta created over 900 affordable units to date.



// New Housing Partnership Approach

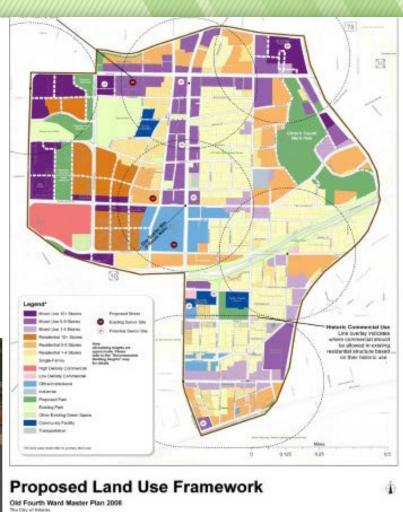
A. Land Use and Entitlement

- Master Plans
- Proactive Rezoning
- Sponsored rezoning

B. Incentives / Gap Financing

- Ponce City Market
- Boynton Village Apartments





Atlanta BeltLine

TSW DPCD

September 2: 2008

// Land Acquisition & Development



- State Farmer's Market
- Masquerade

1/16/2015

- **D. Vertical Development**
 - Lofts at Reynoldstown Crossing





Atlanta BeltLine

// Options for the Future



• Community Improvement District (CID)

- Façade Improvements
- Street Scaping
- Public Safety
- Infrastructure Improvements
- Excellent Public Private Partners

• Special Service District (SSD)

- Includes residential properties
- Maintenance and improvements to community property
- Provides community services
- Defrays the administrative costs connected to these activities

// Legislation: Georgia's Redevelopment Powers Act





- Updates state law to allow surface transportation projects in urban redevelopment areas
- Broadly defines surface transportation projects to include related facilities, systems, parks, trails, streets, greenspace
- Provides framework for executing public contracts with private enterprises to complete these projects
- Lays out requirements for procurement, bond issuance, public engagement



in

// Thank You

Beltline.org @AtlantaBeltLine

2



Delivering Infrastructure Who said there was NO Money?

Q&A

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