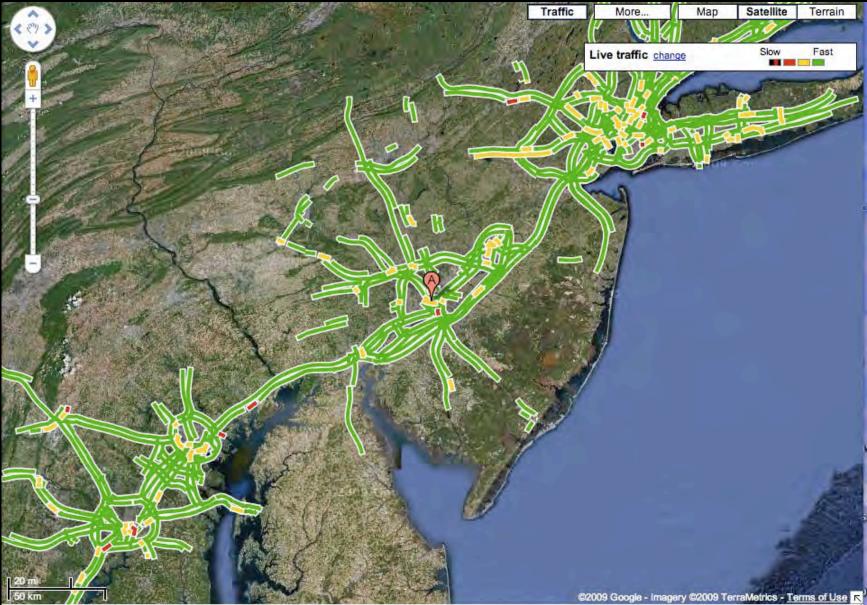
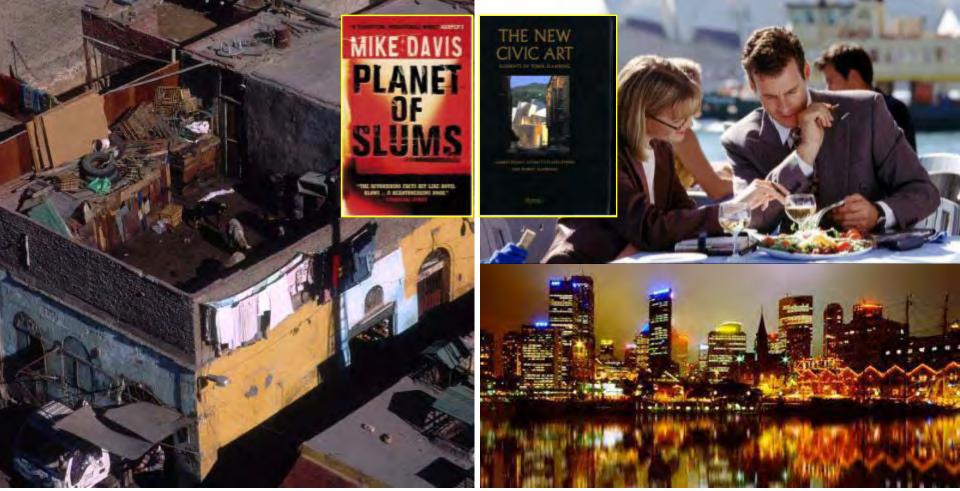
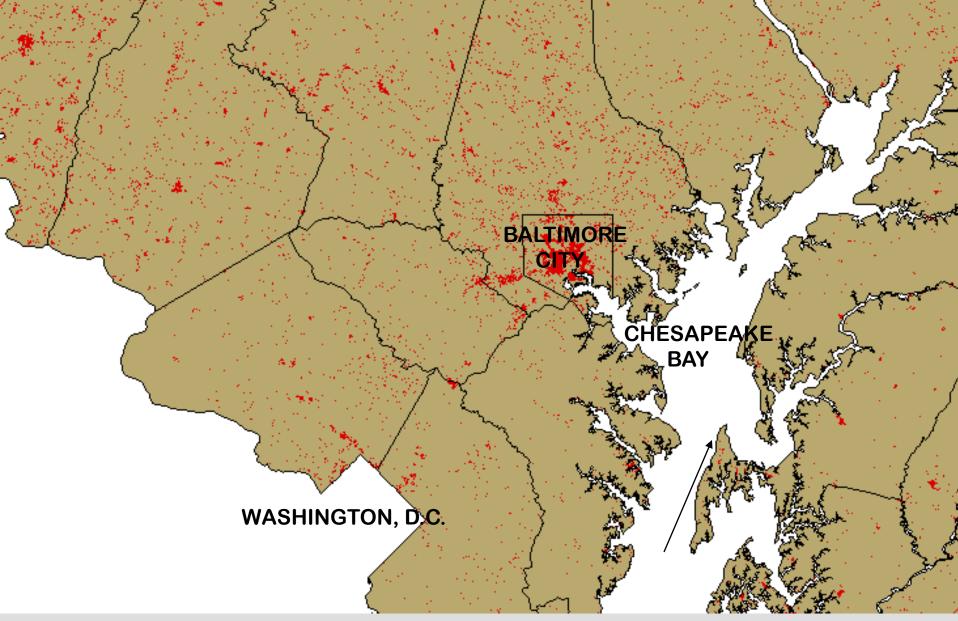
# CONURBATIONS<br/>&for an Urban SpeciesCONSERVATIONAlex Krieger – 29 July 2009 - Philadelphia

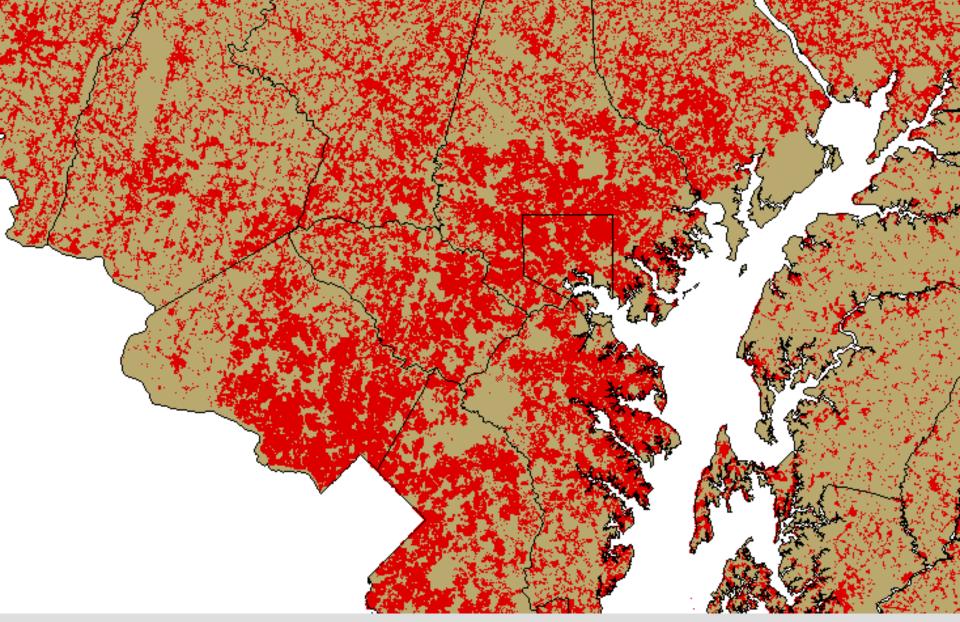




Sometime during the last year-or-two the world's population became predominantly urban for the first time in human history. It is unclear if the actual tipping point was achieved by a member of the 'Creative Class' whom we in the West see as the answer to urban revitalization & sustainability, or a newcomer to one of the squatter communities that account for approximately half of the world's still rapidly growing urban population, and whose low carbon footprint per capita matches an equally low quality of life.



Development Patterns Before 1900

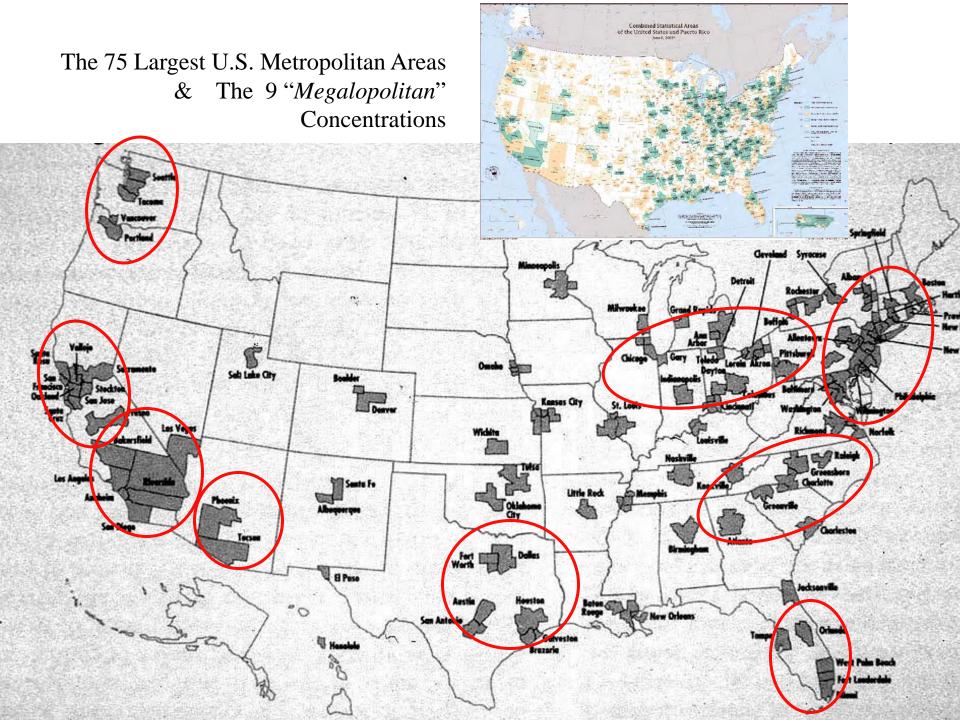


Development Patterns through 2000

If everyone in the world lived at the level of space per capita of Americans, Edmund O. Wilson has calculated that that we would require three more

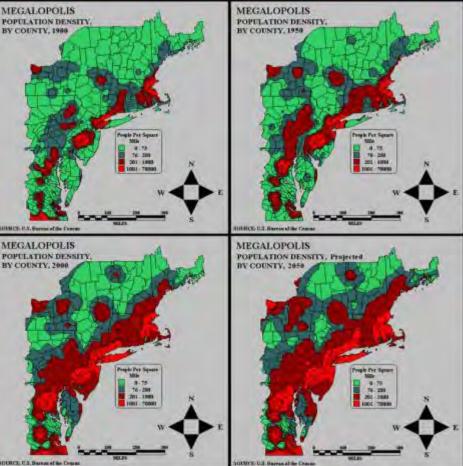
AFT

earths to accommodate all of us (one just for refuse).





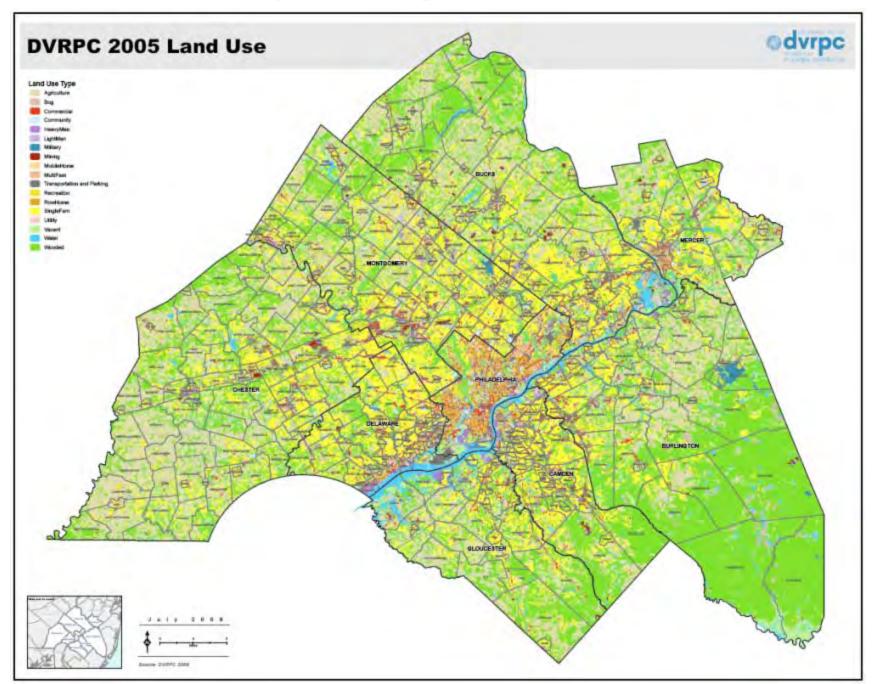




Jean Gottman – *Megalopolis* - 1961

But who can and how does one plan for a 'megalopolis'?

## **One Region – 352 Separate Jurisdictions!!!**



## PHILADELPHIA HOME RULE CHARTER

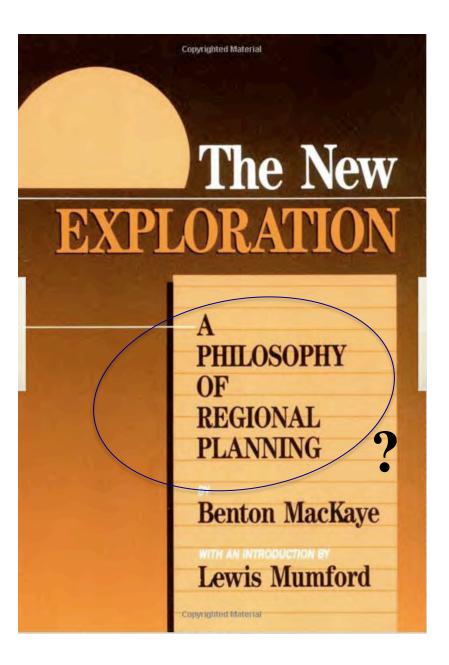
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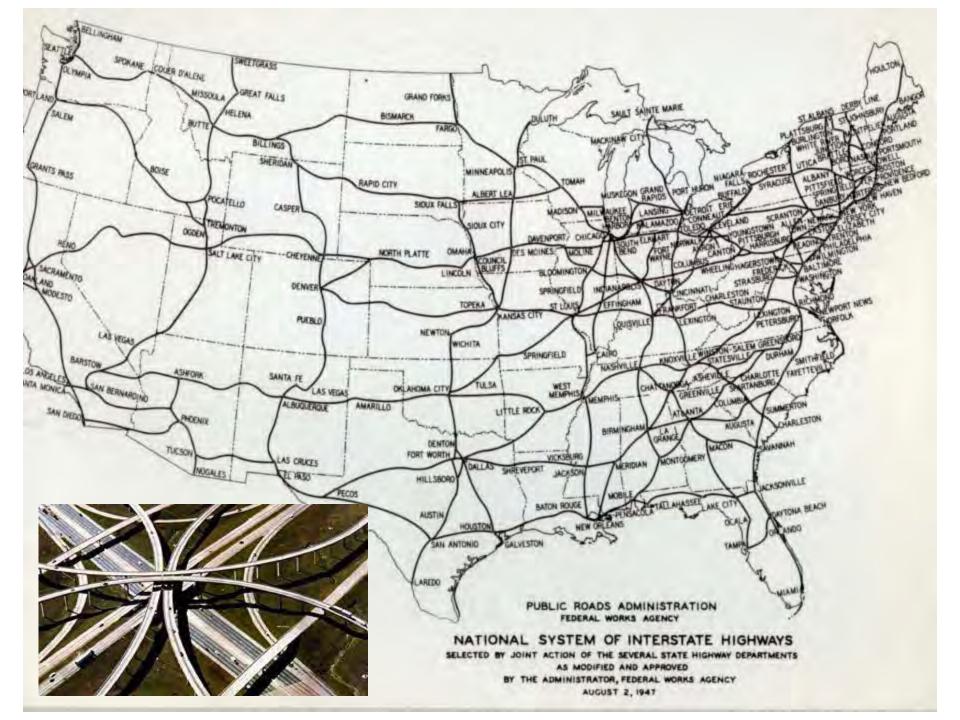


Adopted by the Electors April 17, 1951



... The authority to act in municipal affairs is transferred from state law, as set forth by the General Assembly, to a local charter, adopted and amended by the voters.





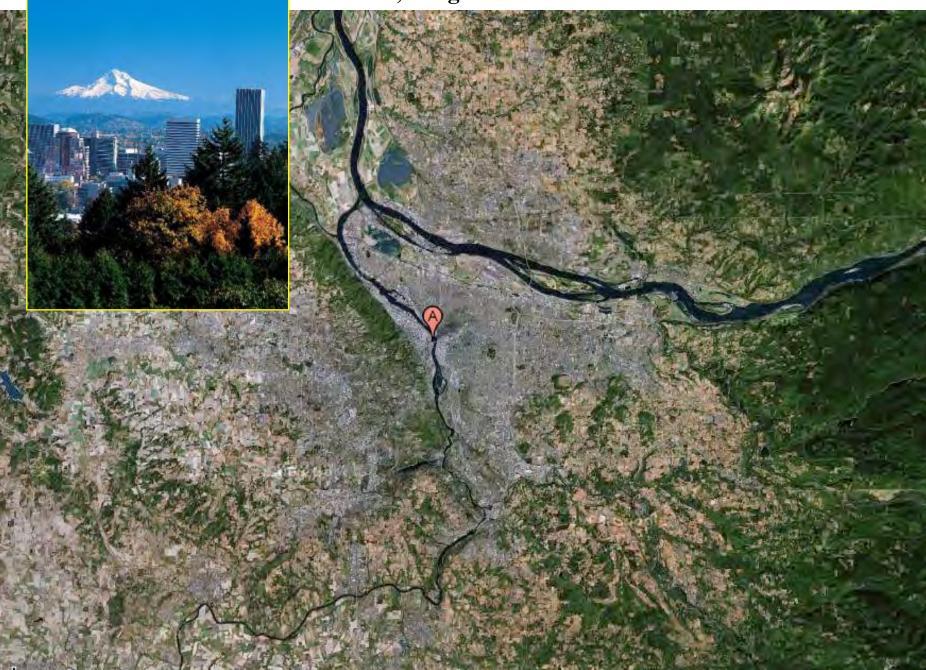


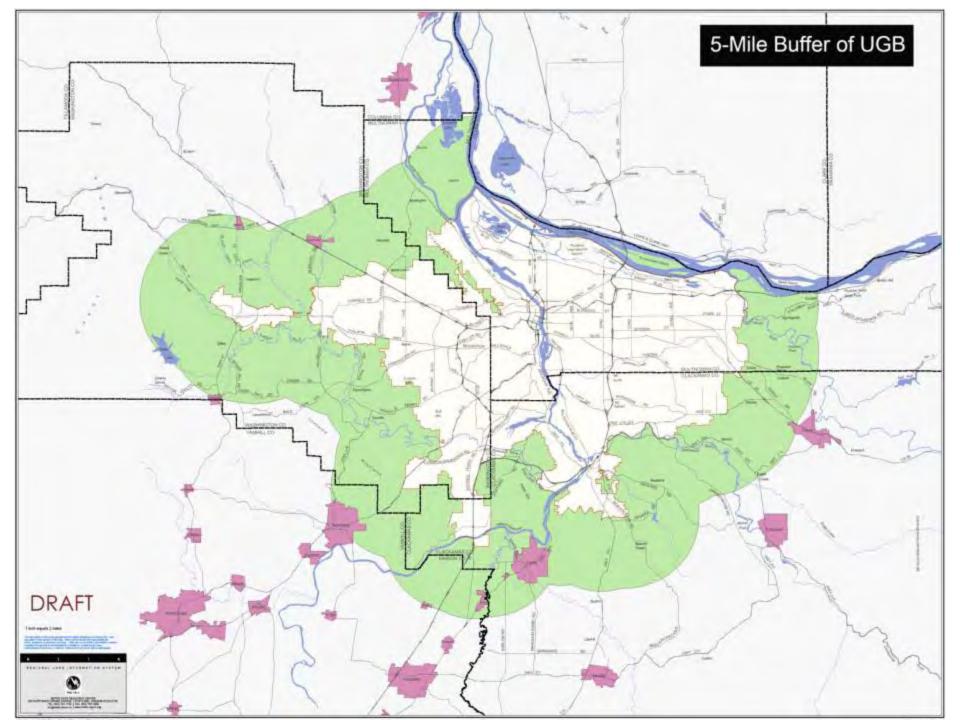
SOURCES: Department of Transportation: Galilonnia-Nevada Interstate Maginy Project

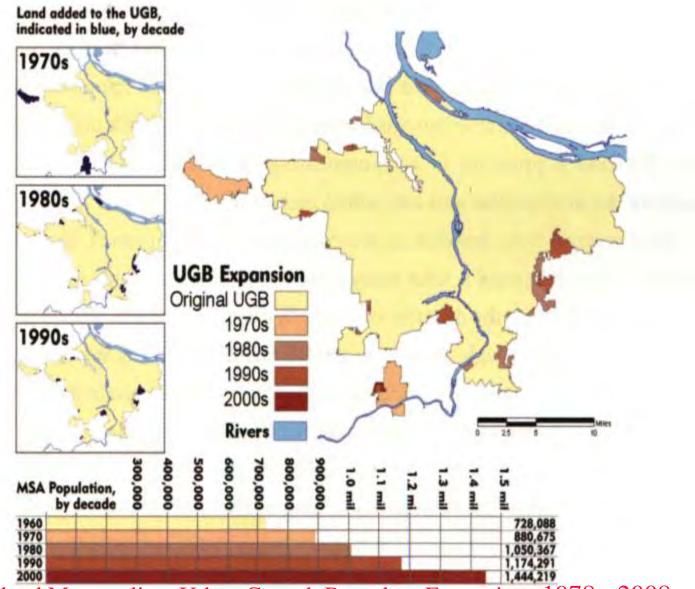
12

MAP BY TIM GULDEN AND RYAN MORRIS





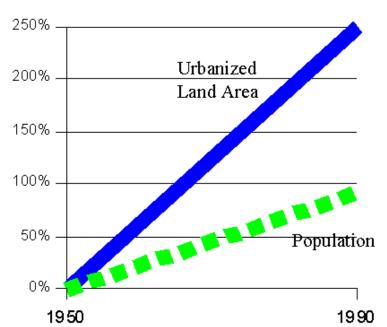




Portland Metropolitan Urban Growth Boundary Expansions 1978 - 2008

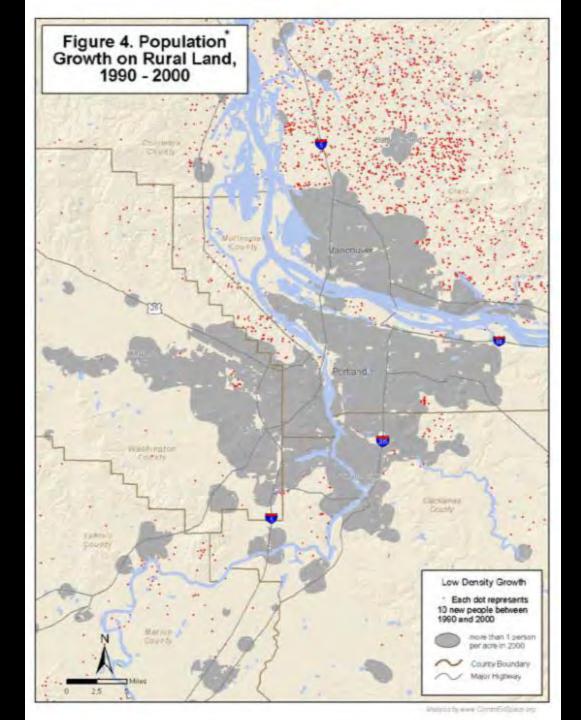
The boundary has expanded about 10% since 1978 while the population in the three Oregon counties has increased by about 40% during that time. The current boundary contains about 236,000 acres.

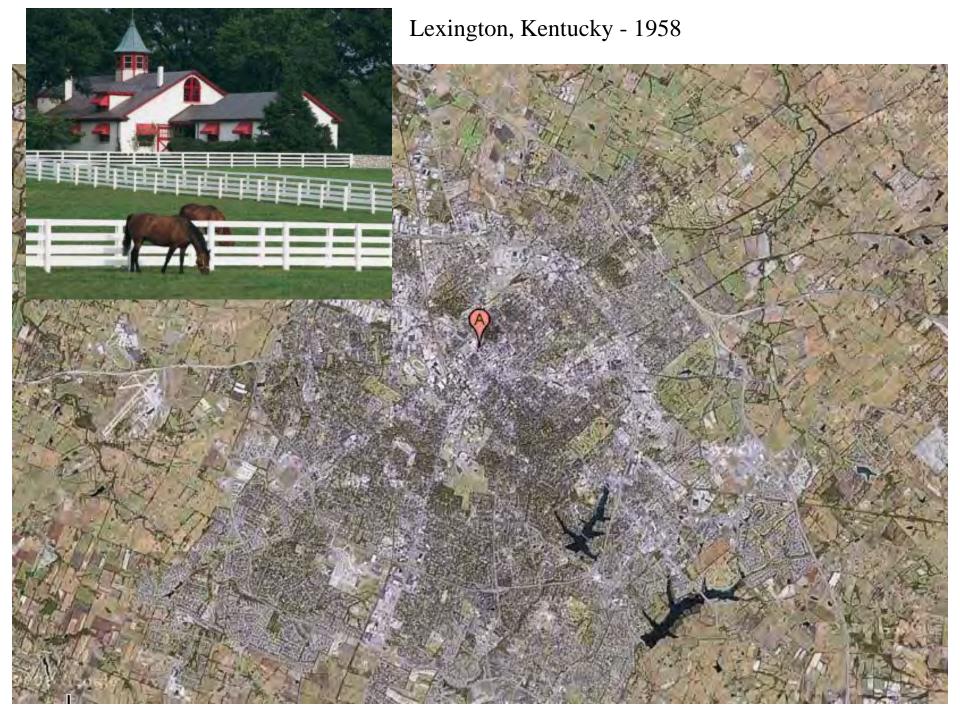
## Land Development Pace Greater than Population Growth

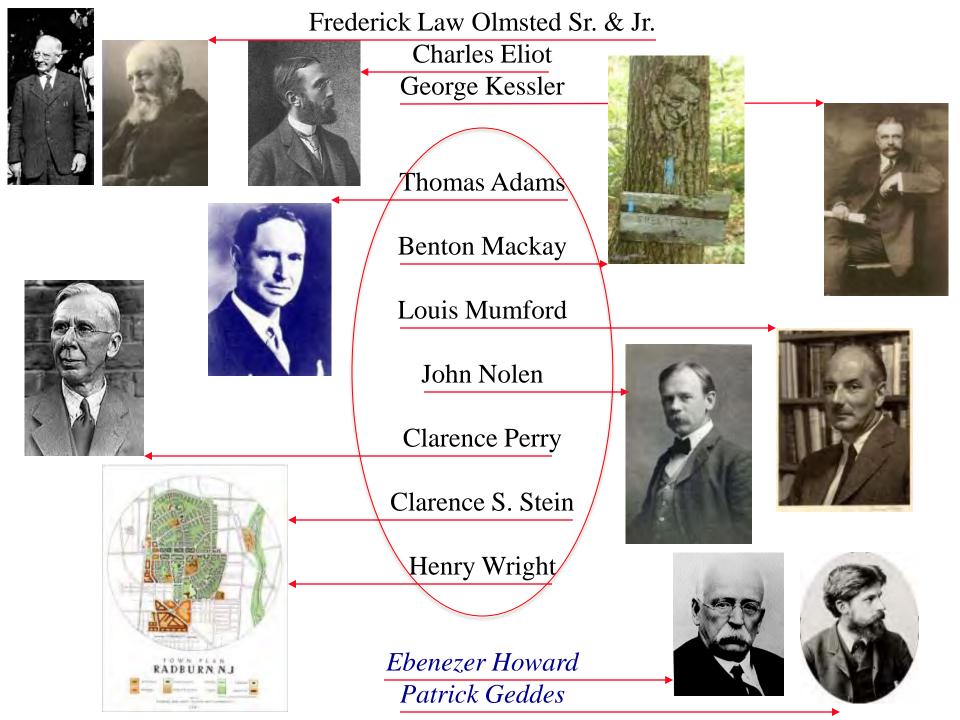


Somewhere between 400,000 & 500,000 acres of land / year have been "lost" to urbanization









### MTA Public Transit Improvements 2008-2013 Capital Plan & Pre-Congestion Pricing

ĺ	Legend Figure 7. Map of Transit Improvements with Funding from Congestion Pricing (Source: Regional Planning Association)
	Subway: New Station Subway: New Line Pre-Congestion Pricing Transit Improvements
1	Subway: Station Rehab Subway: Signal Improvements New Express Bus Routes
	Subway: ADA - Commuter Rail: New Line Improved Subway Service
	Subway: Elevators/Escalators — Commuter Rail: Rehab Line Pre-CP Existing Local and Express Bus Improvements
	🔺 Subway: Signal/Comm 🛛 📥 Commuter Rail: Pocket Track
	LIRR/MNR: New Station

LIRR/MNR: Station Rehab

#### **New York City Improvements**

- East Side Access with new terminal at Grand Central Station / New LIRR Sunnyside Station
- 2 Second Avenue Subway Complete phase 1 with four stations from 96 to 63rd and begin work on phase 2 that extends to 125th Street
- 3 Signal modifications to speed up service on Dyre Avenue line
- 4 Four commuter rail and two subway station rehabilitations
- 5 Completion of South Ferry Terminal and Fulton Street Transit Center projects
- 6 Full installation of Communications Based Train Control (CBTC) on Flushing Line, allowing more trains to run on the line
- 7 All preparatory work for installation of CBTC on Queens Blvd lines (E & F)
- 8 Extension of pocket track to store trains, resulting in increased service on Port Washington line to Great Neck

13

6 Miles

- 9 Rehabilitation of nine stations in the Rockaways
- 10 Rehabilitation of twenty-eight stations in Brooklyn
- 11 Atlantic Branch viaduct repairs and a rebuilt station at Nostrand Ave
- 12 Major signal and track improvements at St. George Staten Island Railway Terminal
- 13 New station at Arthur Kill, replacing two existing stations.

15

Long Island and Hudson Valley Improvements

#### Long Island:

3

8

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.....

6

- Phase 1 of double tracking from Farmingdale to Ronkonkoma
- Pocket tracks to store trains, resulting in increased service on Port Washington and Babylon lines
- Mainline Corridor improvements
- Signal improvements on Babylon line
- Rehabilitation of Babylon station

#### Hudson Valley:

- West of Hudson track improvements
- Seven station rehabs in Westchester County
  Signal improvements on northern segment of Harlem line
- Rehabilitation of Poughkeepsie station

- **Pre-Congestion Pricing Improvements**
- A Increased midday service on the 1 & extending C trains from 8 to 10 cars
- B Nine new express bus routes

A

1 2

11

10

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7

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- C Four additional trains added to Queens Blvd lines (E&F)
- D Exisitng local and express bus improvements



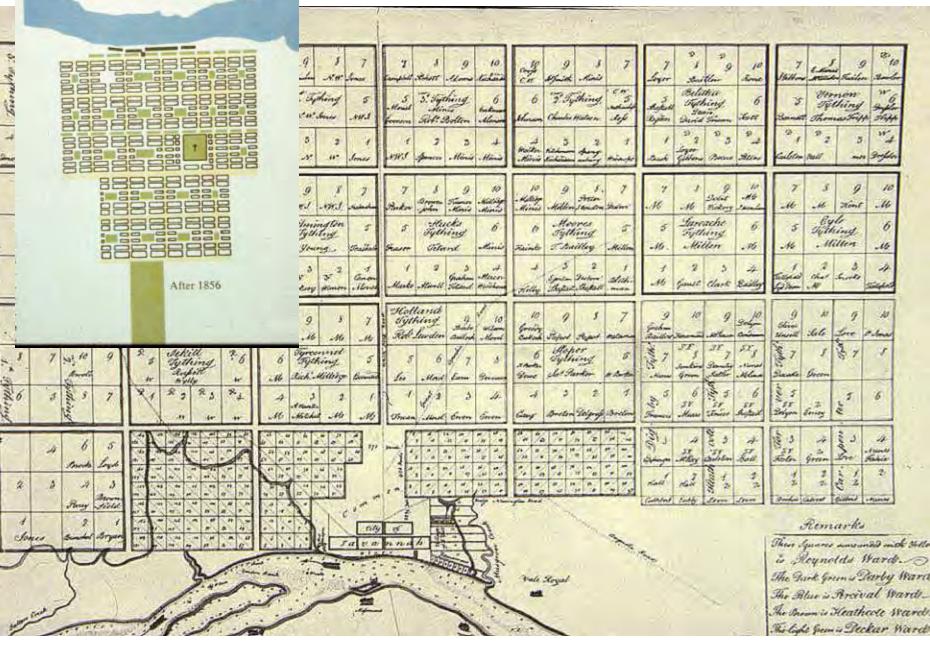


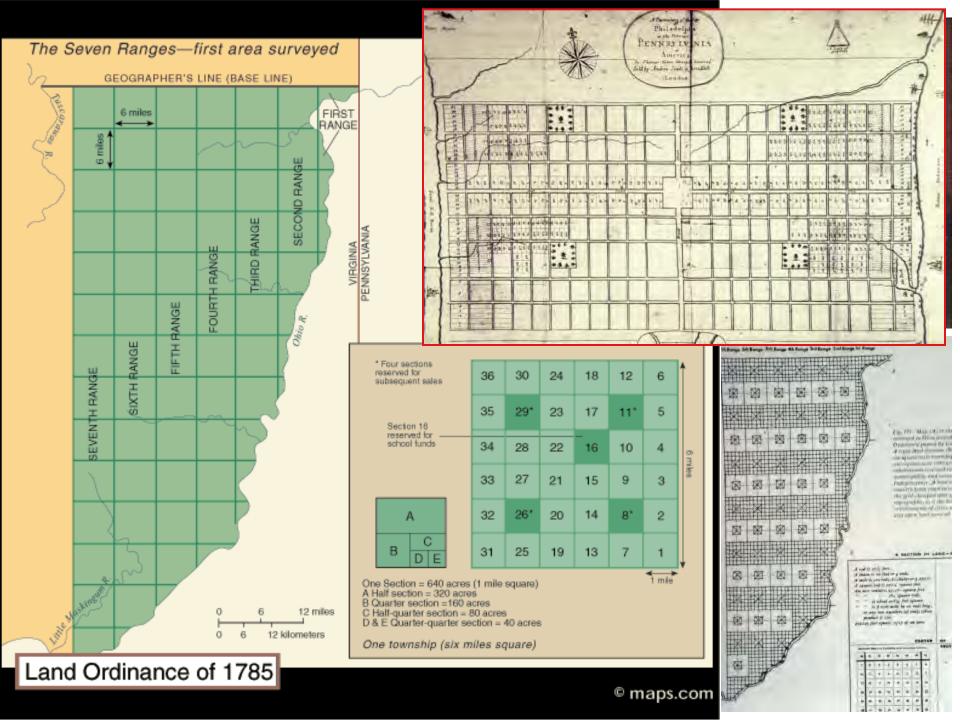














Henry David Thoreau Ralph Emerson Nathaniel Hawthorne





Trustees for Reservations – Boston -1891

John Muir – Sierra Club – 1895

Theodore Roosevelt – US Forest Service – 1905



Rachel Carson – Silent Spring -1962

Ian McHarg – Design With Nature - 1969



First Earth Day-1970

Club of Rome: Limits to Growth - 1972

Al Gore









## Positive proof of global warming.



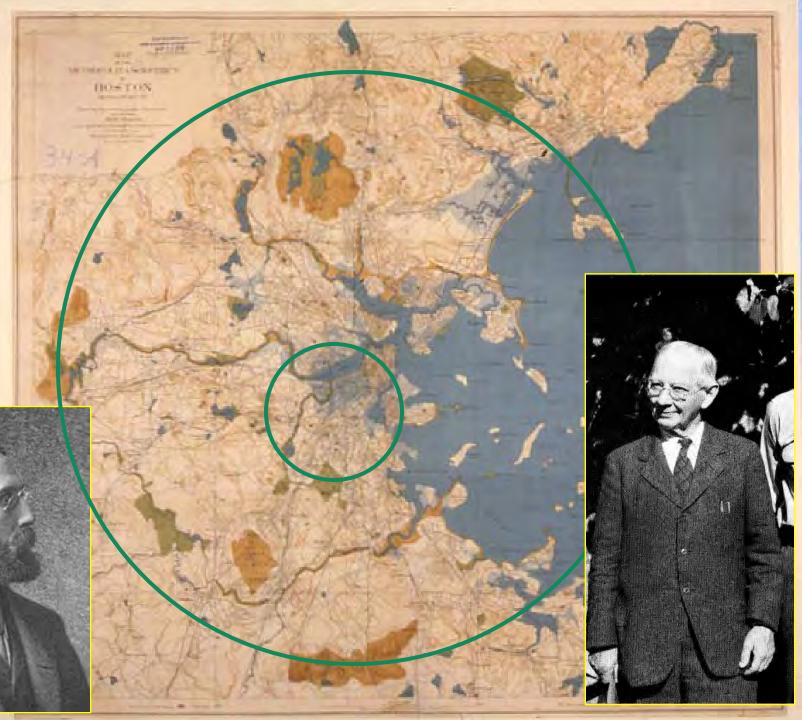


#### The Low-Carbon Catalog Any number of ways to reduce your footprint. PLUS: A defense of small, individual eco-actions, by Michael Pollan

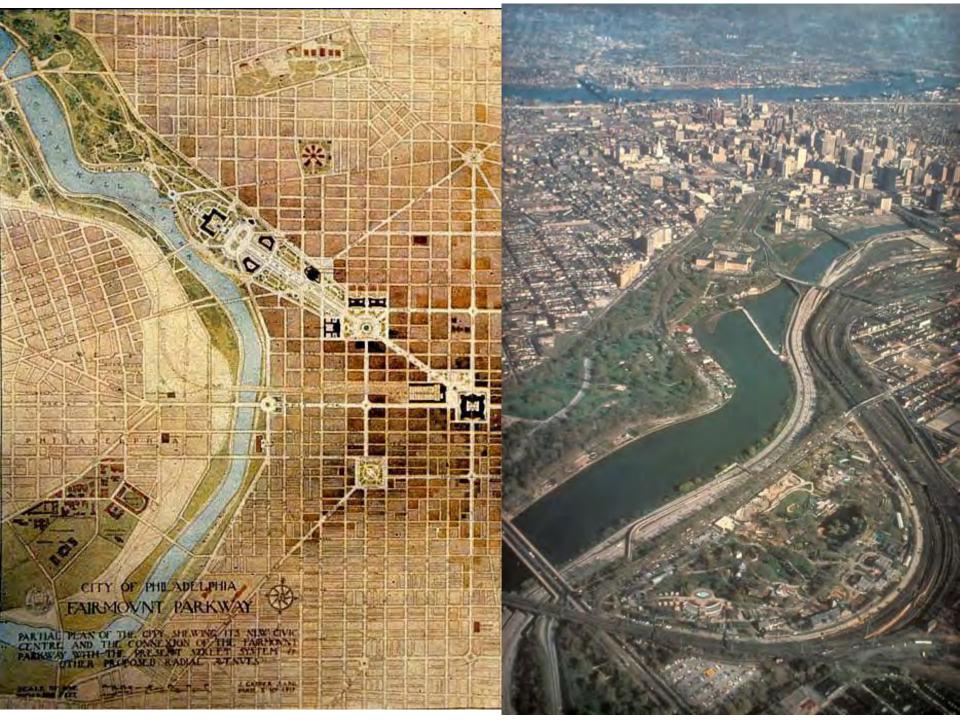
Charles Eliot. F. L. Olmsted Jr. & the Trustees for Reservations

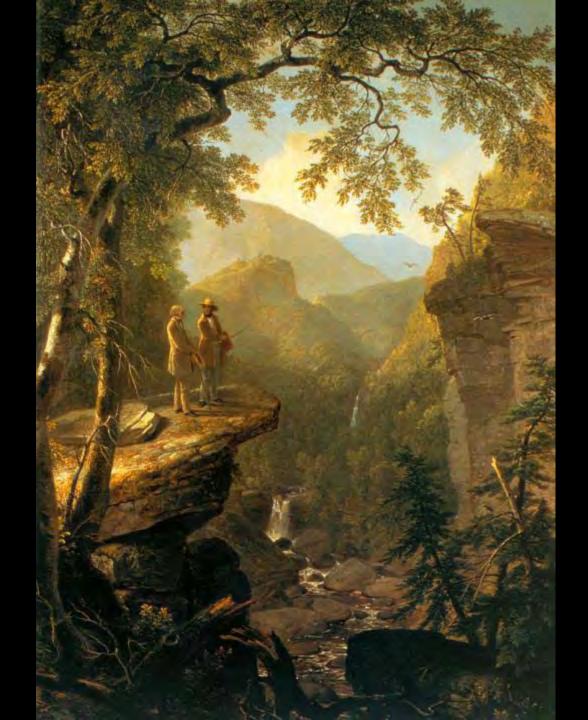
Map of the metropolitan District of Boston

The Outer Emerald Necklace 1893









## Today's **Trustees for Reservations**

Preserving 35,000 of the Commonwealth acres and counting ...

'Kindred Spirits': William C. **Bryant & Thomas Cole** 







-

About Us

World's End Workday The Trustees partner up with the National Park Service for a morning of clearing Invasive Asiatic bittersweet and Tree of Heaven at

World's End.

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Events

1

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Green Dogs Hound Hike Green Dogs and nonpermit holders enjoy a guided hike with their companions at Rocky Woods. MORE

R

Give

**Quick Links** 

Volunteer

Late Summer Strolls This guided tour will highlight latesummer and early-fall blooming plants and finish with refreshments on the house veranda at Long HIII. MORE

LONG HILL BEVERLY

\$

Store

WHAT'S HAPPENING

CAL ADDRESS

the trustees

of reservations

Properties

Celebrity Chefs cook for The Trustees at the Inn at Castle Hill this fall Find the best spots for fall picnics from the North Shore to the Berkshires

Reserve your Massachusetts Land and Water license plate today

Shoot! Enter! Win! Don't miss out on the Summer in the Valley Photo Contest

Cool down on the water with a canoe or kayak trip at these Trustees Reservations

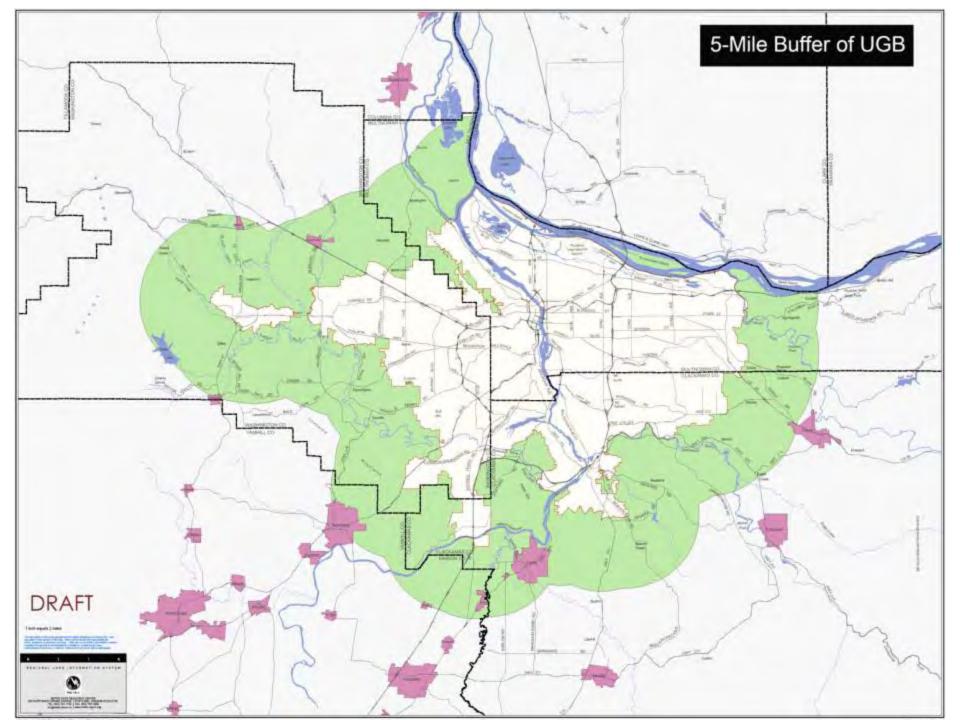
Read about Trustees' Gardens and Farms in two recent Boston Globe articles

Renew your Conservation Council Membership Today









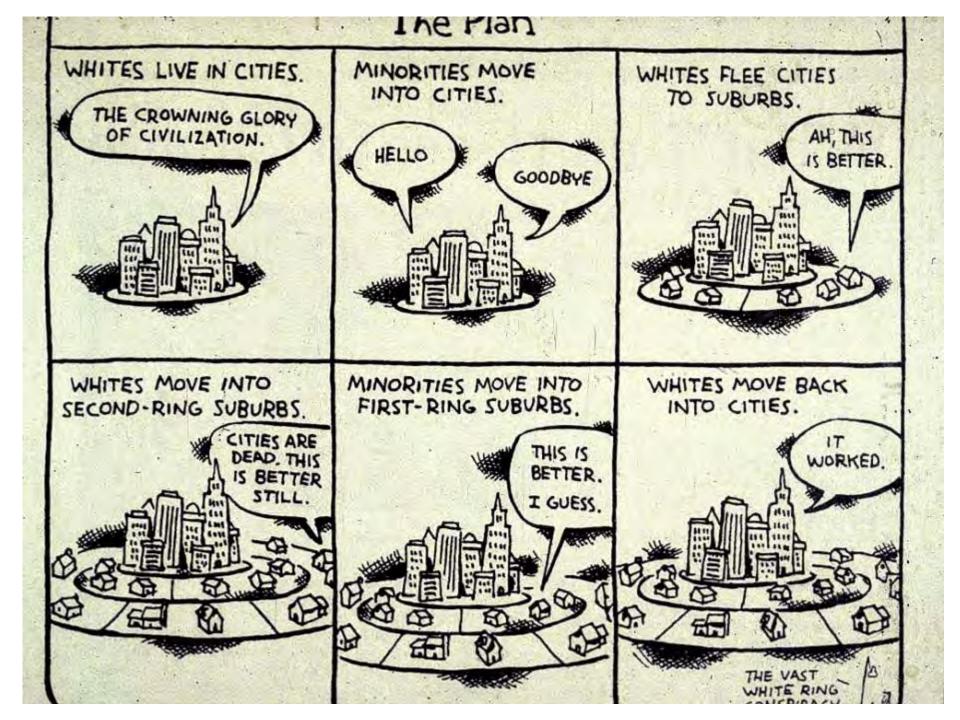
# Regional Population + Employment

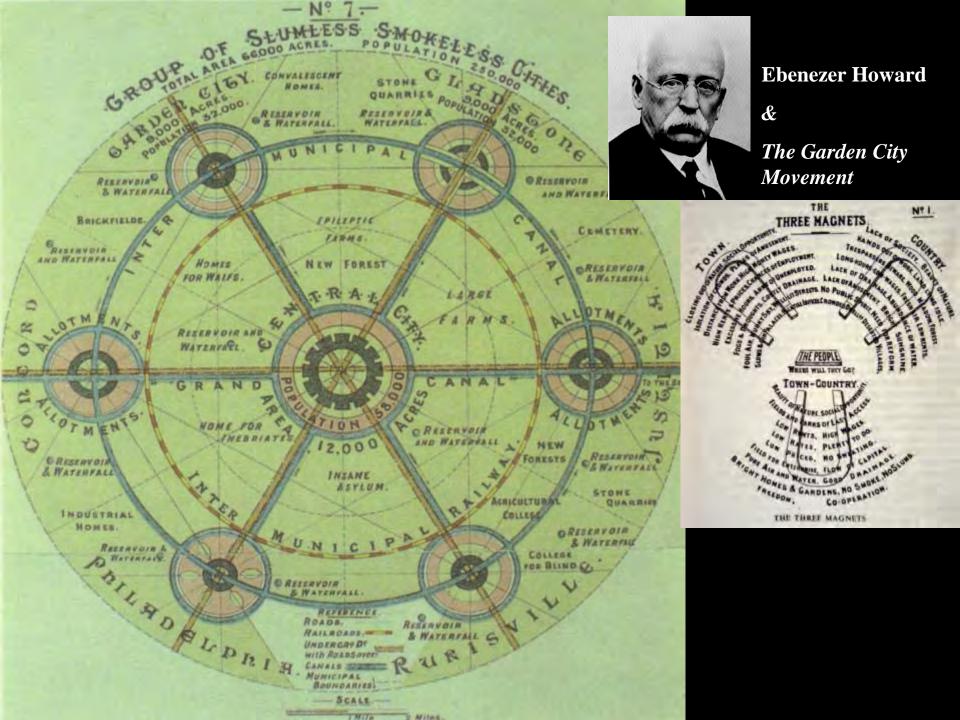
1 **green** dot = 300 residents 1 **purple** dot = 300 jobs

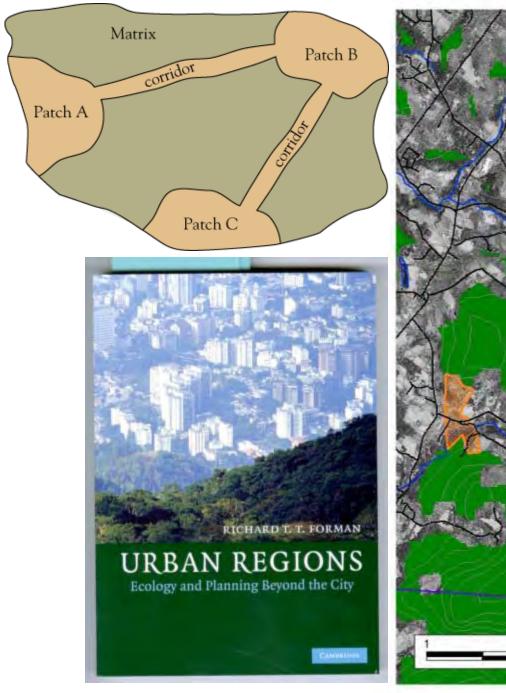
18 miles

US Census 2000 Wharton Business Analyst, 2008 Map produced by Planning Collective

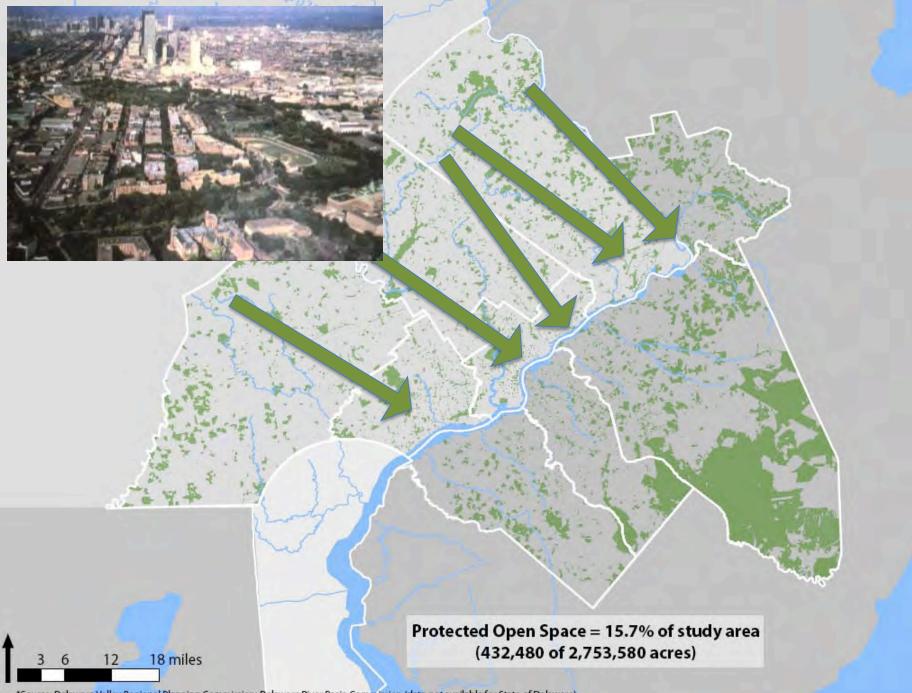




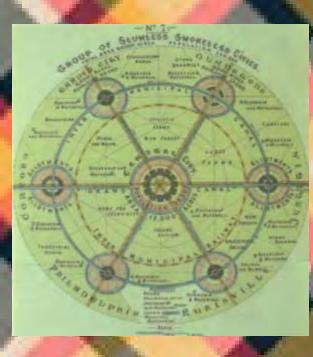








\*Source: Delaware Valley Regional Planning Commission; Delaware River Basin Commission (data not available for State of Delaware) Map produced by Planning Collective.





### 东北地区的绿色城市

#### 中国沈阳大浑南中心区总体发展规划 与核心区城市设计

#### A Green Metropolis for Northeast China

Ulban Design for Shenyang Great Hunnan Cermai Zone & Urban Core Area

August 2006

#### CHAN KRIEGER SIENIEWICZ

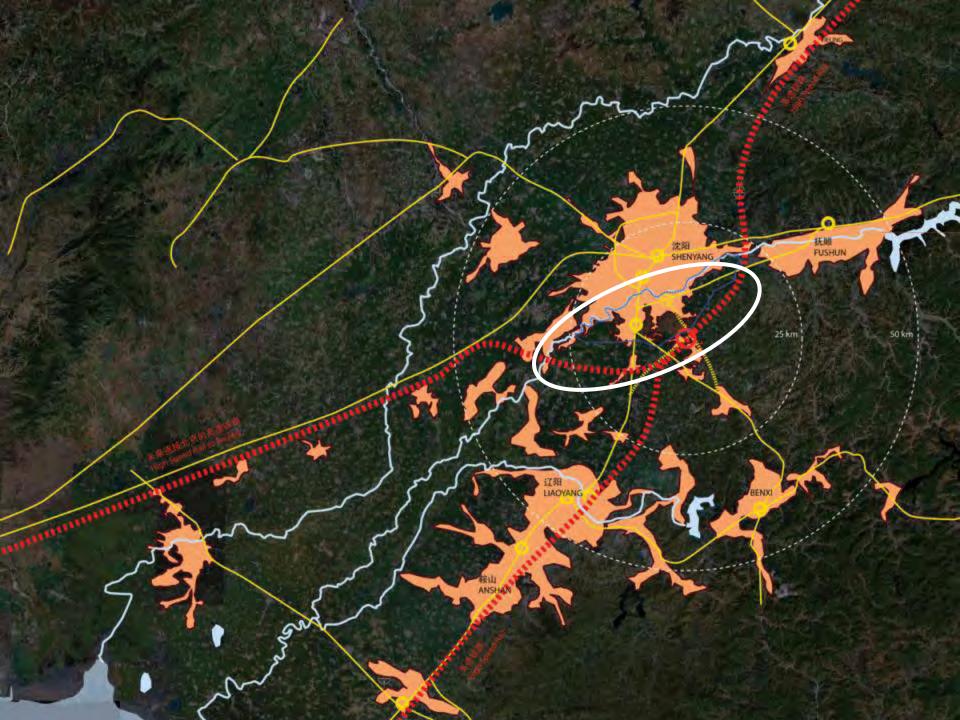




Between 1820 and 1920 approximately 27,000,000 people emigrated to America from Europe and helped America become among the most rapidly urbanizing nations on earth from the mid-19<sup>th</sup> to the mid-20<sup>th</sup> Centuries.



when 27,000,000 rural migrants made their way to urbanized areas in China.









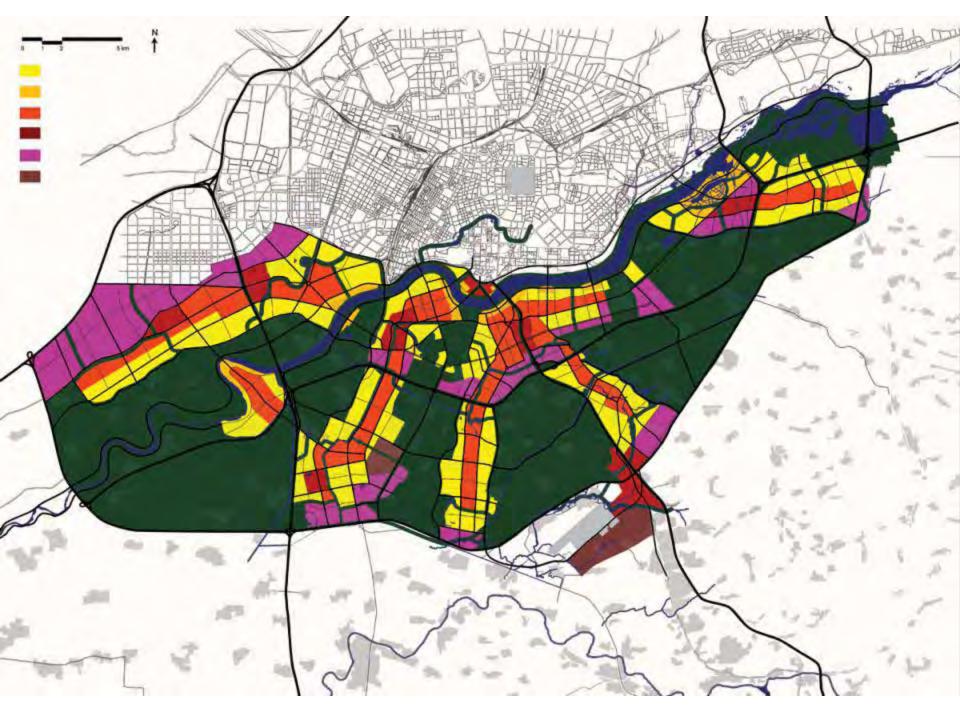












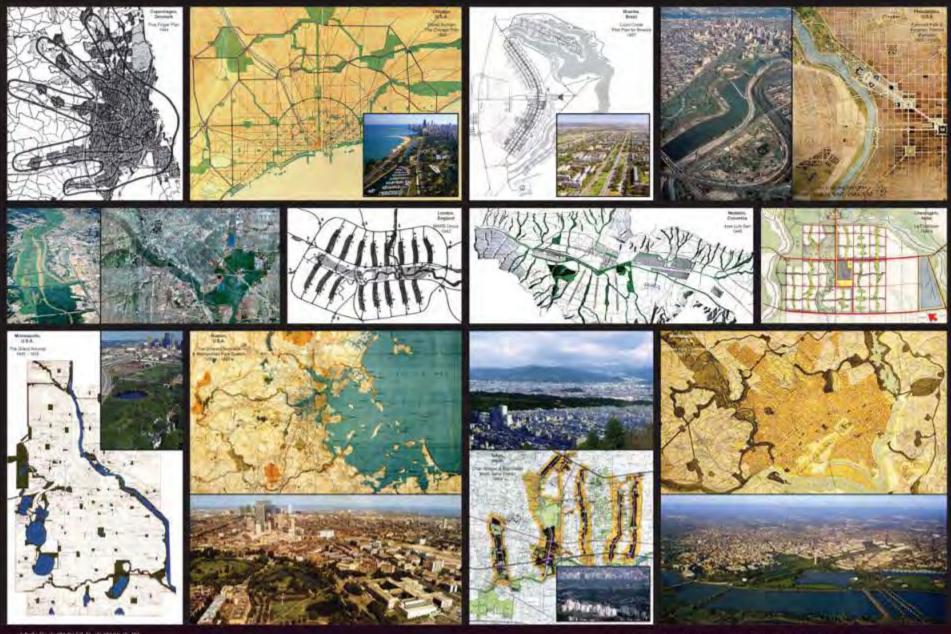








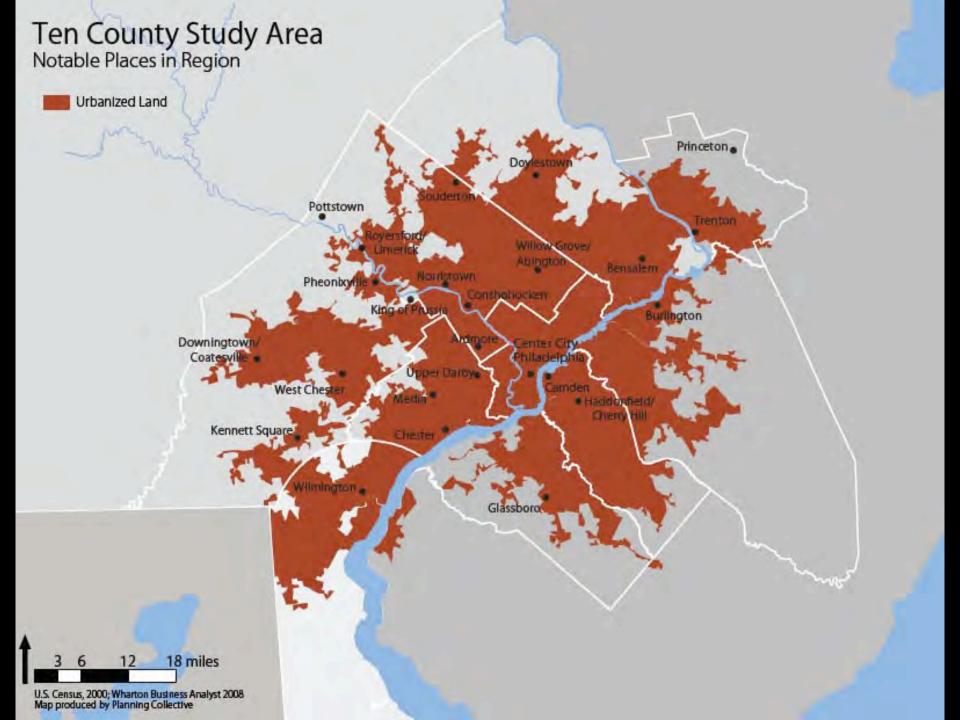




城市化走解和绿色走廊的先例 PRECEDENTS OF URBAN AND GREEN CORRIDORS

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中国沈阳大浑南中心区发展规划及核心区城市设计 China SHEITING SPEAT HANNAK CENTRAL HEAL OPPENDING IN CODE ANEA LINEAL DESCH



Two roads diverged in a wood, and I--I chose the one less traveled by, And that has made all the difference.



**Robert Frost** 





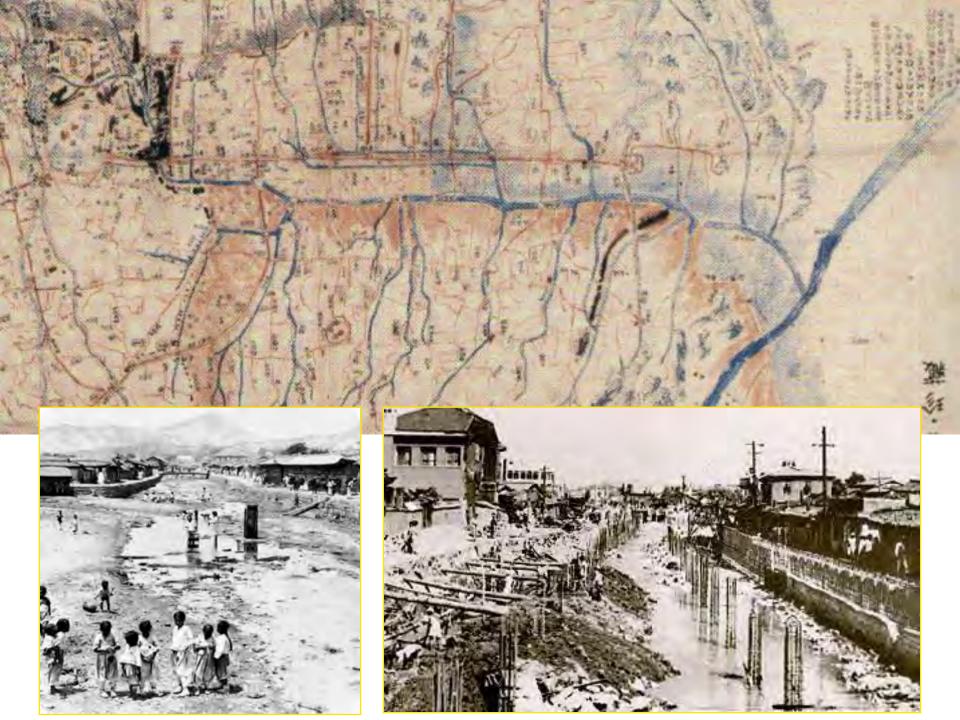
## Philadelphia The New River City



The second second





















one of the many stepping stones along the cheonggyecheon



# CONURBATIONS<br/>&for an Urban SpeciesCONSERVATIONAlex Krieger – 29 July 2009 - Philadelphia

