Planning for a Healthy, Active Oregon

Meet Your New Partners

Mark Bosworth – Cartography & GIS Tom Kloster – Land Use & Transportation Robert Yakas – Urban Design & Architecture



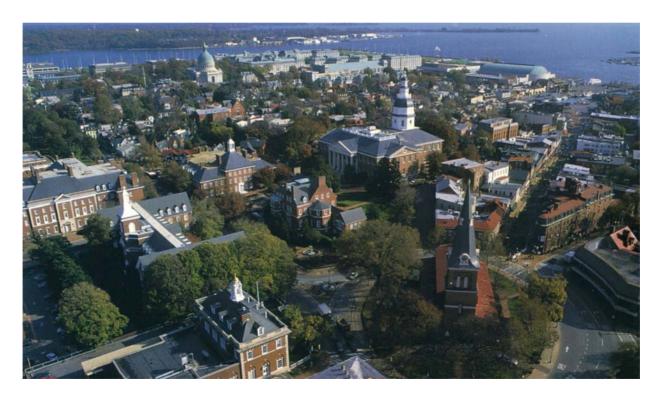
Planning and Public Health: *A brief history of American milestones and the Oregon system*

Tom Kloster Metro



Planning for a Healthy, Active Oregon European Legacy

Colonial settlements built under strict European standards





Planning for a Healthy, Active Oregon Post-Colonial

 American independence brings distrust in government planning

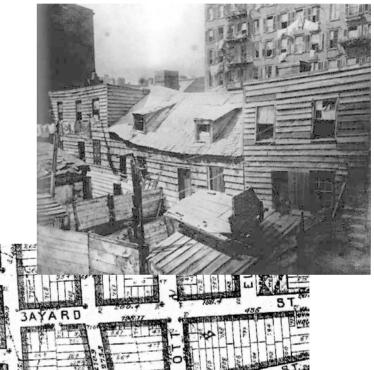


- First elected leaders are farmers who embrace an agrarian morality as "healthy living"
- * Cities represent a tiny part of a largely agrarian society



Planning for a Healthy, Active Oregon Industry Rises

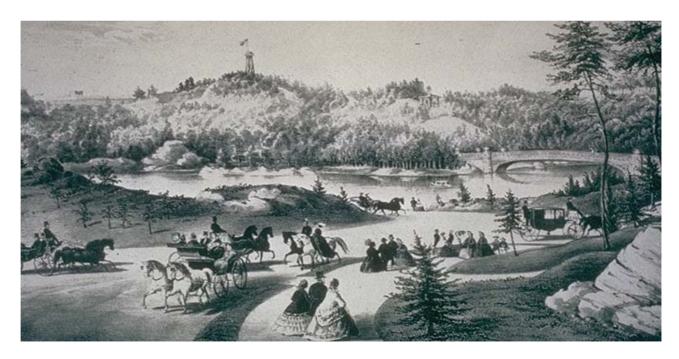
- The Industrial Revolution in the mid-1800s gives rise to shoddy tenement housing in crowded cities
- Vrban environment becomes increasingly polluted and dangerous





Planning for a Healthy, Active Oregon Back to Nature

* In 1873, New York's Central Park marks a movement to bring nature back to the cities, and the notion that cities can be healthy places to live





Planning for a Healthy, Active Oregon Columbian Exposition

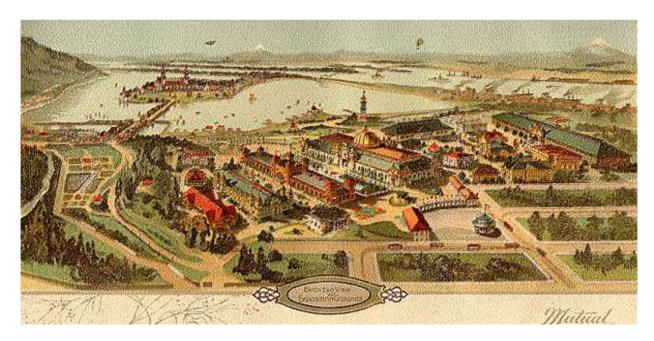
* In 1893, Chicago's "White City" establishes a utopian vision of clean, healthy cities and launches the "City Beautiful" movement





Planning for a Healthy, Active Oregon Lewis & Clark Expo

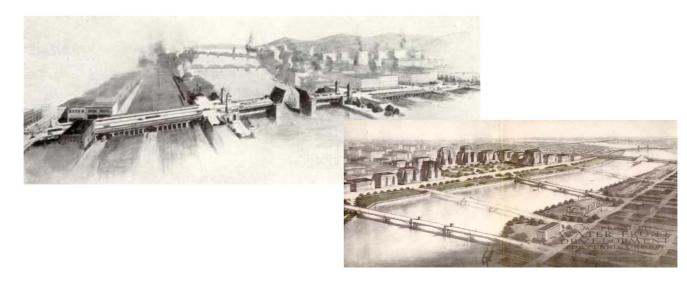
* Portland follows suit in 1905 with an exposition that builds on the classical themes established in Chicago, and a vision for "City Beautiful" in Portland





Planning for a Healthy, Active Oregon Early Portland Plans

- Olmsted Brothers 1903 Parks Plan and E.H. Bennett's 1912 City Plan establish "City Beautiful" ideals for Portland
- Cheney Plan (1921) and Bartholomew Report (1932) set framework for streets and waterfront





Planning for a Healthy, Active Oregon Euclid Decision

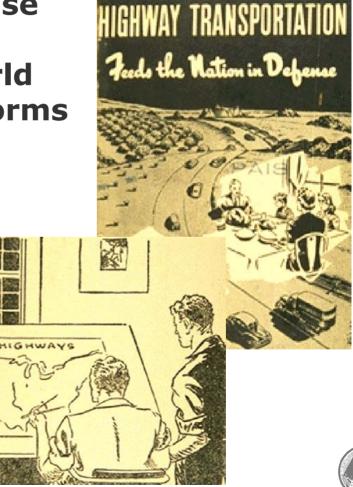
- U.S. Supreme Court makes landmark decision in Village of Euclid v.
 Ambler Realty, setting the stage for modern zoning of private land
- Cities across the country rush to adopt zoning -- largely in absence of any guiding plan, and primarily to protect property values





Planning for a Healthy, Active Oregon Post-War Highways

- The National Defense Highway System is launched after World War II, and transforms the landscape
- Farm towns across the country suddenly become bedroom communities when new highways link them to nearby cities





Planning for a Healthy, Active Oregon 70s Quiet Revolution

EMOCRAT MAYOR

is MAKING EVENTINDSAS

LOOK GOOD

RED-FASCIST

FNT AWS

- National environmental policy
- Urban renewal backlash
- Highway protests
- Urban support
 programs

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Planning for a Healthy, Active Oregon The Oregon Story

"There is a shameless threat to our environment and to the whole quality of life: unfettered despoiling of the land. Sagebrush subdivisions, coastal 'condomania'...

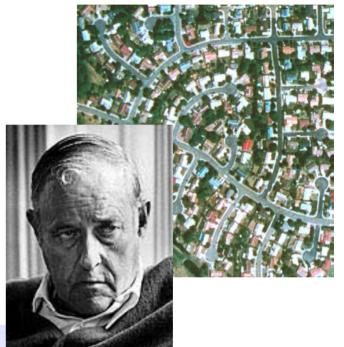


Governor Tom McCall



Planning for a Healthy, Active Oregon The Oregon Story

"...and the ravenous rampage of suburbia in the Willamette Valley all threaten to mock Oregon's status as the environmental model for the nation."



Tom McCall's address to the Legislature, January 8, 1973



Planning for a Healthy, Active Oregon Senate Bill 100

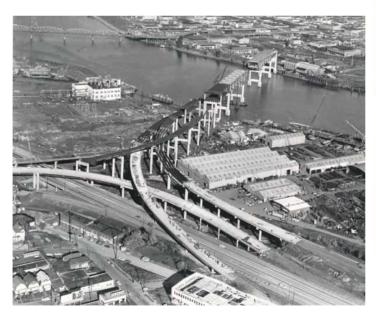
- * Legislature adopts pioneering 1973 statewide planning program to limit sprawl and protect forest and farms
- Legislation requires local plans to meet statewide goals; creates LCDC
- Urbanization now focused inside urban growth boundaries





Planning for a Healthy, Active Oregon Portland's Backlash

In Portland, a backlash forms against a plan for massive freeway building that is already destroying urban neighborhoods



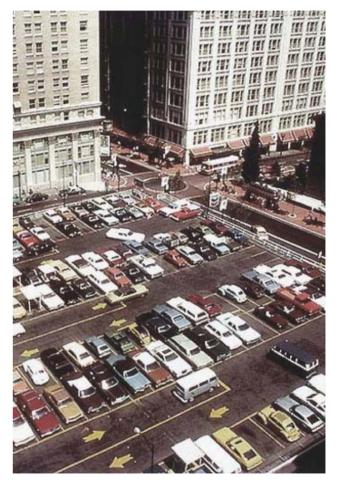




PUMTS

Planning for a Healthy, Active Oregon Downtown in Decline

- Freeways focusing growth in suburbs
- Downtown
 buildings razed to
 construct more
 parking lots
- Vrban renewal replaces vibrant neighborhoods with sterile highrise apartments





Planning for a Healthy, Active Oregon 1972 Downtown Plan

Mayor Neil Goldschmidt leads reform movement, and development of Portland's innovative downtown plan:

- emphasis on transit-oriented development
- 24-hour downtown with more housing and ground-floor retail

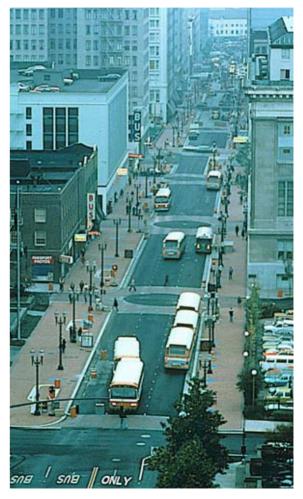


Mayor Neil Goldschmidt



Planning for a Healthy, Active Oregon Lid on Parking

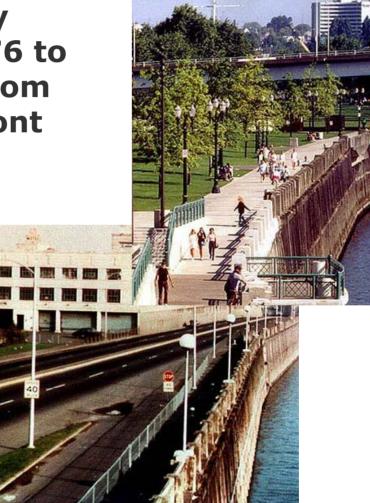
- Parking lid in
 Downtown Plan
 slowed the loss of
 historic buildings to
 surface parking lots
- In 1977, the new transit mall became the new focus of downtown redevelopment, making transit a viable option to driving





Planning for a Healthy, Active Oregon Highway Revolt

- Harbor Freeway removed in 1976 to make way for Tom McCall Waterfront Park
- Mount Hood Freeway withdrawn in favor of light rail transit along the Banfield





Planning for a Healthy, Active Oregon Light Rail Opens

- Banfield light rail opens in late 1986, becoming the centerpiece of downtown plans in Portland and Gresham
- Westside light rail to Hillsboro begins in 1998
- Airport service
 begins in 2001





Planning for a Healthy, Active Oregon LUTRAQ

1989 Western
 Bypass proposal
 frames a new
 debate on regional
 growth management



Metro

- * 1000 Friends of Oregon proposes LUTRAQ alternative to status quo
- Linking land use and transportation planning becomes new mandate for regional plans

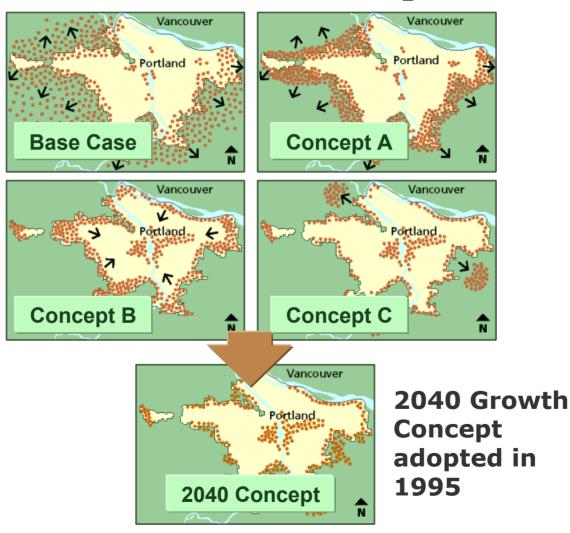
Planning for a Healthy, Active Oregon 2040 Plan Begins

- First regional growth goals established in 1990
- Metro Charter expanded by voters in 1992 to focus on managing growth





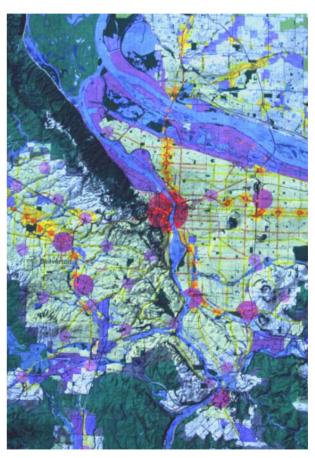
Planning for a Healthy, Active Oregon 2040 Concepts





Planning for a Healthy, Active Oregon 2040 Growth Concept

- 50-year vision for managing region's growth
- Incorporates best parts of "Concepts for Growth options
- Kicks off an major effort to enact the new regional vision through local plans





Planning for a Healthy, Active Oregon 2040 Theme: Growth in Centers

- * Compact urban centers built to human scale
- Mixed housing and commerce served with good transit
- Focus of civic activities and public services
- Parking ratios established





Planning for a Healthy, Active Oregon 2040 Theme: Protect Industry

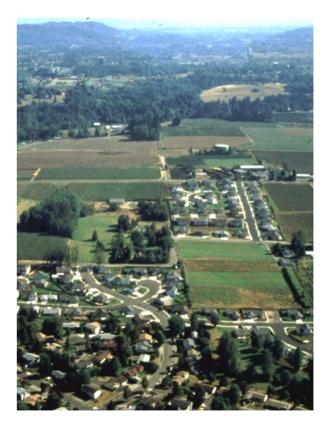
- Maintain freight mobility on highways
- Ensure quality freight access to ports and industrial areas from region's highway and rail network





Planning for a Healthy, Active Oregon 2040 Theme: Protect Rural Areas

- Create Green
 Corridors along rural
 state highways
- Mitigate urban overflow on rural routes
- Maintain rural separation between Metro region and neighbor cities





Planning for a Healthy, Active Oregon 2040 Theme: Nature in the City

- * Network of parks, trails and open spaces
- Protections for streams and upland natural areas
- Streets designs that minimize runoff
- Manage hazardous waste to protect streams and groundwater





Planning for a Healthy, Active Oregon 2040 Theme: Travel Options

- All streets retrofitted to include sidewalks and bikeways
- Better-connected street systems that allow easier walking and access to transit
- Frequent transit service on all major streets





Planning for a Healthy, Active Oregon 2040 Themes: Streets for People

- Soulevard designs in centers that promote walking, bicycling and transit, while creating civic space and a sense of community
- Street designs with self-enforcing features that calm traffic to posted speeds





Planning for a Healthy, Active Oregon 2040 Theme: Ongoing Outreach

- Periodic outreach campaigns for major policy updates
- Ongoing web and hotline information with comment options
- Special events and tools on current planning topics





Planning for a Healthy, Active Oregon Emerging Theme: Active Living

- Create an urban form that fosters everyday activity
- Find new strategies for retrofitting existing environment
- Include health
 benefits in
 planning
 decisions





Planning for a Healthy, Active Oregon Emerging Theme: Kid's Transportation

- Reverse trend of large compound-like schools located far away from neighborhoods
- Improve education on health benefits, safety of walking and biking to school





Planning for a Healthy, Active Oregon Next Steps

- Priorities 2004-07
 Update currently
 underway to allocate
 \$41 million in flexible
 funds
- * Regional

Transportation Plan update scheduled for Summer '03; sets 20year policies and priorities for transportation





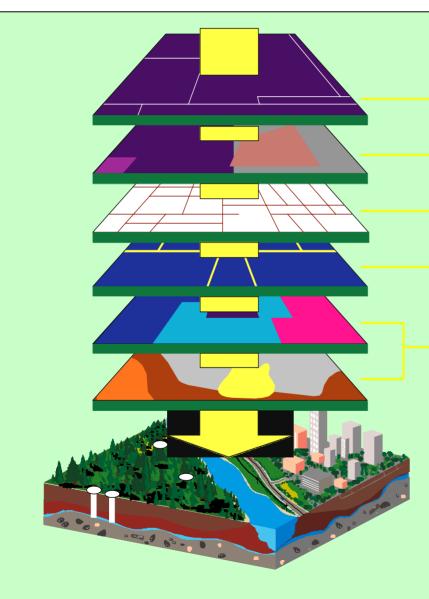
Planning for a Healthy, Active Oregon



GIS Geographic Information Systems

Analytical Cartography... Modeling the real world

Geographic Information System

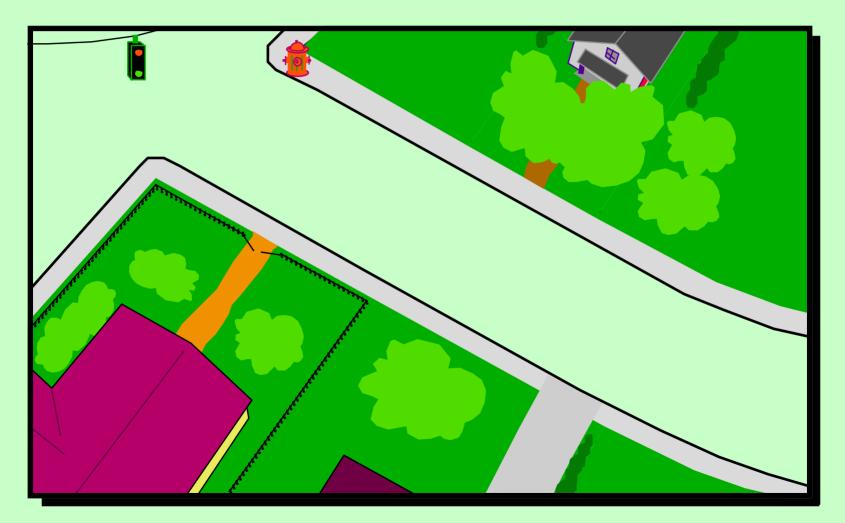


People/Population

- Plants & Animals/Biological
- Infrastructure/Engineering
- Land Use/Planning

Environmental Considerations

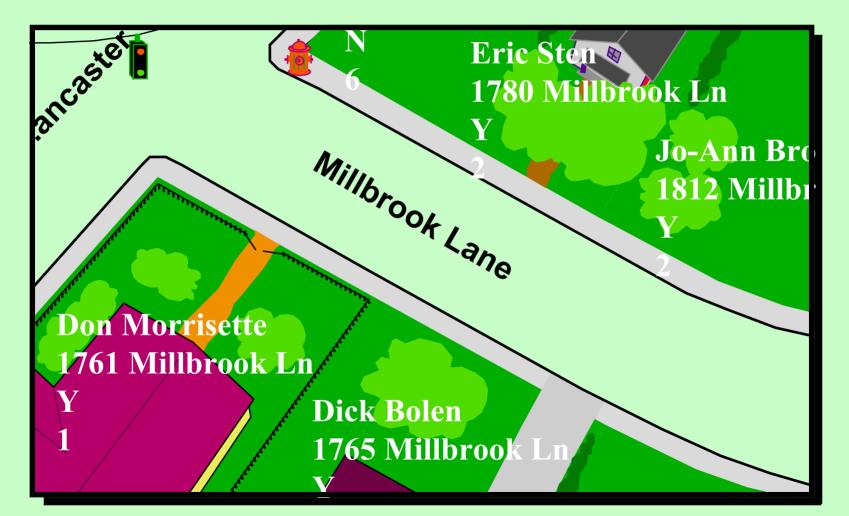
Geographic Data



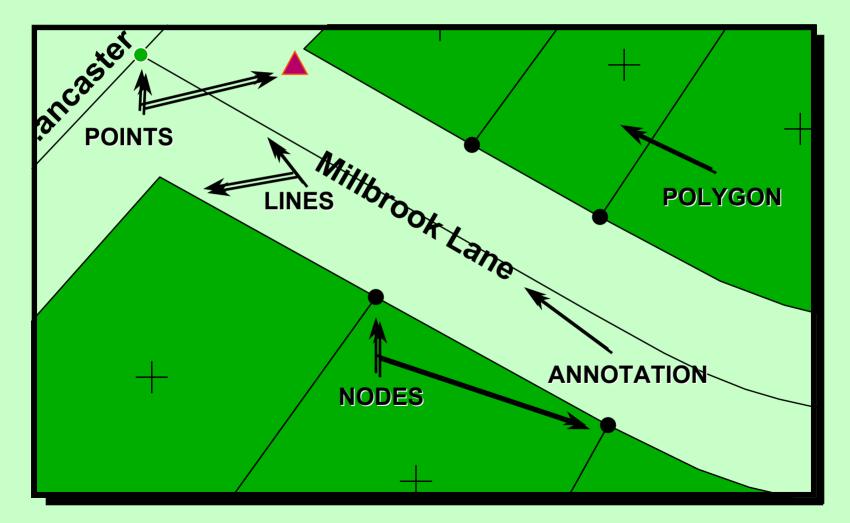
Descriptive Data

| Mike Burton | 1/5/ MILLDrook Ln | 28226 | ľ | 2 |
|------------------|------------------------|-------|-----|--------|
| Don Morrisette | 1761 Millbrook Ln | 28226 | Y | 1 |
| Arvydas Sabonis | 1765 Millbrook Ln | 28226 | Y | 2 |
| Tonya Harding | 1776 Millbrook Ln | 28226 | Ν | 6 |
| Eric Sten | 1780 Millbrook Ln | 28226 | Y | 2 |
| Grace Hague | 1537 Sandberry Dr | 28226 | Y | 1 |
| Gary Waters | 1541 Sandberry Dr | 28226 | Y | 3 |
| Holly Williams | 1200 Yamasee Dr | 28210 | Y | 4 |
| Britney Spears | 980 Harrowfield Rd | 28226 | Ν | 1 |
| Art Alexis | 1812 Millbrook Ln | 28226 | Ν | 2 |
| Jane Moore | 1090 Overhill Dr | 28112 | Y | 4 |
| Mike McGuire | 1108 Kings Canyon Dr | 28226 | Y | 3 |
| Lee Ross | 1605 Bosham Ln | 28226 | Y | 2 |
| Lucia Barbados | 1429 Quail Wood Dr | 28226 | Y | 2 |
| Mary Jo Fraley | 1432 Quail Wood Dr | 28226 | Y | 1 |
| Mike Dyer | 1430 Quail Wood Dr | 28226 | Y | 3 |
| Scott Royer | 1332 Cameron Forest Dr | 28173 | Y | 3 |
| Jack Dangermond | 1327 Redlands Ln | 28173 | Y | 2 |
| Devil Cell'mente | | 00170 | 5.7 | \sim |

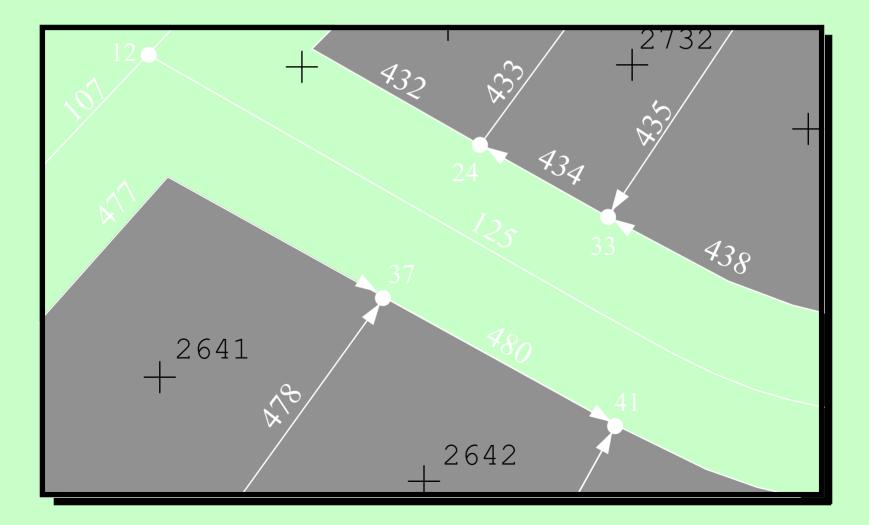
Geographic Information



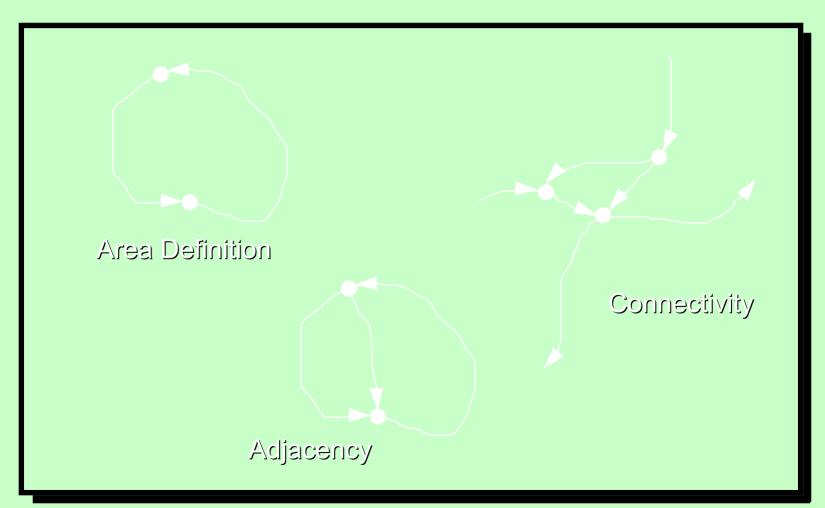
Spatial Representations

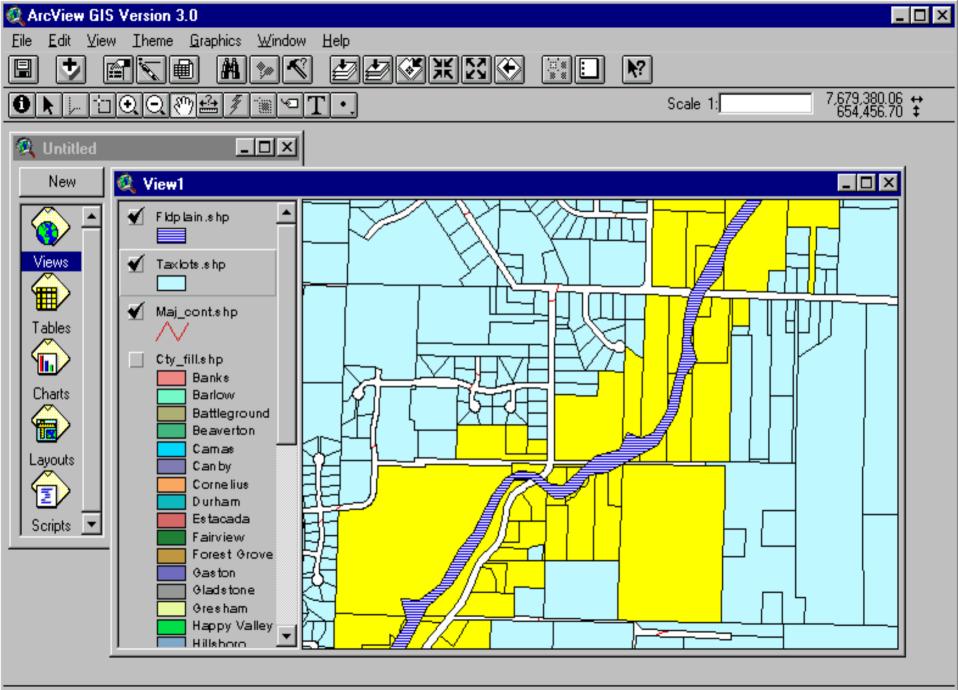


Arc-Node Topology

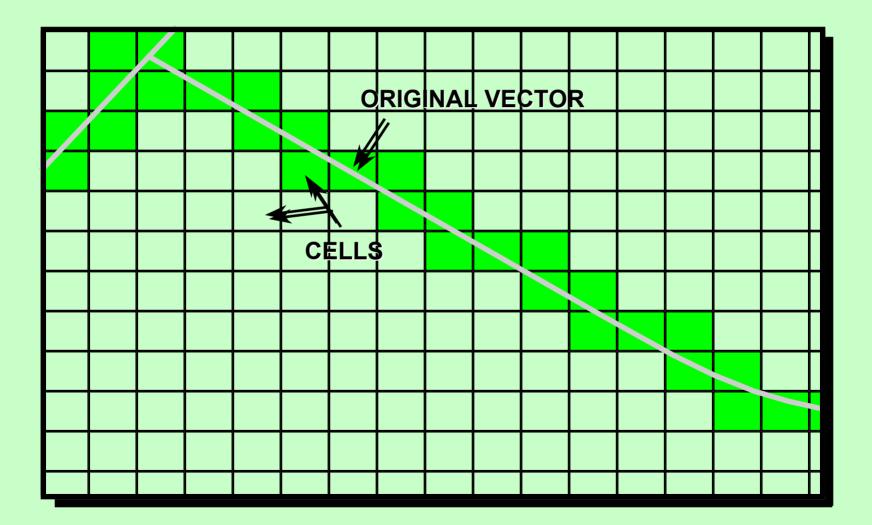


Spatial Relationships (Topology)

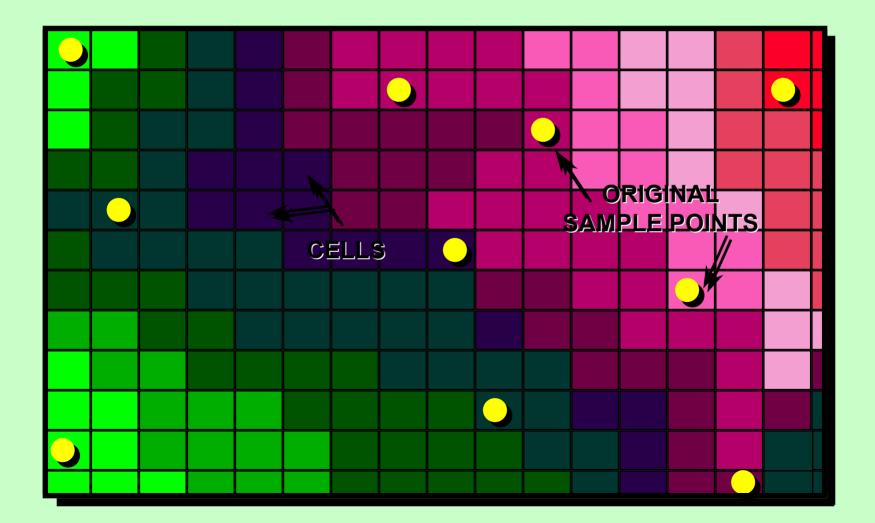




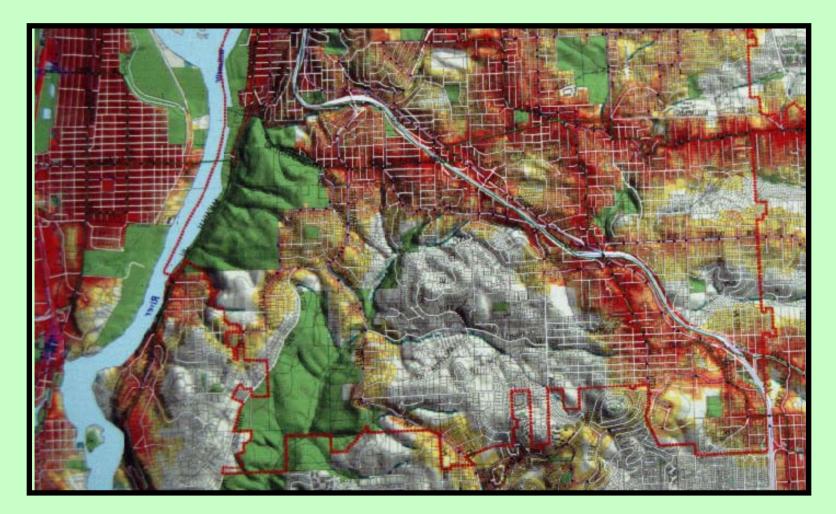
Discrete Raster Representations



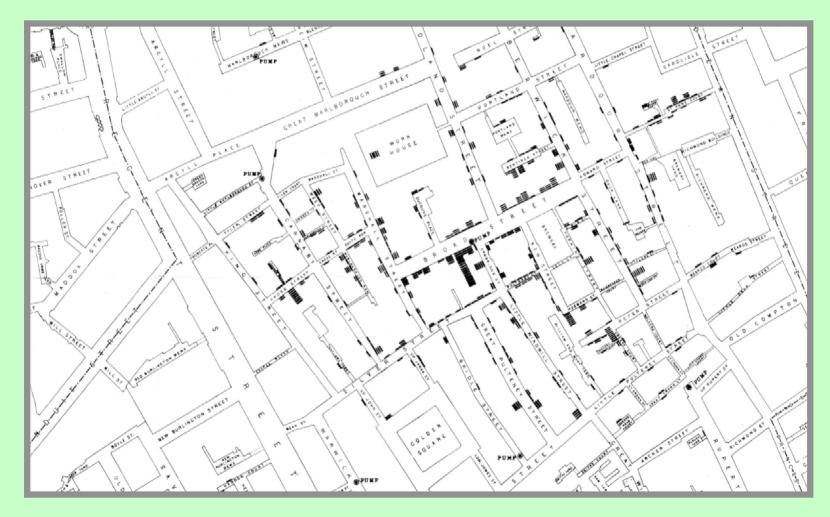
Continuous Raster Representations











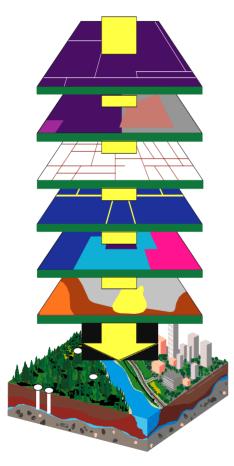
INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS IN PUBLIC HEALTH

ALAN L. MELNICK





Planning for a Healthy, Active Oregon



GIS Demonstration

