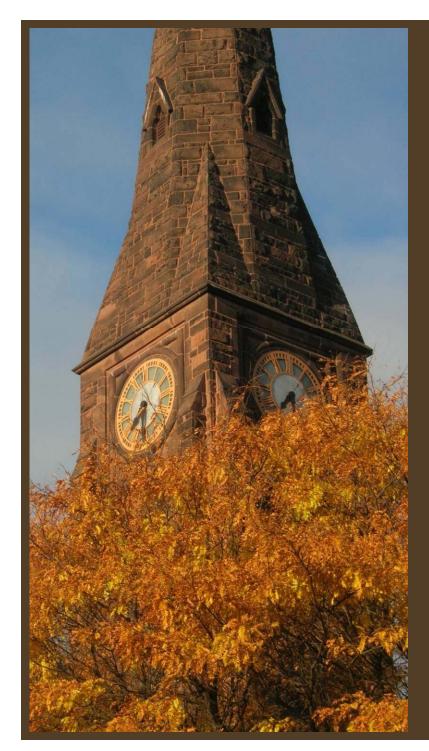
# *Envisioning* SUSTAINABLE NORTHAMPTON

UNIVERSITY OF NOTRE DAME SCHOOL OF ARCHITECTURE



## OUTLINE

Introduction & background

Observation of existing conditions

History of development in Northampton

The threat of sprawl

Sustainable Northampton

OUR DESIGN PROPOSALS I. Reinforcing the historic centers: Downtown, Leeds, Baystate, Florence II. New development: Village Hill III. Retrofitting sprawl: King Street

Conclusion

### PROJECT BACKGROUND

#### University of Notre Dame School of Architecture

Northampton Design Forum

Design Northampton Week



### DESIGN NORTHAMPTON WEEK

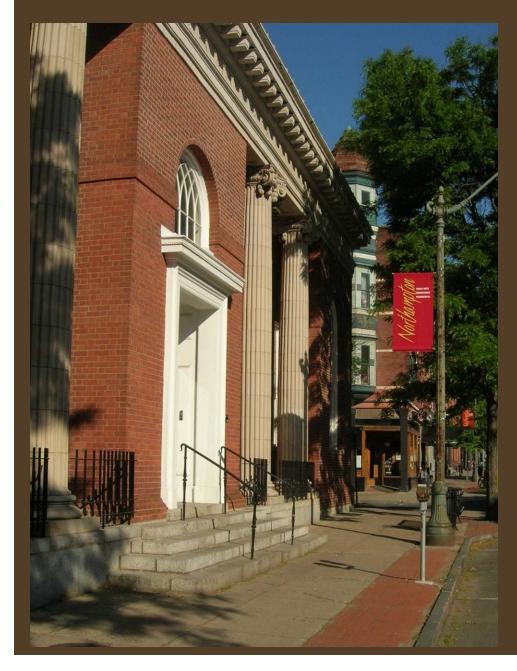








### WHAT WE HEARD FROM YOU



#### CONCERNS OF THE COMMUNITY

- Land conservation
- Environmental protection
- •Affordable housing
- Survival of local business, agriculture
- Lengthy approval process for development
- Taxes & public revenue
- Education, arts, culture
- Fear of growth/density
- Traffic & parking
- Public transit
- Design for pedestrians, cyclists









### EVOLUTION of a CITY

A brief history of development in Northampton

### FIGURE-GROUND DIAGRAMS



## FIGURE-GROUND DIAGRAMS

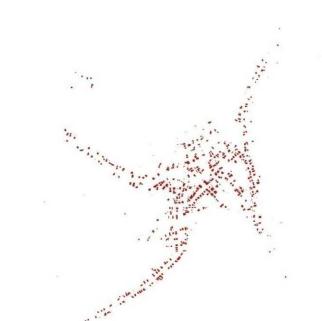


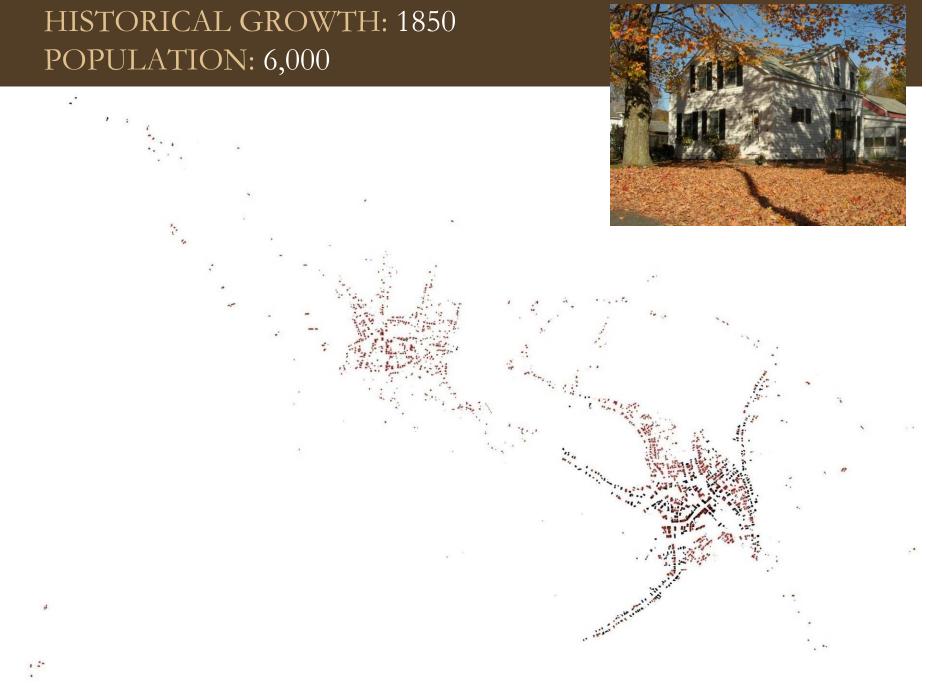
### HISTORICAL GROWTH: 1800 POPULATION: 2,000

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e<sup>15</sup>

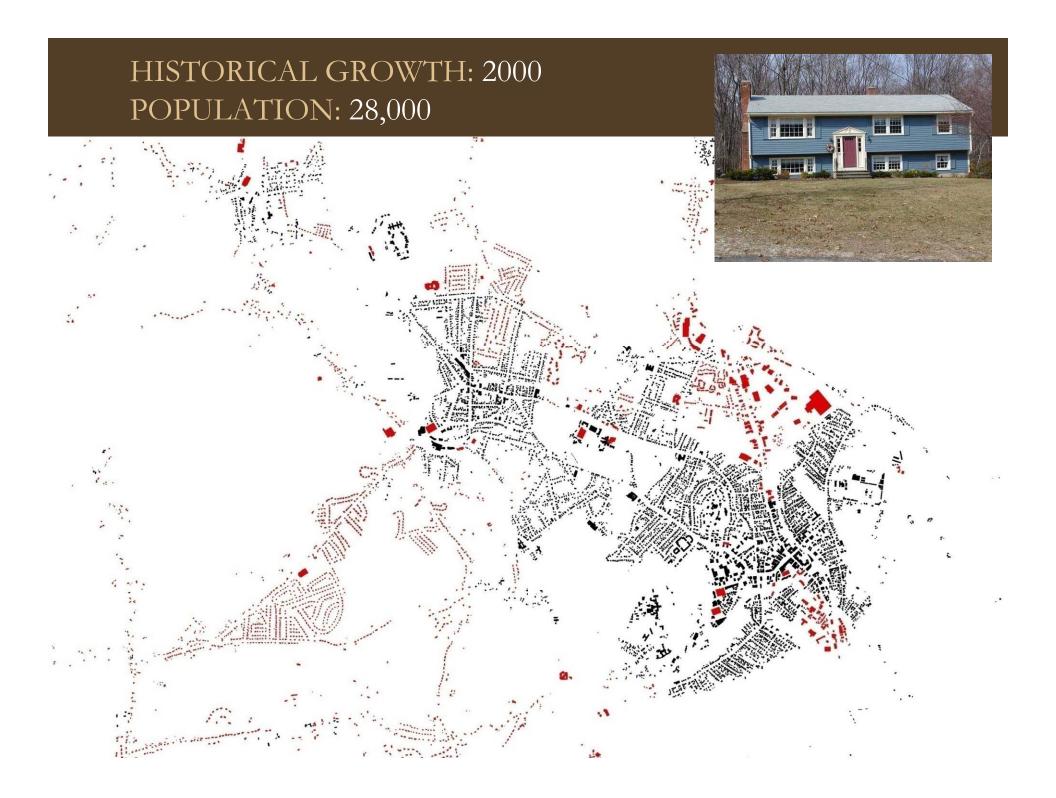














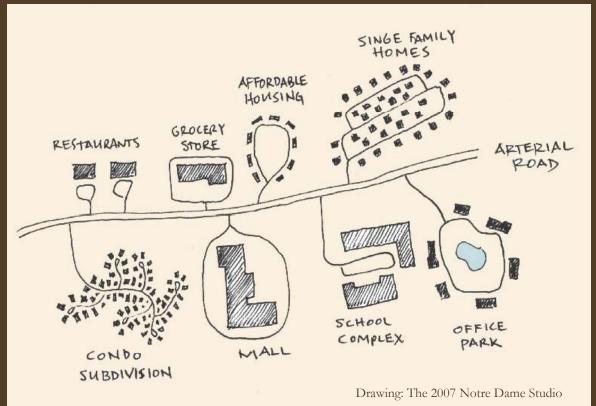






- Completely dependent on cars not walkable.
- Diminished sense of community, due to loss of public realm
- Affordable housing is isolated from the rest of the community
- Requires massive public infrastructure; more difficult to serve by police, fire, etc.
- Loss of natural land and damage to the natural environment

#### NOT SUSTAINABLE.







The City Sprawl VS.

Quarter-Mile radius circle: 5-minute walk from center to edge

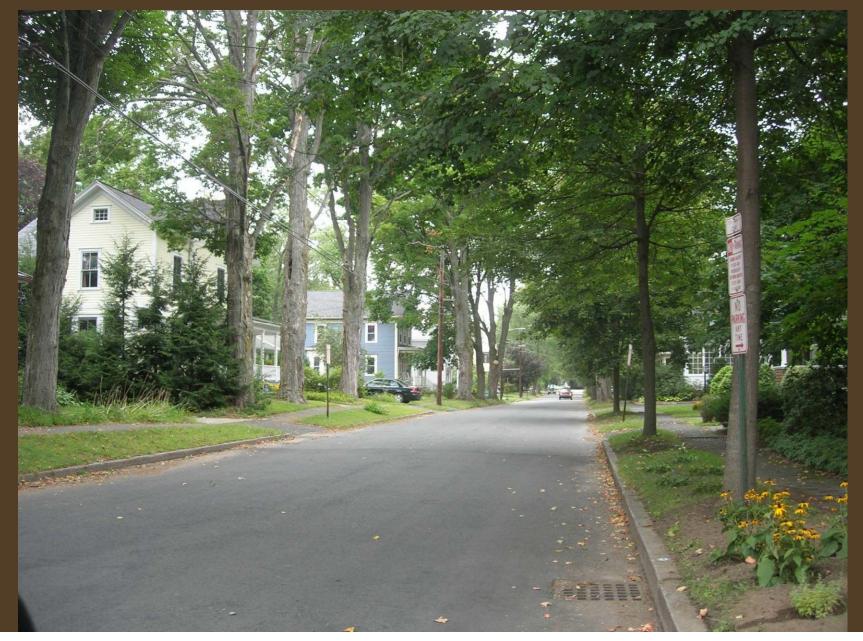
### THE CITY vs. SPRAWL: Traditional Mixed-use Center



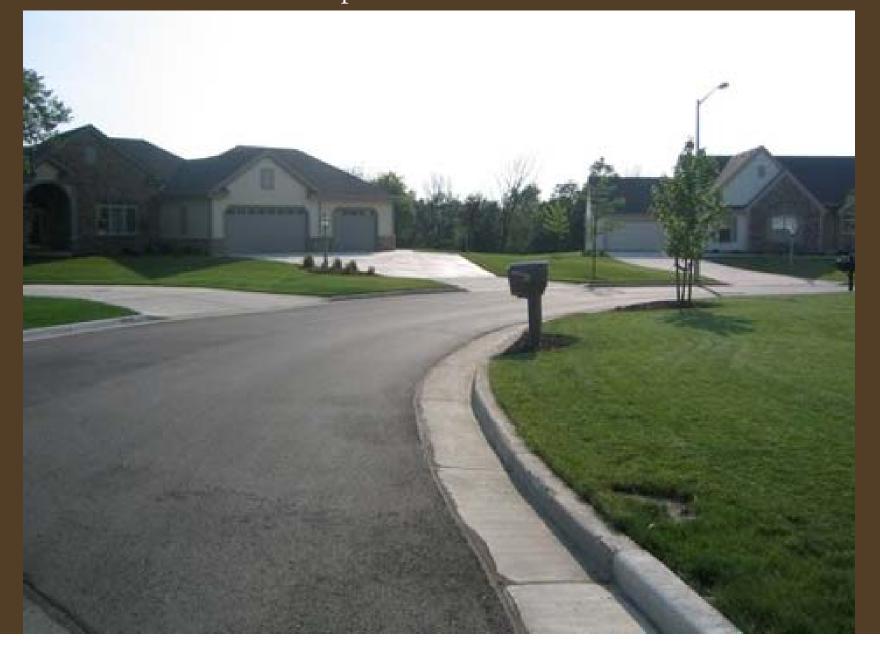
### THE CITY vs. SPRAWL Sprawl Commercial



#### NORTHAMPTON'S BUILT ENVIRONMENT: Traditional Residential



### THE CITY vs. SPRAWL Sprawl Residential



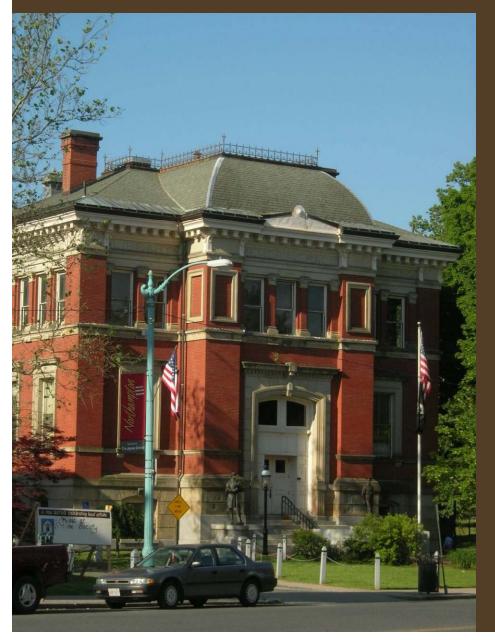
### THE CITY vs. SPRAWL Traditional Street Facade

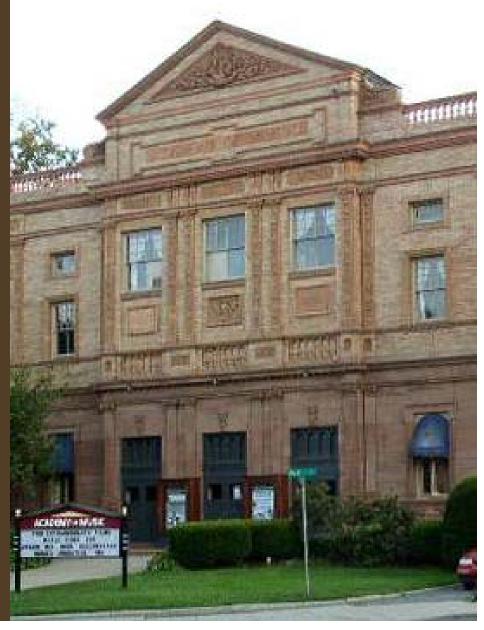


### NORTHAMPTON'S BUILT ENVIRONMENT: Sprawl Street Facade



#### THE CITY vs. SPRAWL Traditional Civic Architecture





#### THE CITY vs. SPRAWL Recent Civic Architecture





## HOW DO WE FIX THIS?

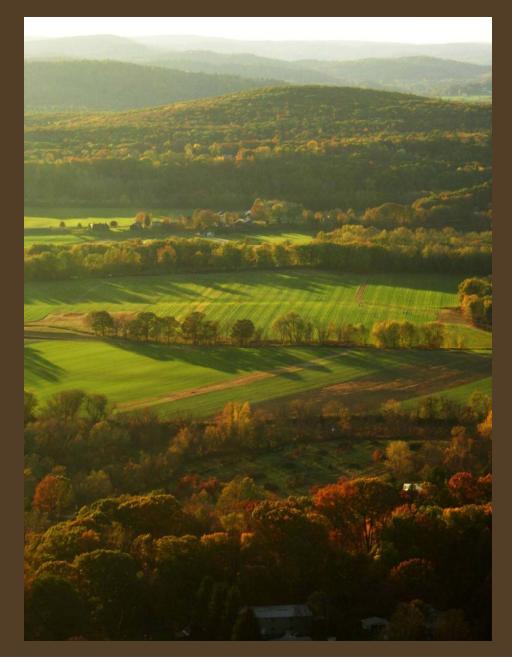
A strategy for sustainability

## SUSTAINABLE NORTHAMPTON

#### "SUSTAINABLE DEVELOPMENT

is development that meets the needs of the present without compromising the ability of future generations to meet their own needs."

- The Bruntland Commission on Environment and Development, United Nations 1983



### SUSTAINABLE NORTHAMPTON



#### PRINCIPLES

- Support a diverse and integrated community
- Improve energy efficiency
- Support a wide variety of housing types
- Support artists and the arts
- Maintain a mix of urban and rural areas
- Foster the history, character and function of each neighborhood
- Encourage a diverse and vibrant economy
- Make the city more walkable, bikeable, transitoriented

### SUSTAINABLE NORTHAMPTON

#### STRATEGIES

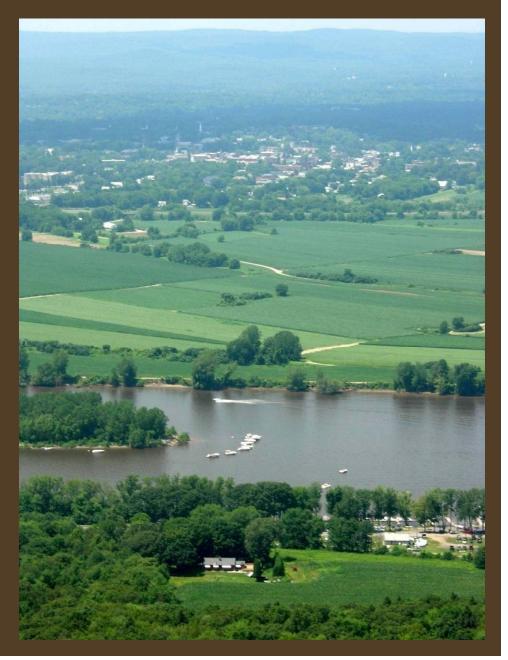
• Encourage mixed use, high density, walkable development near existing centers, including Downtown Northampton, Hospital Hill Florence, Baystate & Leeds

• Provide affordable housing for a mix of incomes

• Convert public and private parking lots to private mixed use development with parking structures

• Calm traffic through use of roundabouts, street trees sidewalks, on-street parking, and by building close to the street

• Consider changes to zoning code, especially the adoption of form-based code



### TRADITIONAL URBANISM

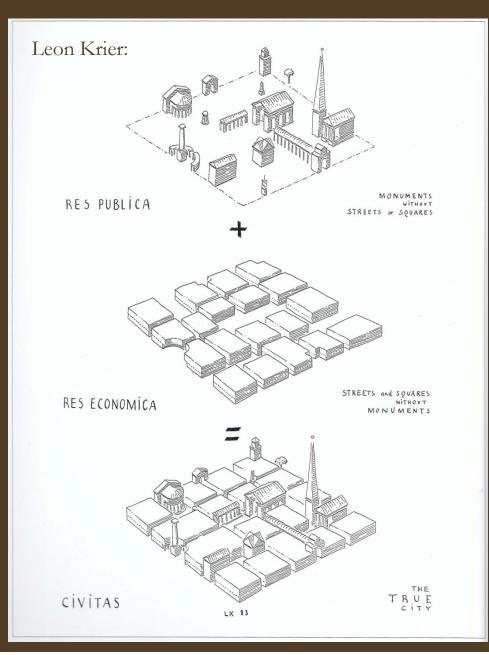
"Traditional urbanism and architecture provide the only comprehensive approach to the challenges of environmental sustainability. Only their enduring lessons address the full spectrum of issues involved: from regional land use and resource management, to the development of healthy communities and lifestyles, to durable, energy-efficient, non-toxic built environments. In addition, both beauty and the character of the citizenry must be understood as integral components of a sustainable culture. A place must be loved if it is to be sustained; and love entails happy and willing

sacrifice."

- G.K. David, University of Notre Dame

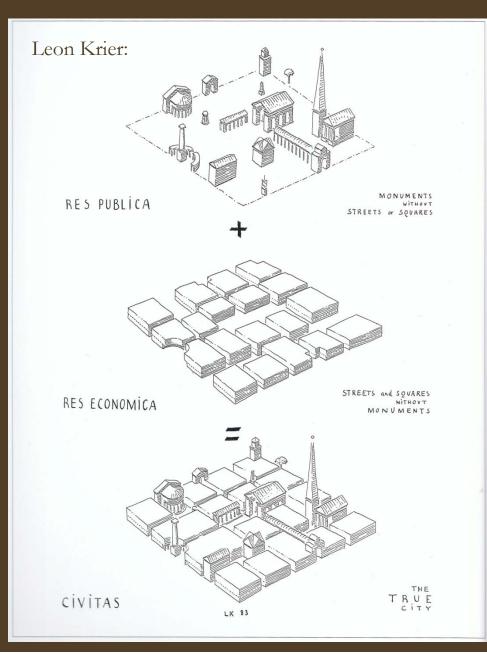


### TRADITIONAL URBANISM





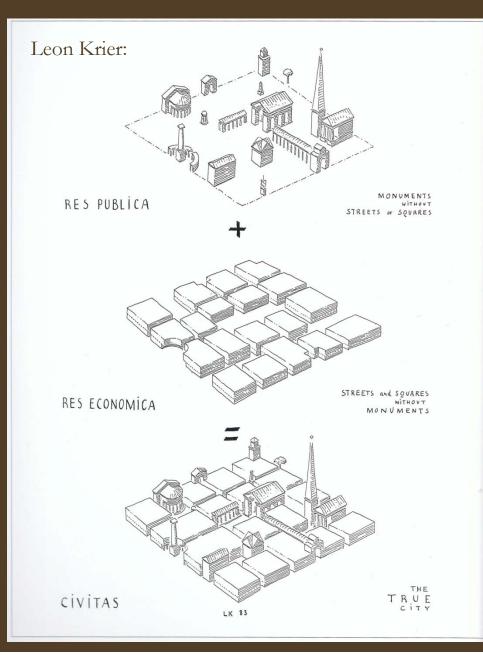
# TRADITIONAL URBANISM



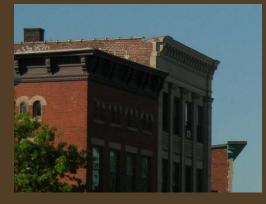




# TRADITIONAL URBANISM

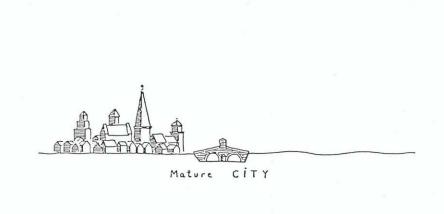


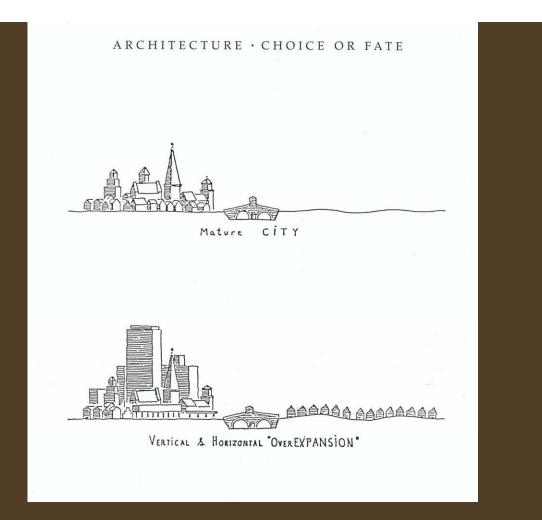


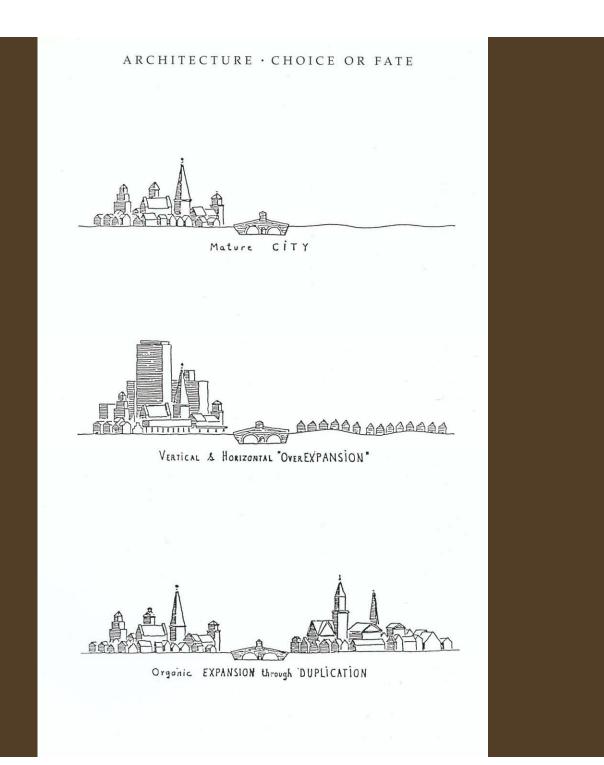




#### ARCHITECTURE · CHOICE OR FATE

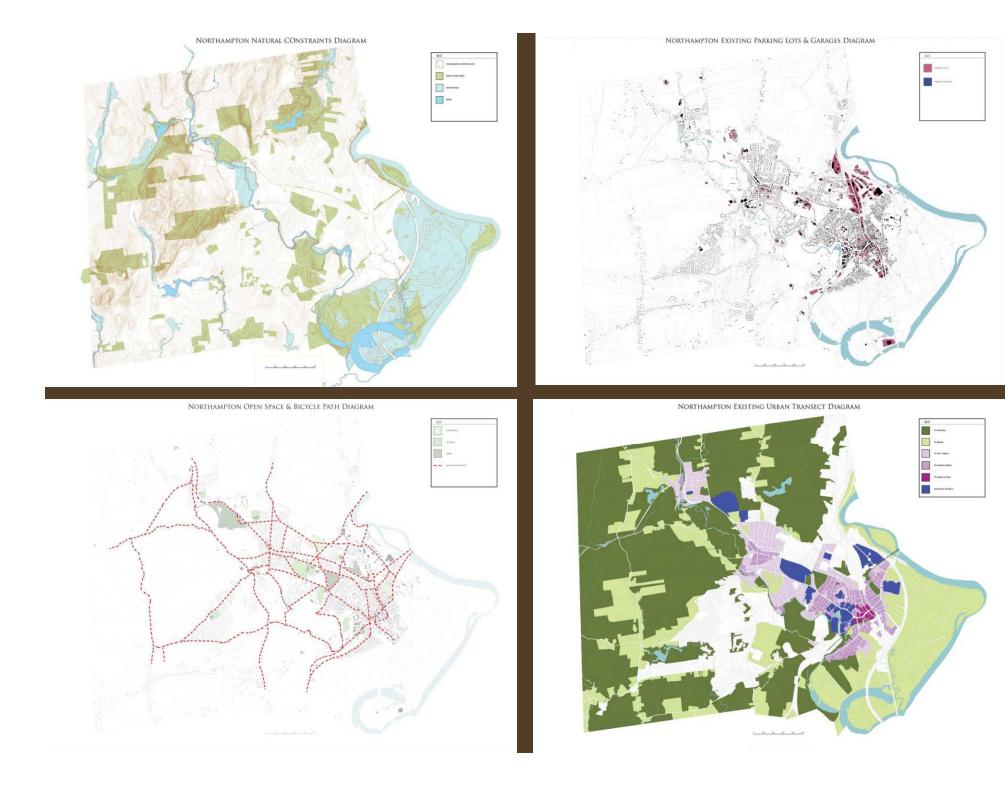






# NORTHAMPTON TODAY

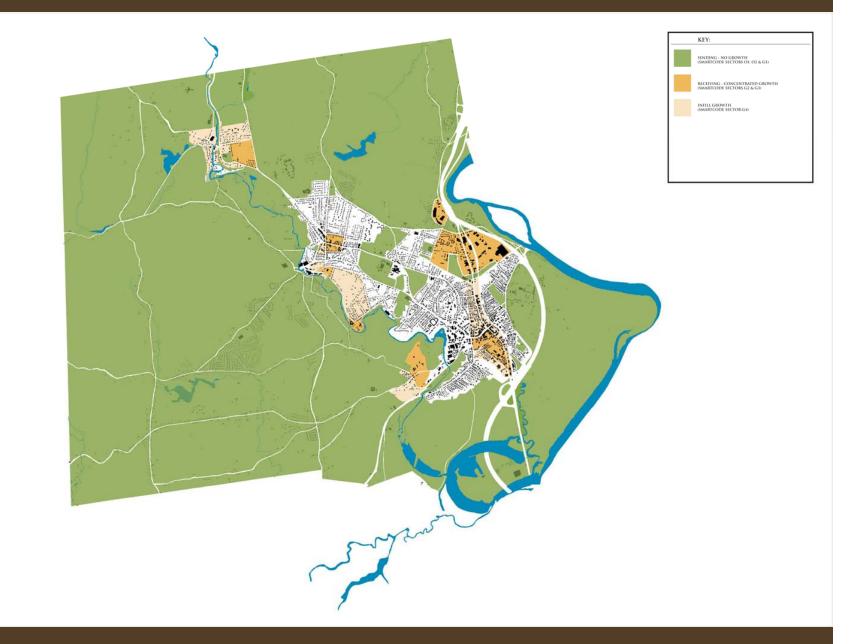




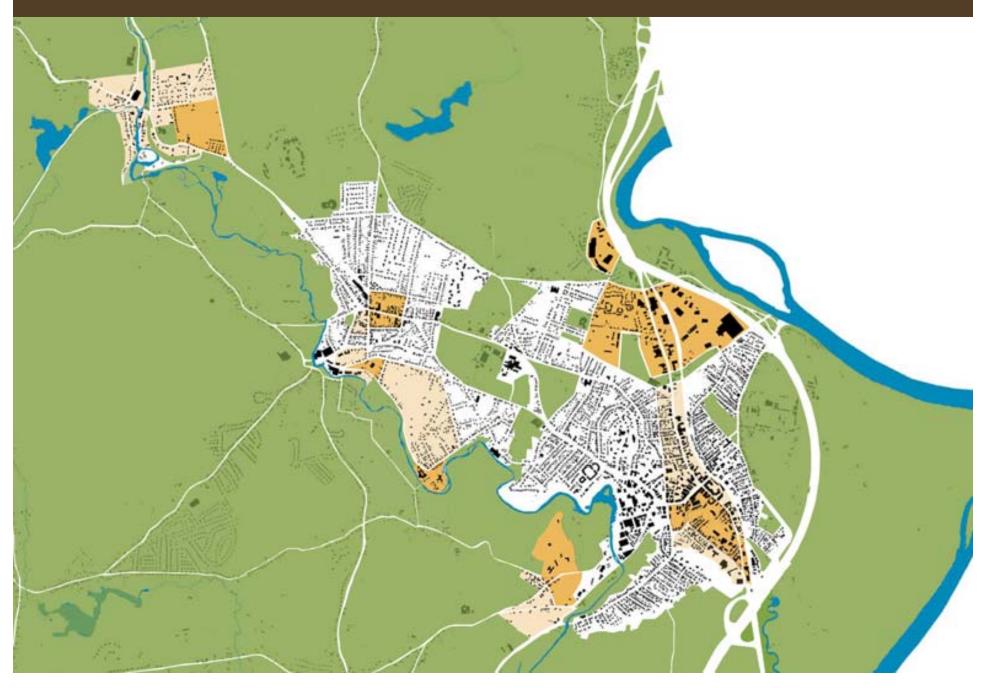
# NORTHAMPTON IN CONTEXT



#### STRATEGY

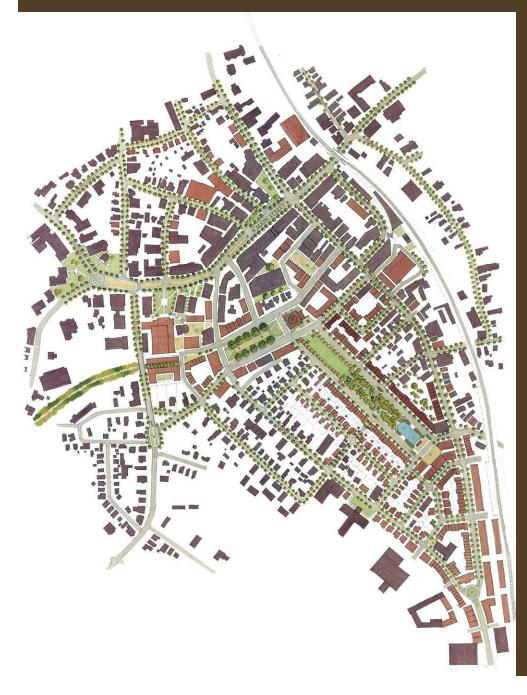




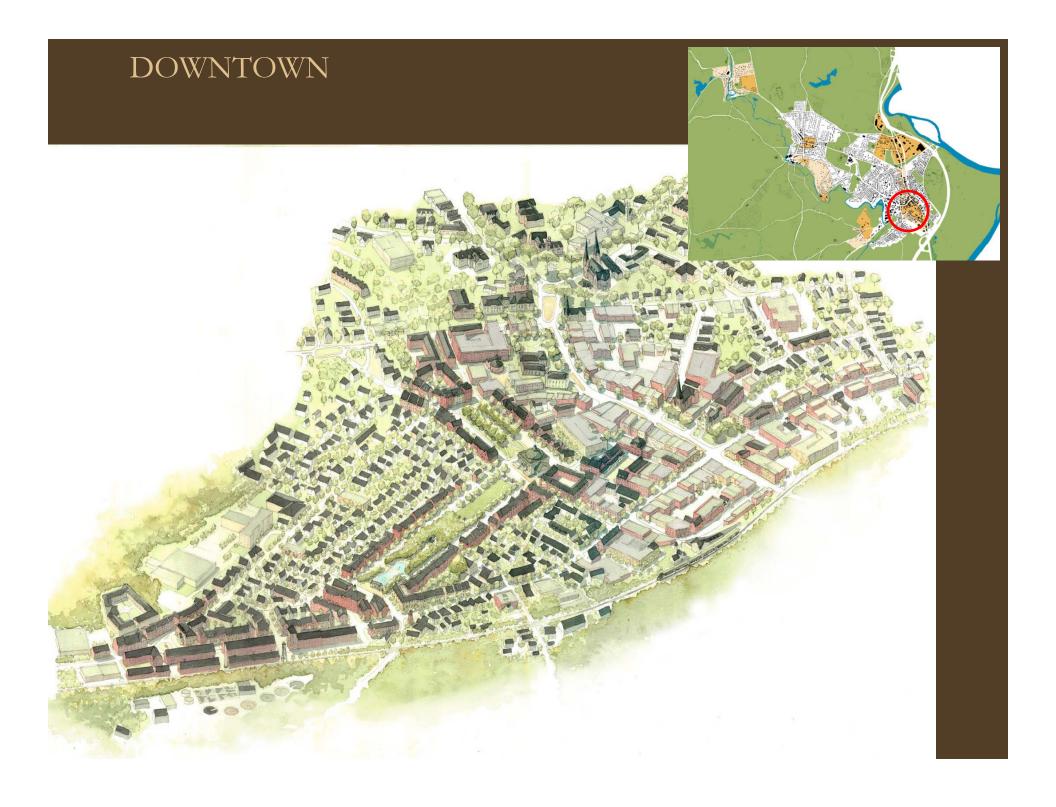


# WHAT DOES SUSTAINABILITY LOOK LIKE?

Our design proposals

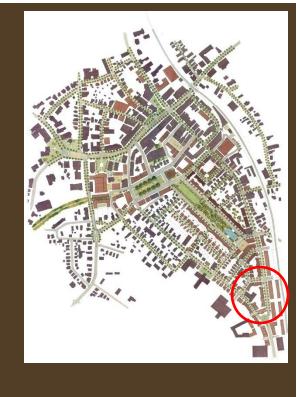






### A new southern gateway



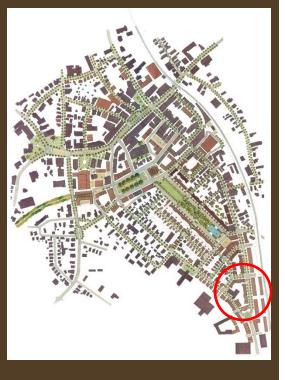




#### A new southern gateway







#### Mending lower King Street





### Mending lower King Street







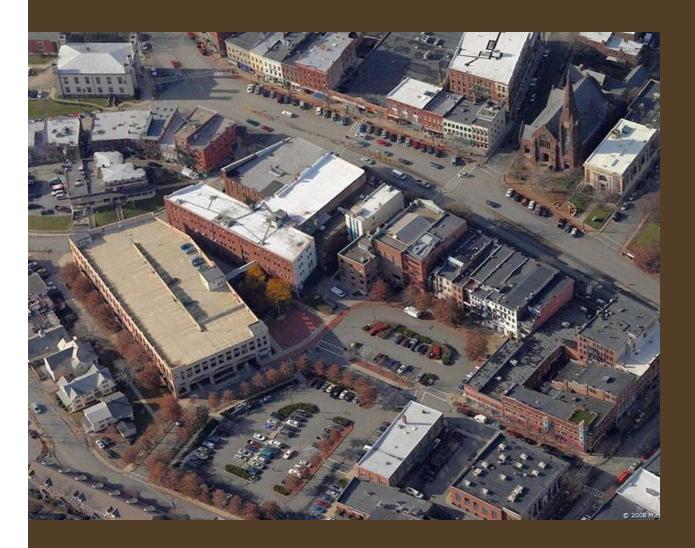
#### Main Street

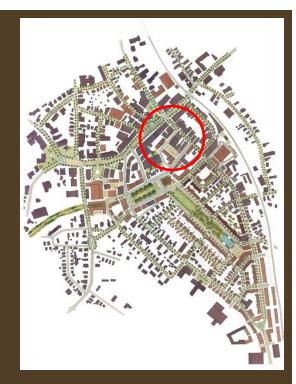




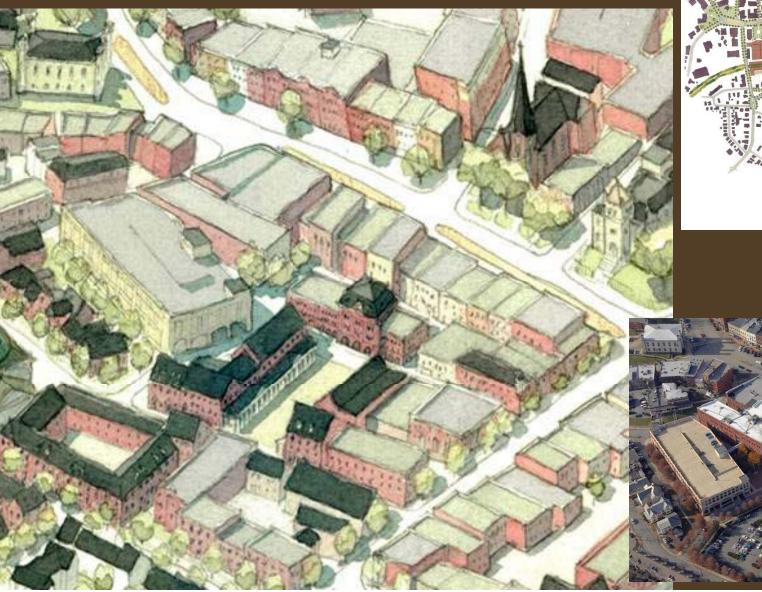


#### From parking lot to market square





#### From parking lot to market square



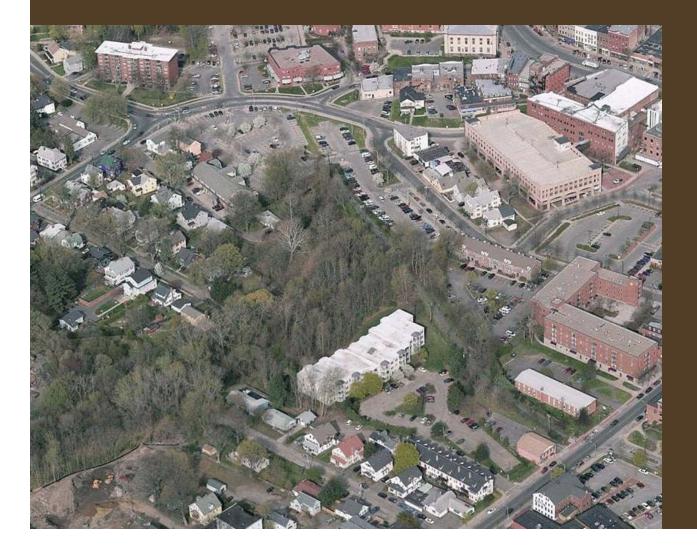


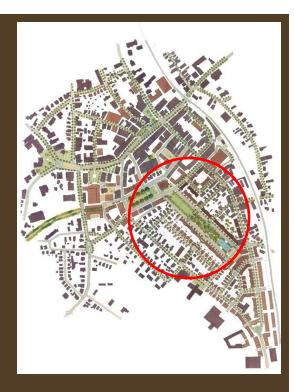






The old Mill River becomes Northampton's *Emerald Necklace* 



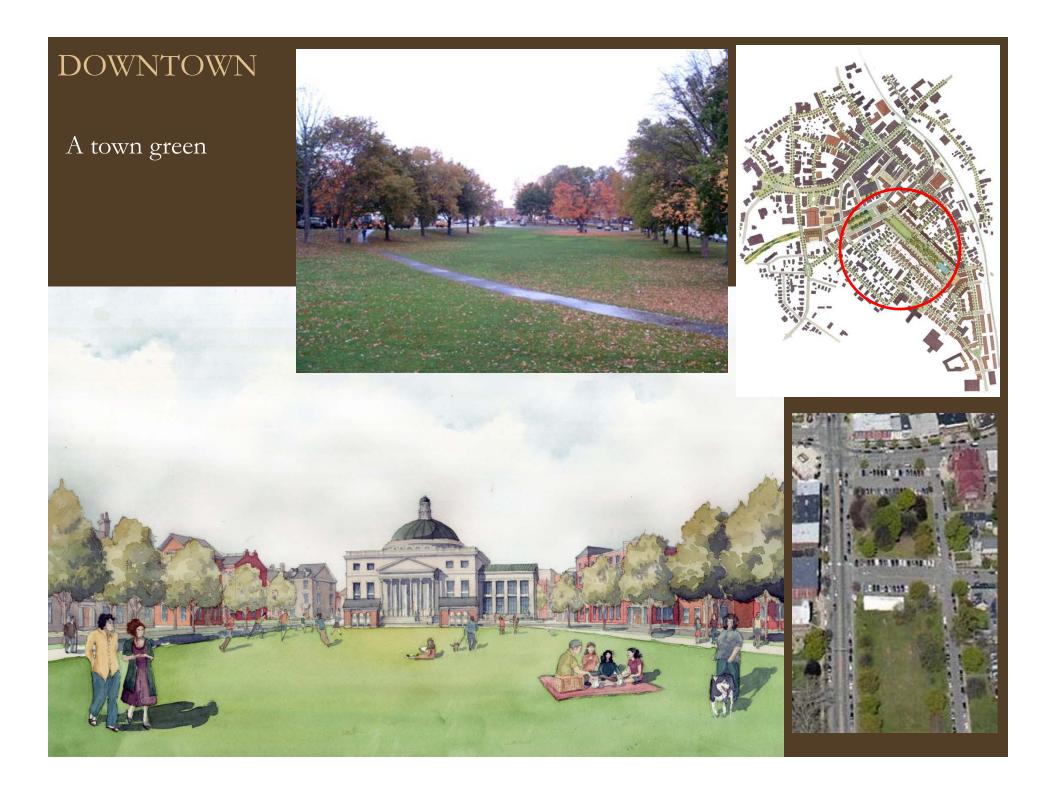


The old Mill River becomes Northampton's *Emerald Necklace* 



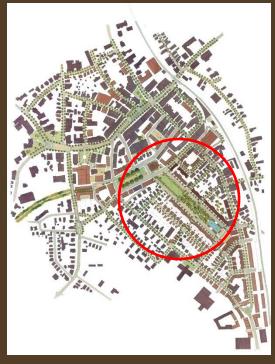






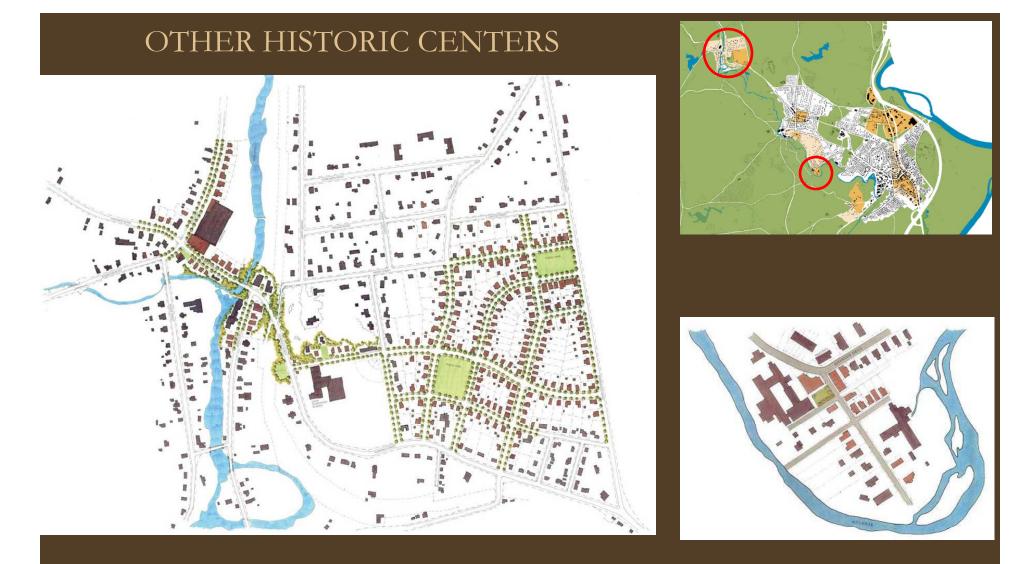
#### Public Transit







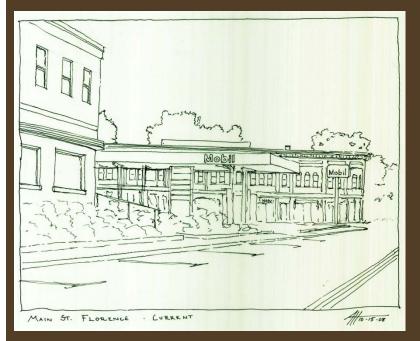


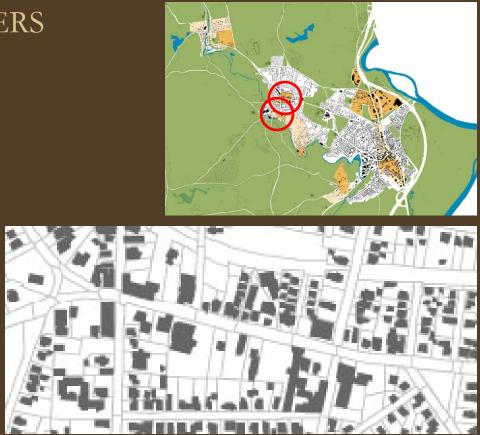


# Leeds

Baystate

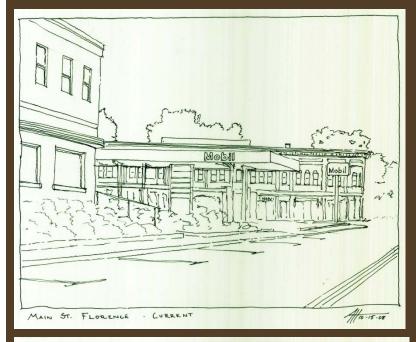
#### OTHER HISTORIC CENTERS

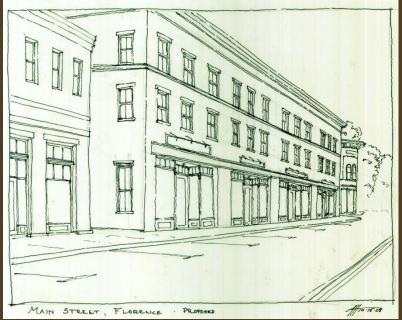


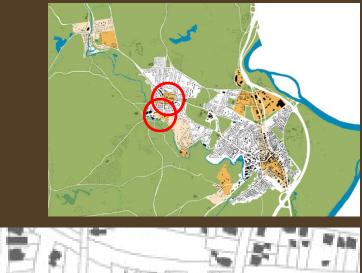


Florence

#### OTHER HISTORIC CENTERS









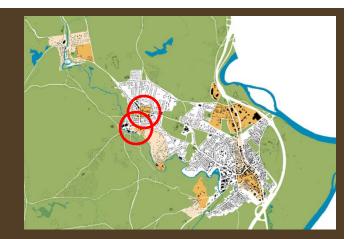
Florence

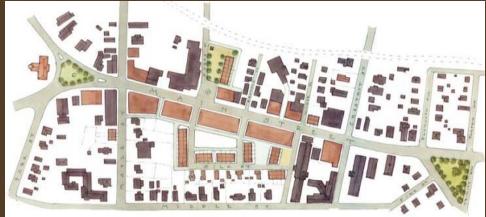


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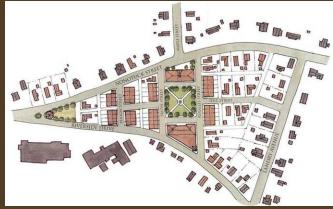






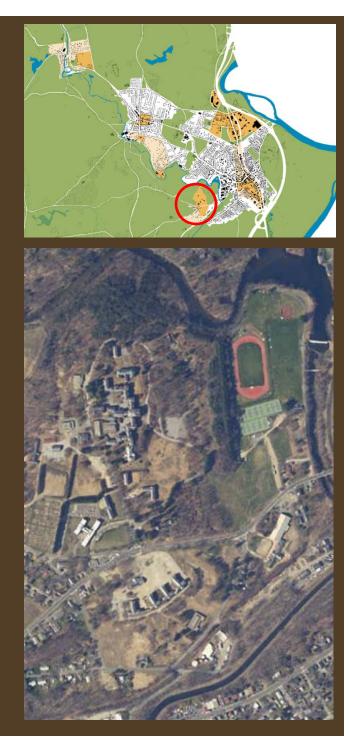


#### Florence



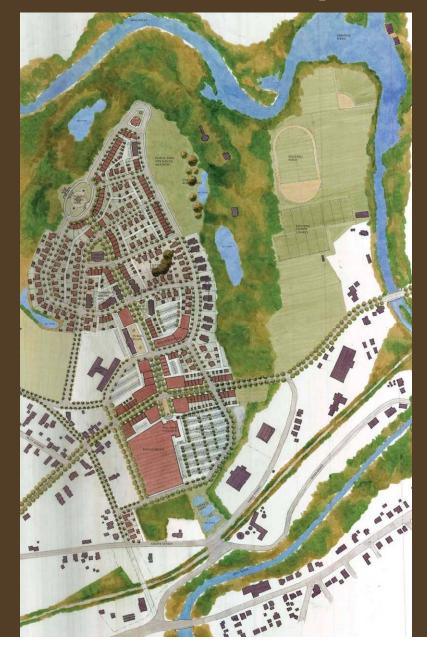
### VILLAGE ON HOSPITAL HILL Current MassDevelopment plan:

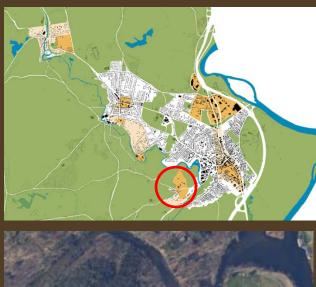




### VILLAGE ON HOSPITAL HILL

#### Our short-term plan:

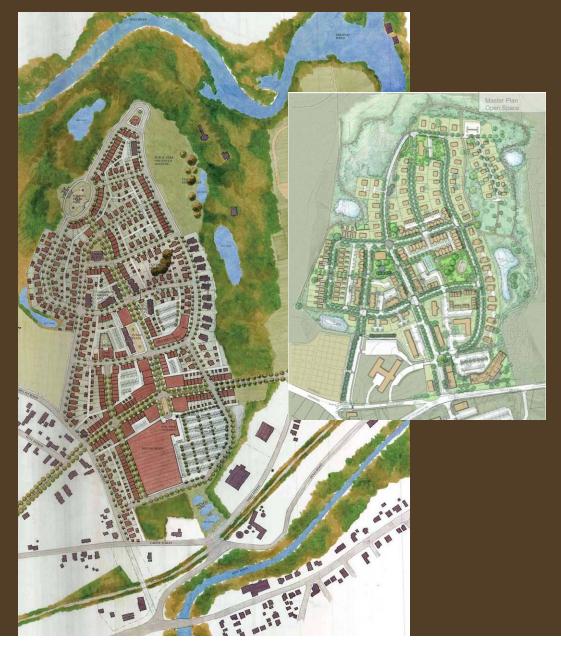






# VILLAGE ON HOSPITAL HILL

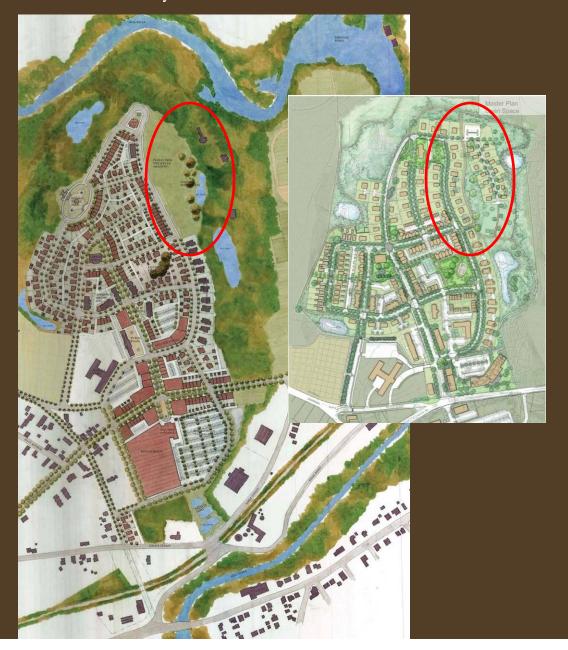
#### Our long-term plan:

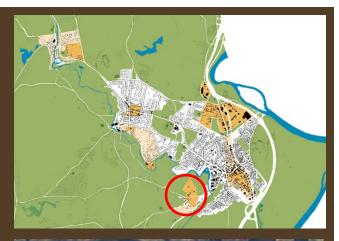






# VILLAGE ON HOSPITAL HILL Density and Land Conservation







# VILLAGE ON HOSPITAL HILL Making Village Hill a true Village



# VILLAGE ON HOSPITAL HILLMaking Village Hill a true Village



# VILLAGE ON HOSPITAL HILL Kollmorgen





#### VILLAGE ON HOSPITAL HILL

A memorial crescent: open space as part of the civic realm

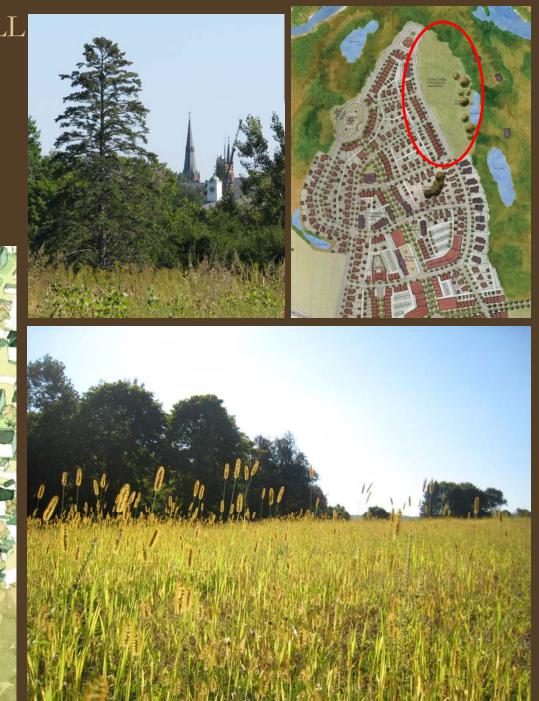




#### VILLAGE ON HOSPITAL HILL

The meadow: Land conservation and public open space

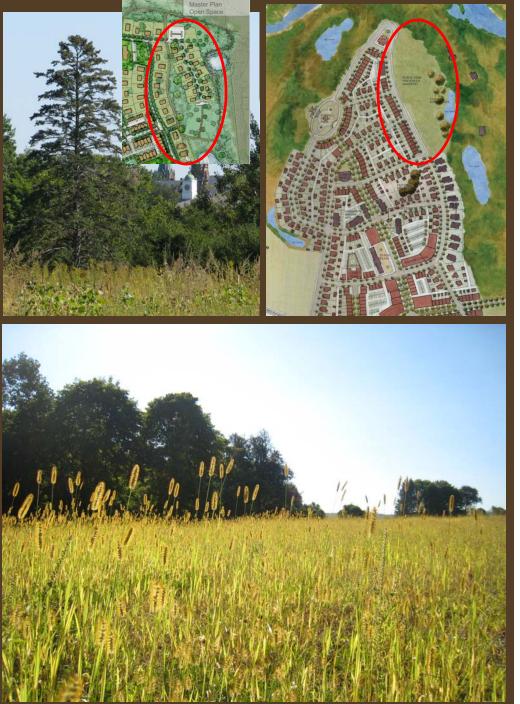




#### VILLAGE ON HOSPITAL HILL

The meadow: Land conservation and public open space











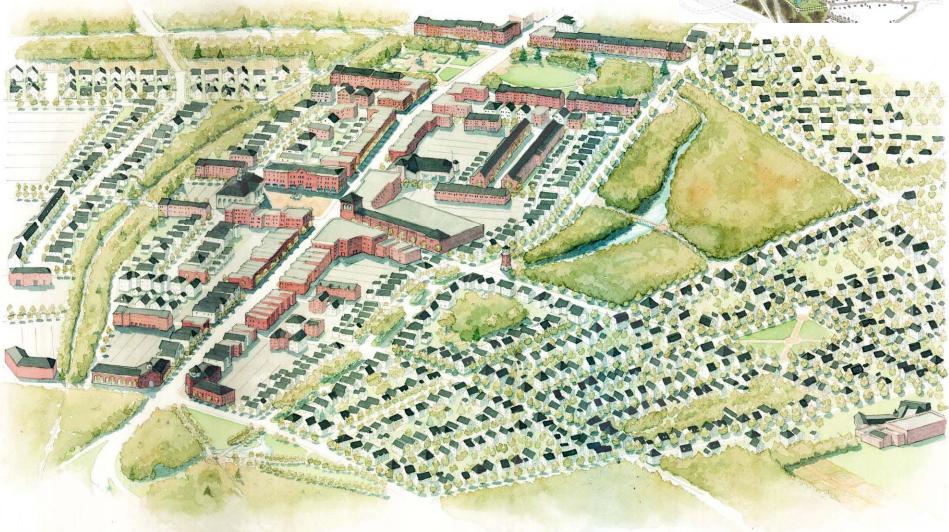






#### King Street: the next Main Street





#### Affordable Housing: An alternative to Hampshire Heights



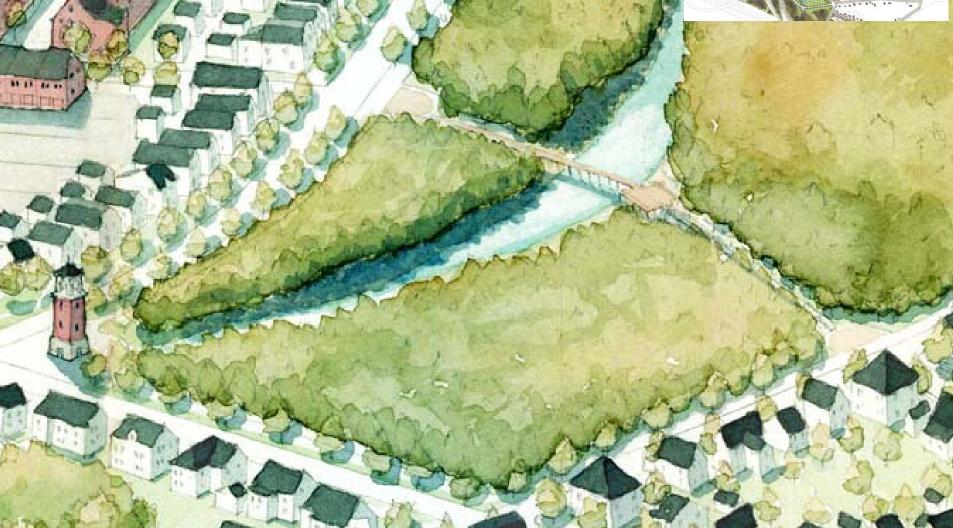


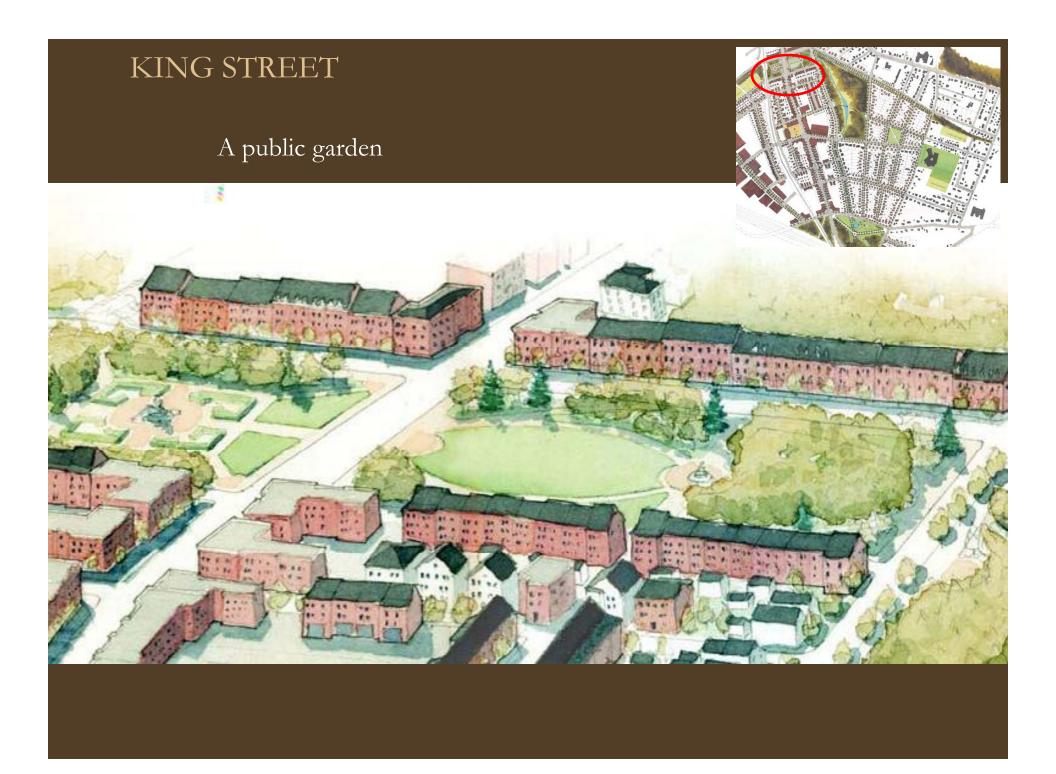




#### Wilderness within walking distance





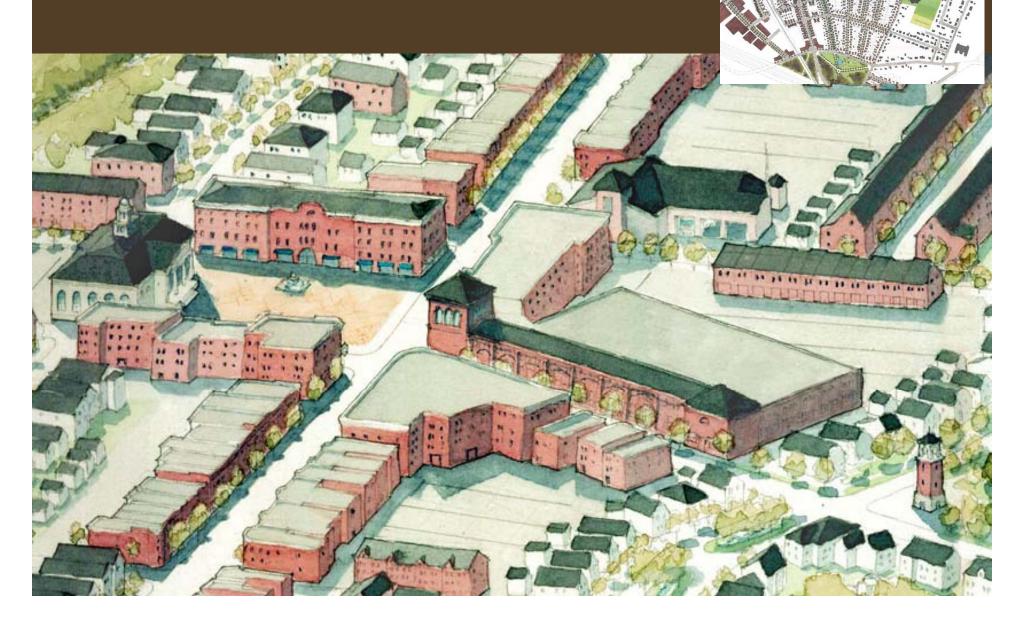


### Urban Agriculture

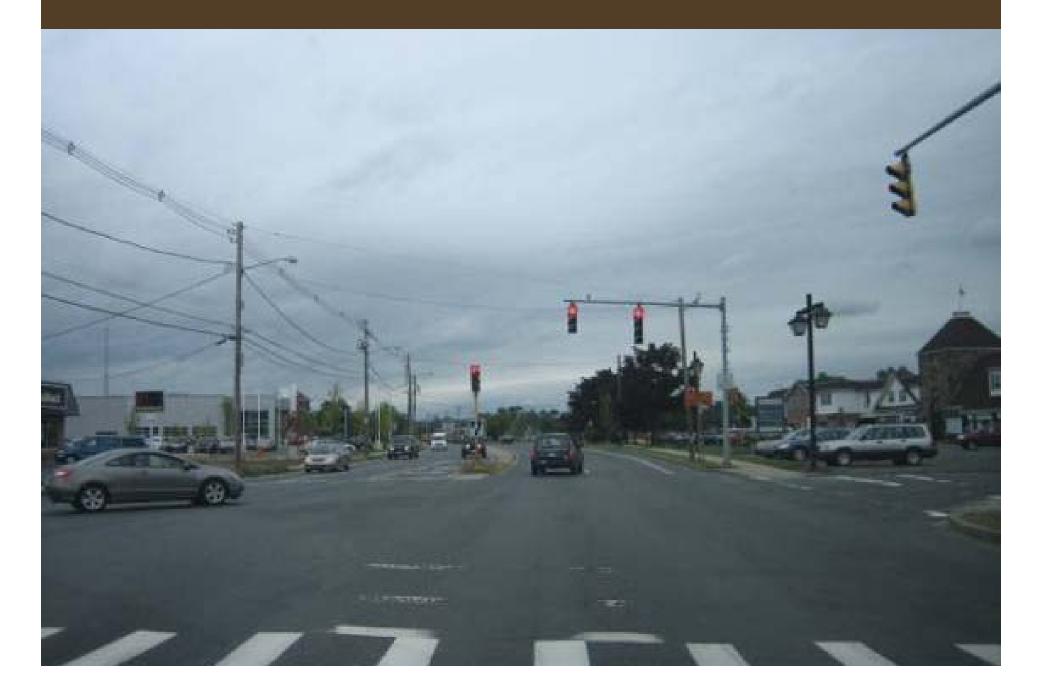




#### Civic plaza; civic supermarket



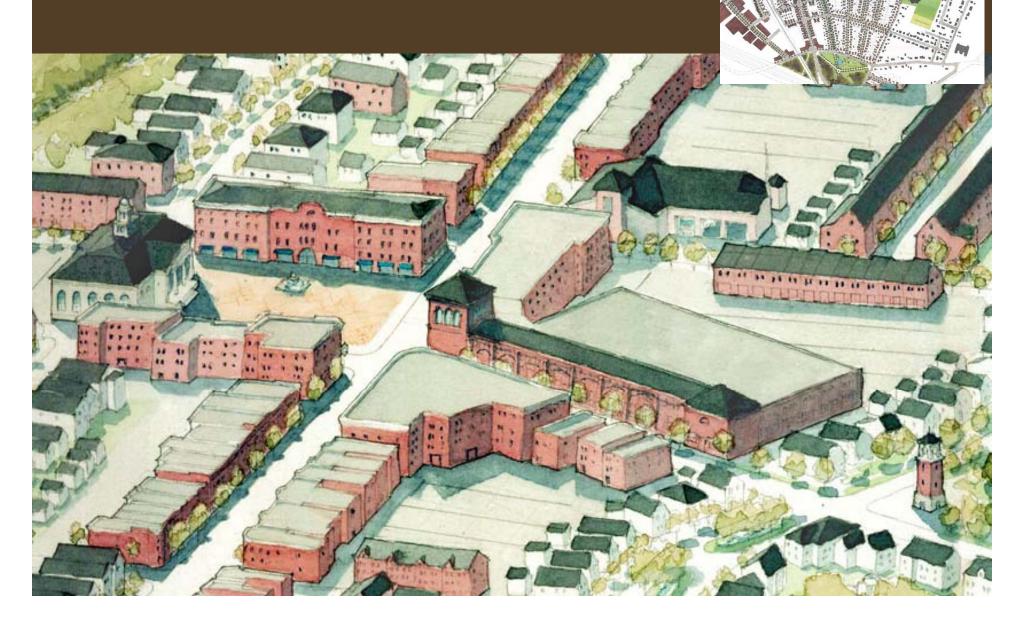
King Street today



#### A vision King Street

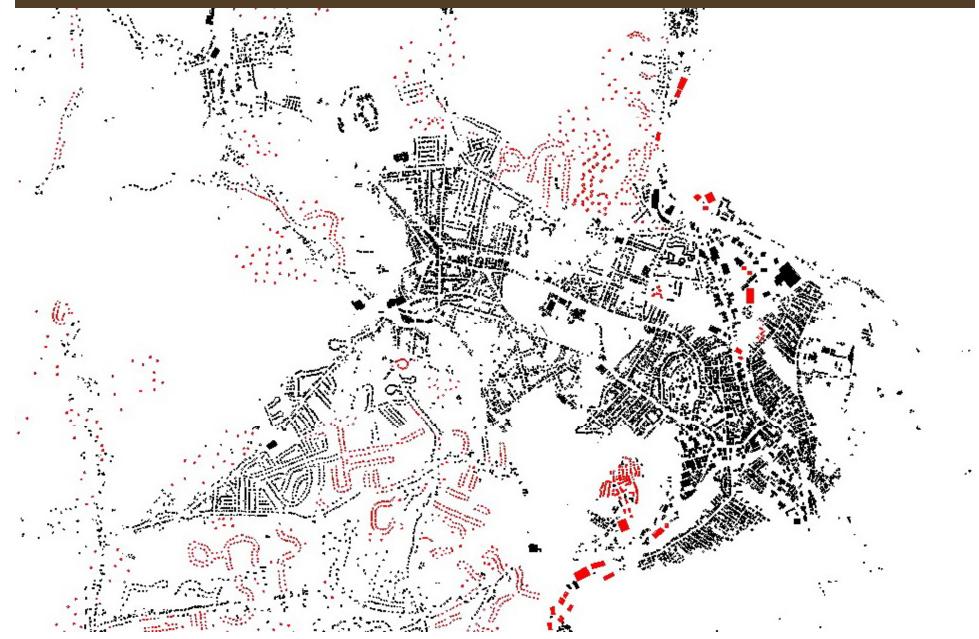


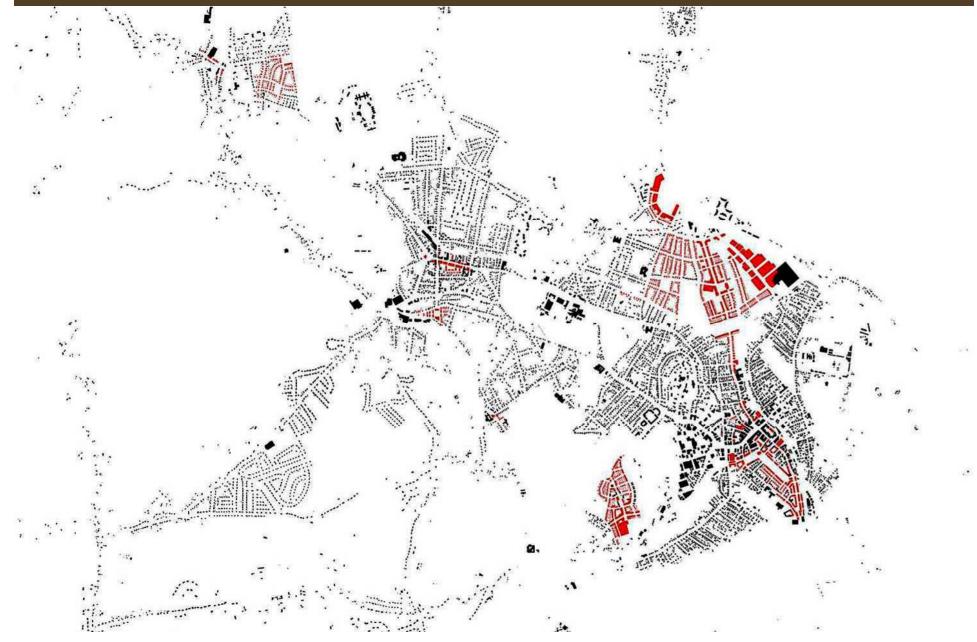
#### Civic plaza; civic supermarket





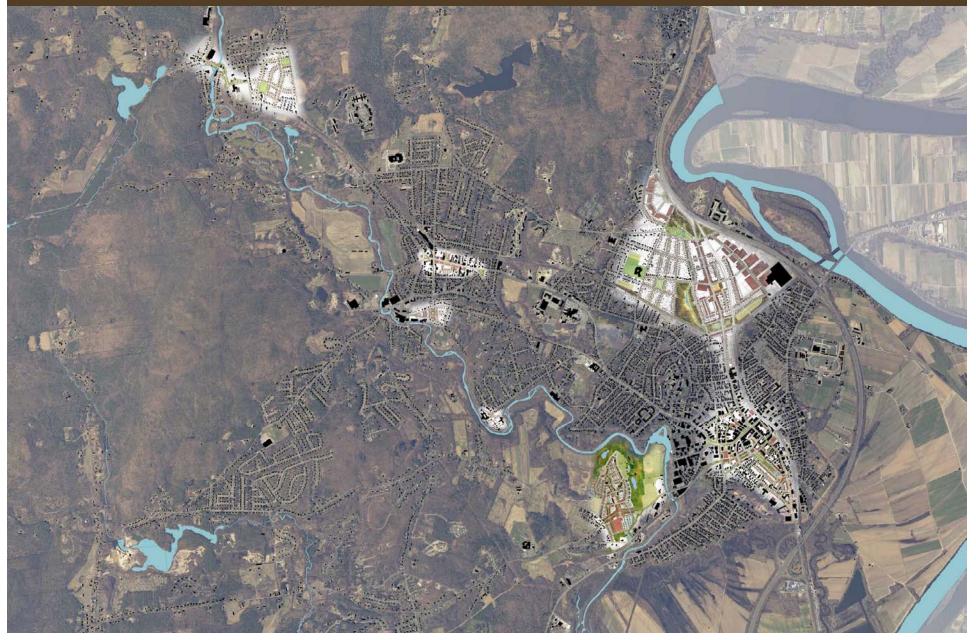
# POSSIBLE FUTURE GROWTH POPULATION: 32,000-36,000

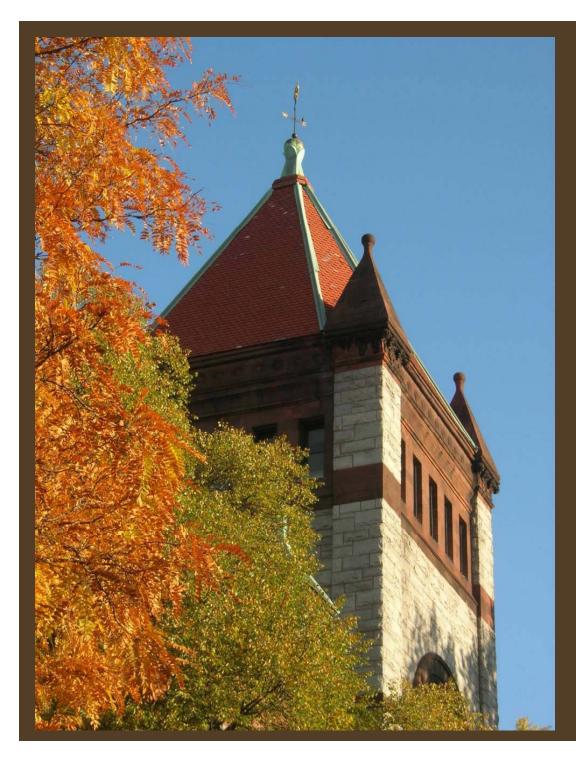












#### IMPLEMENTING ESN

• LEED-ND standards should be required for all new developments.

• City should adopt a form-based zoning code.

• Consideration of public space should be integral to planning process for new development, which could be overseen by a Town Architect.

• City should actively pursue desirable development, especially on city-owned land, rather than only reacting to negative development.

• City should seek coordination and cooperation among local banks, local institutions, local developers and local builders who understand the intent of *Envisioning Sustainable Northampton*.

• The city can take advantage of the time afforded by the current economic climate, to plan for future development.

# THE VISION





LEEDS







KING ST. FLORENCE

BAYSTATE

VILLAGE ON HOSPITAL HILL

DOWNTOW