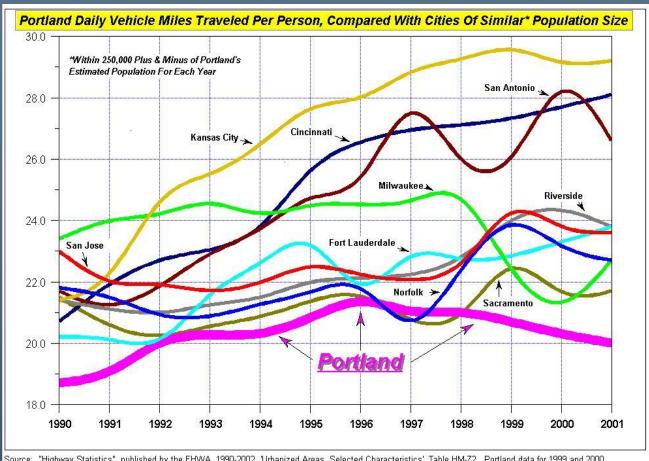
CO2 Reduction through Better Urban Design: Portland's Story

Metro Councilor Rex Burkholder
August 22, 2007
Pacific Grove, CA



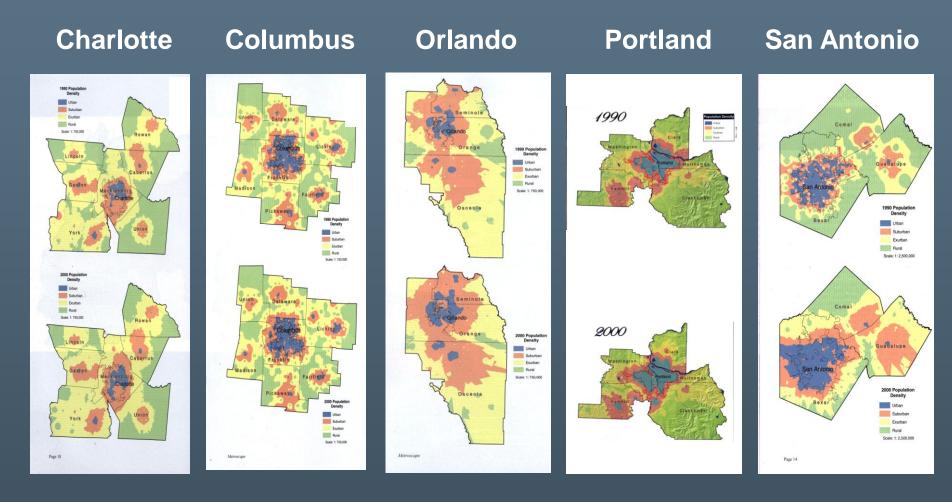
Portland area residents drive less...



Source: "Highway Statistics", published by the FHWA, 1990-2002, 'Urbanized Areas, Selected Characteristics', Table HM-72. Portland data for 1999 and 2000 was in error due to a report software problem. The corrected figures appear above, as per direct correspondence with Oregon's DOT, Highway Performance Monitoring System office. Note: For data consistency over time, some figures were included that were above or below the 250,000 population range criteria.

While per capita vehicle miles traveled is increasing nationally at an average of 2.3% per year, VMT/capita in the Portland area is declining thanks to reliable transit service, smart land-use planning, and outreach programs.

...and live in higher densities.



Compared to similarly-sized metropolitan areas, the Portland region has a larger and area and more rural land, with fewer suburbs and exurbs.

Regional Population Growth Allocated By Density Category 1990-2000

	Charlotte	Columbus	Orlando	San Antonio	Portland
Urbain 3000+ persons/sq n		31%	64%	63%	88%
Suburbar 1000 to 3000 perso		45%	23%	8%	9%
Exurban 300 to 1000 person	45% s/sq mile	18%	12%	12%	1%
Rural 0 to 300 persons/so	-1% mile	7%	2%	17%	3%

In the past two decades, a strong majority of the Portland area's population growth has taken place in urban areas.

As a result, Portland's GHG emissions are falling.

Multnomah County Per Capita Greenhouse Gas Emissions

Metric tons CO2 equivalent

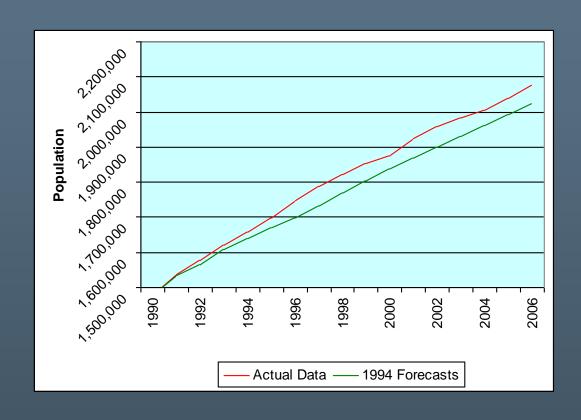
	1990	1995	2000	2001	2002	2003	2004
Residential	$3 \cdot 34$	3.10	3.27	3.16	3.08	2.99	3.06
Commercial	3.56	3.58	3.85	3.74	3.58	3.55	3.70
Industrial	2.62	2.57	2.63	2.39	2.09	1.95	1.93
Transportation	6.50	5.96	5.64	5.52	5.87	5.79	5.55
Waste	0.46	0.41	0.25	0.27	0.28	0.32	0.18
TOTAL	16.48	15.62	15.64	15.07	14.89	14.60	14.42
% change from 1990		-5.2%	-5.1%	-8.5%	-9.7%	-11.4%	-12.5%

Portland Office of Sustainable Development, 2005 Progress Report on the City of Portland and Multnomah County Local Action Plan of Global Warming

Metro has not yet conducted a region-wide GHG inventory, but the region's most urban county lowered per capita GHG emissions by 12.5% since 1990.

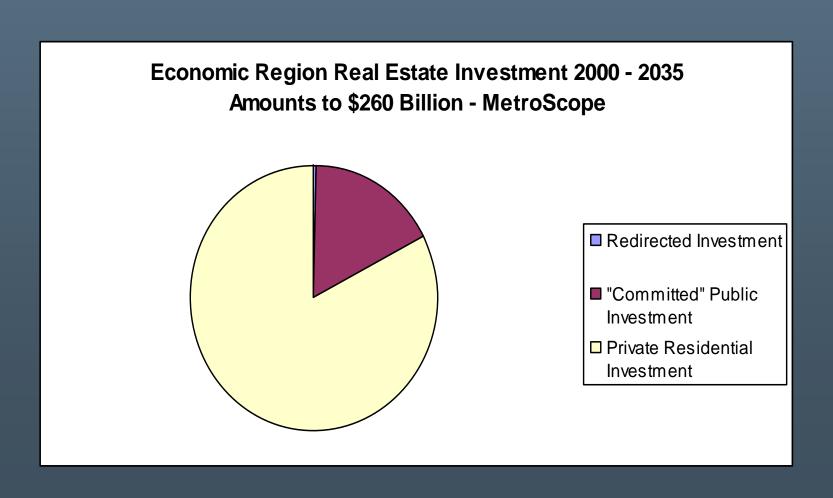
Forecasts vs. Results

- Metro's 1994 projections for the 2006 population of the 5-county Portland MSA were within 2.5% of actual values.
- 1999 projections for the total VMT in the Portland urbanized area were within 7% of actual values.
- Current VMT models are only 3% off of actual values.



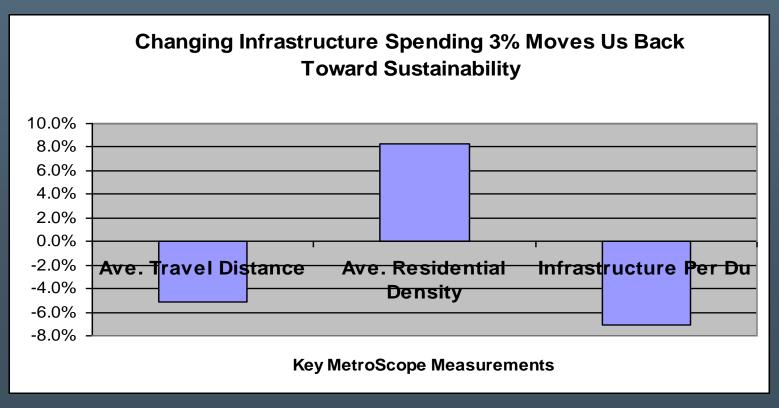
The accuracy of these projections helps Metro anticipate and make allowances for growth, make investments on an appropriate scale, and target development in the right areas.

What Happens When We Redirect a Small Share of the \$44 Billion in Public Infrastructure Investment?

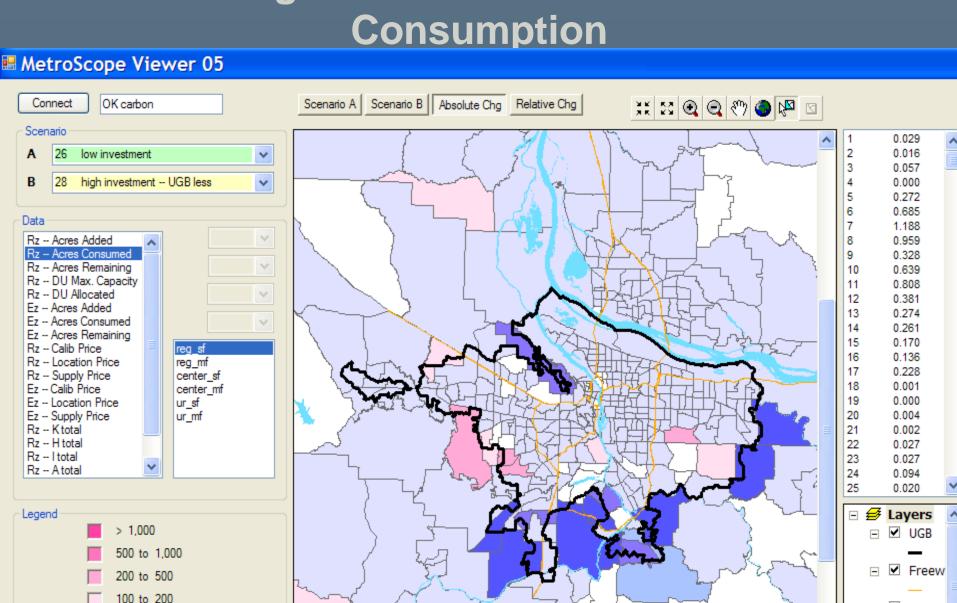


Reframing History – What Can Be Achieved by Spending a Tiny Sliver of Committed Public \$ a Little Smarter?

 MetroScope Question – What Does \$1.5 billion spent differently and a bit tighter Urban Growth Boundary give us?



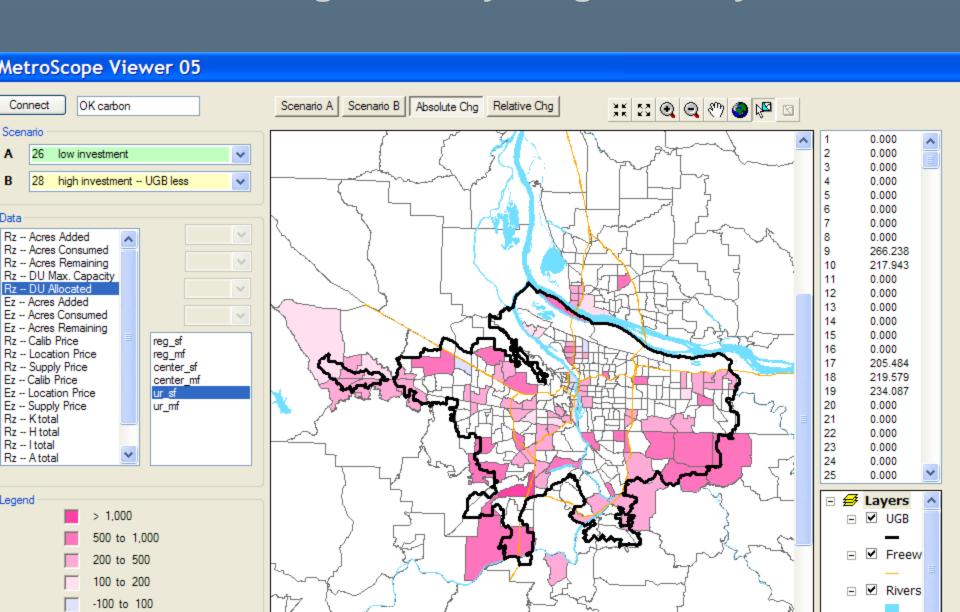
Redirecting 3% of Public Investment and A Tighter UGB Reduces Land Consumption



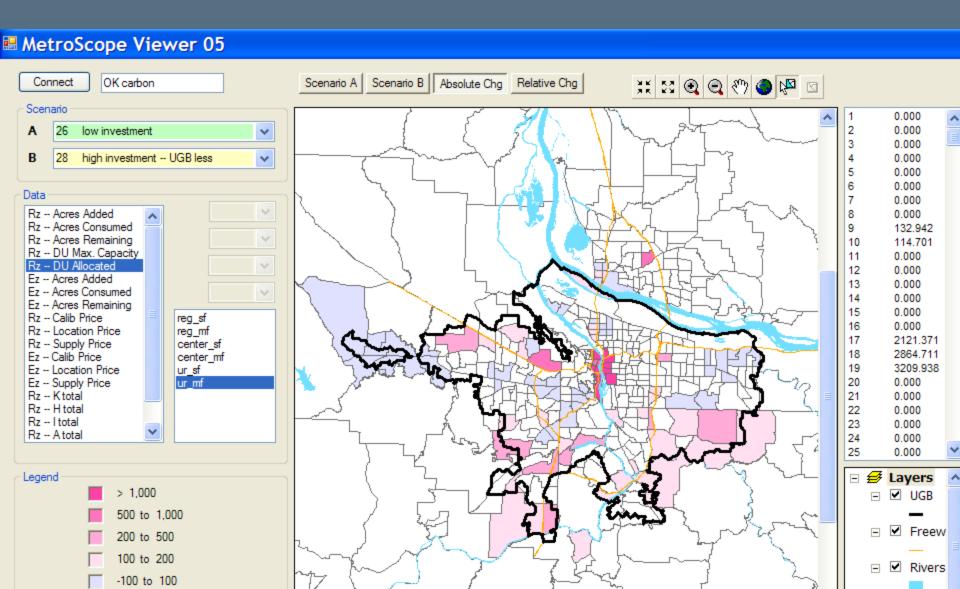
-100 to 100

Rivers

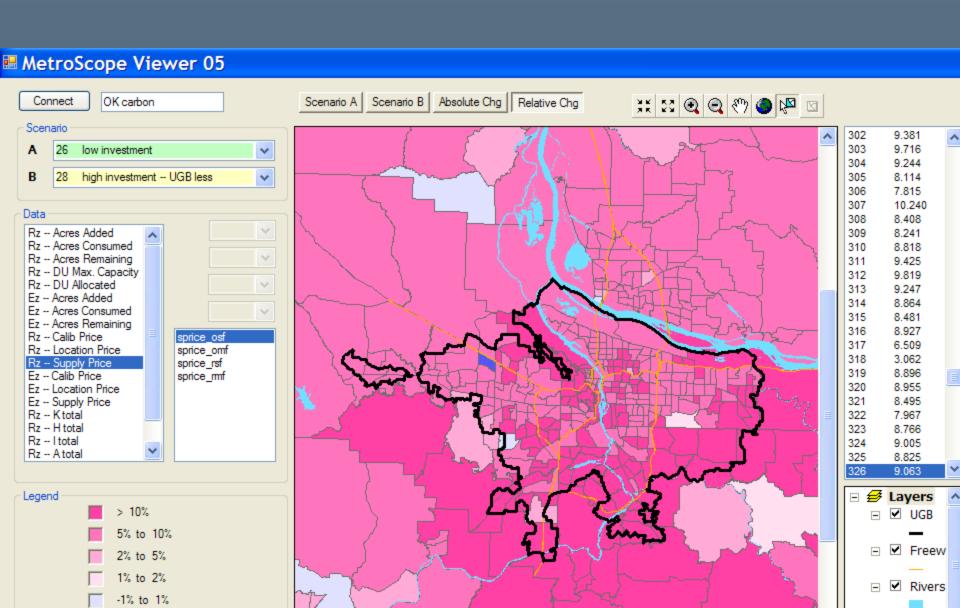
Single Family Demand is Redirected to Moderate to High Density Single Family Areas



Output of High Density Multi-Family Increases Greatly in Centrally Located High Access Locations.



There Is Still No Free Lunch – Single Family Housing Prices are Up 5 – 15% by 2035 Over Trend Policies.

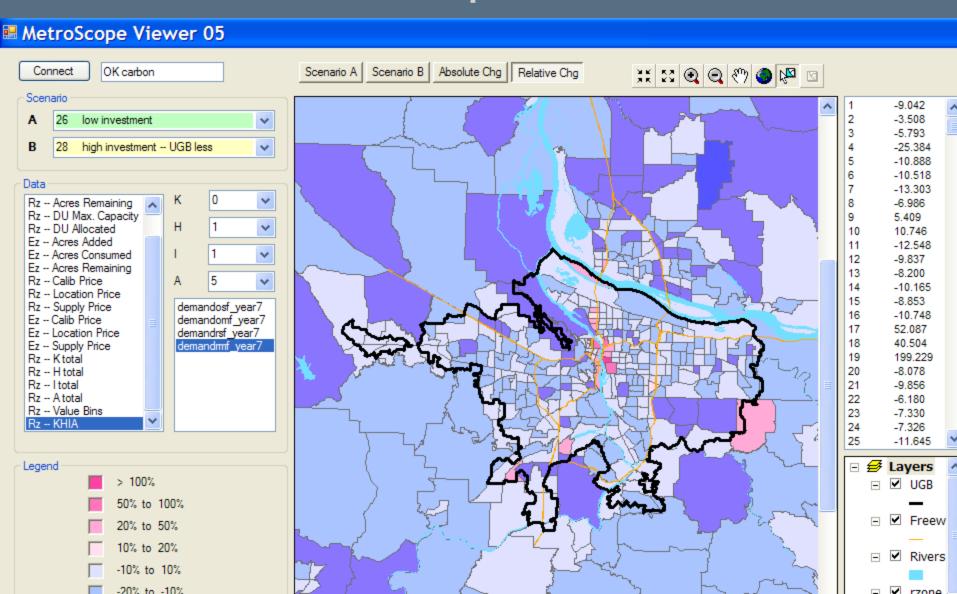


But, All Benefit from Compact Development

QuickTime™ and a TIFF (LZW) decompressor are needed to see this picture.



Lowest Income, 1 Person, Elderly in Apartments are Housed Closer in with Access to More Services Compared to Trend.



Policies and programs that have made a difference in the Portland Metropolitan region



Metro's Regional Transit Options Program

Metro has several outreach programs to reduce driving.



Metro's Bike
There! map
informs cyclists of
the best routes
around the region.



CarpoolMatchNW.org is a free online service that matches commuters up with others who share the same routes.

Drive less. Save more.

Drive less. Save more. is a website providing transit and travel options information, promoting efficient driving, and helping users calculate the real cost of driving.



Metro arranges vanpools for groups of 10-15 commuters and covers 50% of monthly costs.

Transit Oriented Development (TOD) Investment Program



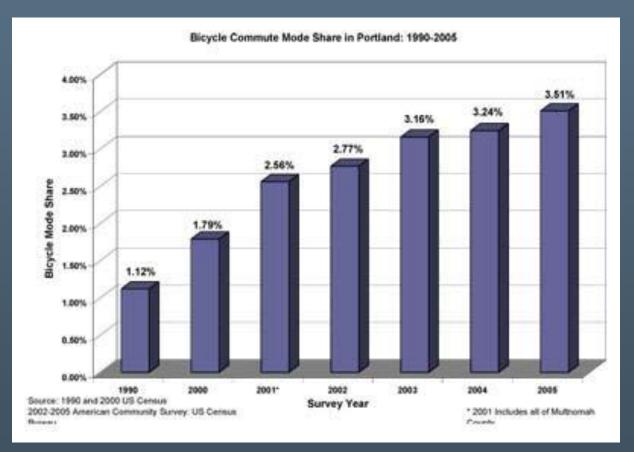
Metro promotes TOD by:

- Investing in proportion with projected increases in transit ridership
- Providing easements and land write-downs
- Funding "cost premiums"



In a recent survey of residents of the Merrick (above left), a new TOD development, 68% of residents said they have been driving less since they moved in, while 70% said that they now take more transit and 47% reported walking more.

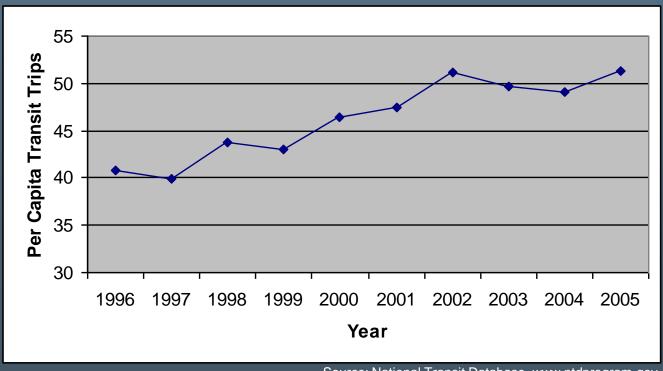
Overall, Portland area residents are biking more...



Bicycles' mode share almost doubled between 2000 and 2005.

...and riding more transit.

Per Capita Transit Trips, 1996-2005



Source: National Transit Database, www.ntdprogram.gov

There are only 6 U.S. metropolitan areas with more per capita transit ridership than Portland, and all have substantially higher populations.

Creating Regional Centers

Metro has several programs to help businesses, neighborhood leaders, planners and policy makers create vibrant, mixed-use regional centers:

Get Centered!, an outreach campaign to help developers, architects and officials spur development in centers.

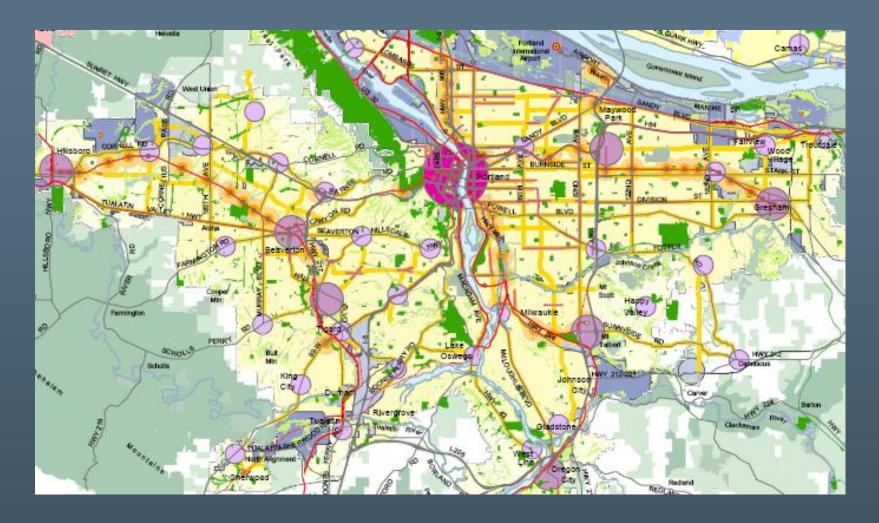
The **Main Streets Handbook**, a technical guide to help local officials and planners create walkable main streets that are attractive to businesses and customers alike.

Metro has organized two official visits to Vancouver, BC, so that Portland area planners and policy makers can learn what made that city so successful in reducing sprawl.



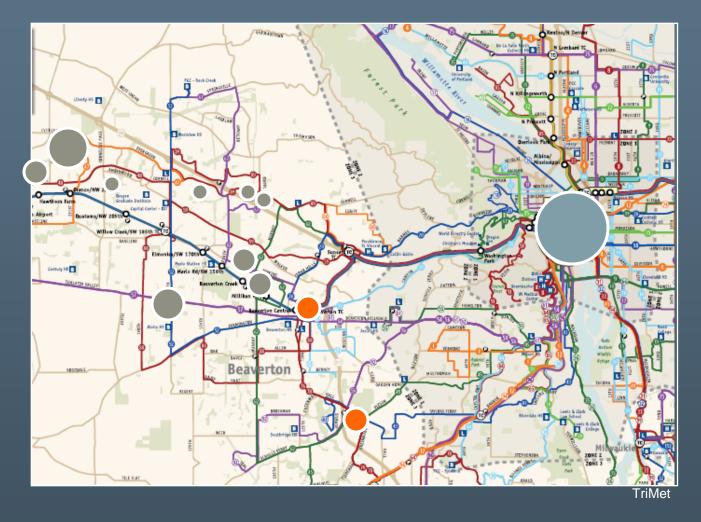


Looking Ahead to 2040



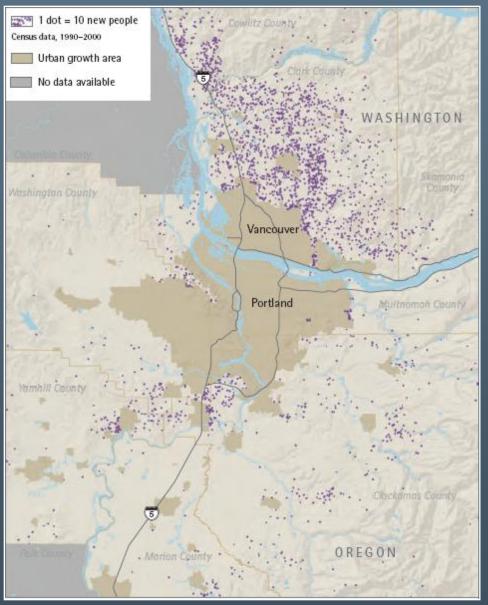
Metro's 2040 Growth Concept aims to foster efficient urban form and preserve rural land by focusing growth in regional centers. Land use plans and the new Regional Transportation Plan support these overarching goals.

Challenges to the Transit System



Most TriMet lines are radial, connecting the central city with regional centers. Few lines connect regional centers with each other, or with major employers, creating barriers to transit use in Washington County.

Challenges from Beyond the UGB



Though the Portland area's growth policies have been effective at restricting sprawl within the region, areas beyond Metro's jurisdiction, such as Newberg, OR, and Clark County, WA, continue to spread out into rural land. Residents of these areas commute to the Portland area to work and play, participating in its economy and creating congestion while shirking policies that boost the economy and combat congestion.

Measure 37

In 2004, Oregon voters passed Measure 37, which entitles property owners to compensation land use regulations restrict the use of the property and reduce value. The government responsible for the regulation may also choose to "remove, modify or not apply" the regulation.

Claims filed so far:

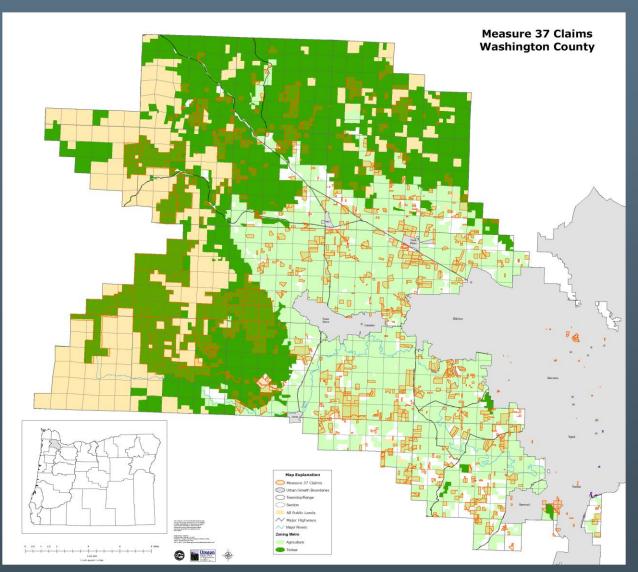
- •7,562 claims
- •750,000 acres of land
- •\$20 billion in compensation

In almost every case, governments have chosen to waive regulations rather than compensate claimants.



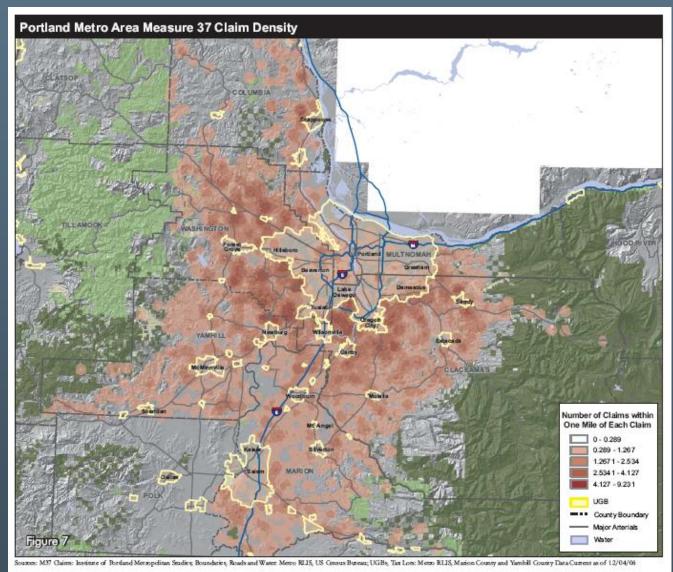
1000 Friends of Oregon

Washington County



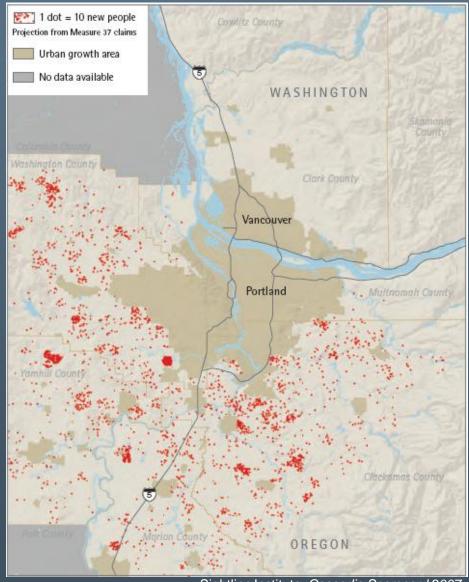
In Washington County, as in the rest of the Portland area, most cluster around the UGB. Claims are concentrated on valuable resource lands; either or farmland. Most claims seek to subdivide land and create more housing.

Measure 37



In the Portland area,
Measure 37 claims
cluster around the
UGB. Claims are
concentrated on
valuable resource
lands; either forest or
farmland. Most claims
seek to subdivide land
and create more
housing.

Measure 37



Most Measure 37 claims seek to subdivide land and create more housing. In the Portland area, most claims are outside the UGB, where they will fuel the creation of new exurbs. These claims are concentrated on forests and farmlands.

Sightline Institute, Cascadia Scorecard 2007



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