



LEED FOR PLANNERS

OCT 2009



What is LEED ND

- Overview
- History

LEED ND Rating System

- Smart location and linkage
- Neighborhood Pattern and Design
- Green Infrastructure and Buildings
- Innovation and Design Process

Project Example

- Greenline



LEED ND OVERVIEW

ORIGINS AND HISTORY

- Combines elements of Smart Growth, New urbanism and Green Building
- Collaborative effort by CNU, USGBC and NRDC
- 2007 first draft of LEED ND
- 2008 LEED ND Pilot projects
- 2009 CNU Voted for approval. USGBC Vote pending.



source: www.cnu.org



238 projects from 39 states and 6 countries were submitted for the LEED pilot program.

RATING SYSTEM

▪ Smart location and linkage	27
▪ Neighborhood pattern and design	44
▪ Green infrastructure and buildings	29
▪ Innovation and design process	10
TOTAL	110



SMART LOCATION AND LINKAGE

Yes ? No

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Smart Location & Linkage

27 Points Possible

Y	Prereq 1	Smart Location	Required
Y	Prereq 2	Imperiled Species and Ecological Communities	Required
Y	Prereq 3	Wetland and Water Body Conservation	Required
Y	Prereq 4	Agricultural Land Conservation	Required
Y	Prereq 5	Floodplain Avoidance	Required
	Credit 1	Preferred Locations	10
	Credit 2	Brownfield Redevelopment	2
	Credit 3	Locations with Reduced Automobile Dependence	7
	Credit 4	Bicycle Network and Storage	1
	Credit 5	Housing and Jobs Proximity	3
	Credit 6	Steep Slope Protection	1
	Credit 7	Site Design for Habitat or Wetland/Water Body Conservation	1
	Credit 8	Restoration of Habitat or Wetlands/Water Bodies	1
	Credit 9	Long-Term Conservation Management of Habitat or Wetlands/Water Bodies	1

SMART LOCATION AND LINKAGE

CREDIT 1: PREFERRED LOCATION

Maximum of 10 points

- Location Type (5 possible points)

And/or

- Connectivity (5 possible points)

And/or

- Designated High Priority Locations (3 points)



source: <http://projects.ajc.com/gallery/view/metro/70s-scenes/36.html>

NEIGHBORHOOD PATTERN AND DESIGN

Yes	?	No		Neighborhood Pattern & Design	44 Points Possible
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Y			Prereq 1	Walkable Streets	Required
Y			Prereq 2	Compact Development	Required
Y			Prereq 3	Connected and Open Community	Required
			Credit 1	Walkable Streets	12
			Credit 2	Compact Development	6
			Credit 3	Mixed-Use Neighborhood Centers	4
			Credit 4	Mixed-Income Diverse Communities	7
			Credit 5	Reduced Parking Footprint	1
			Credit 6	Street Network	2
			Credit 7	Transit Facilities	1
			Credit 8	Transportation Demand Management	2
			Credit 9	Access to Civic & Public Spaces	1
			Credit 10	Access to Recreation Facilities	1
			Credit 11	Visitability and Universal Design	1
			Credit 12	Community Outreach and Involvement	2
			Credit 13	Local Food Production	1
			Credit 14	Tree-Lined and Shaded Streets	2
			Credit 15	Neighborhood Schools	1

NEIGHBORHOOD PATTERN AND DESIGN

CREDIT 1: WALKABLE STREETS

Maximum of 12 points

CREDIT 2: COMPACT DEVELOPMENT

Maximum of 6 points

CREDIT 4: MIXED INCOME DIVERSE COMMUNITES

Maximum of 7 points



by Matthew Blackett source: www.flickr.com/photos/spacing

GREEN INFRASTRUCTURE AND BUILDINGS

Yes ? No

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Green Infrastructure & Buildings

29 Points Possible

Y			Prereq 1	Certified Green Building	Required
Y			Prereq 2	Minimum Building Energy Efficiency	Required
Y			Prereq 3	Minimum Building Water Efficiency	Required
Y			Prereq 4	Construction Activity Pollution Prevention	Required
			Credit 1	Certified Green Buildings	5
			Credit 2	Building Energy Efficiency	2
			Credit 3	Building Water Efficiency	1
			Credit 4	Water Efficient Landscaping	1
			Credit 5	Existing Building Use	1
			Credit 6	Historic Resource Preservation and Adaptive Reuse	1
			Credit 7	Minimize Site Disturbance in Design and Construction	1
			Credit 8	Stormwater Management	4
			Credit 9	Heat Island Reduction	1
			Credit 10	Solar Orientation	1
			Credit 11	On-Site Renewable Energy Sources	3
			Credit 12	District Heating and Cooling	2
			Credit 13	Infrastructure Energy Efficiency	1
			Credit 14	Wastewater Management	2
			Credit 15	Recycled Content in Infrastructure	1
			Credit 16	Solid Waste Management Infrastructure	1
			Credit 17	Light Pollution Reduction	1

GREEN INFRASTRUCTURE AND BUILDINGS

CREDIT 1: CERTIFIED GREEN BUILDINGS

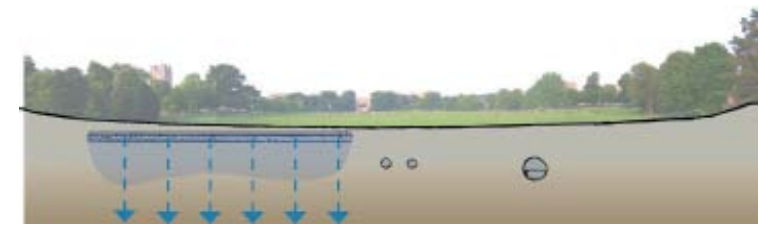
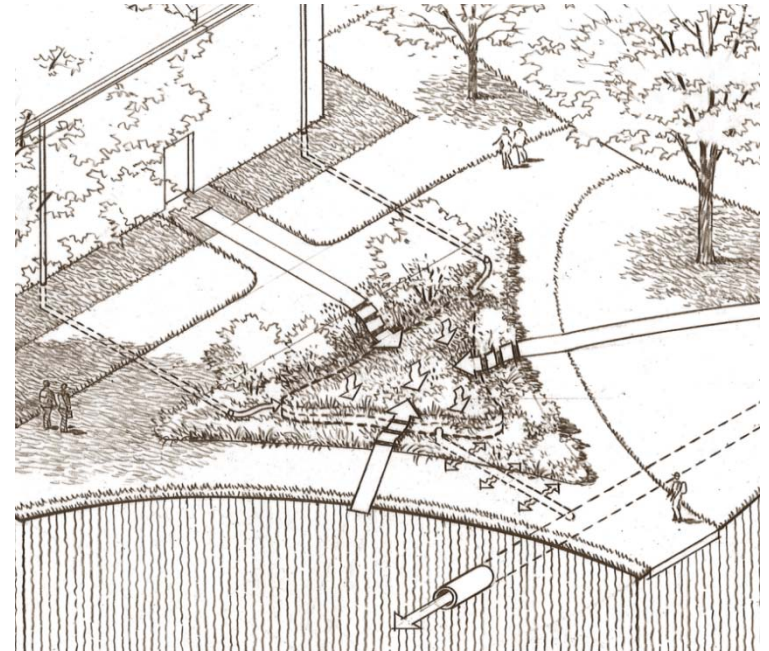
Maximum of 5 points

CREDIT 7: STORMWATER MANAGEMENT

Maximum of 4 points

CREDIT 11: ONSITE RENEWABLE ENERGY RESOURCES

Maximum of 3 points



INNOVATION AND DESIGN PROCESS

Yes ? No

Innovation & Design Process 6 Points

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Credit 1.1	Innovation in Design: Provide Specific Title	1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Credit 1.2	Innovation in Design: Provide Specific Title	1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Credit 1.3	Innovation in Design: Provide Specific Title	1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Credit 1.4	Innovation in Design: Provide Specific Title	1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Credit 1.5	Innovation in Design: Provide Specific Title	1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Credit 2	LEED® Accredited Professional	1

Yes ? No

Regional Priority Credits 4 Points

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Credit 1.1	Regional Priority Credit: Region Defined	1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Credit 1.2	Regional Priority Credit: Region Defined	1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Credit 1.3	Regional Priority Credit: Region Defined	1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Credit 1.4	Regional Priority Credit: Region Defined	1

Yes ? No

Project Totals (Certification estimates) 110 Points

Certified: 40-49 points, **Silver:** 50-59 points, **Gold:** 60-79 points, **Platinum:** 80+ points

INNOVATION AND DESIGN PROCESS

INNOVATION CREDITS

Maximum of 6 points

REGIONAL PRIORITY CREDITS

Maximum of 4 points



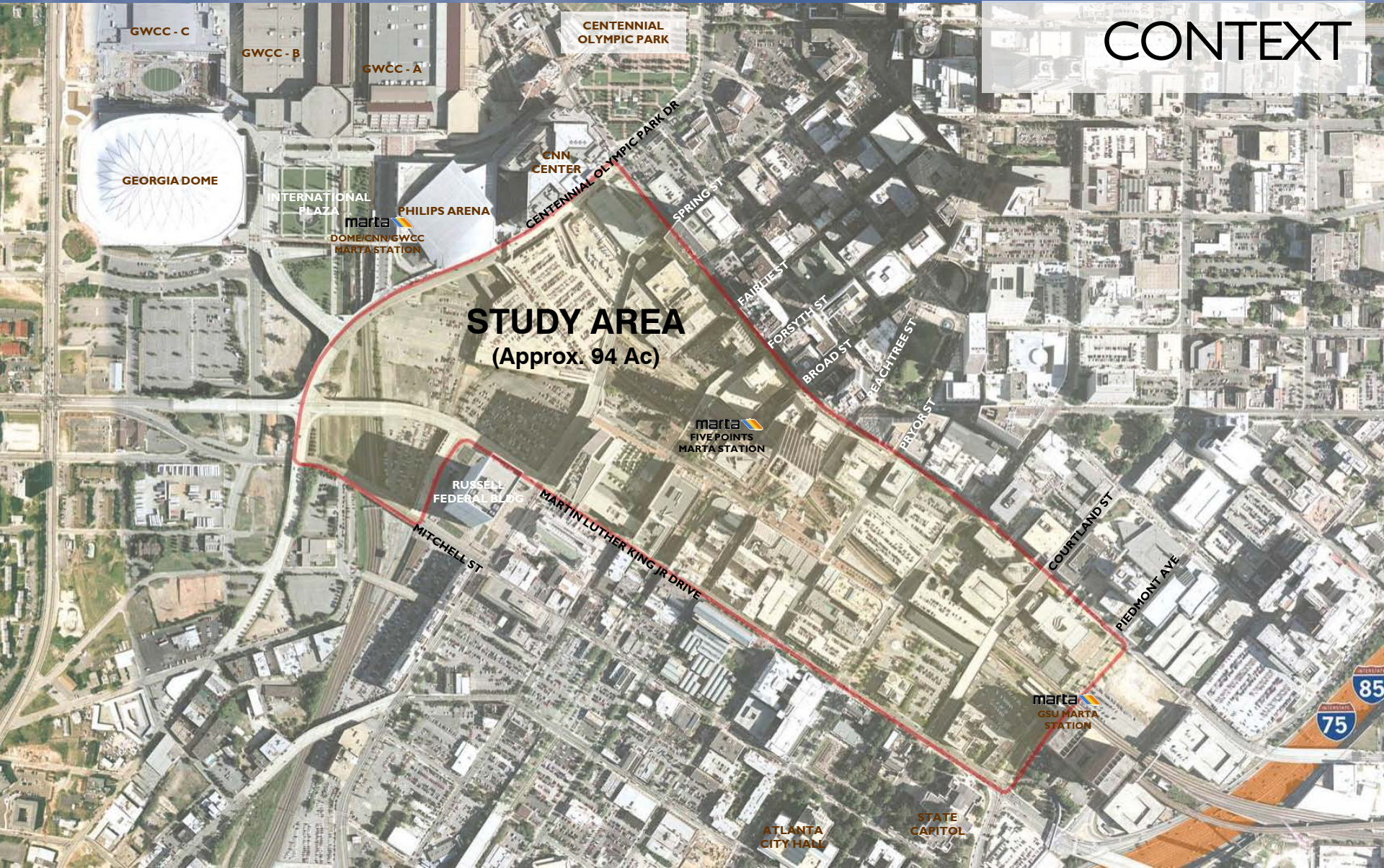
<http://gapellet.brinkster.net/southeast%20usa.gif>

PROJECT EXAMPLE

GREENLINE

Potential LEED ND Project





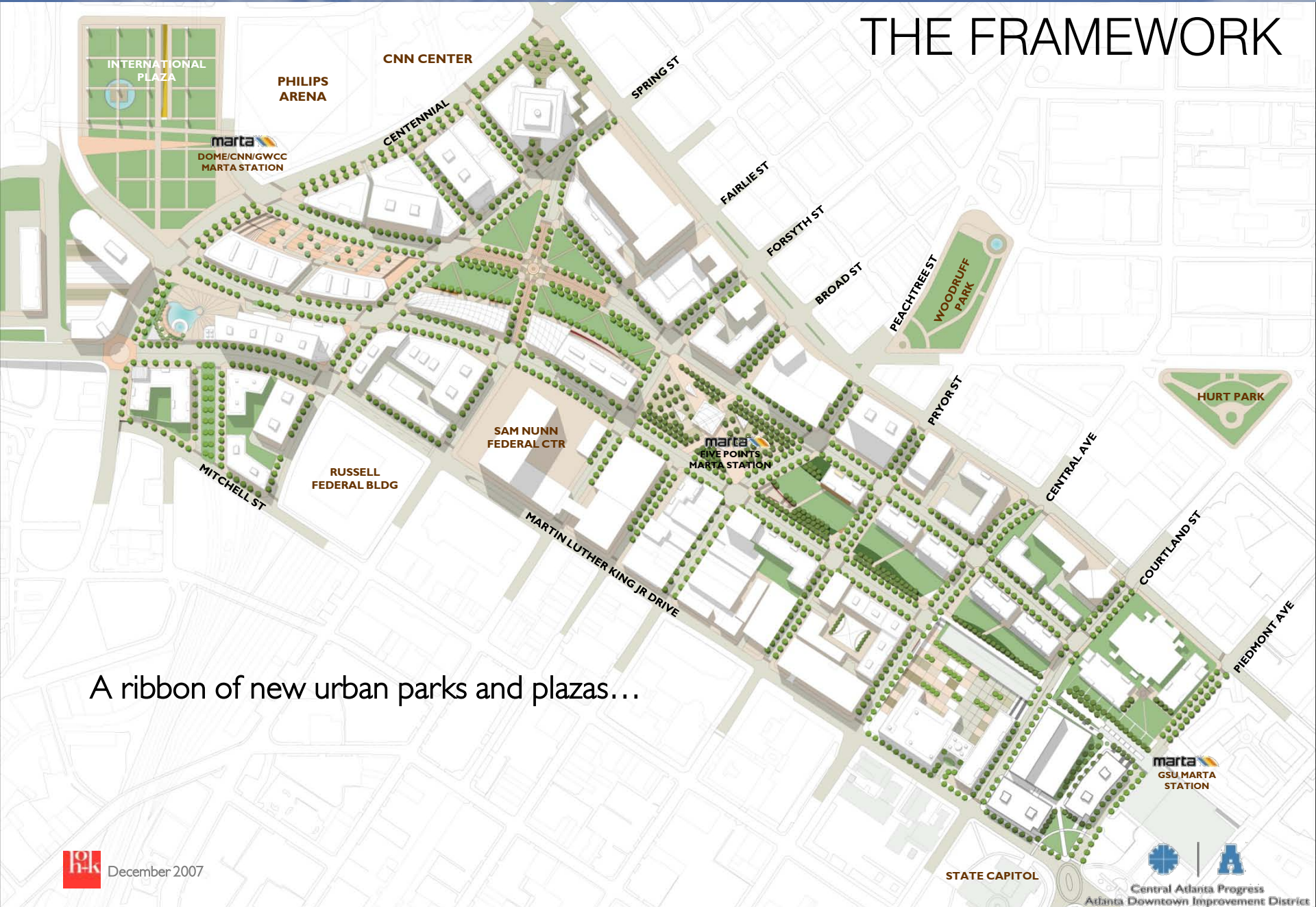
STUDY AREA
(Approx. 94 Ac)



THE VISION

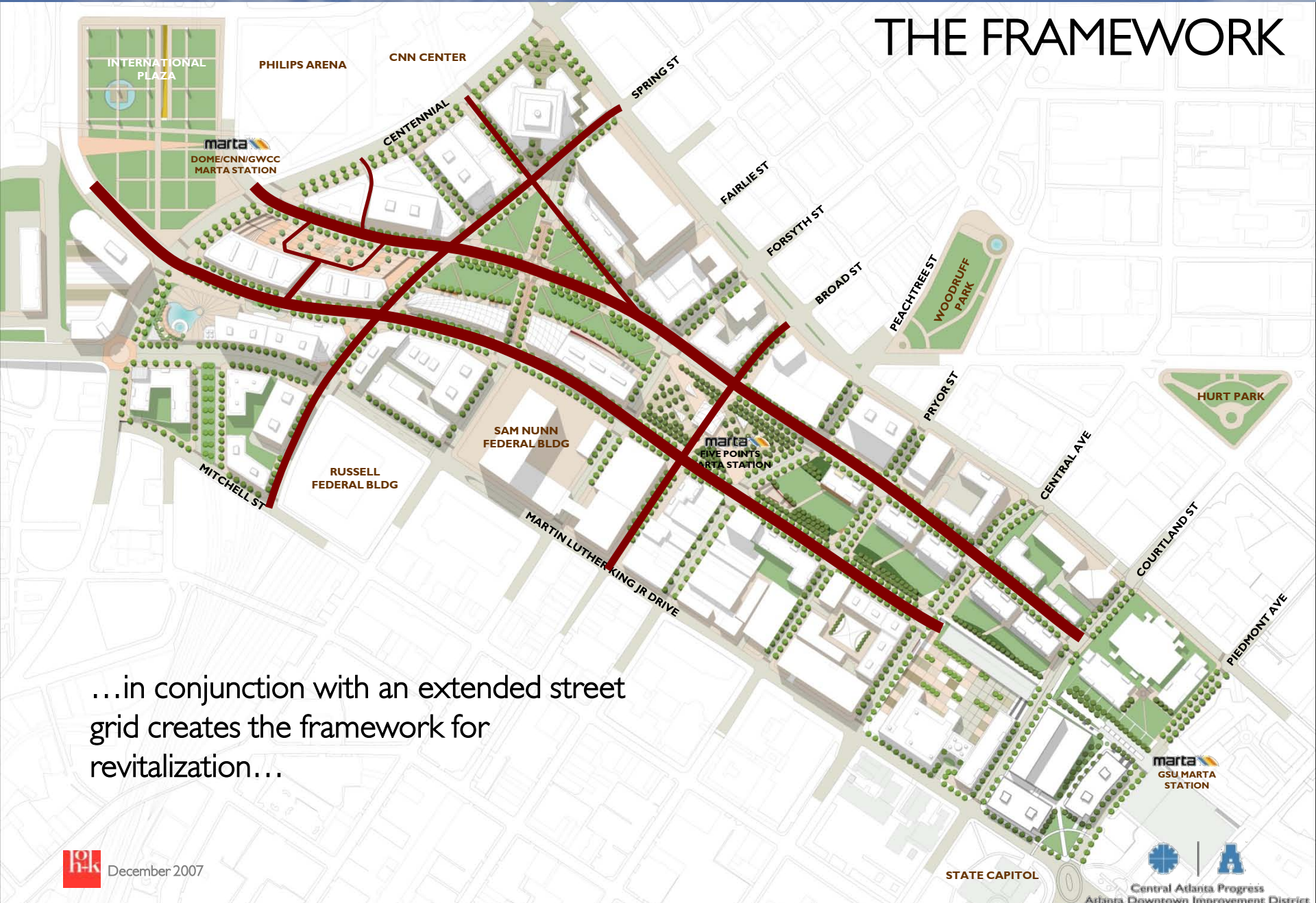
- ~ To create a plan that stitches the city back together
- ~ Create a plan that provides for a safe, walkable, bicycle-pedestrian friendly environment
- ~ Create value by providing amenity & recreational spaces
- ~ Create a development that provides economic benefit and rejuvenates downtown Atlanta

THE FRAMEWORK

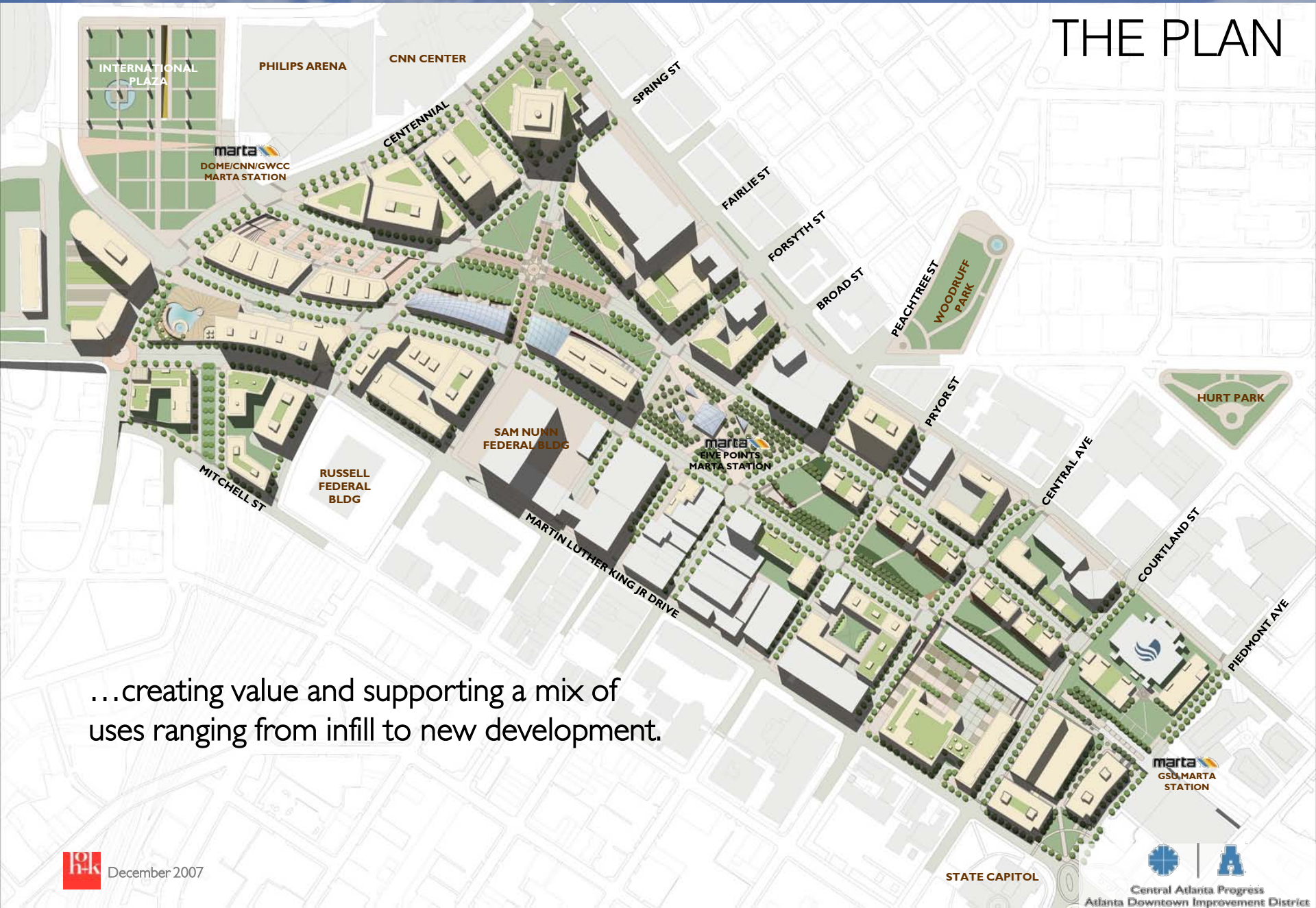


A ribbon of new urban parks and plazas...

THE FRAMEWORK



...in conjunction with an extended street grid creates the framework for revitalization...



...creating value and supporting a mix of uses ranging from infill to new development.

GREENLINE

Summary of potential credits:

Smart location and linkage	20
Neighborhood pattern and design	21
Green infrastructure and buildings	8
Innovation and design process	2

LEED ND Silver



LEED ND FOR LOCAL GOVERNMENTS

Uses for Local Governments

- Evaluate current policies and practices
- Basis for structural incentives
- Basis for financial incentives



LEED ND FOR LOCAL GOVERNMENTS

Evaluate current policies and practices

- Analyze existing zoning codes
- Identify obstacles to sustainable development
- Helpful in achieving community goals
- Informs macro level planning issues

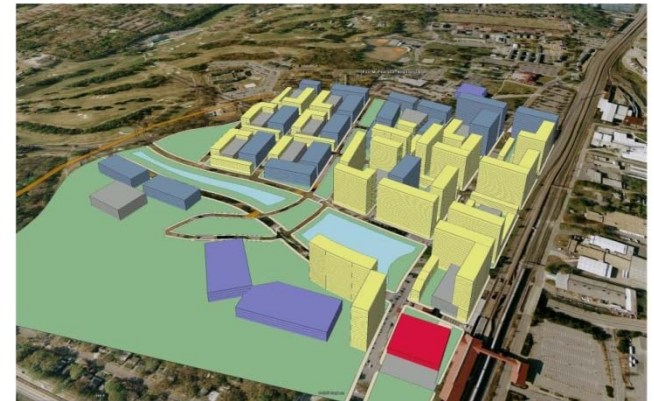


<http://www.sehinc.com/online/winona-co/images/zoning-standards.gif>

LEED ND FOR LOCAL GOVERNMENTS

Basis for Structural incentives

- Density and Height bonuses
- Expedited and streamlined approval
- Preference on development of publicly owned lands



LEED ND FOR LOCAL GOVERNMENTS

Basis for financial incentives

- Tax credits or abatements
- Reduced permitting fees
- TIF/TAD district definition



http://farm1.static.flickr.com/68/179459831_9a366049ae.jpg

LEED ND FOR LOCAL GOVERNMENTS

Further information

www.usgbc.org

www.cnu.org

www.nrdc.org

Chirayu Bhatt, AICP, LEED AP®

HOK

chirayu.bhatt@hok.com



Thank you