



2008 NATIONAL CONGRESS OF THE AUSTRALIAN COUNCIL FOR NEW URBANISM

6th – 9th February, 2008

new urbanists producing:
diamonds
in the sea of sprawl

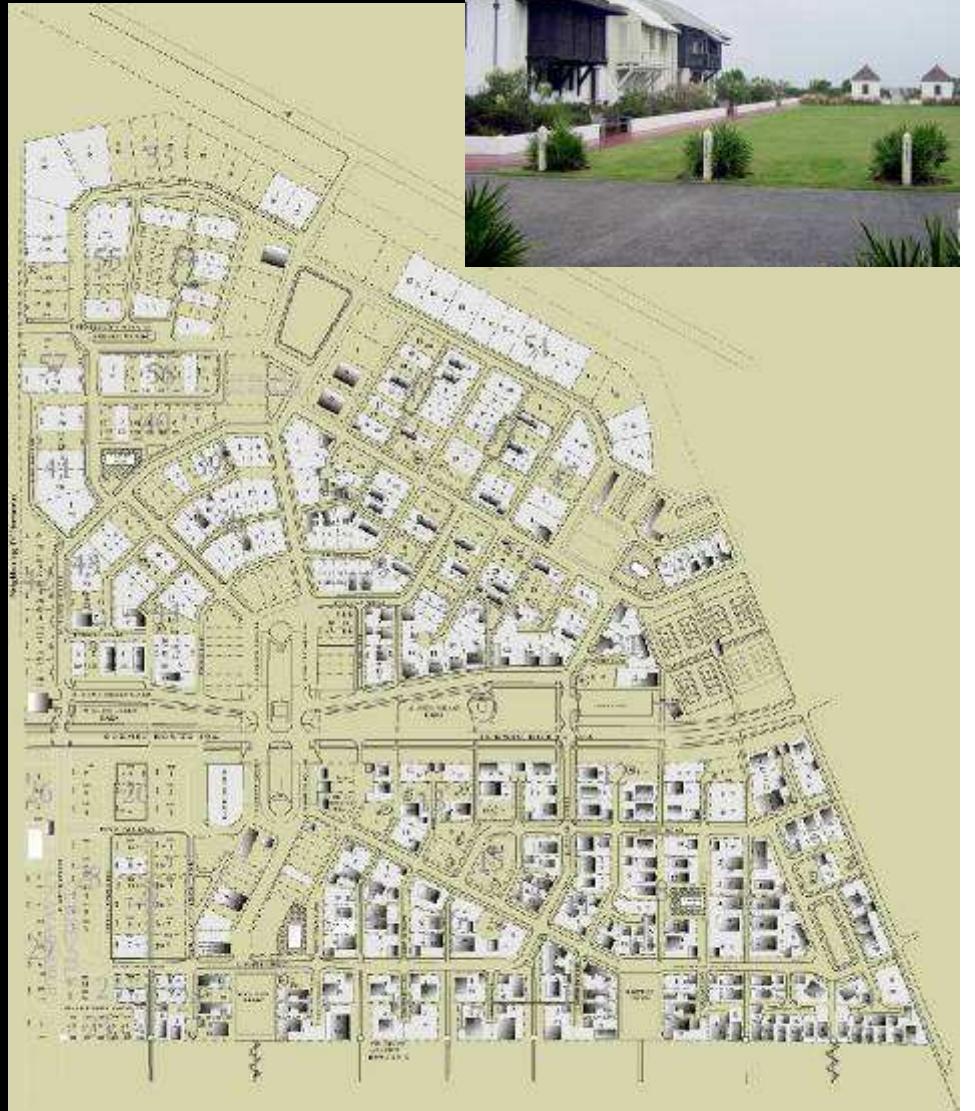


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breakthrough greenfield development



Rosemary Beach, Walton County, FL

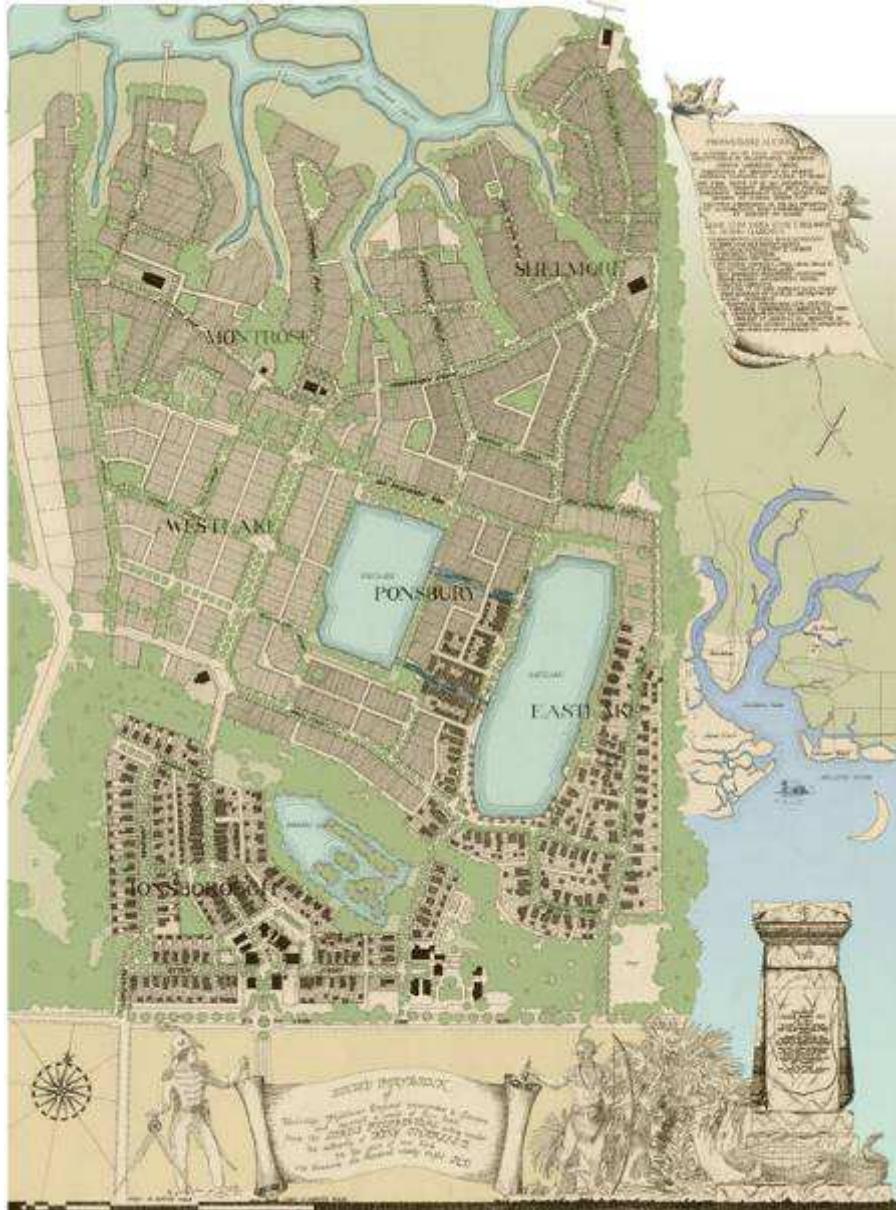


breakthrough greenfield development



I'On, Mount Pleasant, SC

breakthrough greenfield development



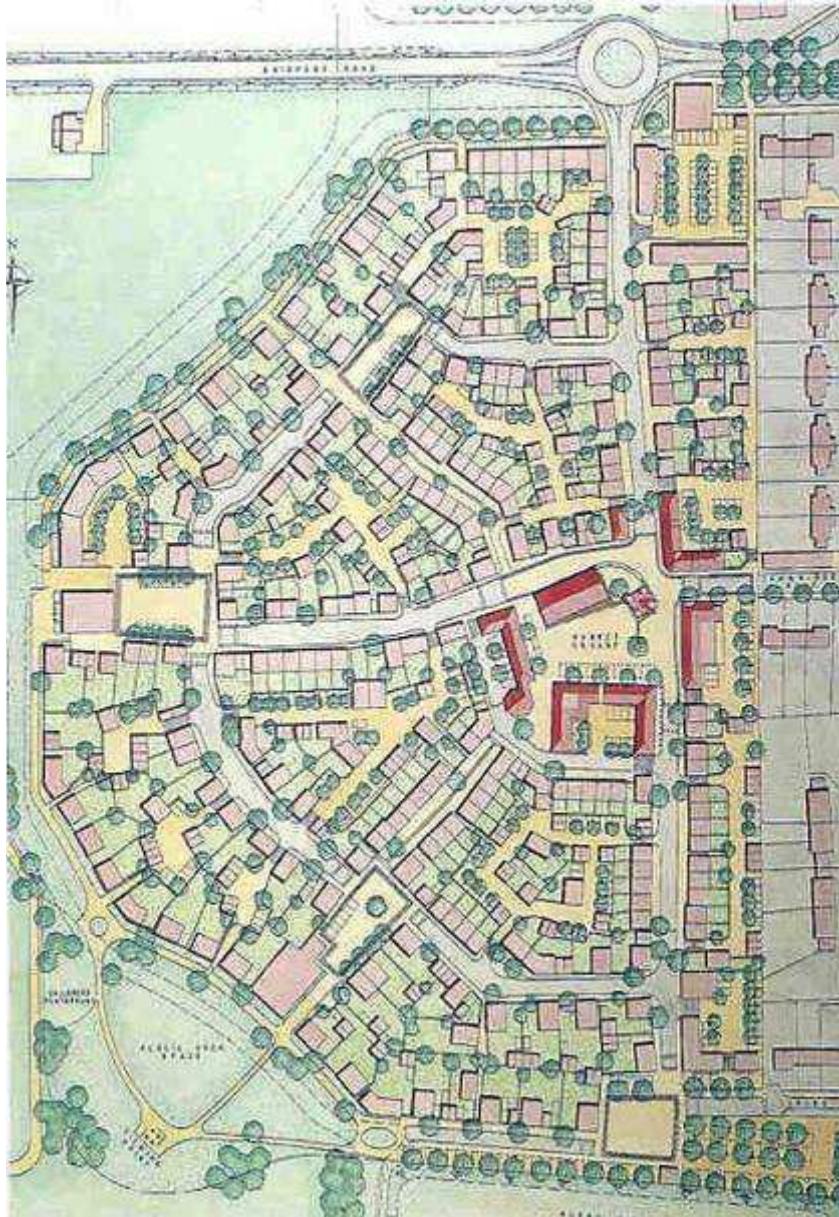
I'On, Mount Pleasant, SC

breakthrough greenfield development

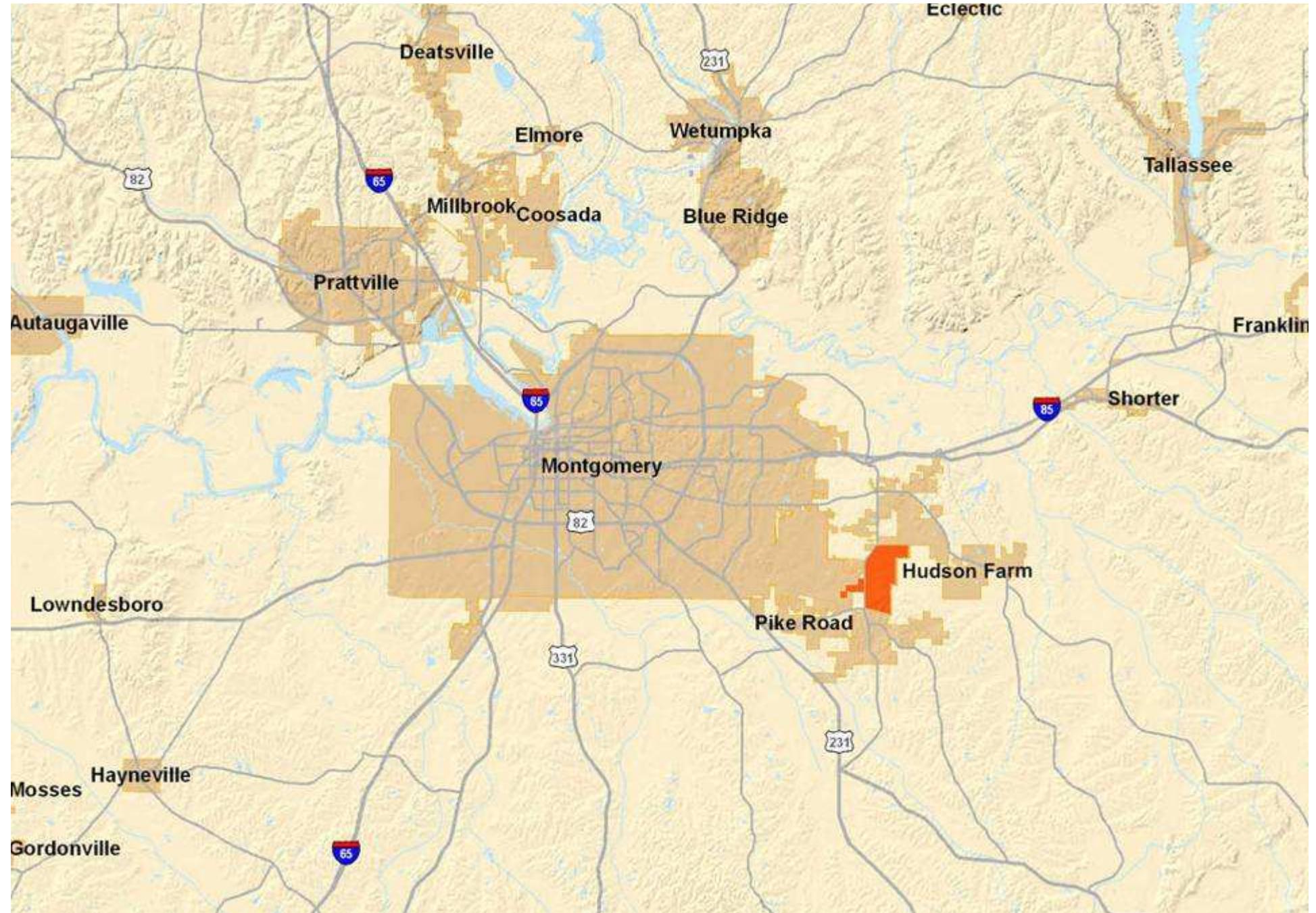


I'On, Mount Pleasant, SC

breakthrough greenfield development



Poundbury, Dorchester, UK

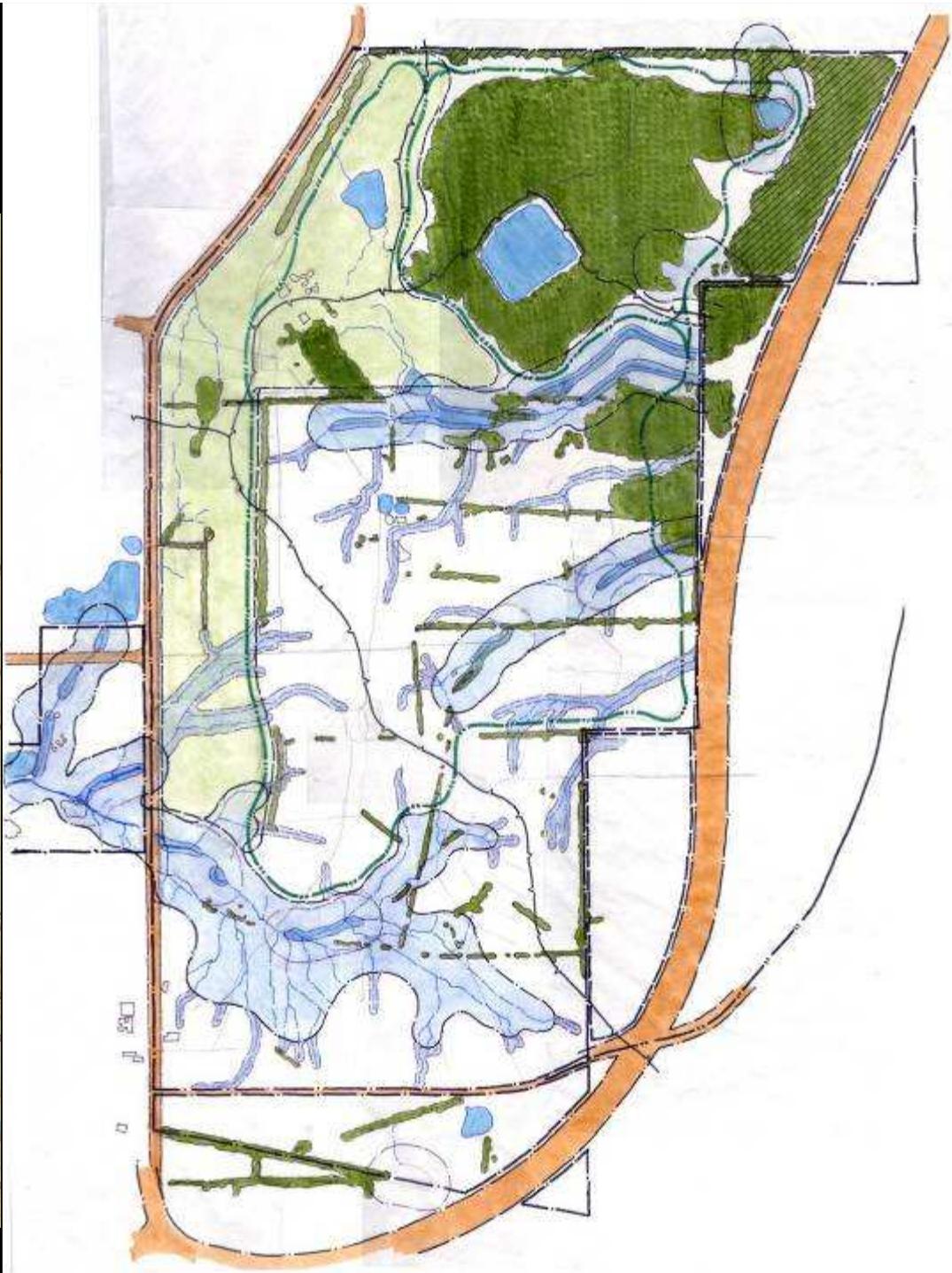
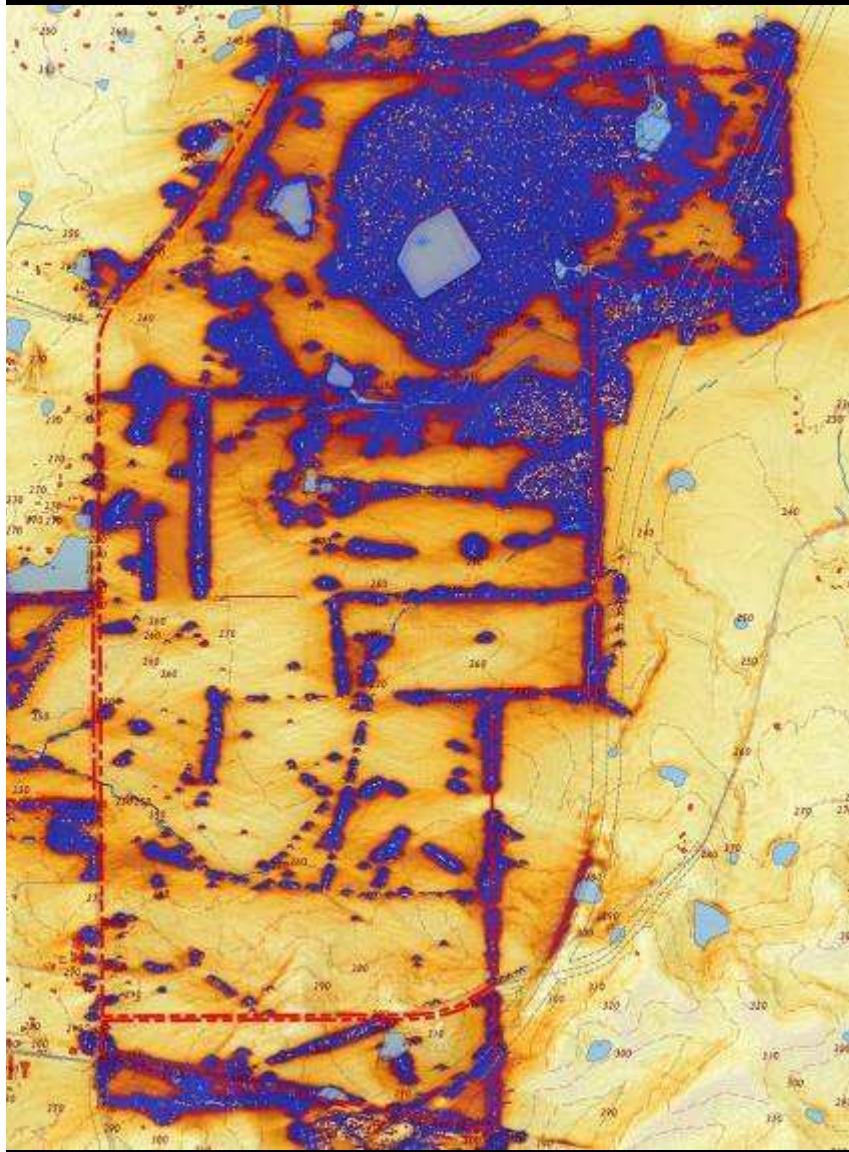


Hudson Farm



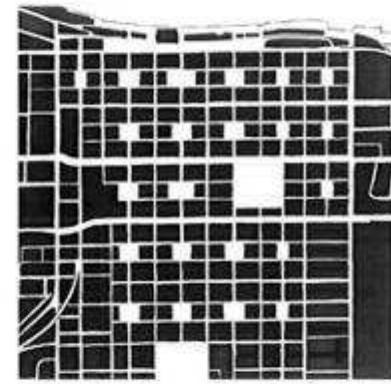
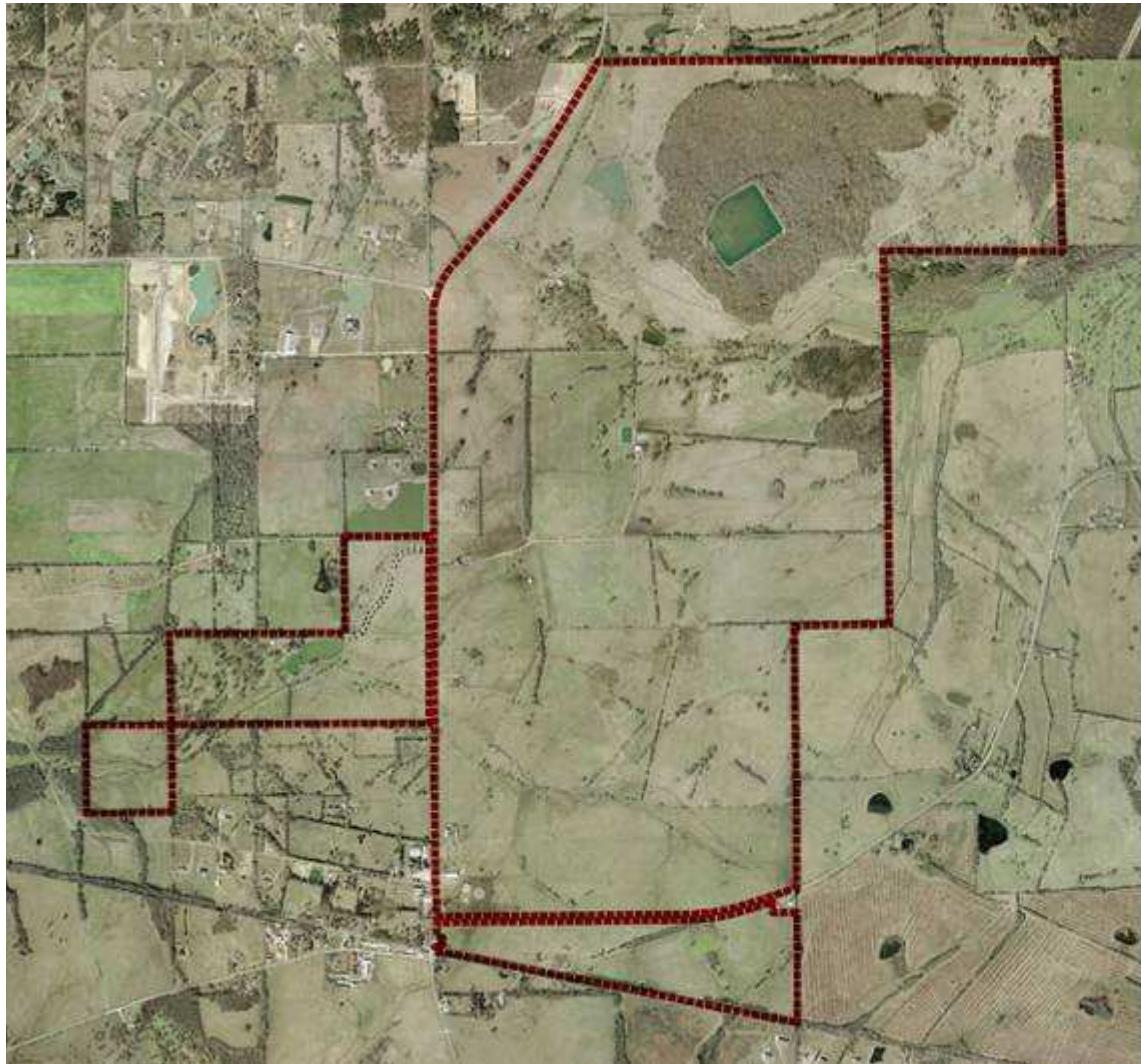
Studying Precedents

solar, water

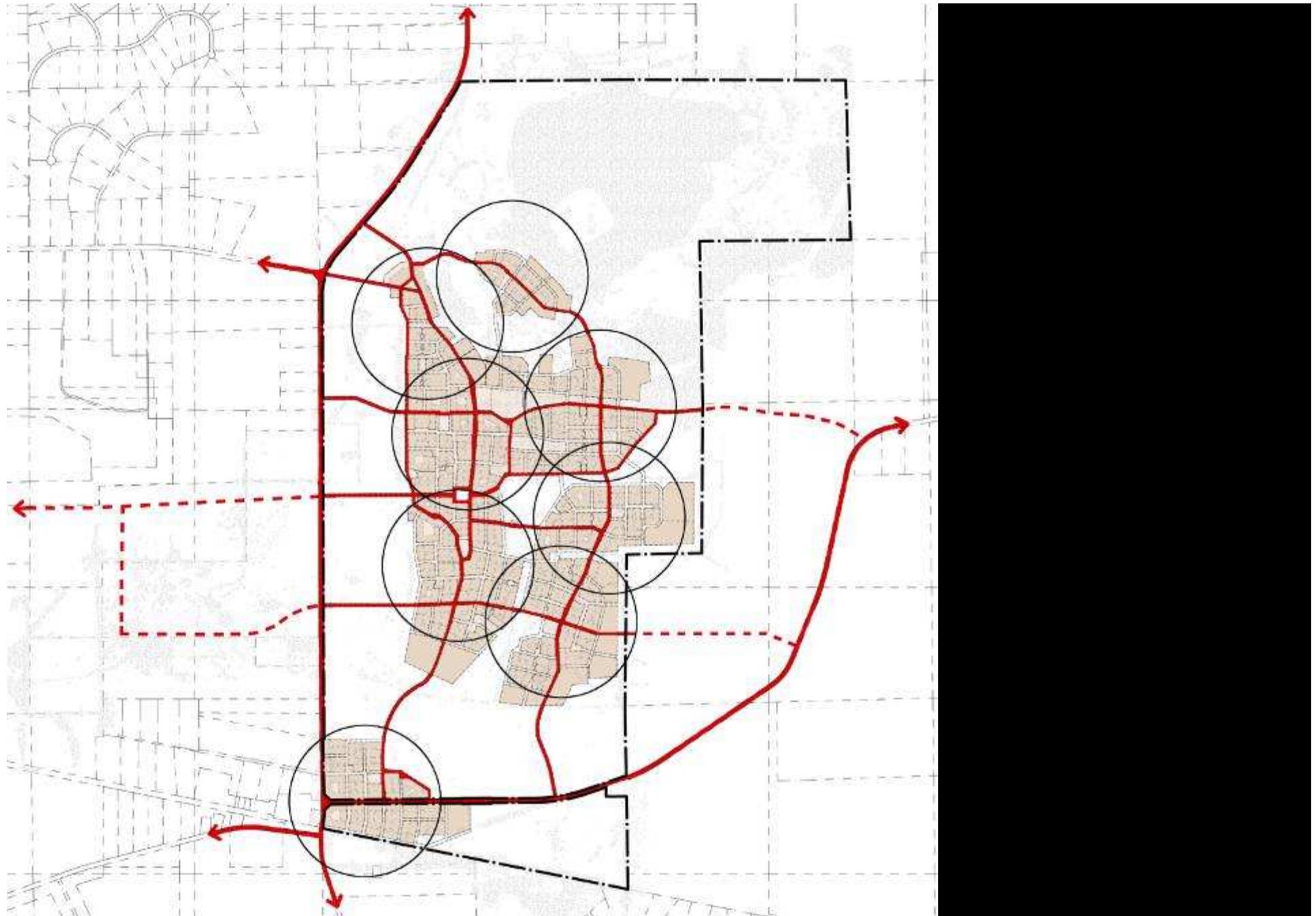




Hudson



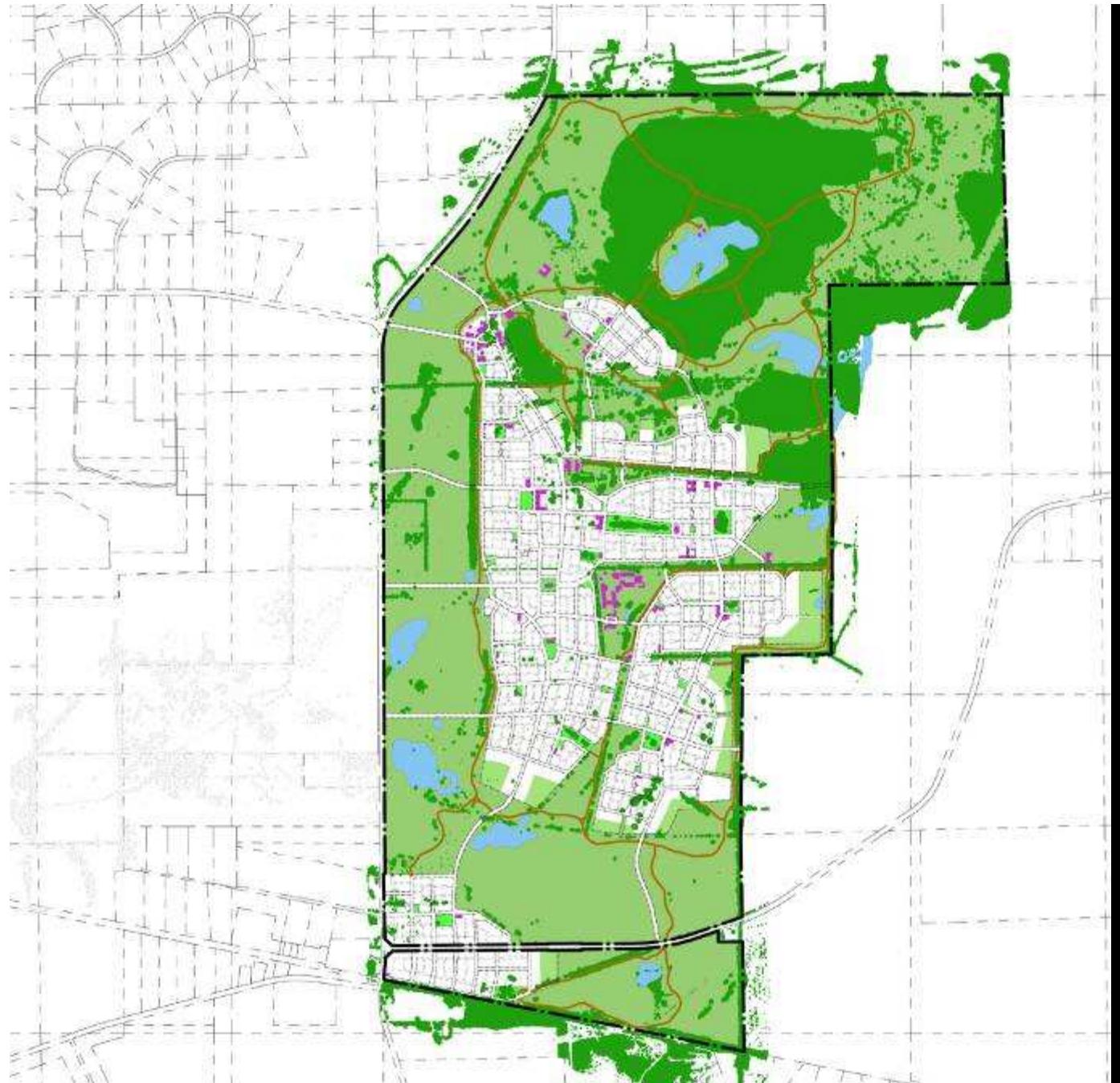
At the same scale: Hudson Farm and Savannah, GA



Urban Structure



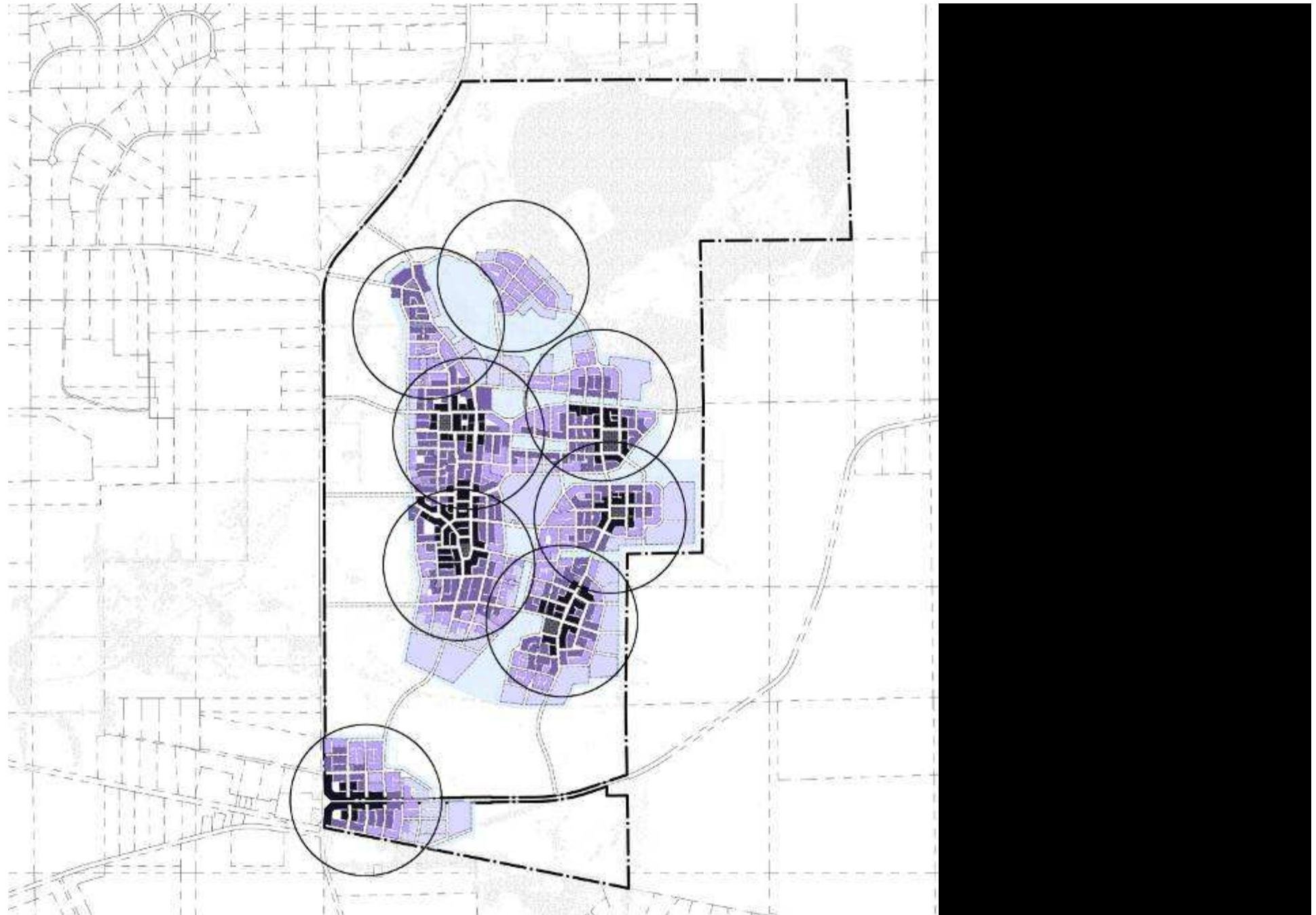
Neighborhoods



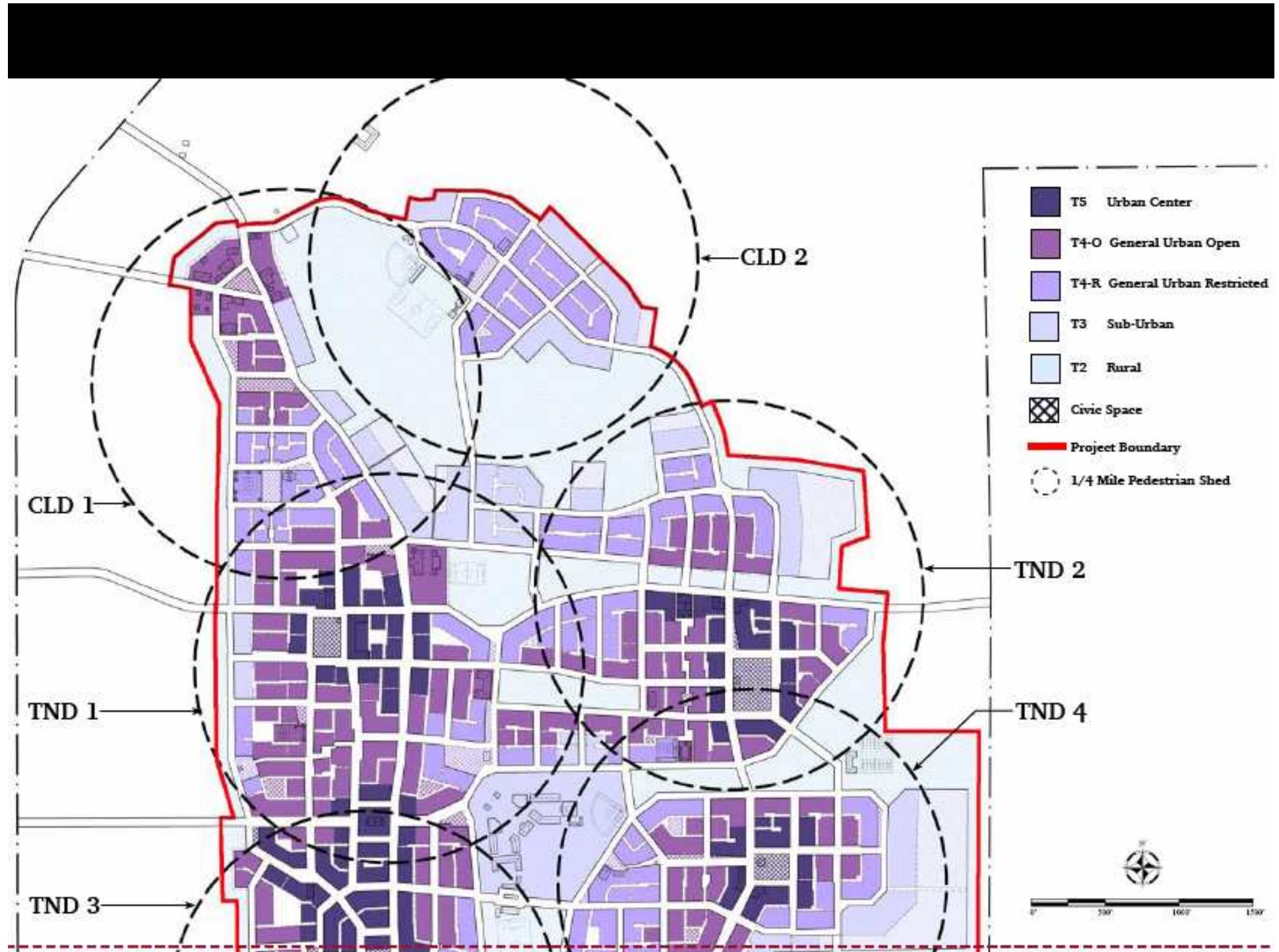
The Green Network



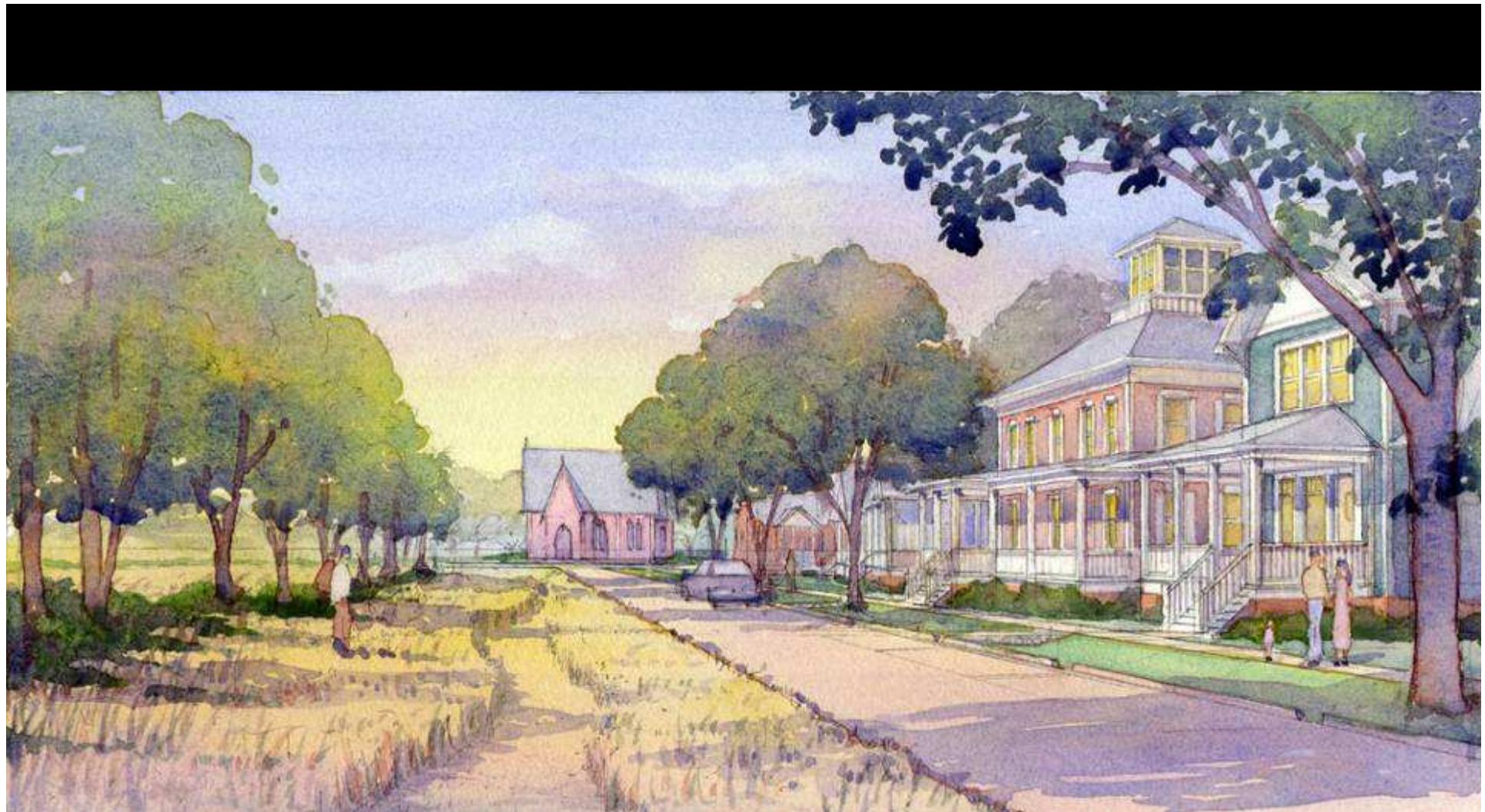
Primary Street + Secondary Streets + Alleys + Trails

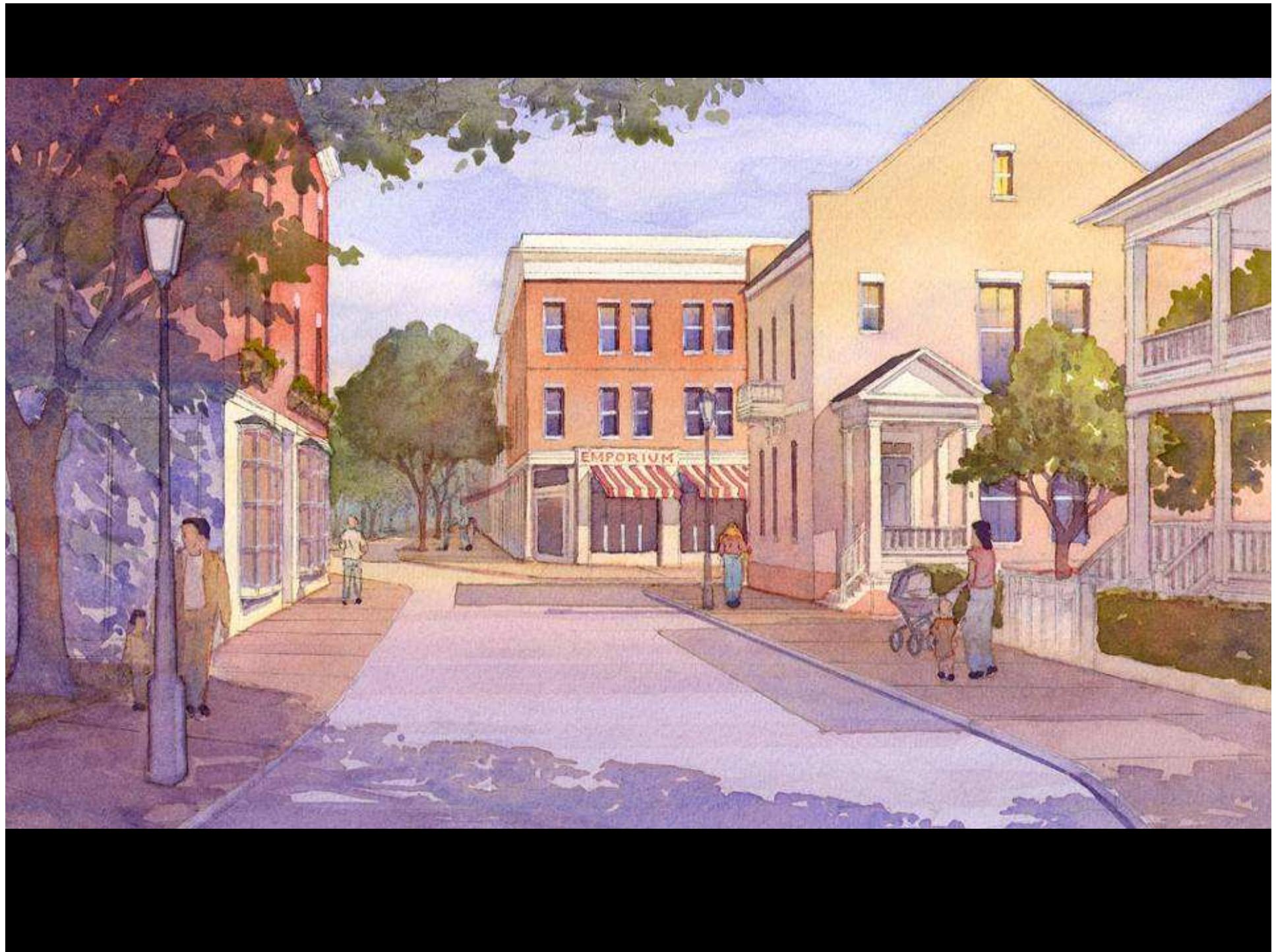


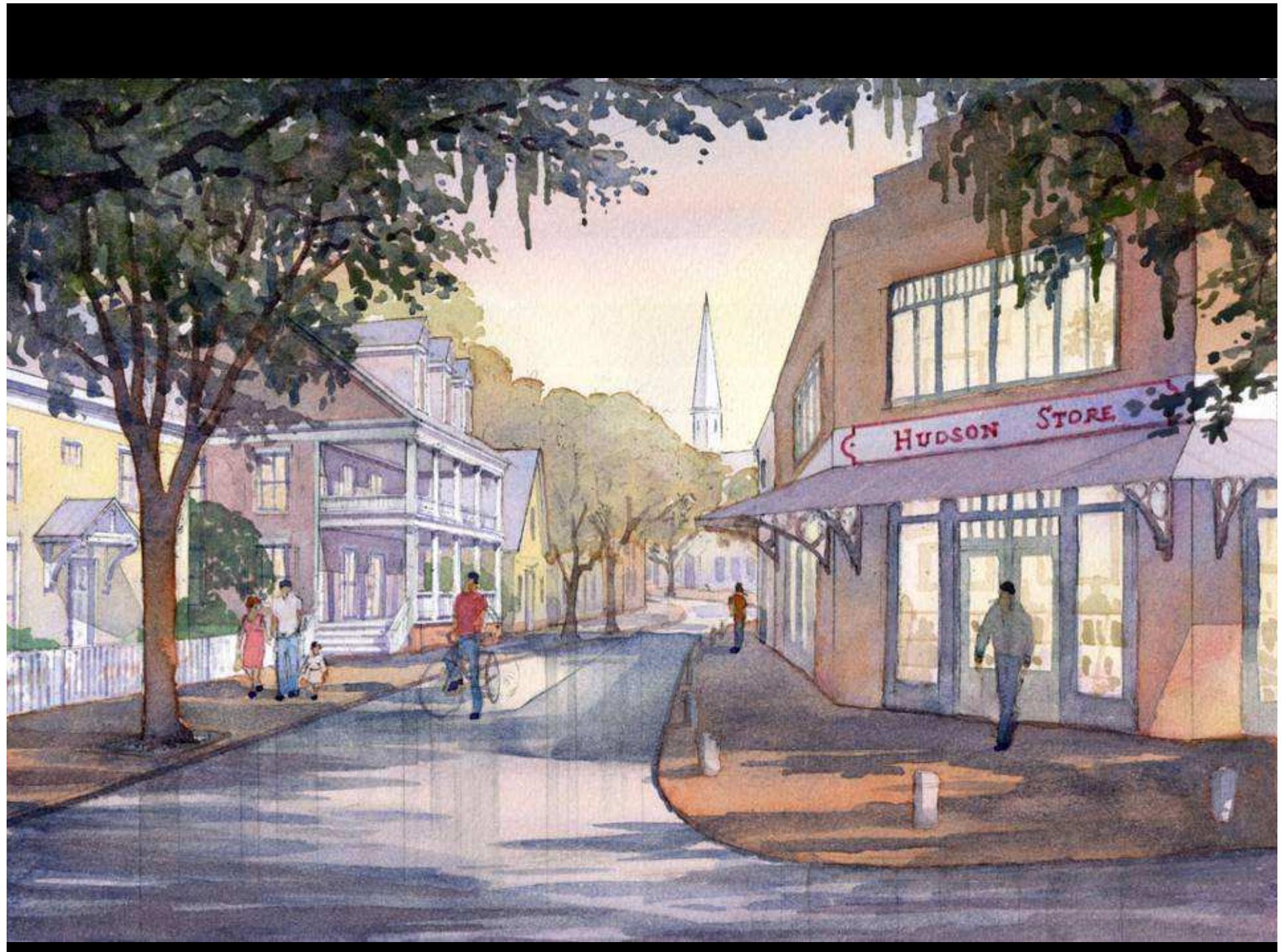
Transect Zones











new urbanists getting:
noticed at last
for urban regeneration



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resuming work on settled places



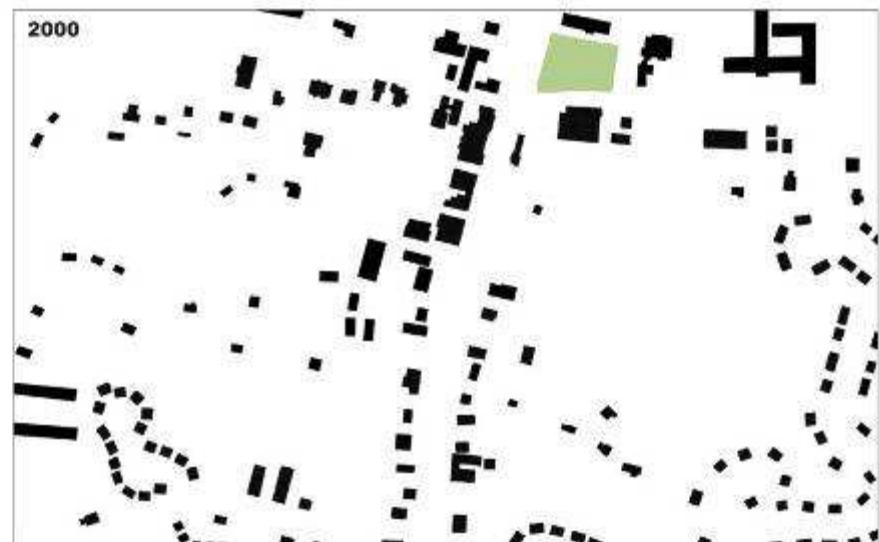
Fort Monroe, Hampton VA

STREET NETWORK

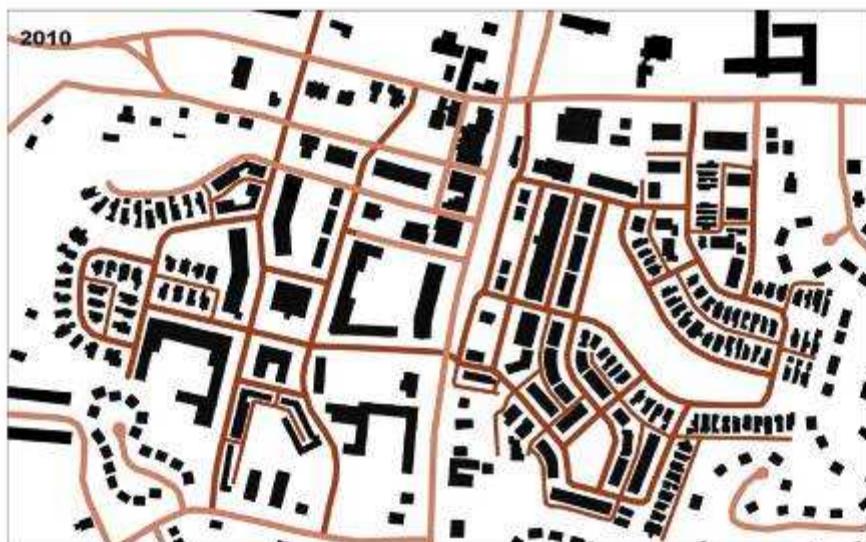


Downtown Street Network (2000) - The downtown of 2000 had only one north/south connection.

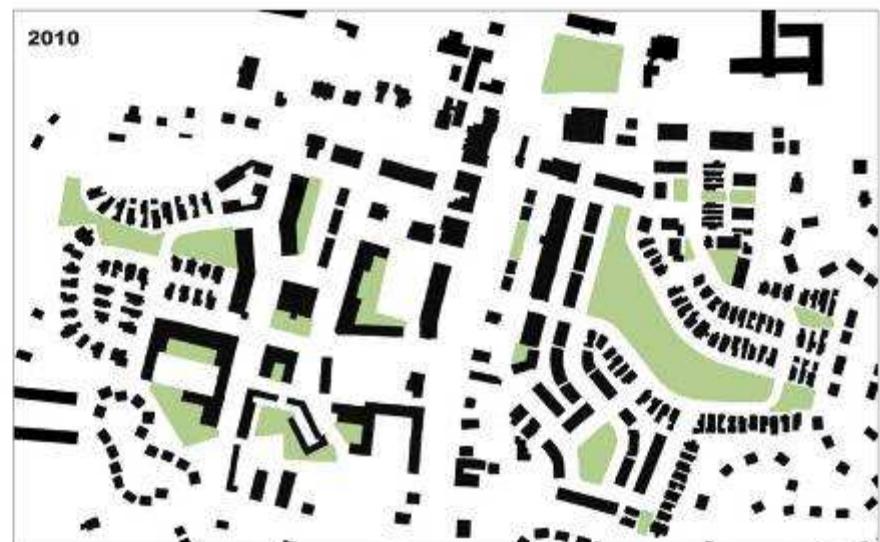
PARKS AND OPEN SPACE



Parks and Open Space (2000) - All land was privately owned except one small public park.



Phases I and II Street Network (2010) - The project added five new north/south connection points into the existing system.



Phases I and II Parks and Open Space (2010) - The project adds over 11 acres of public greenspace to the CBD.

CHARACTER AND QUALITY OF BUILT PROJECT

Mixed-use building combining ground-floor retail, one and two level condominium units ranging from \$200,000 to \$1.1 million. Facade combines vernacular architecture with contemporary elements.



CHARACTER AND QUALITY OF BUILT PROJECT

Contemporary architectural styles bring new energy to the commercial core.





Winter Park, FL

1992

After improvements in 1994



South Miami

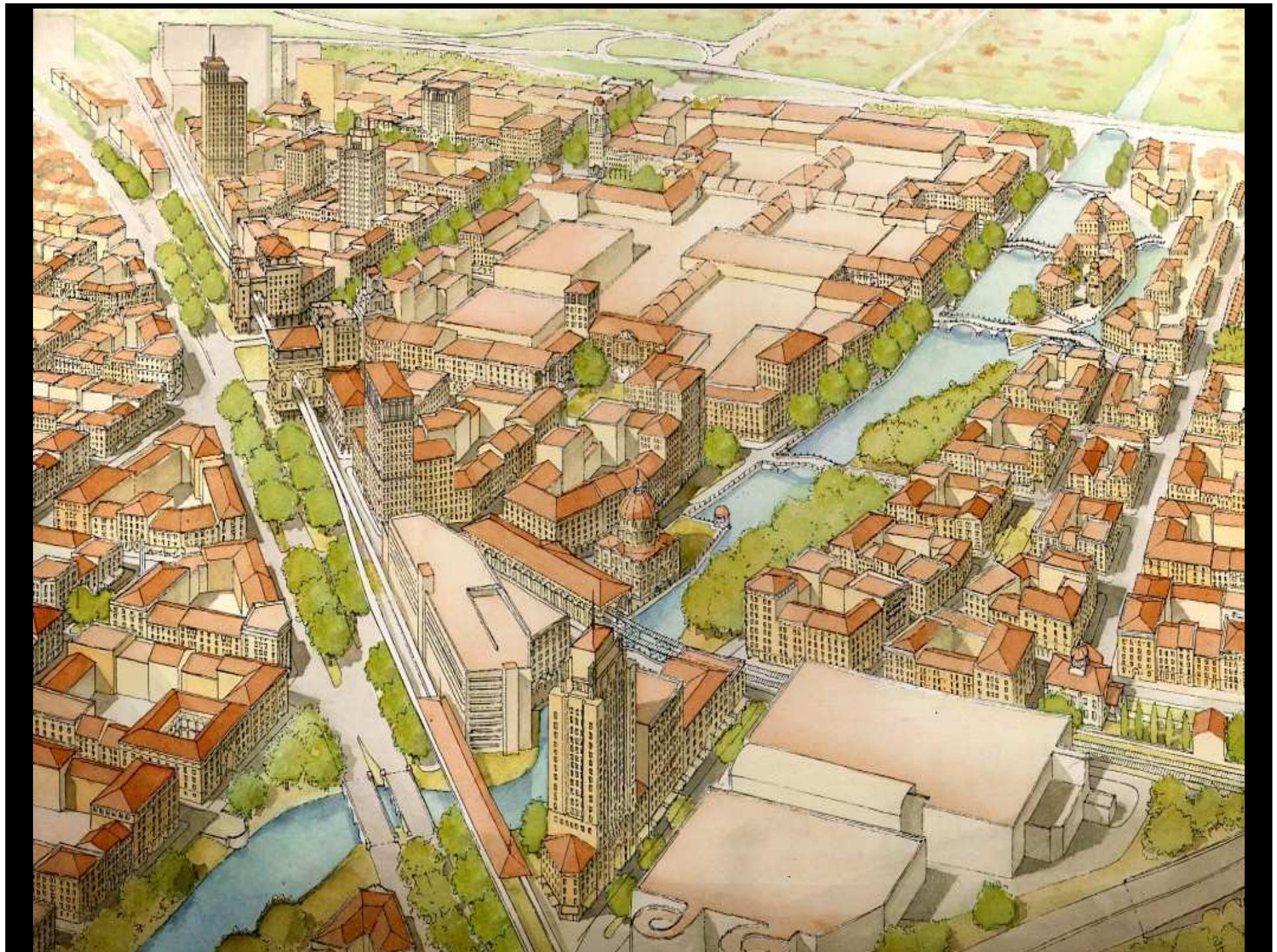
new urbanists making:

shopping centre retrofits
new town centres
...and finally, the ‘CBDs’



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Before



After

reimagining ‘edge cities’



Downtown Kendall, Miami, FL

new centers



Glenwood Park, Atlanta, GA

new centers



GLENWOOD PARK

ATLANTA, GEORGIA

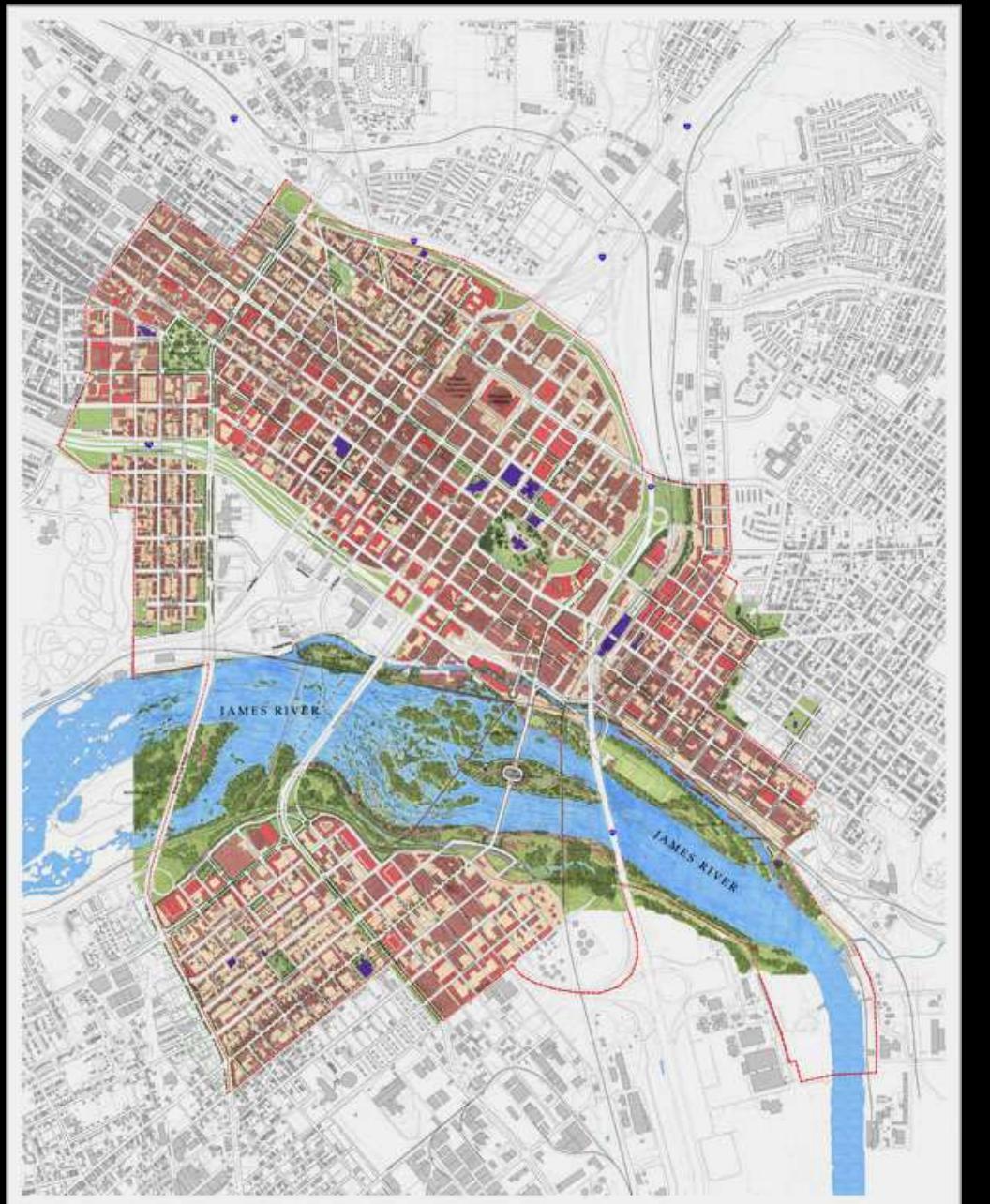
for GREENSTREET PROPERTIES
by TUNNELL-SPANGLER & ASSOCIATES / DOVER, KOHL & PARTNERS

new centers



Glenwood Park, Atlanta, GA

in the metropolitan core



in the metropolitan core



Broad Street, Richmond VA

in the metropolitan core



Broad Street, Richmond VA

in the metropolitan core



Marshall Street, Richmond VA

in the metropolitan core



Marshall Street, Richmond VA

new urbanists insist on:

rethinking social housing



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HOPE VI



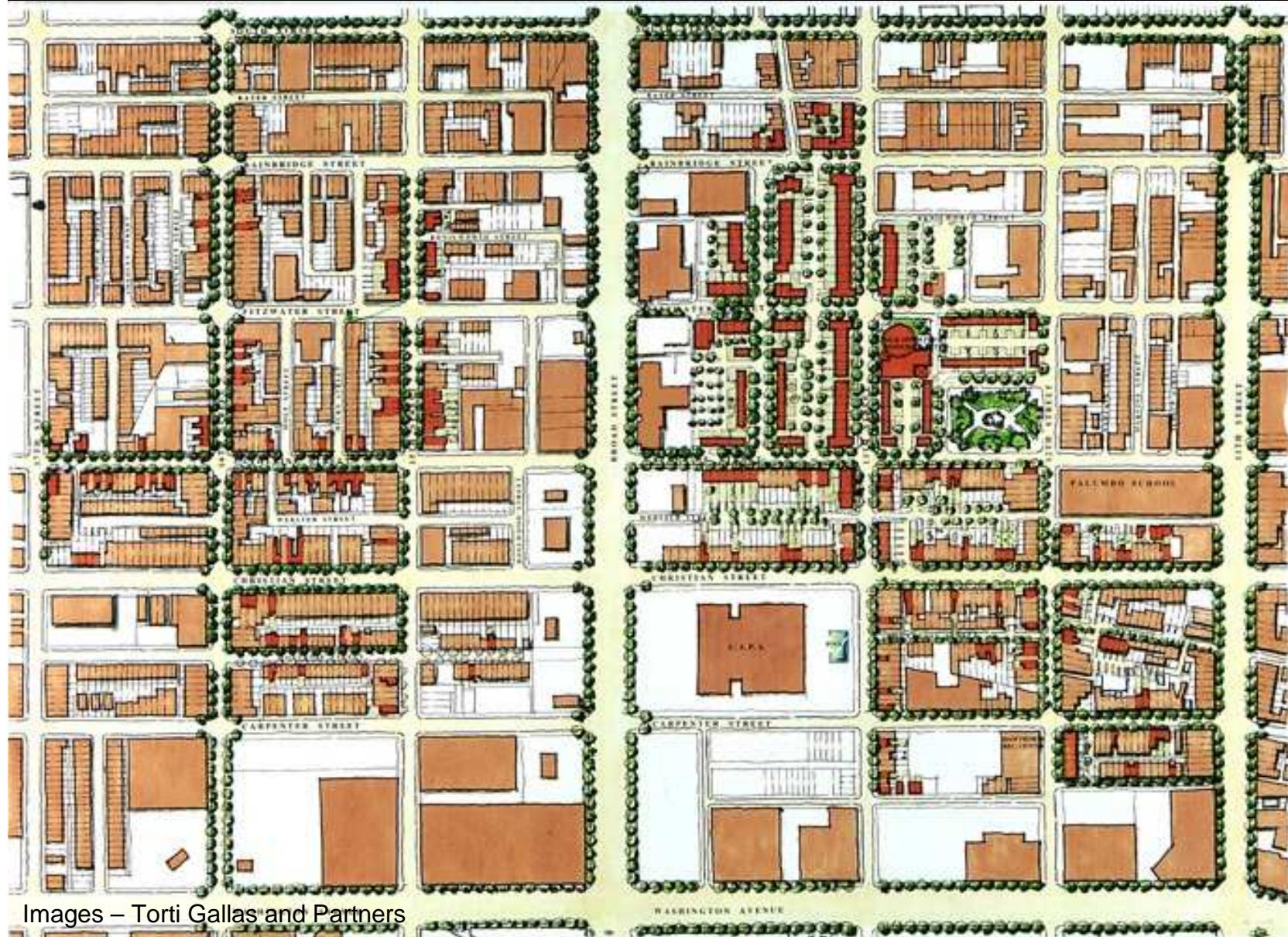
Before

After

Park Du Valle – Louisville, Kentucky – UDA

Images – Urban Design Associates

HOPE VI



Images – Torti Gallas and Partners

King Plaza – Philadelphia, Pennsylvania – Torti Gallas and Partners

HOPE VI



Images – Torti Gallas and Partners

King Plaza – Philadelphia, Pennsylvania – Torti Gallas and Partners

HOPE VI



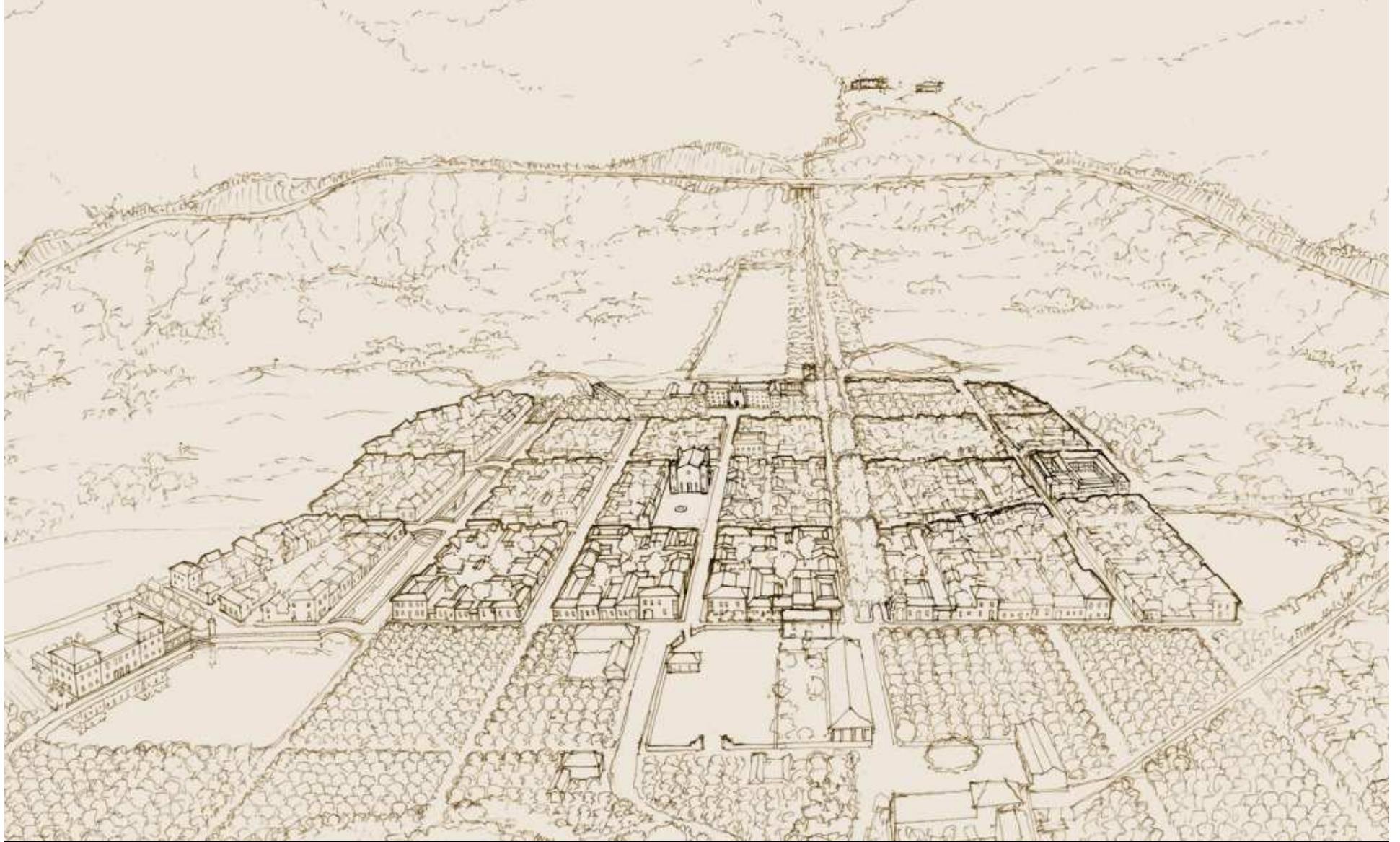
Chicago

new urbanism reaching:
global tipping point?

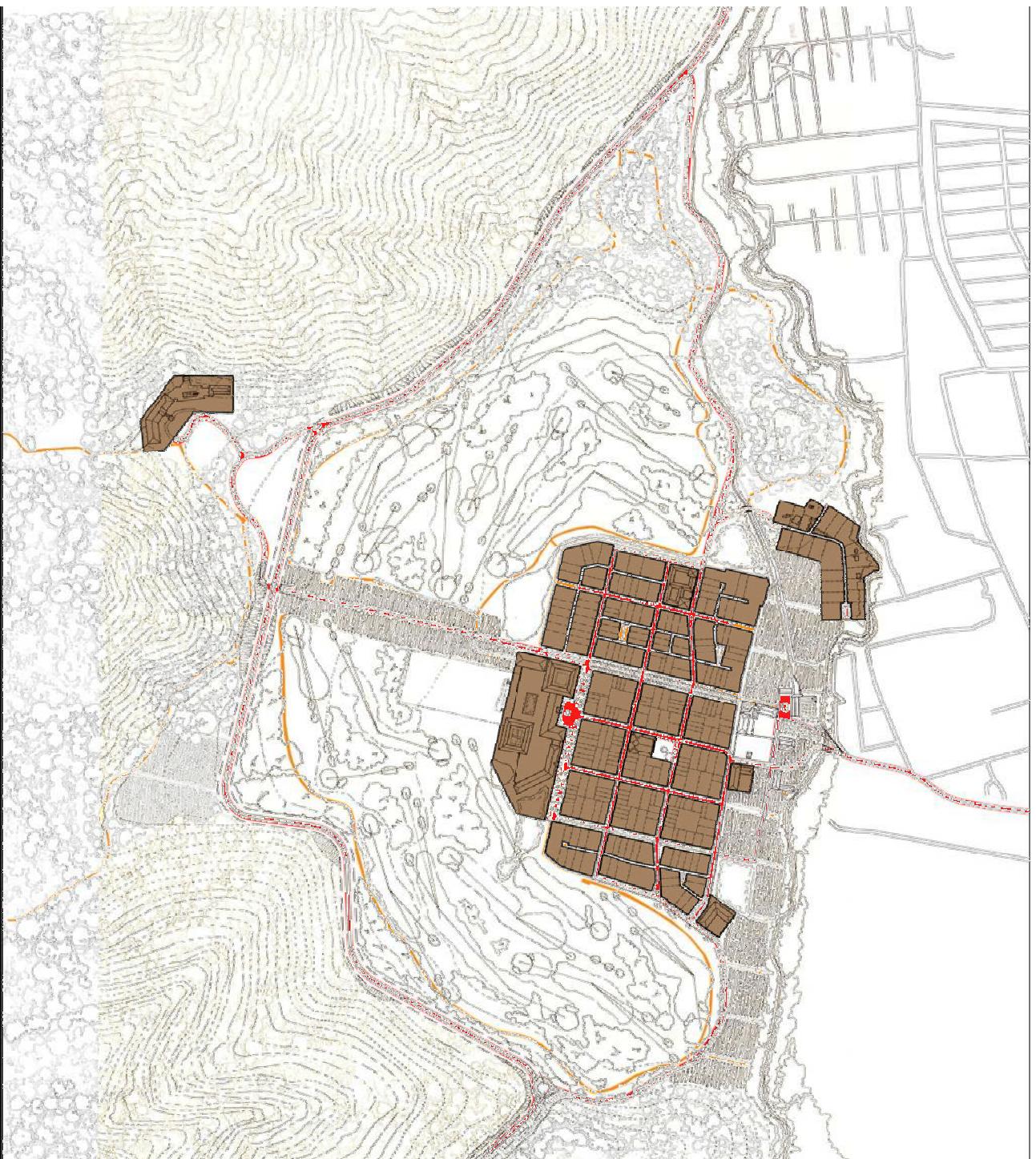


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the new global imperative?



Antigua / Jocotenango, Sacatepequez, Guatemala

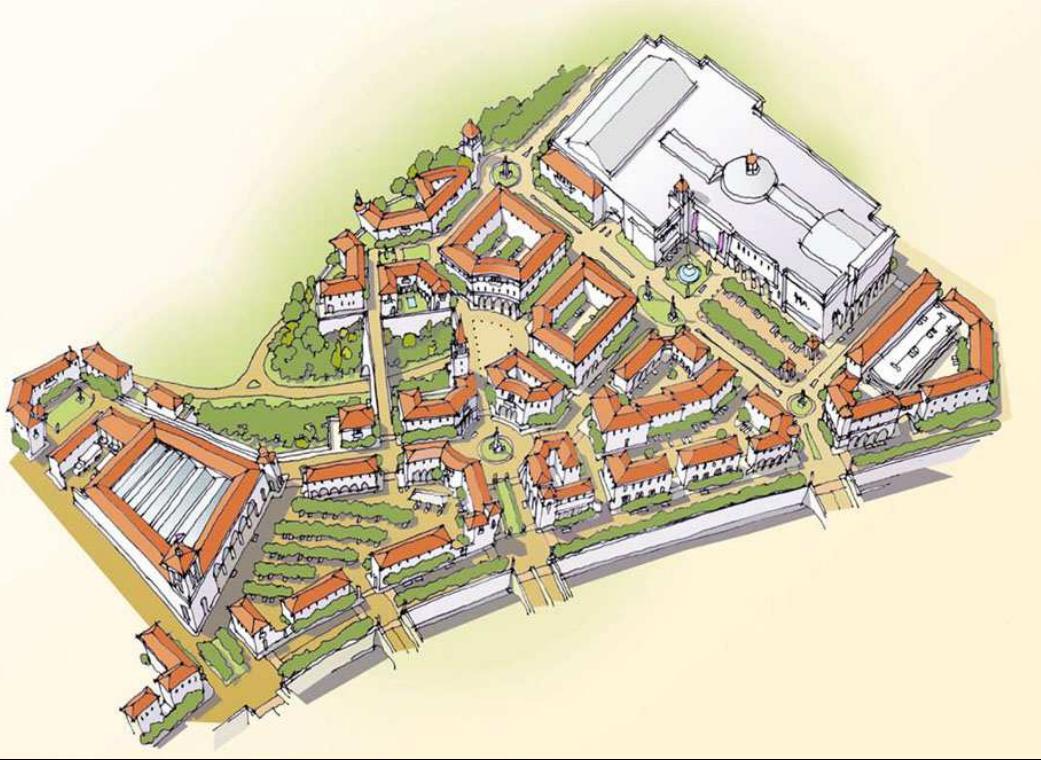


the new global imperative?



Condado Concepción, Guatemala City, Guatemala

the new global imperative?



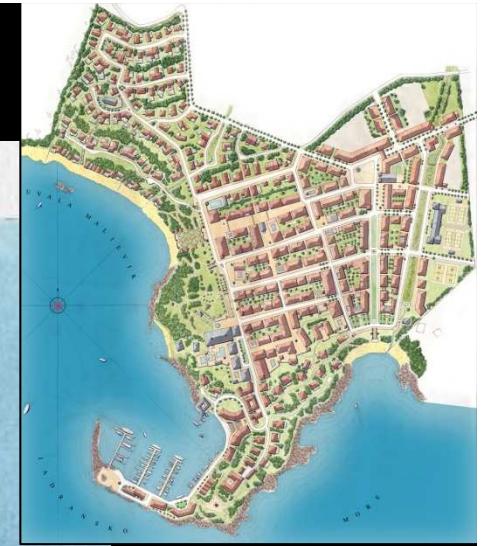
Condado Concepción, Guatemala City, Guatemala

the new global imperative?



Maljevik Bay, Montenegro

the new global imperative?



Maljevik Bay, Montenegro

the new global imperative?



Jeddah, Saudi Arabia

the new global imperative?



Jeddah, Saudi Arabia

the new global imperative?



Jeddah, Saudi Arabia

the new global imperative?



Sabkha, Thuwal, Saudi Arabia

the new global imperative?



Sabkha, Thuwal, Saudi Arabia

a moment of considerable risk



Moscow

a moment of considerable risk



Moscow

a moment of considerable risk



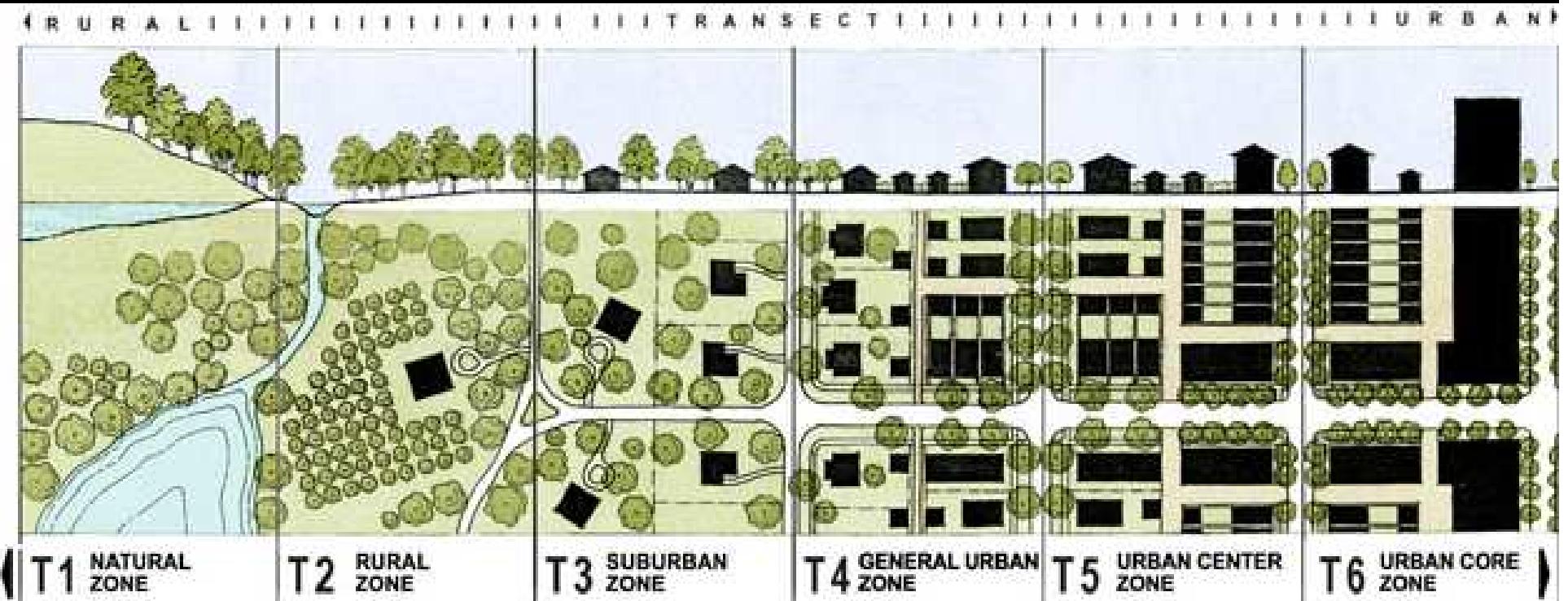
Moscow

new urbanists using:
**form-based codes
& the ‘transect’**



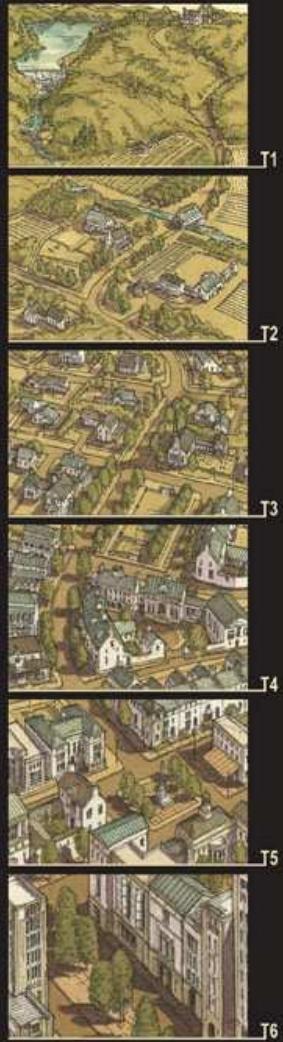
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the transect



the SmartCode

SMARTCODE
v 9.0



SMARTCODE VERSION 9.0

Andrés Duany • Sandy Sorlien
William Wright

Eusebio Azcue • Chester (Rick) Chellman, P.E. • Ann Daigle
Diane Dorney • Chad Emerson • Francisco García • Laura Hall
Richard A. Hall, P.E. • Gustavo Sanchez Hugalde • Marina Khouri
Rachel Merson • Steve Mouzon • Elizabeth Plater-Zyberk
Daniel Slone • Peter Swift, P.E. • Michael Watkins

with contributions by

John Acken • Eliot Allen • Robert Alminana • Jeffrey K. Boueids
René Brutvan • Doug Farr • Susan Henderson
Lauren Koutrelakos • Marin Mercer • Nathan R. Norris
Jorge Planas • Maximo Rumis • Shannon Tracy • Allison Ude
Chris Ude • Urban Design Associates • Mary Vogel • Brian Wright

Montgomery, AL



City of Montgomery



SMARTCODE

TABLE 10 BUILDING FUNCTION-SPECIFIC						
	T1	T2	T3	T4	T5	T6
a. RESIDENTIAL						
Apartment building				■	■	
Rearyard house			■	■	■	■
Duplex house			■	■	■	
Steady house		■	■	■	■	
Edgehouse	■		■	■	■	
Outbuilding	■	■	■	■	■	
Manufactured house		■				□
Temporary tent	□	□	□	□	□	□
Live-work		■	■	■	■	□
b. LODGING						
Hotel (no room limit)				■	■	□
Inn (up to 12 rooms)	□		■	■	■	■
Inn (up to 5 rooms)		■	■	■	■	
B&B (up to 5 rooms)		□	□	□	□	□
Bed-and-breakfast		■	■	■	■	■
c. OFFICE						
Office building		■	■	■	■	□
Live-work		■	■	■	■	□
d. RETAIL						
Open-market building	■	■	■	■	■	■
Retail building		■	■	■	■	■
Point-of-purchase		■	■	■	■	■
Kiosk		■	■	■	■	□
Push cart		■	■	■	■	□
Adult entertainment				□	□	
e. CIVIC						
Bus shelter	■	■	■	■	■	■
Convention center				□	■	
Conference center				□	■	
Fountain or Public art	■	■	■	■	■	■
Library		■	■	■	■	■
Movie Theater			■	■	■	■
Museum		□	■	■	■	■
Outdoor auditorium	□	■	■	■	■	■
Parking structure			■	■	■	
Passenger terminal			■	■	■	
Playground	■	■	■	■	■	■
Sports stadium				□	■	
Surface parking lot		□	□	□	■	
Religious assembly		■	■	■	■	

SMARTCODE Montgomery, Alabama

TABLE 1 TRANSECT ZONE DESCRIPTIONS

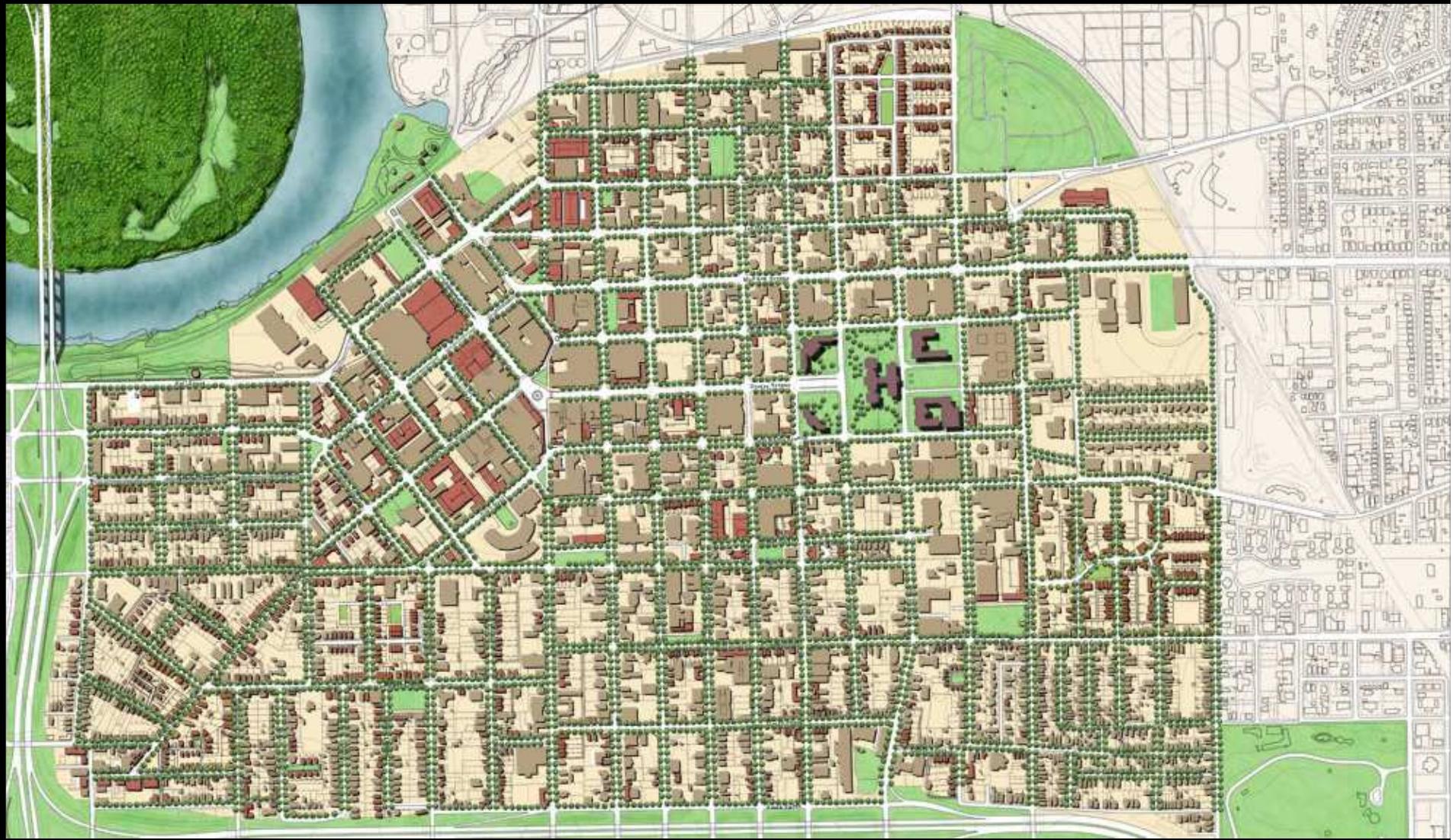
TABLE 1: The following are general descriptions of the character of each Transect Zone.

T1	THE NATURAL ZONE consists of lands approximating or reverting to a wilderness condition, including lands unsuitable for settlement due to topography, hydrology or vegetation.	
T2	THE RURAL ZONE consists of lands in open or cultivated state or sparsely settled. These may include woodland, agricultural lands, grasslands and irrigable deserts.	
T3	THE SUB-URBAN ZONE, though similar to the rural zone in some respects, differs by allowing human habitation. Planning is naturalistic with deep setbacks. Blocks may be large and the roads irregular to accommodate natural conditions.	
T4	THE GENERAL URBAN ZONE is a denser and generally more artificial urban fabric. Mixed-use is usually preferred. Commercial locations have a wide range of building types, single, multiple and rowhouses. Setbacks and landscaping are variable. Streets typically define medium-sized blocks.	
T5	THE URBAN CENTER ZONE is the equivalent of a main street, including building types that accommodate retail, offices, restaurants and apartments. It contains a mix of buildings of varying sizes with wide sidewalks, steady street tree planting and buildings set close to the frontages.	
T6	THE URBAN CORE ZONE is the equivalent of a downtown. It contains the tallest buildings, the greatest variety, and unique civic buildings in particular. It is the least naturalistic; street trees are steadily planted and sometimes absent.	
SD	SPARCELY POPULATED DISTRICTS are those areas with buildings that by their inherent function, disposition, or configuration, cannot conform to one of the six normative Transect Zones. Typical Districts may include institutional campuses, refinery sites, airports, etc.	

© Duany Plater-Zyberk & Company

Dealt only with 80 acre “greenfield” sites outside of downtown

downtown master plan



existing buildings



proposed buildings



civic buildings

“transect map” for the SmartCode



T-4 Restricted

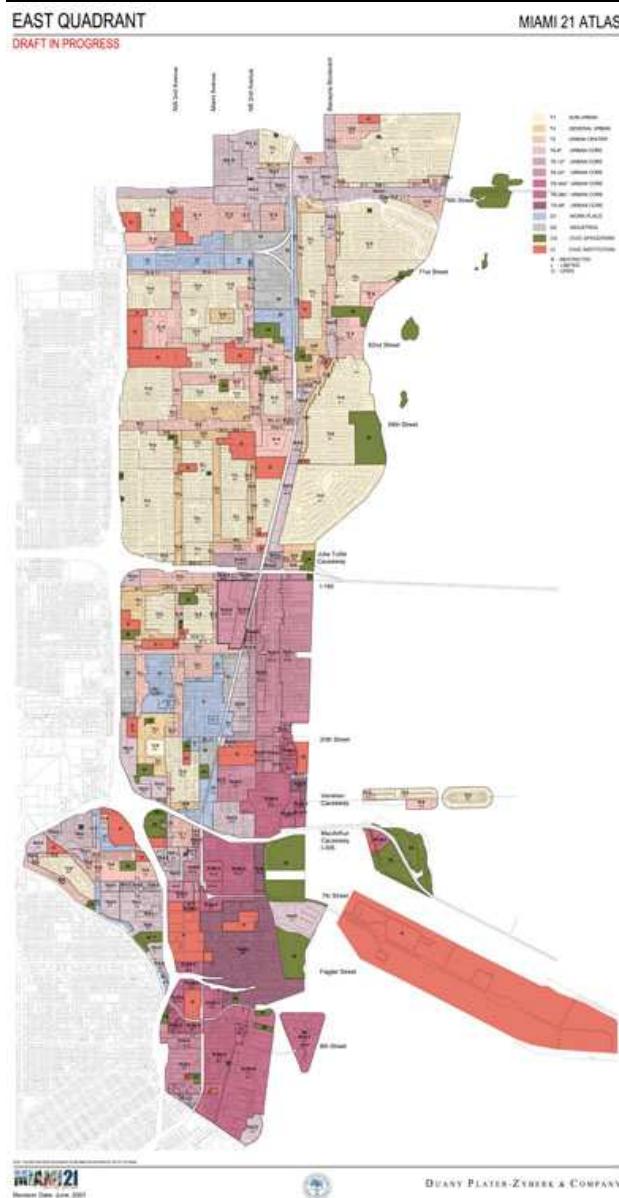
T-4 Open

T-5

Civic Space

Civic Park

'miami 21'



A new code for the city of Miami, produced by DPZ

Images – City of Miami

new urbanists:
responding to Katrina



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'mississippi renewal forum'



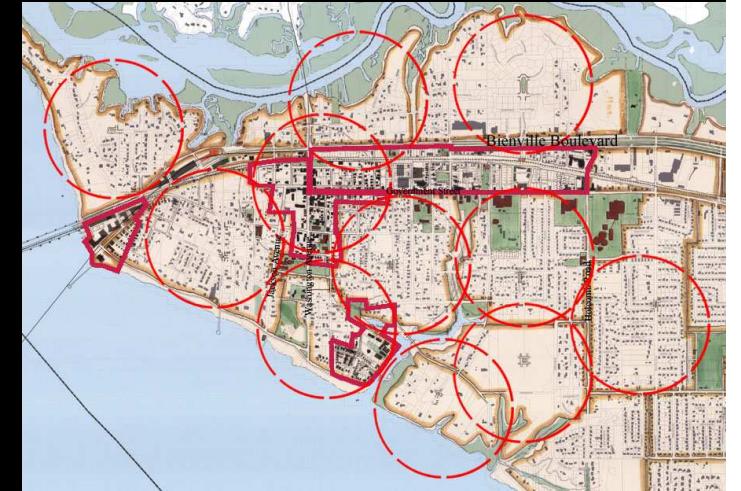
Responding on the Gulf Coast after Hurricane Katrina

‘mississippi renewal forum’



The charrette

'mississippi renewal forum'



Ocean Springs, Mississippi

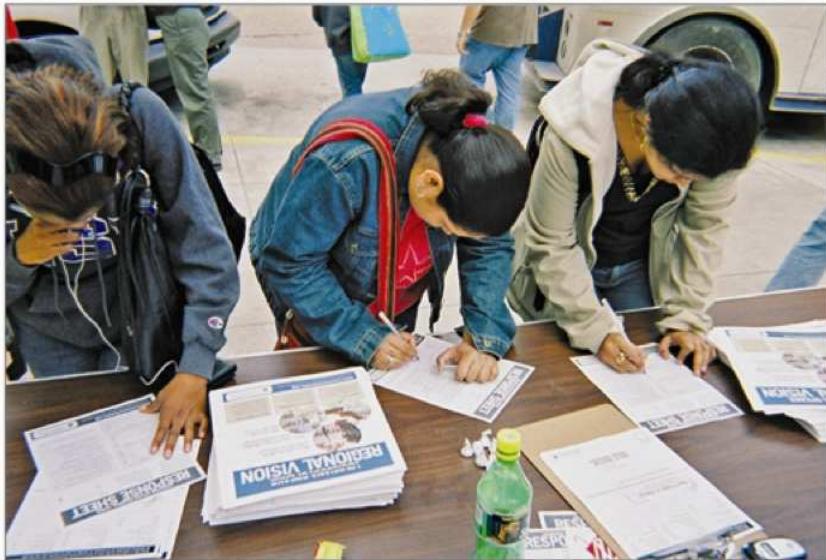
'mississippi renewal forum'



Ocean Springs, Mississippi

south louisiana

Regional Vision Outreach and Poll



MAKING US ALL SAFER FROM STORMS

Question 1: What should Louisiana do about levees and wetlands?

Legend: Existing Wetland (green), Wetland Gain (blue), Wetland Loss (red), Existing Levees (yellow), New and Upgraded Levees (light blue)

Map A: Continue current investments. Build levees to pre-Katrina/Rita heights and strengthen them; continue the wetland restoration projects we already have.

94,000 acres of wetland gained
820,000 acres of wetland lost

- The New Orleans area would still be protected from many severe storms
- Requires no additional investments above current levels
- Fisheries and species that depend on wetlands would decline

Map B: Proposed state plan. Increase levee protection around cities and across the coast; increase wetland restoration efforts.

340,000 acres of wetland gained
545,000 acres of wetland lost

- Would give protection from very severe storms to most urban areas, including New Orleans
- Would slow coastal loss across the coast and build new land in targeted locations
- Saves habitat for wetland and freshwater-dependent fisheries and species
- Very high costs: Coastal Restoration estimated to cost \$500+ million per year; Levees projected to cost tens of billions
- Still results in an overall loss of wetlands for the next 50 years, though at a slower rate
- Saltwater fisheries may move or be impacted by freshwater diversions

Trade Offs:

Protecting Our Cities: Protection for coastal cities is a priority. Currently, most of Greater New Orleans has levees. Other cities do not. The state's proposed plan would increase protection for New Orleans and protect other cities against very severe storms. Areas of the coast without big cities would also receive some protection.

Protected Population: **A** 1.1 MILLION PEOPLE **B** 2 MILLION PEOPLE

Fisheries Impacts: Many species of fish, shellfish and wildlife rely on Louisiana's coastal wetlands. These include speckled trout, redfish, oysters, shrimp, crabs, ducks and alligators. As the saltwater replaces wetlands, some fisheries will shrink. But introducing freshwater to restore wetlands would also impact some fisheries.

Habitat Changes: **A** Salt Water ↑ **B** Fresh Water ↑

Multiple Lines of Defense Concept to Protect Our Coast and Citizens. (Courtesy of the Lake Pontchartrain Basin Foundation, April 2006)

Question 2: What is the right mix of levees and coastal restoration?

A: Emphasize coastal restoration. Focus on wetlands and barrier islands, even if some areas lack levees

B: Mix levees and coastal restoration. Provide levees for at-risk cities; also attempt to restore the coast

C: Emphasize levee building. Construct levees across the coast, even if this disrupts some wetland systems

Trade Offs:

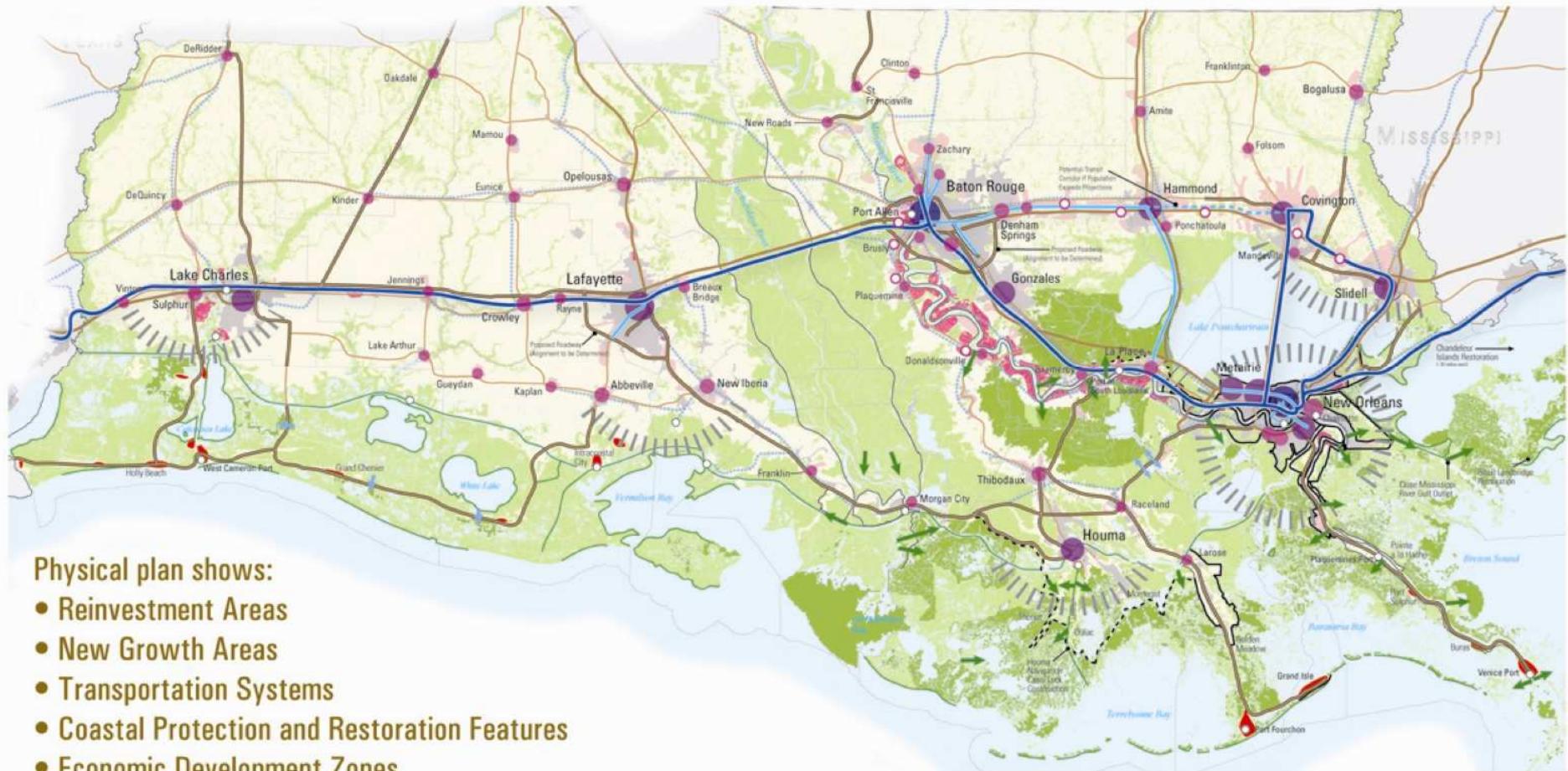
Multiple Lines of Defense: Levees are most effective against storm surges when used with additional "lines of defense," such as wetlands and barrier islands. But levees can disrupt natural systems, making it harder to sustain wetlands. Coastal lands also help protect oil and gas infrastructure, as well as fisheries and habitat.

MARK YOUR RESPONSE SHEET NOW!

23,000 responses gathered through direct community outreach, TV broadcast, and multi-media campaign

south louisiana

From Vision to Action: Sustainable Recovery and Smarter Growth

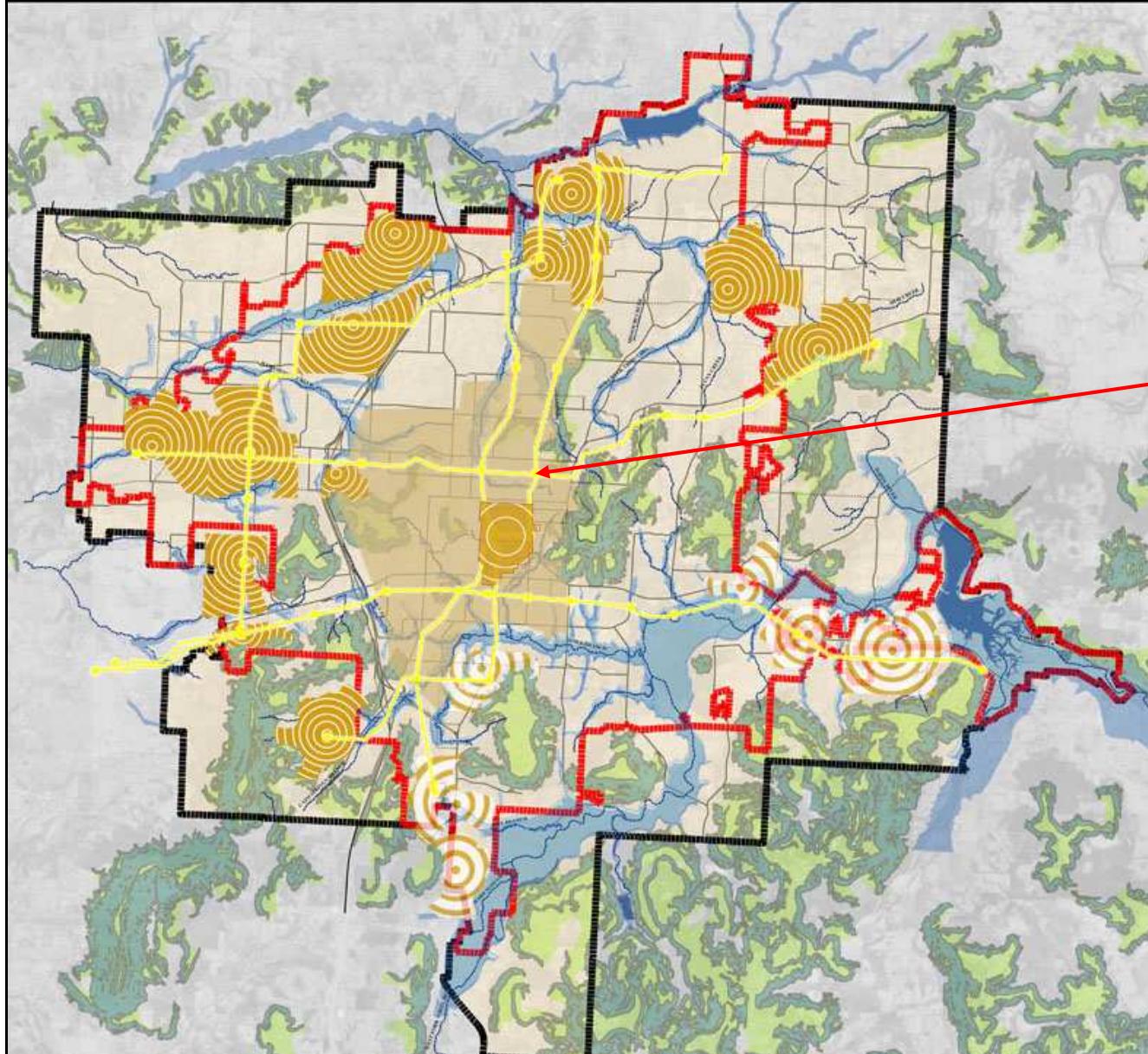


new urbanists re-imagining:
the big picture



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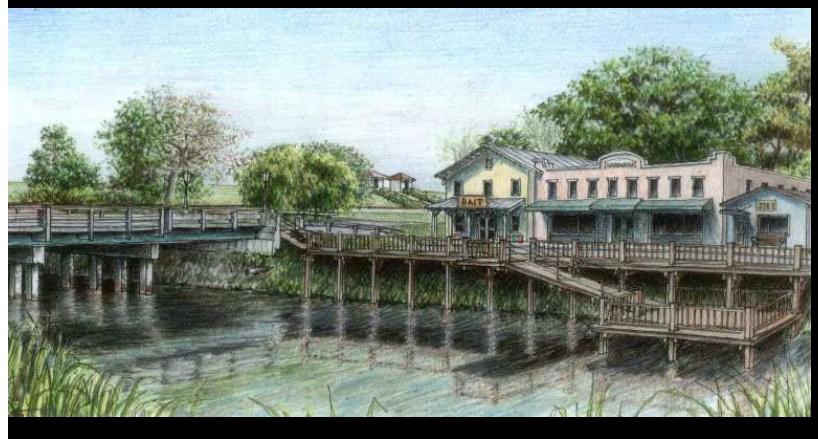
citywide plans



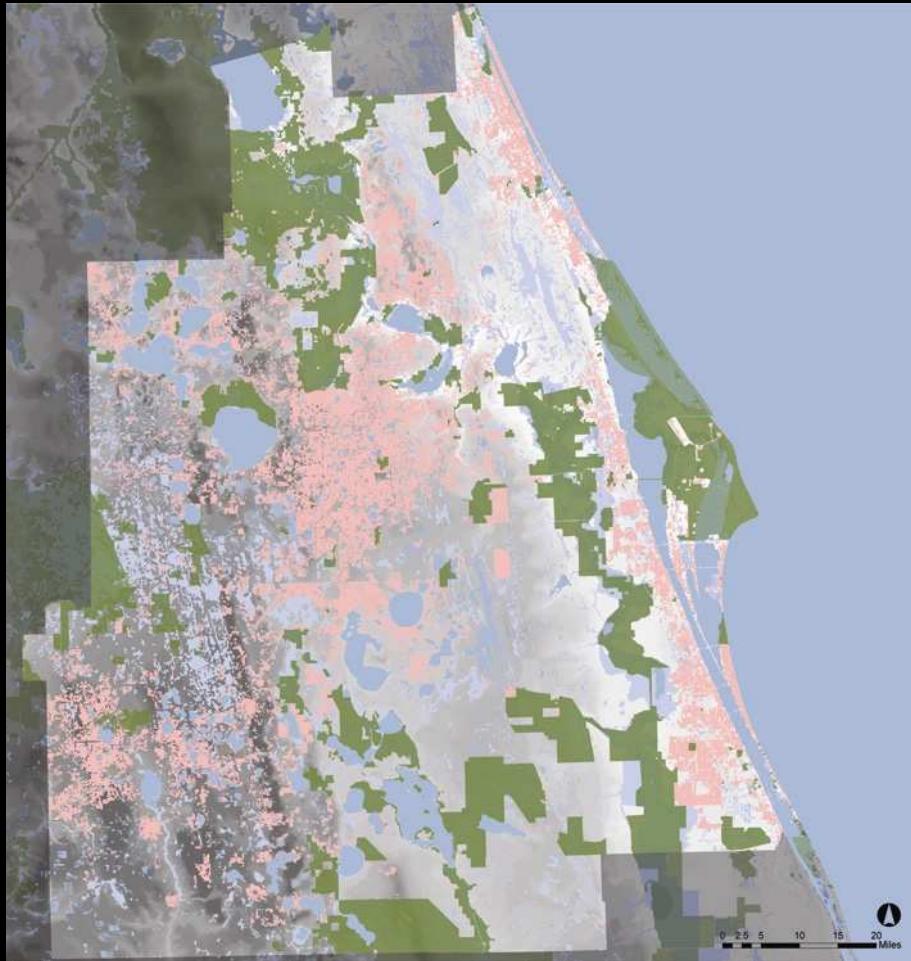
proposed
transit lines

Fayetteville Arkansas

regional planning



trend model: 2000



■ protected lands 2000 ■ developed areas 2000
■ water bodies

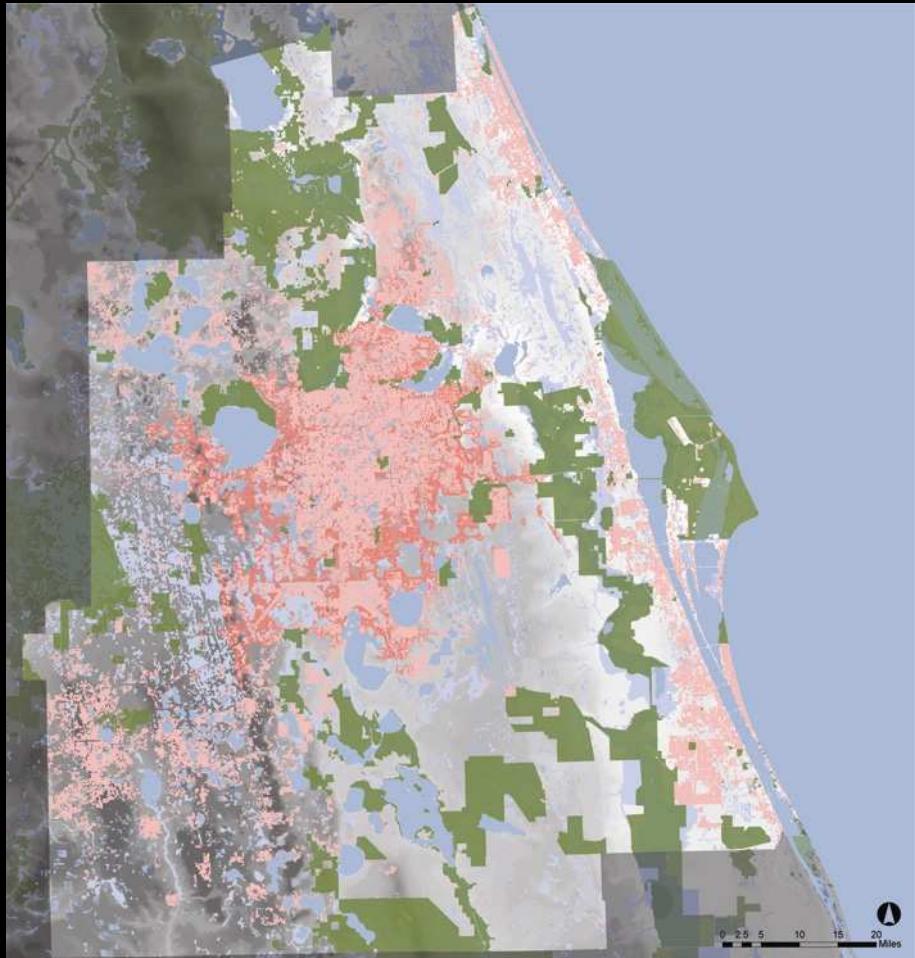
3,852,599 developable acres
3,048,058 2000 regional population

2.49 average household size
1,224,120 households

1.44 units per acre
849,350 developed acres

Brevard	675,402	390,339	136,073
Lake	740,599	426,473	97,157
Orange	642,122	462,515	181,553
Osceola	964,015	649,425	59,873
Polk	1,287,102	960,475	175,783
Seminole	220,743	161,667	76,370
Volusia	782,644	520,904	122,541
Total	5,312,627	3,571,798	849,350

trend model: 2010



protected lands 2000 developed areas 2000
 water bodies developed areas 2000-2050

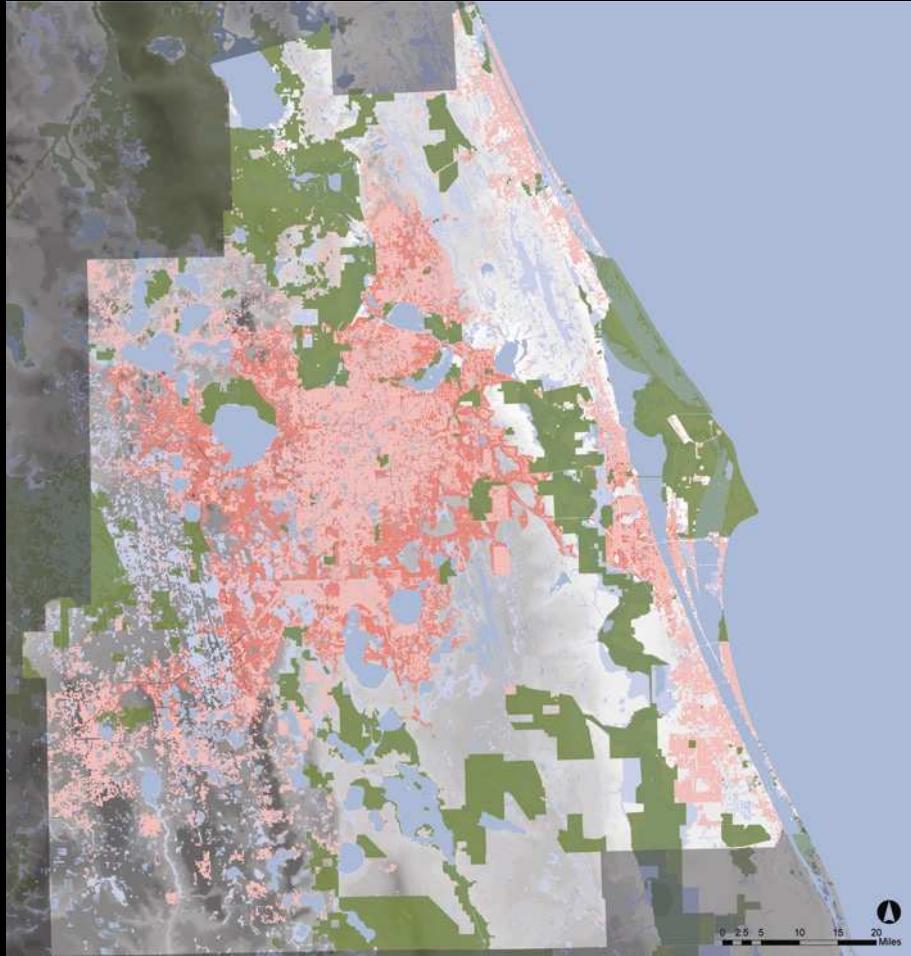
3,852,599 developable acres
3,048,058 2000 regional population

3,860,600 2010 regional population
2.49 average household size
1,550,442 households

1.44 units per acre
1,076,696 developed acres

Brevard	675,402	390,339	136,918
Lake	740,599	426,473	117,302
Orange	642,122	462,515	303,077
Osceola	964,015	649,425	90,270
Polk	1,287,102	960,475	185,396
Seminole	220,743	161,667	114,438
Volusia	782,644	520,904	129,295
Total	5,312,627	3,571,798	1,076,696

trend model: 2020



protected lands 2000 developed areas 2000
 water bodies developed areas 2000-2050

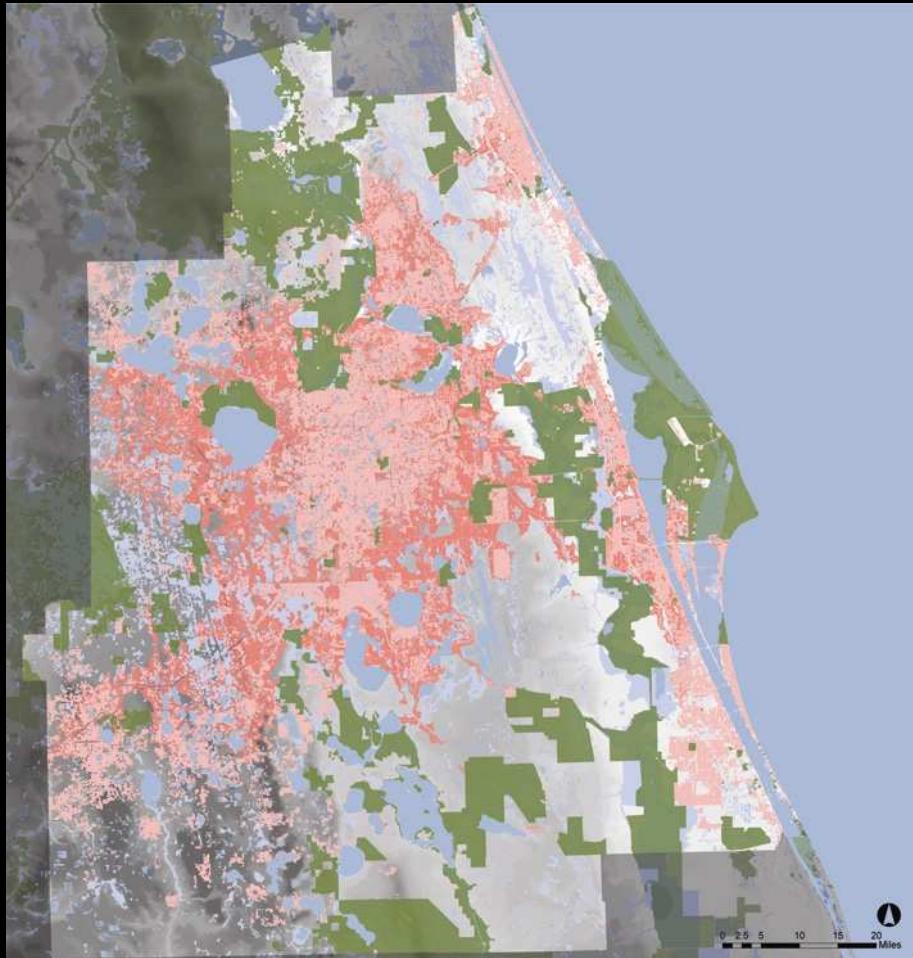
3,852,599 developable acres
3,048,058 2000 regional population

4,607,100 2020 regional population
2.49 average household size
1,550,442 households

1.44 units per acre
1,284,890 developed acres

Brevard	675,402	390,339	157,701
Lake	740,599	426,473	159,617
Orange	642,122	462,515	354,585
Osceola	964,015	649,425	118,977
Polk	1,287,102	960,475	215,488
Seminole	220,743	161,667	128,578
Volusia	782,644	520,904	149,944
Total	5,312,627	3,571,798	1,284,890

trend model: 2030

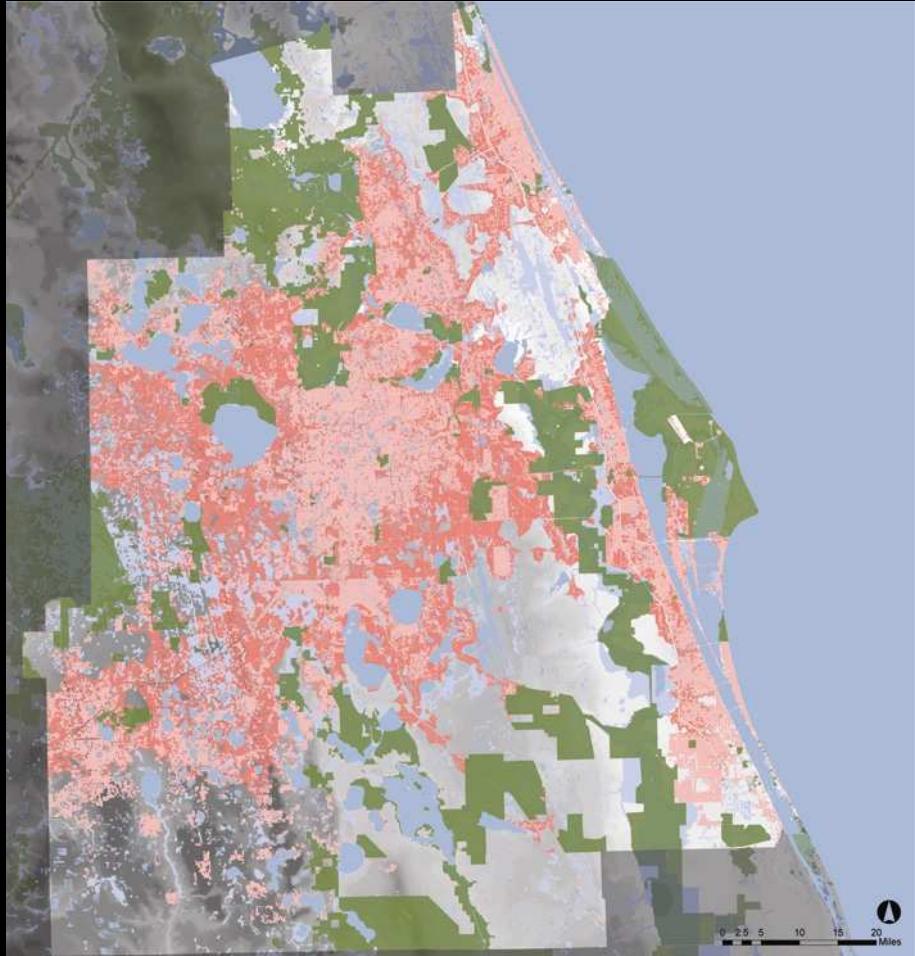


3,852,599 developable acres
3,048,058 2000 regional population
5,290,800 2030 regional population
2.49 average household size
2,124,819 households

1.44 units per acre
1,475,569 developed acres

Brevard	675,402	390,339	179,729
Lake	740,599	426,473	207,976
Orange	642,122	462,515	379,797
Osceola	964,015	649,425	136,845
Polk	1,287,102	960,475	253,611
Seminole	220,743	161,667	134,163
Volusia	782,644	520,904	183,448
Total	5,312,627	3,571,798	1,475,569

trend model: 2040



■ protected lands 2000 ■ developed areas 2000
■ water bodies ■ developed areas 2000-2050

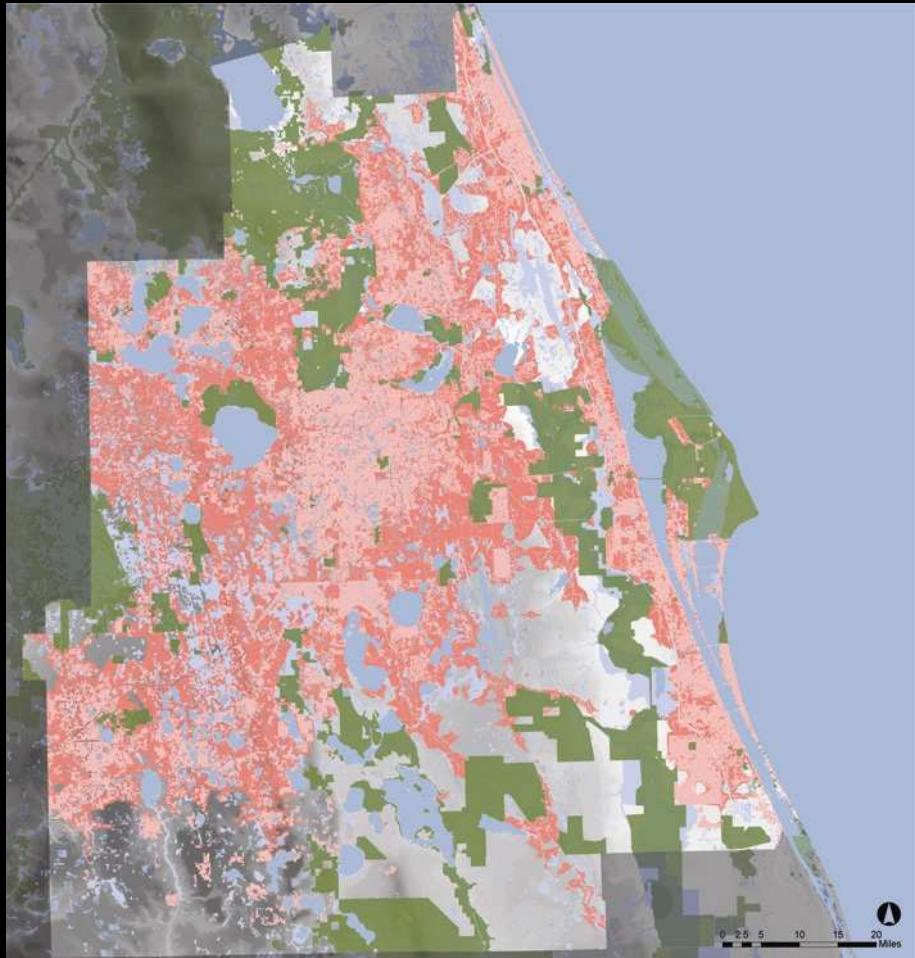
3,852,599 developable acres
3,048,058 2000 regional population

6,199,988 2040 regional population
2.49 average household size
2,489,955 households

1.44 units per acre
1,729,136 developed acres

Brevard	675,402	390,339	204,255
Lake	740,599	426,473	266,470
Orange	642,122	462,515	398,885
Osceola	964,015	649,425	161,647
Polk	1,287,102	960,475	313,566
Seminole	220,743	161,667	139,554
Volusia	782,644	520,904	244,759
Total	5,312,627	3,571,798	1,729,136

trend model: 2050



■ protected lands 2000 ■ developed areas 2000
■ water bodies ■ developed areas 2000-2050

3,852,599 developable acres
3,048,058 2000 regional population

7,217,534 2050 regional population
2.49 average household size
2,898,608 households

1.44 units per acre
2,012,923 developed acres

Brevard	675,402	390,339	229,044
Lake	740,599	426,473	313,630
Orange	642,122	462,515	414,936
Osceola	964,015	649,425	212,101
Polk	1,287,102	960,475	390,341
Seminole	220,743	161,667	143,628
Volusia	782,644	520,904	309,243
Total	5,312,627	3,571,798	2,012,923

“systems” approach



- Ocala Forest
- Network of Springs
- Ridgeland
- Dunes & Coastal Areas
- Large Contiguous Tracts

Source: www.myregion.org / University of Pennsylvania

land acquisition

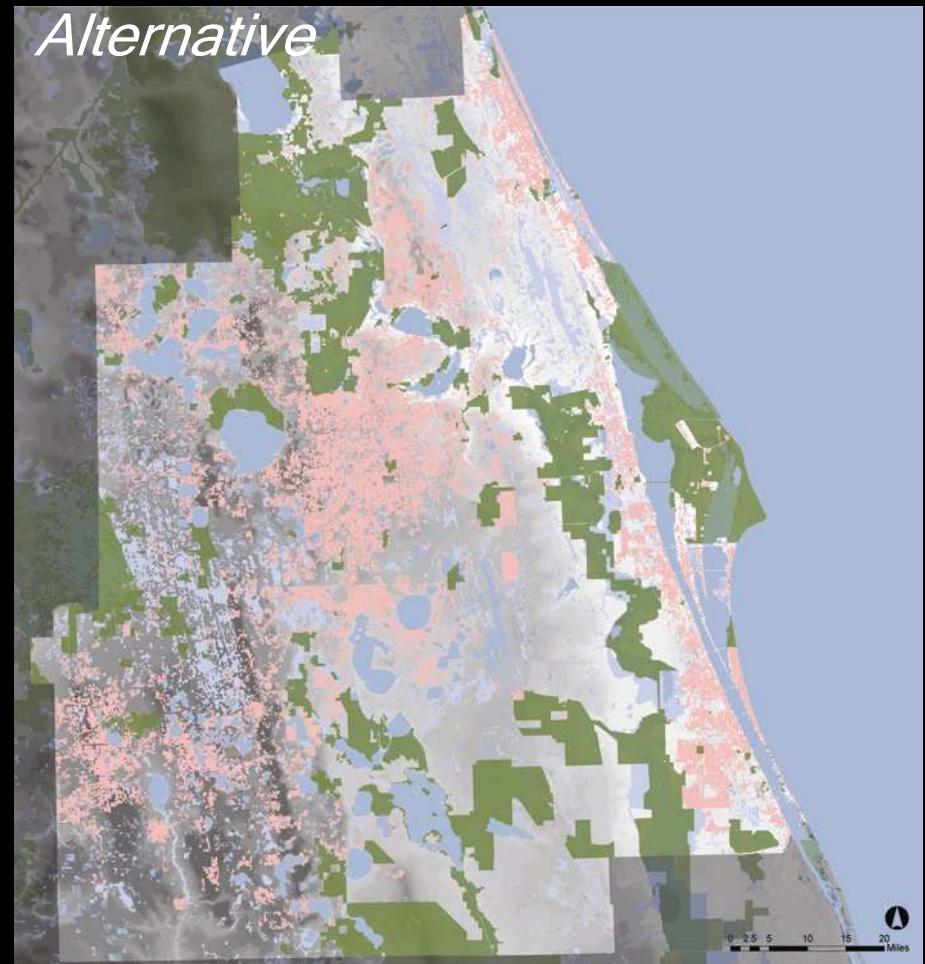
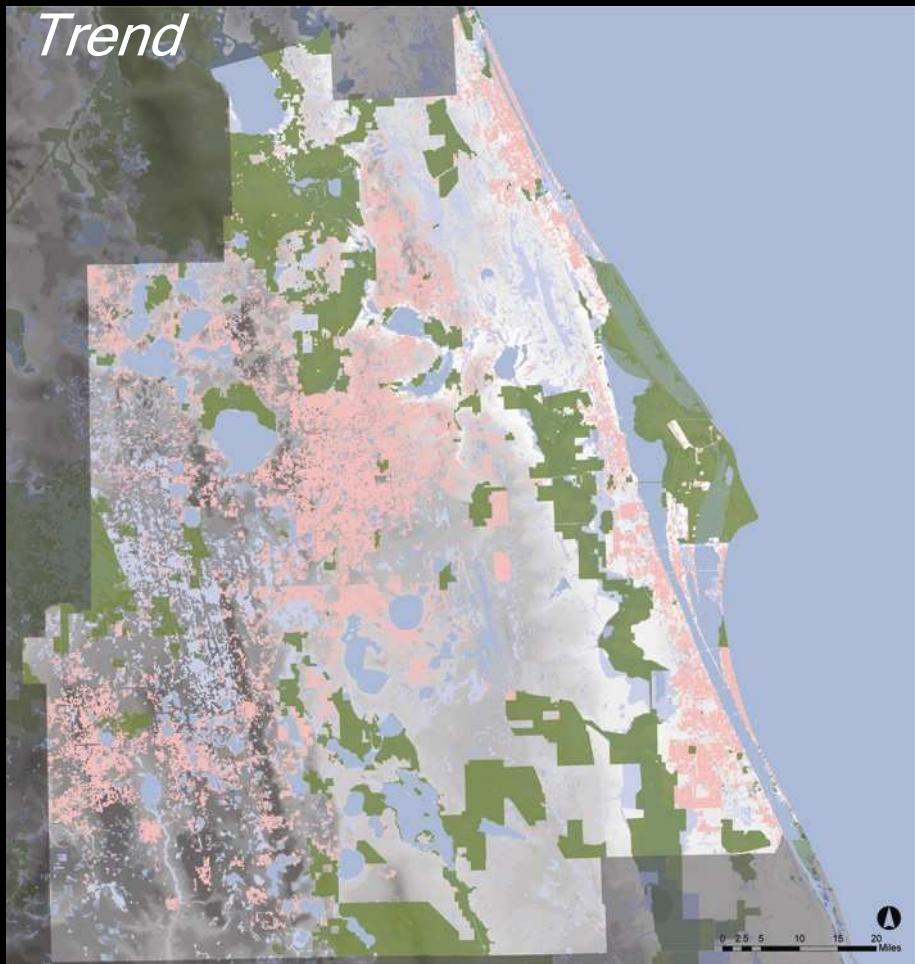
2040-2050



- Existing conserved lands
- Contiguous Open Space
- Acquired Lands

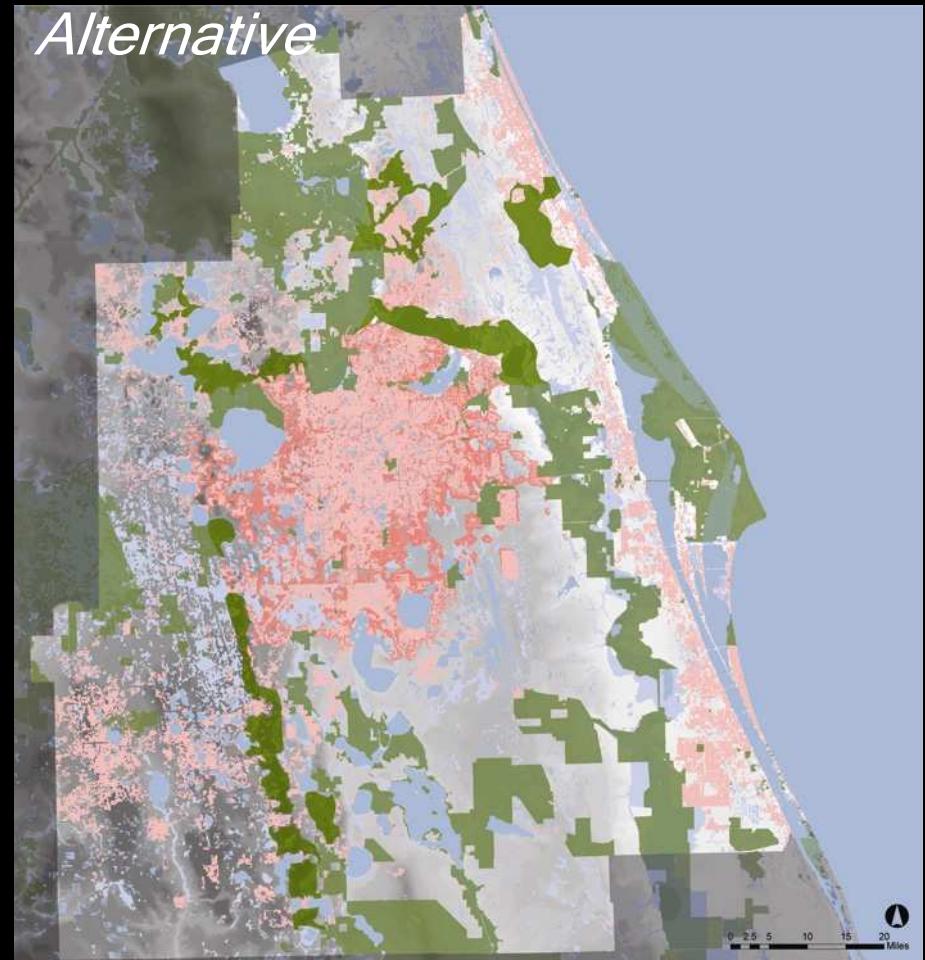
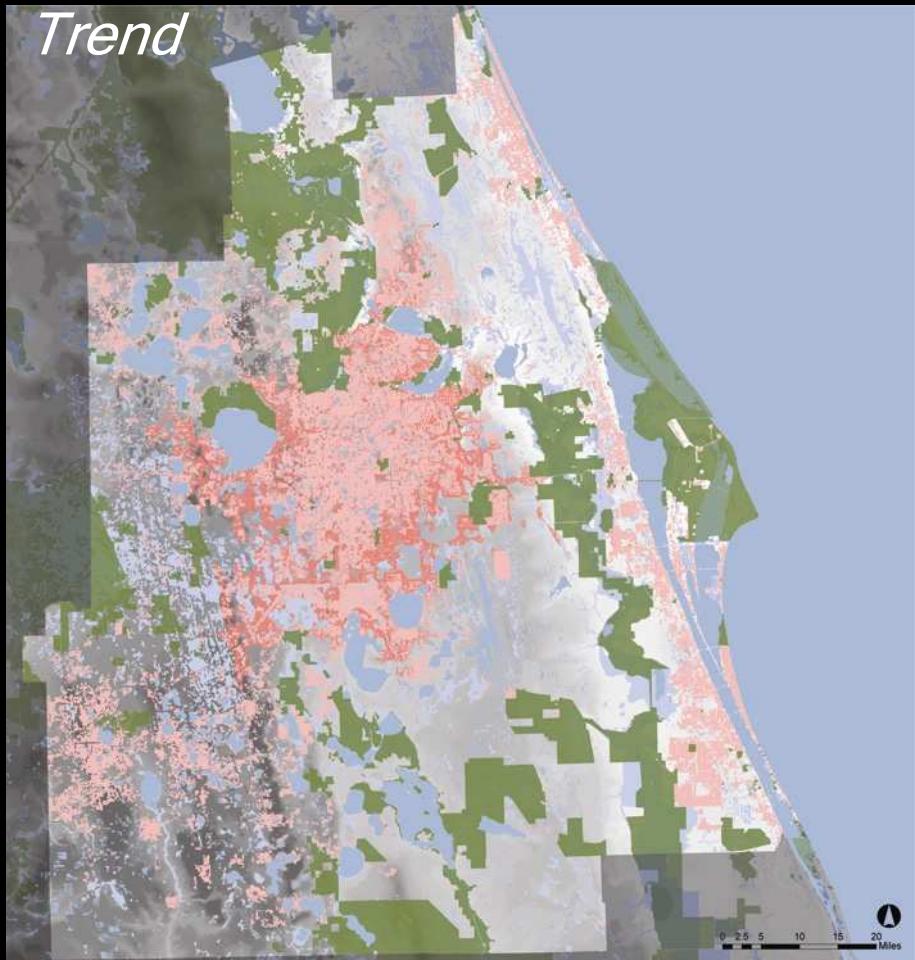
Source: www.myregion.org / University of Pennsylvania

2000



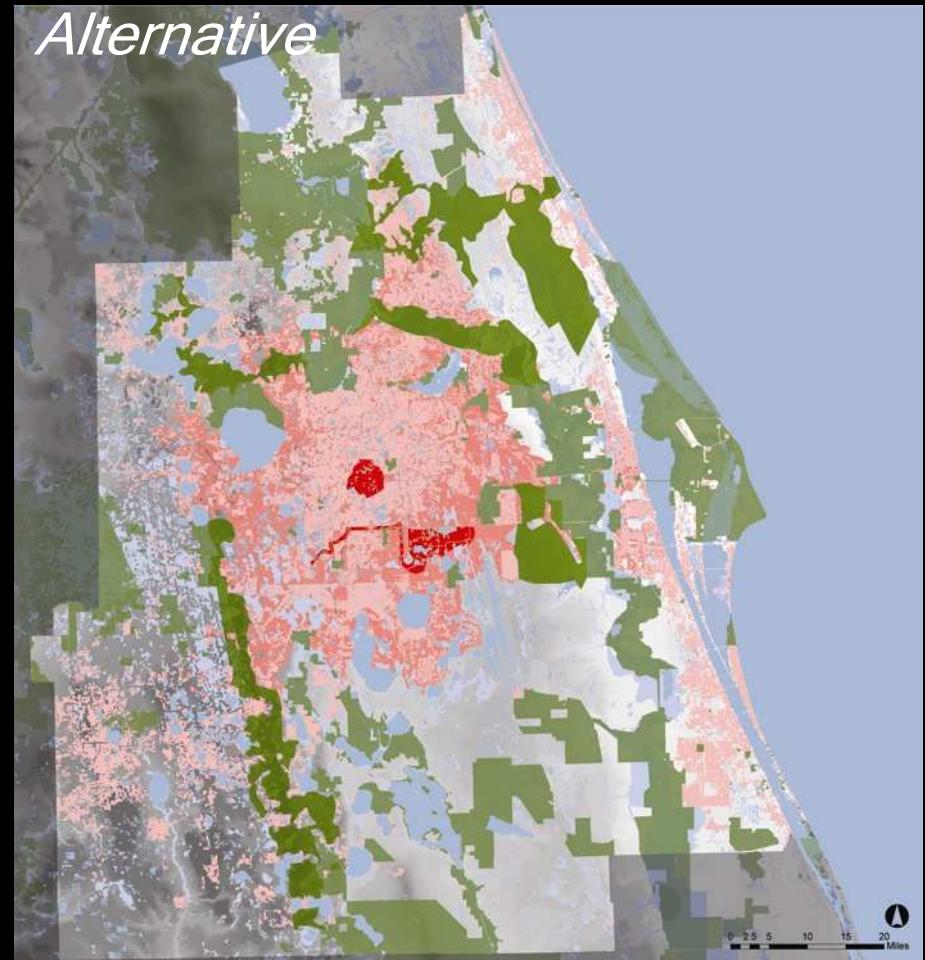
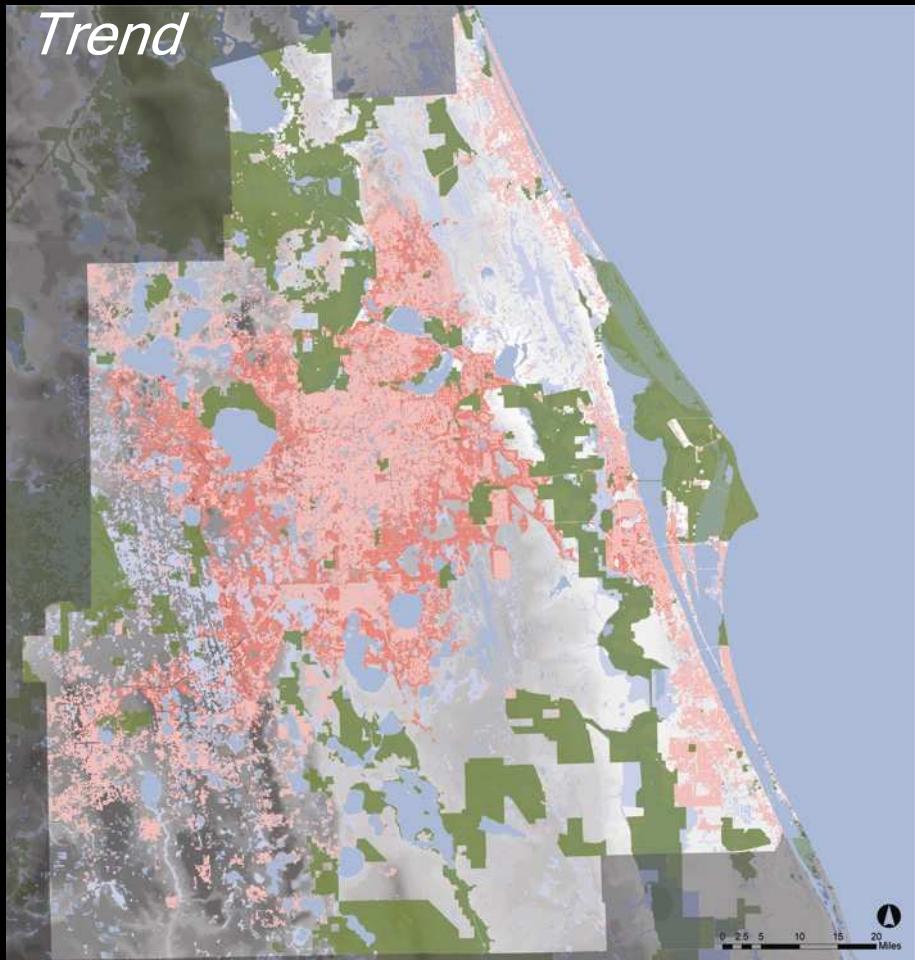
Source: www.myregion.org / University of Pennsylvania

2010



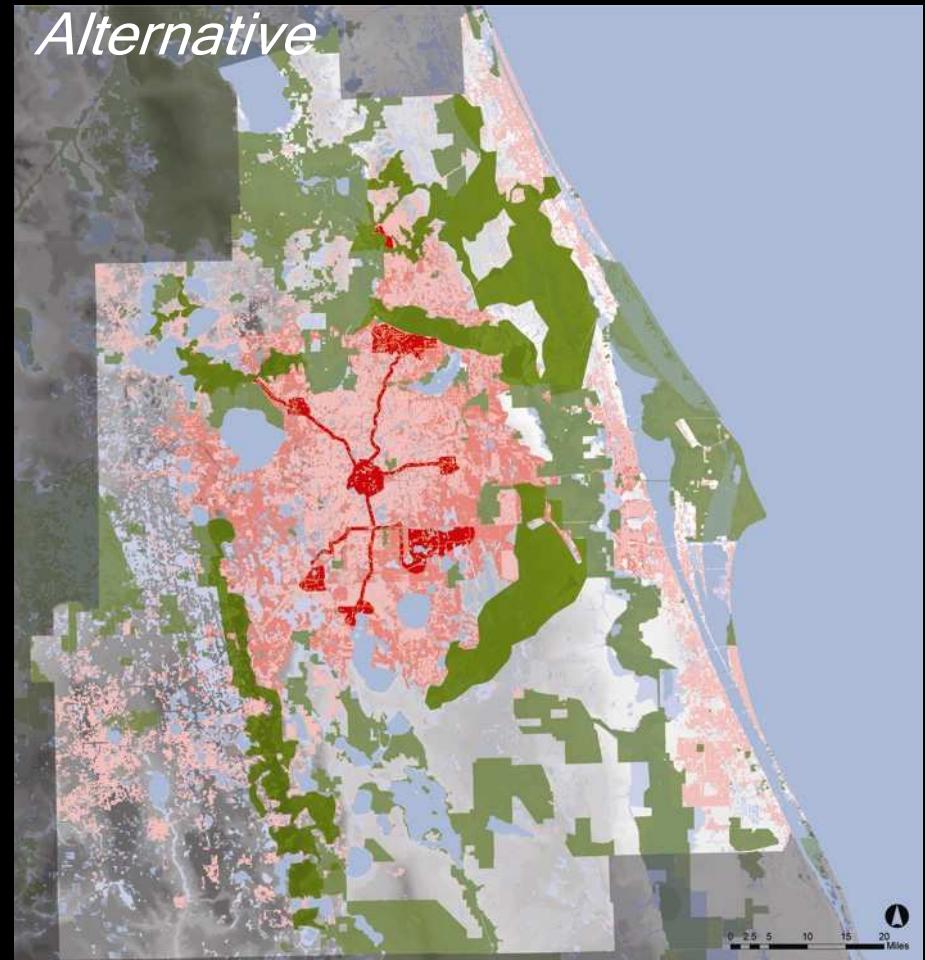
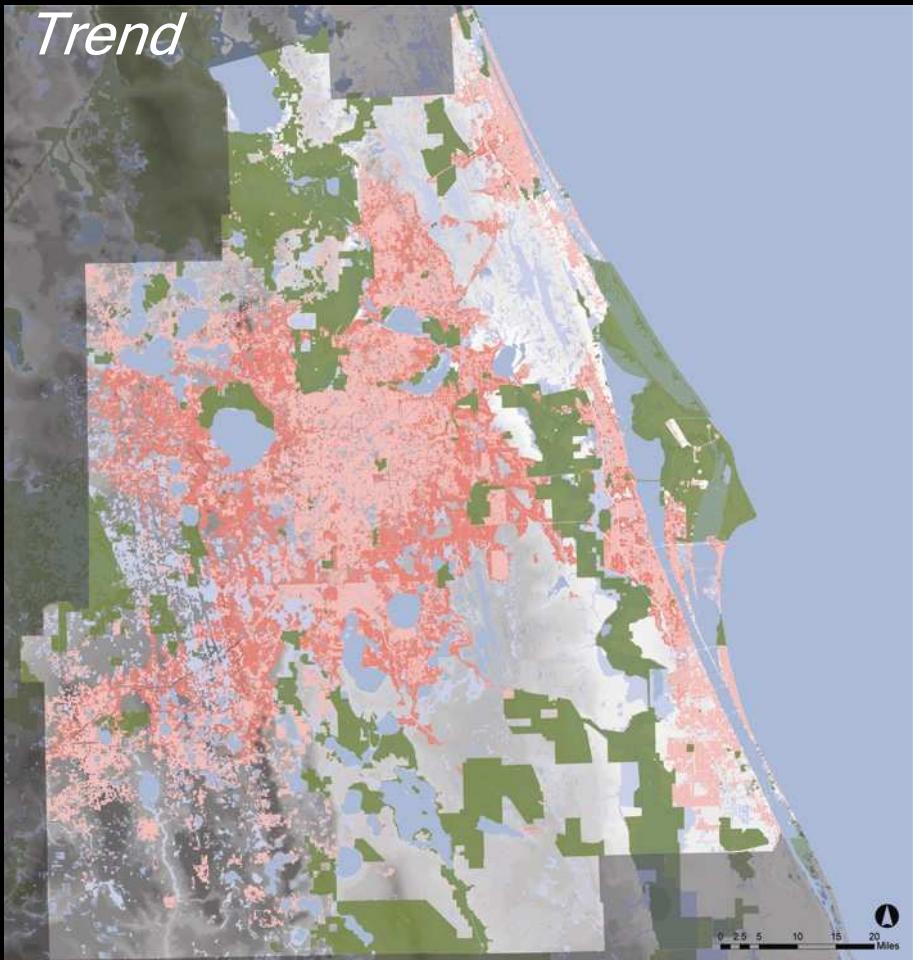
Source: www.myregion.org / University of Pennsylvania

2020



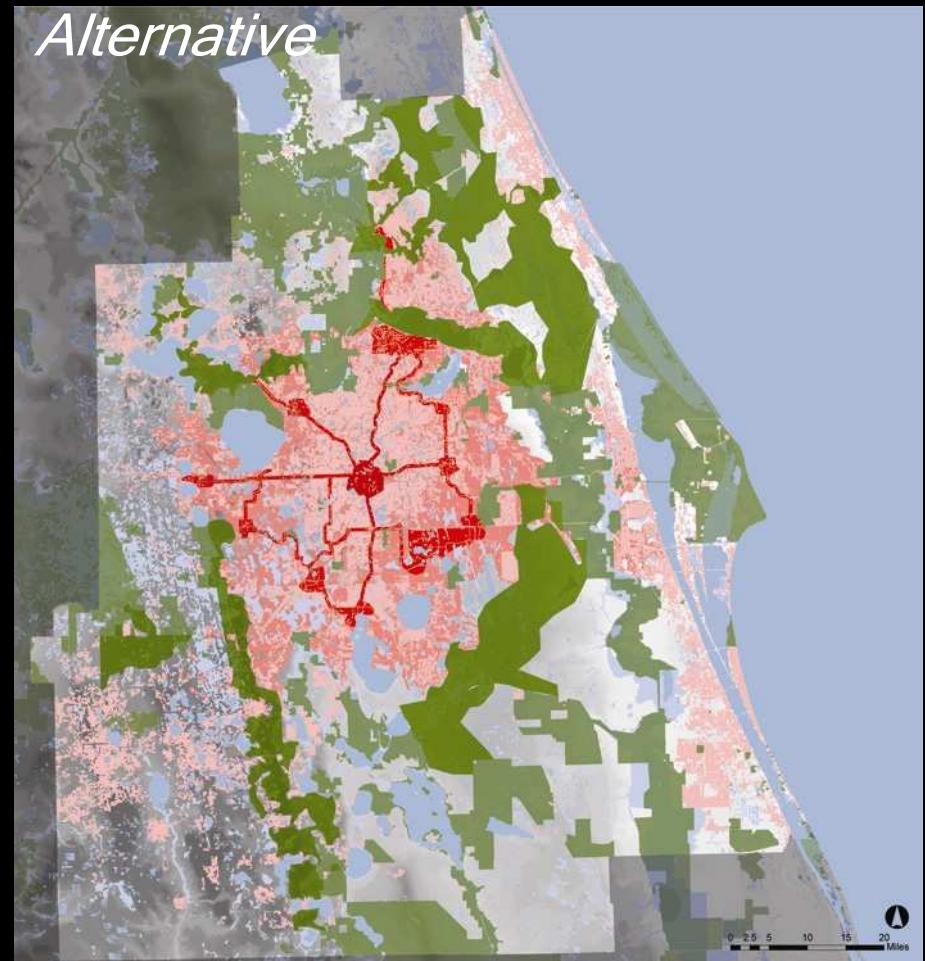
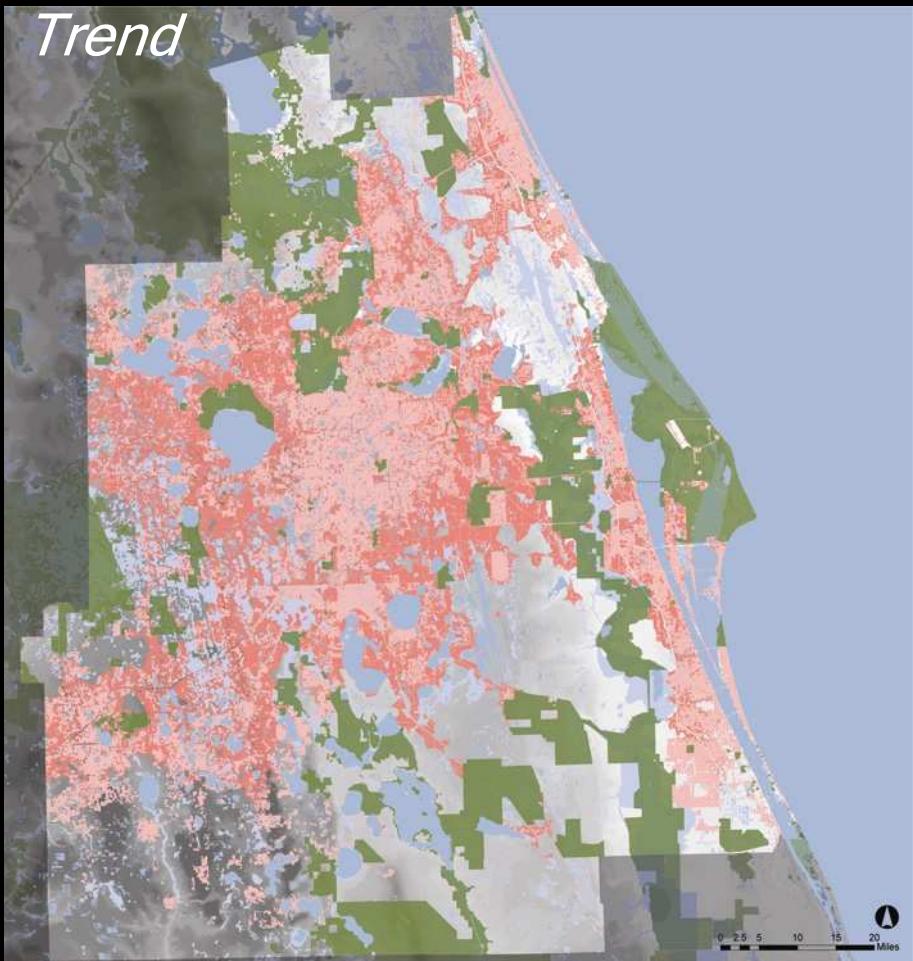
Source: www.myregion.org / University of Pennsylvania

2030



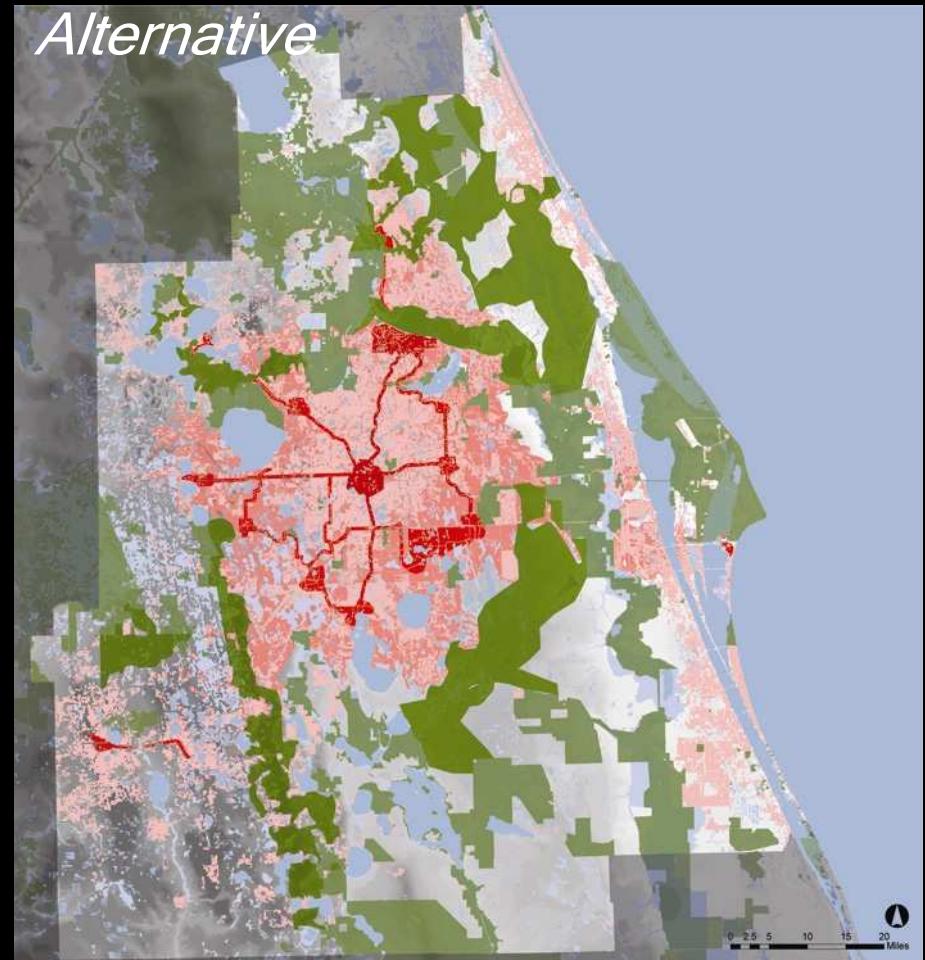
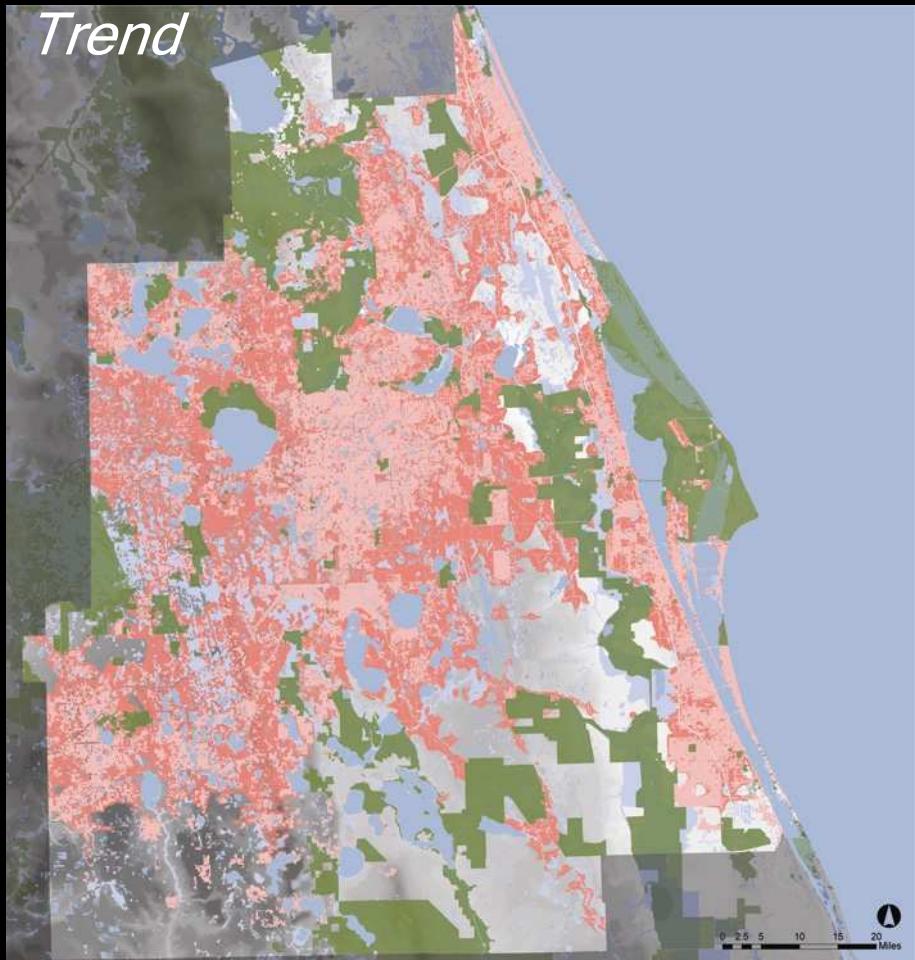
Source: www.myregion.org / University of Pennsylvania

2040



Source: www.myregion.org / University of Pennsylvania

2050



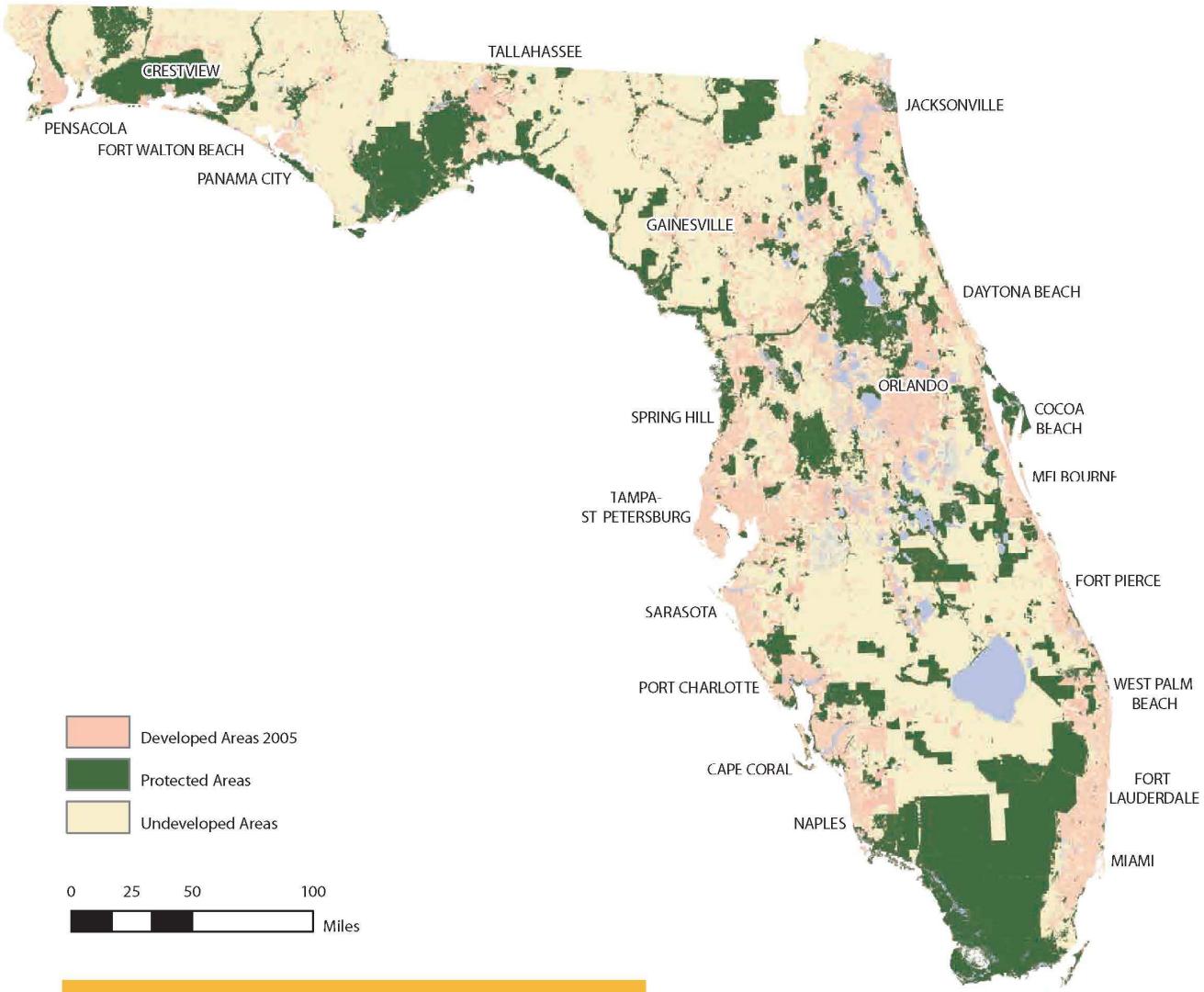
Source: www.myregion.org / University of Pennsylvania

costs

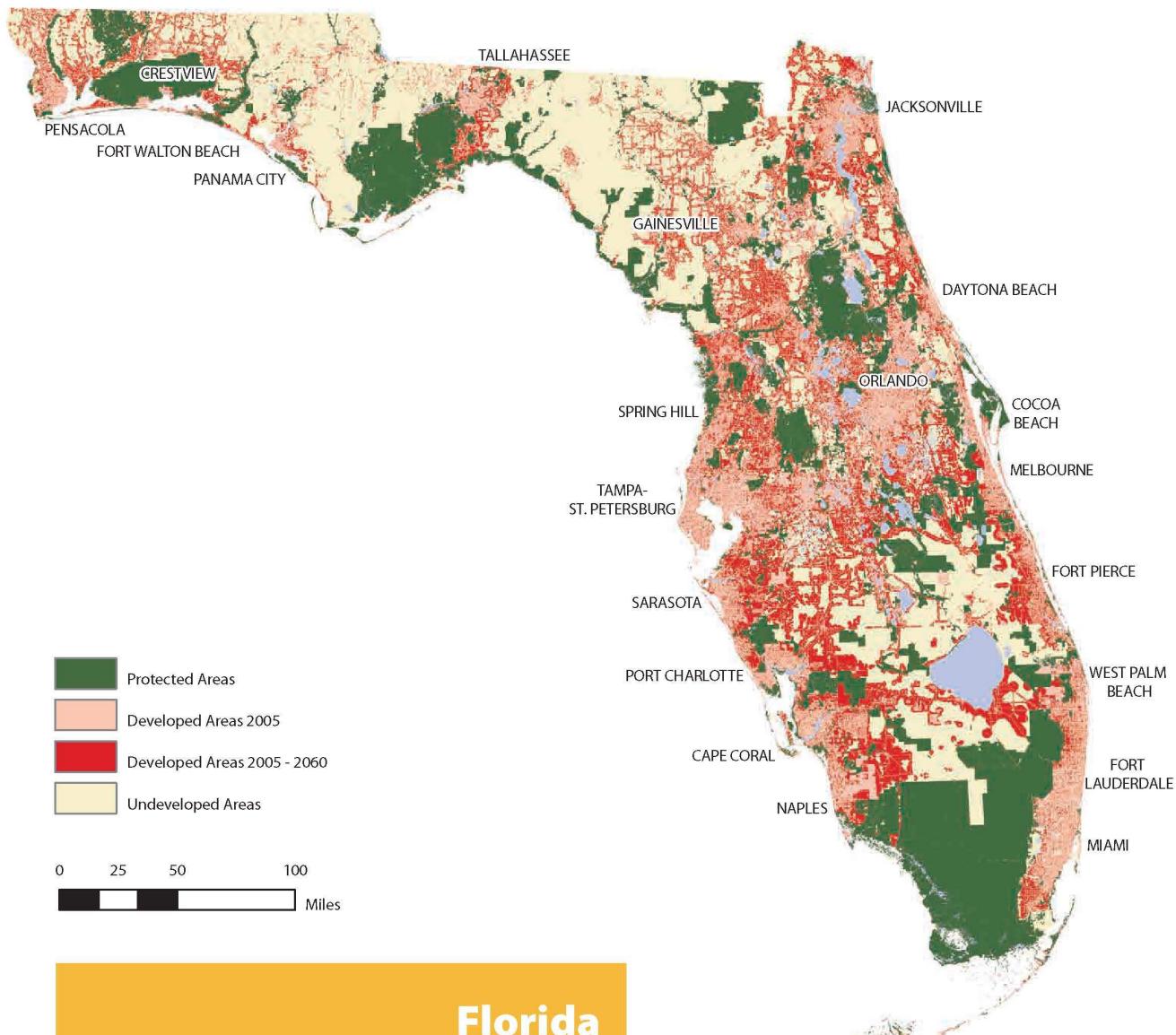
Cost	Acres	Cost/Acre	Total
Urbanization costs for new development	420,410	\$90,000	\$37.8 Billion
Infrastructure costs for redevelopment	328,904	\$20,000	\$6.6 Billion
Conservation land acquisition	724,429	\$25,000	\$18.1 Billion
High-speed rail, transit, freight, ferry			\$ 27.9 Billion

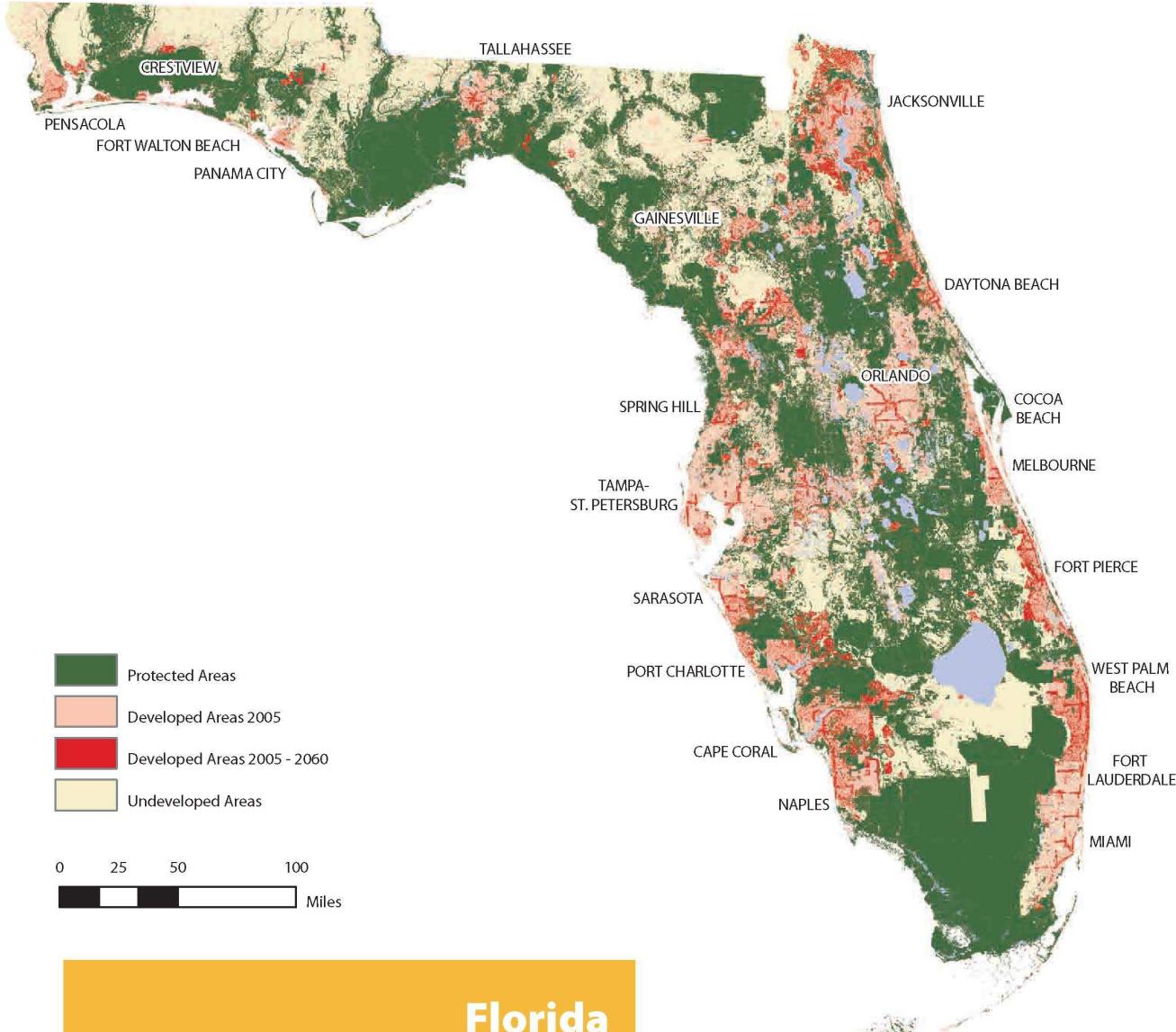
TOTAL COSTS OF ALTERNATIVE MODEL \$90.4 Billion
TOTAL COSTS OF “TREND” MODEL \$116.7 Billion

COST SAVINGS WITH ALTERNATIVE MODEL = \$26.3 BILLION
for a far superior form of development



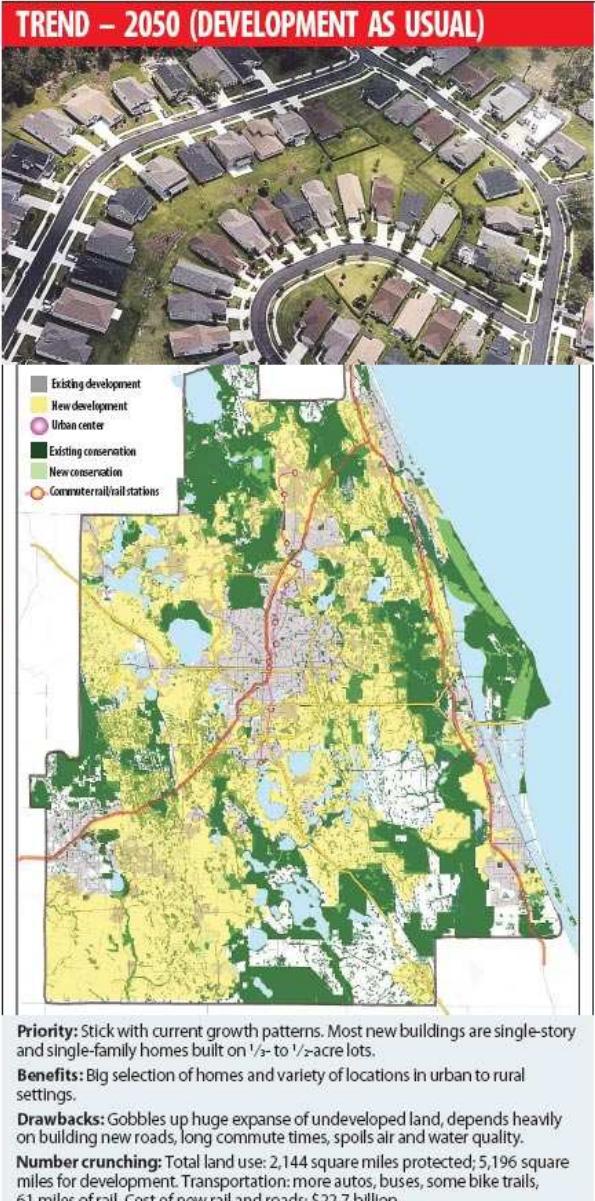
Florida Existing 2005





Florida Alternative 2060

myregion.org



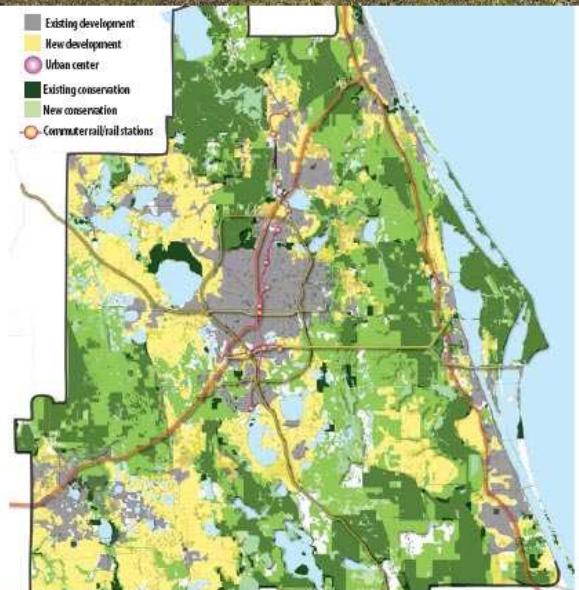
Orlando, Florida

myregion.org

CHOICE A: GREEN AREAS (PROTECTING WILD PLACES)



■ Existing development
■ New development
● Urban center
■ Existing conservation
■ New conservation
● Commuter rail/rail stations



Priority: Buy or otherwise protect vast assortment of environmentally-healthy lands.

Benefits: Best guarantee for preserving drinking-water sources and ensuring survival of plants and wildlife. Offers extensive recreation in wilderness and park settings.

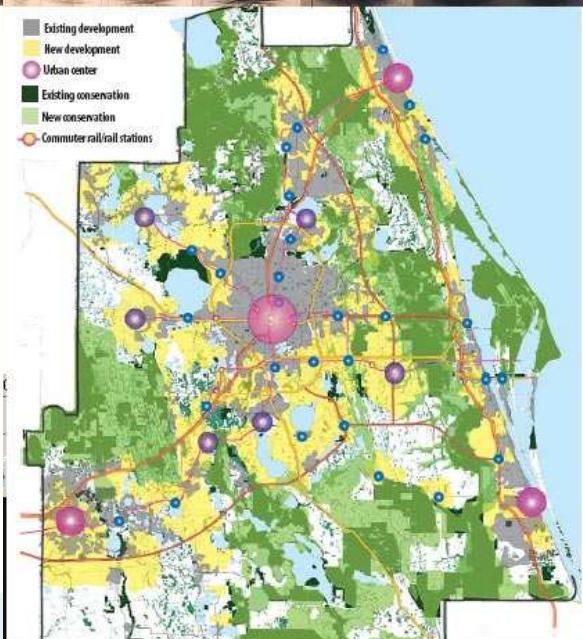
Drawbacks: Would cost tens of billions of dollars to buy and manage lands. Lands not purchased would be vulnerable to development. Not as optimal for air quality, commuting time and water conservation as the Centers and Corridors choices.

Number crunching: Total land use: 4,627 square miles protected; 3,536 square miles for development. Transportation: more autos, buses, bike trails, 272 miles of rail. Cost of new roads and rail: \$34.4 billion.

CHOICE B: CENTERS (ANTI-SPRAWL)



■ Existing development
■ New development
● Urban center
■ Existing conservation
■ New conservation
● Commuter rail/rail stations



Priority: Compact communities where residents can walk to work, play and shop. Urban areas with fewer single-family homes. Increased mix of multifloor apartments and condos.

Benefits: Thriving communities with unique attractions, least reliance on cars and commuting, best air quality.

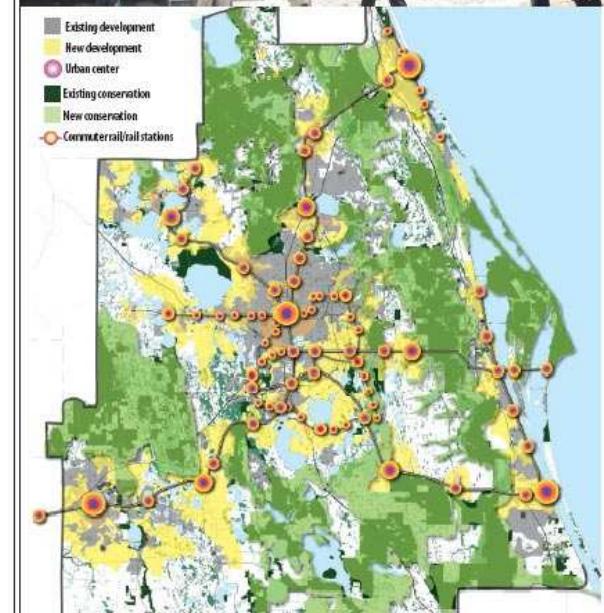
Drawbacks: Potential crime and congestion in densely populated communities, more roads built than under Green Areas and Corridors choices.

Number crunching: Total land use: 4,198 square miles protected; 3,462 square miles for development. Transportation: more autos, buses, bike trails, 282 miles of rail. Cost of new roads and rail: \$44.9 billion.

CHOICE C: CORRIDORS (TRANSPORTATION FRIENDLY)



■ Existing development
■ New development
● Urban center
■ Existing conservation
■ New conservation
● Commuter rail/rail stations



Priority: Cut back reliance on cars by significant expansion of rail, trolley and bus service.

Benefits: Transit routes and stops attract clusters of development, employment and commerce. Favors apartments and multifamily dwellings with single-family homes on smaller lots than in 2005. Paves less land than Green Areas and Centers choices and conserves the most water.

Drawbacks: Less natural ecosystem permanently protected than under Green Areas and Centers choices.

Number crunching: Total land use: 3,816 square miles protected; 3,278 square miles for development. Transportation: more autos, buses, bike trails, 413 miles of rail, streetcars. Cost of new roads and rail: \$44.9 billion.

Orlando, Florida

new urbanists have:



the convenient remedy



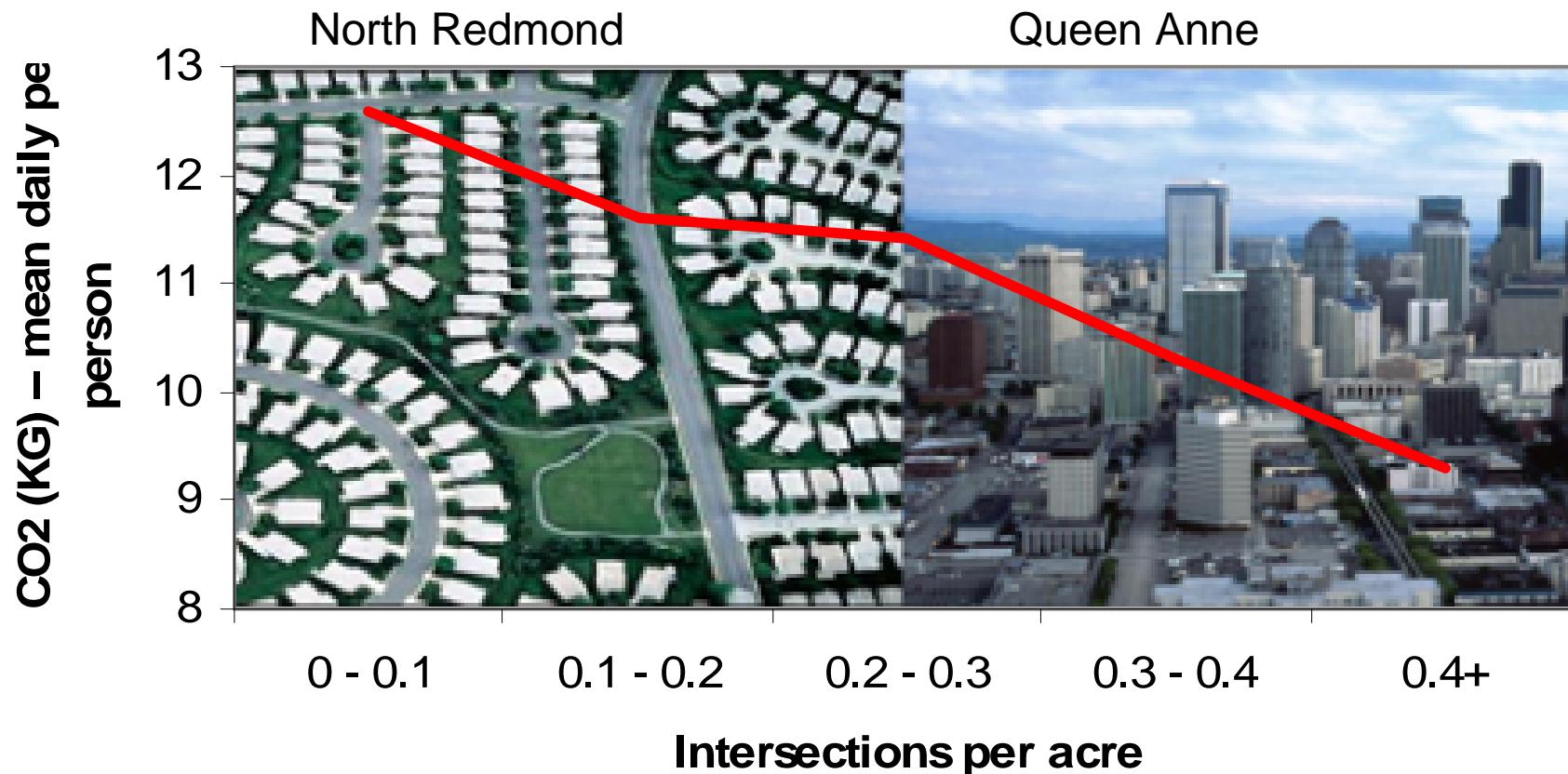
www.doverkohl.com

CO₂ and density



Source: LUTAQH final report, King County ORTP, 2005

CO₂ and connectivity



Source: LUTAQH final report, King County ORTP, 2005

CO_2 and convenient retail

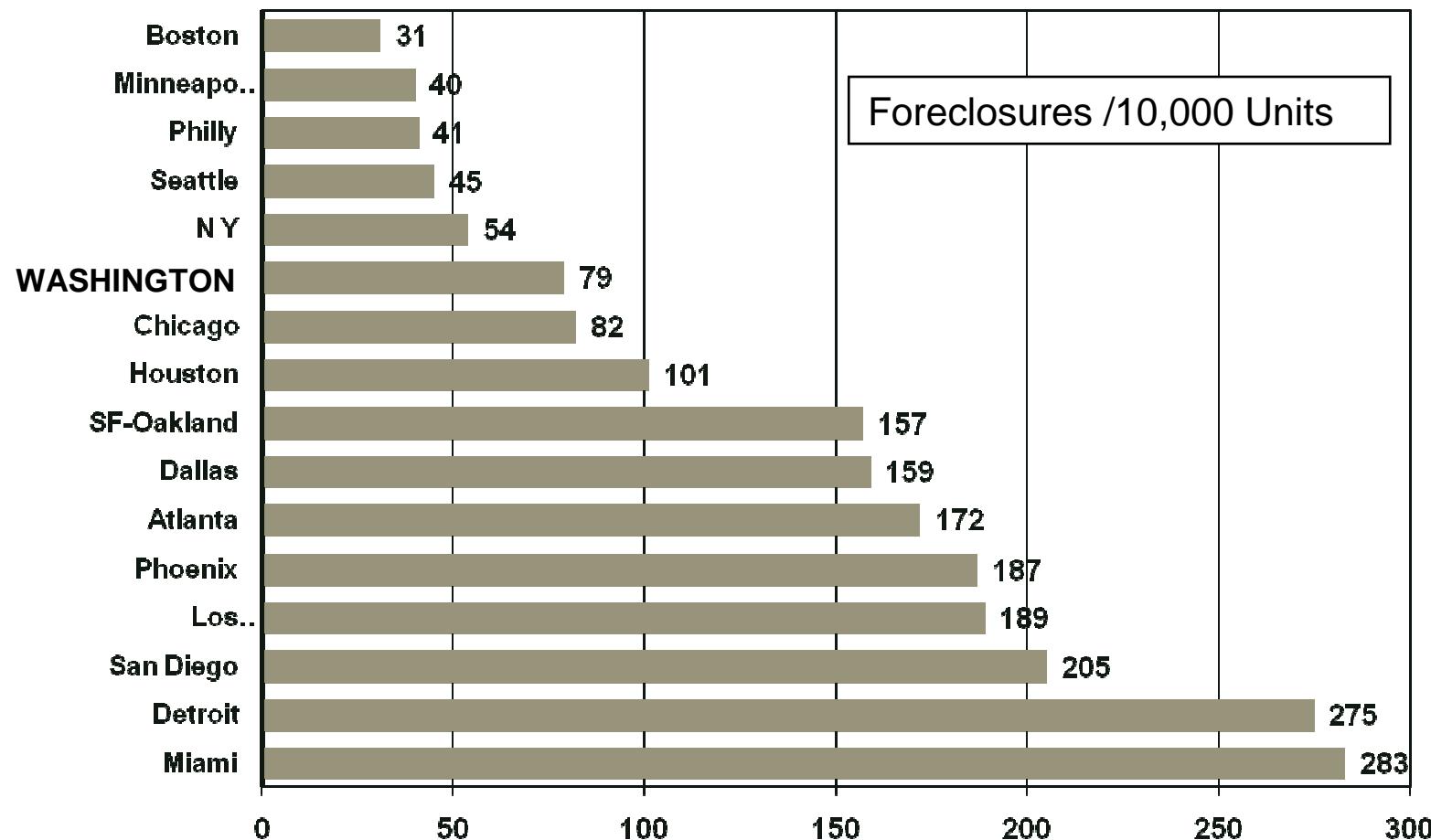


Source: LUTAQH final report, King County ORTP, 2005

Metro Comparisons

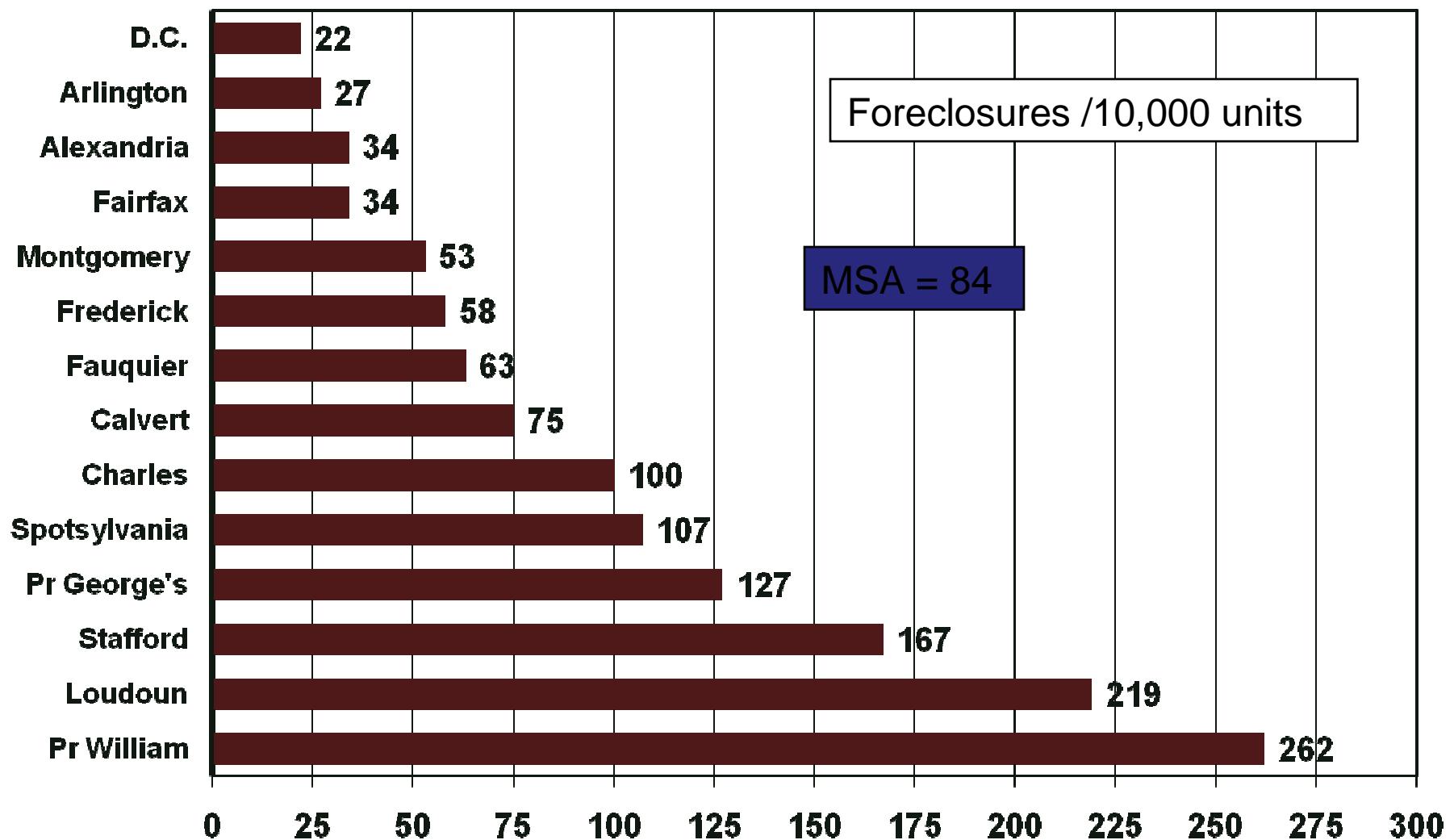
Mortgage Foreclosure Rates

Q3 - 2007



Source: RealtyTrac, Center for Regional Analysis 106

Mortgage Foreclosure Rates by County – Nov 30, 2007



LEED-ND

PILOT VERSION



LEED for Neighborhood Development Rating System



The heart of the new Kavell community, overlooked by multi-story mixed-use and town buildings.

DOVER, KOHL & PARTNERS
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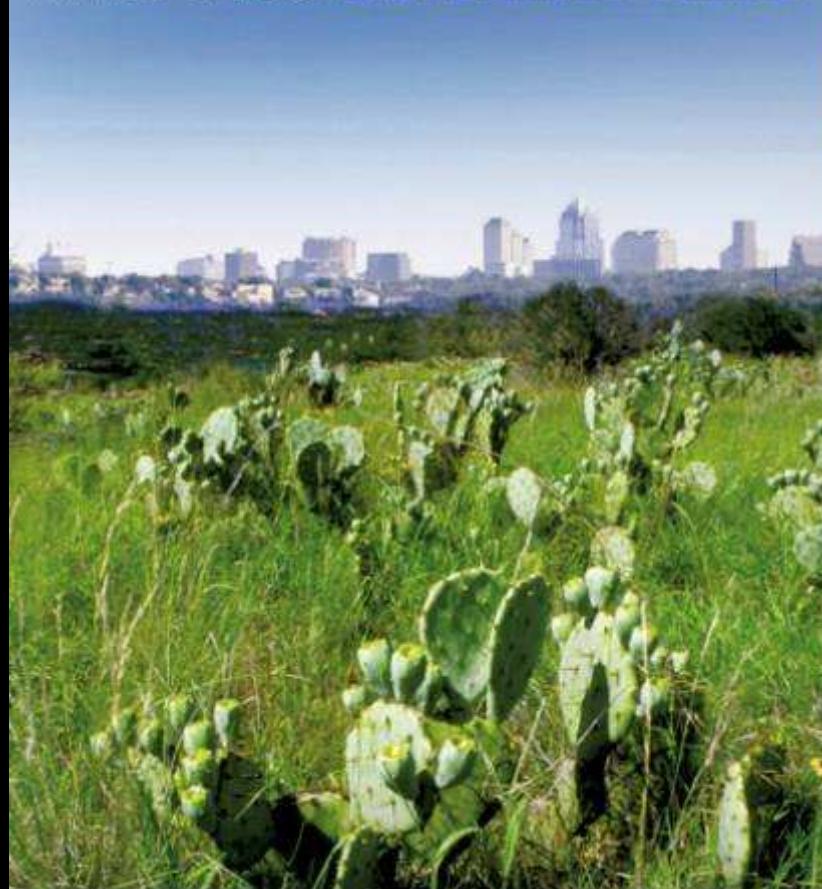
CNU X VI

AUSTIN TEXAS

NEW URBANISM AND THE
EMERGING METROPOLIS



APRIL 3-6, 2008 **SAVE THE DATE**





2008 NATIONAL CONGRESS OF THE AUSTRALIAN COUNCIL FOR NEW URBANISM

6th – 9th February, 2008