Highways to Boulevards: Network-Based Solutions







How Portland,

Oregon, removed a

street network to

handle traffic,

of the region

riverfront freeway in

1974 and relied on its

grow transportation

choices, restore street

vitality and become

the economic center

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Portland's Harbor Drive

In the history of American freeway teardowns, Portland's Harbor Drive holds an auspicious position. It stands as the first major highway to be intentionally removed. In 1950, Harbor Drive, running adjacent to downtown along the western bank of the Willamette River, became Portland's first limited-access highway, six lanes carrying US Route 99W. As more freeways were built in the city during the 1960s--including Interstate 5 on the eastern bank of the Willamette and Interstate 405, a western bypass around downtown--Harbor Drive became less important as a long-haul freeway route. In the early 1970's, the average daily traffic using Harbor Drive was about 24,000 vehicles, including approximately 2,500 heavy trucks accessing nearby industrial

Highway Removal

In the late 1960s, newly elected Governor Tom McCall pledged his support for the beautification of the west bank of the Willamette River-harkening back to the City Beautiful plans at the turn of the century that envisioned parks and greenways along the river, Alternatives were proposed for the area, initially various tunnel options were discussed but proved too expensive Citizens, led by the Riverfront for Citizens coalition, called for a park and boulevard option. McCall ultimately backed the boulevard option and in 1974, Harbor Drive was closed for

The Boulevard

The direct footprint of Harbor Drive was converted into parkland and more park acreage was created by demolishing industrial and commercial buildings that bordered the freeway along Front Avenue, Front Avenue was widened into a landscaped boulevard to handle the local traffic and was later renamed as Naito Parkway, In 1978, construction of the 37-acre Waterfront Park was completed and, in1984, was named after Governor Tom McCall. The city extended Waterfront Park to the south in 1999, doubling the size of the public open space. Due to the success of the park, the city is currently redesigning sections of Nation Parkway to make the boulevard more pedestrian-friendly.

Economic Development

The success of Portland's downtown is widely known-and the demolition of Harbor Drive should take a good portion of credit. Key developments-like Yards at Union Station to the north and RiverPlace to the south-led to a resurgence in downtown housing. The city continues to develop waterfront plans to build on the river as an asset, The Portland Development Commission's Downtown Waterfront Development Strategies Project aims to increase mixed-use development along the length of the downtown and three blocks from the waters' edge. This is in recognition of the dramatic increases in property value that have resulted from the replacement of Harbor Drive with an at-grade boulevard.



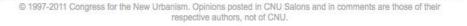
A Postcard of the Harbor Drive. Source: cafeunknown.blogs



The same area as pictured above, as Tom McCall Waterfront Park, circa 2005. Source: PDXplan.org



Source: flickr.com Grea e





Asphalt strip to disappear from Portland riverfront











"Harbor Drive was opened in 1943 to become 99-W in Portland. Gradually, it had been supplanted by Interstate-5, but it has acted as a barrier to pedestrians wishing to walk along the riverbank.

That will be easier now.

Traffic will be re-routed onto SW Front Avenue, but motorists are encouraged to seek alternatives to this street a half-block away."

The Oregonian, Thursday May 23, 1974

Asphalt strip to disappear

Oregonian image

Editorials

The Oregonian

Letters

Founded Dec. 4, 1850. Exhabitished as a daily Feb. 4, 1861. Sunday Oreganian established Dec. 4, 1881. Published daily and Sunday by the Oreganian Publishing Co., Oreganian Bidg., 1320 SW Broadway, Partiand, Oregan 97201.

WEL J. FREY, Chairman

ROBERT C. NOTSON,

HAROLD V. MANZER, Advertising Director GEORGE J. VANELLI, Circulation Director

MAY 24, 1974

"The people have recaptured the river in downtown Portland after more than a century.

Let's never let it go.

The closure of Harbor
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But, in the long view, it is the
thing to do..."

The Oregonian, Thursday May 23, 1974



Harbor Drive (right) will be closed traffic, Friday to northbound traffic t Arense (left). Eventual plans call

Blacktop to green

The closure of Harbor Drive on the west bank of the Willamette River in downtown Portland will cause considerable traffic dislocation and probably, at least for a time, traffic confusion and inconvenience. But, in the long view, it is the thing to do; it encourages the vision of a green-belted downtown waterfront freely accessible to the people, a major asset of older cities in Europe and the eastern states.

The area involved was the life stem of 19th century Portland. Industrial and commercial buildings lined the river's bank there when water was the principal means of long-range traffic. The age of the motor car changed that. When Harbor Drive was opened to traffic in 1943, it was looked upon correctly as an important link in interstate highway 99W and a relief for crowding in narrow downtown streets.

It has served that purpose well, but this is a new era in which greenery and open space are valued over the exhaust-filled lanes of macadam and concrete. Harbor Drive and its immediate environs will bow out next month as the site of the Rose Festival Fun Center. Thereafter, it will give way to demolition to provide a waterfront worthy of Oregon's pride.

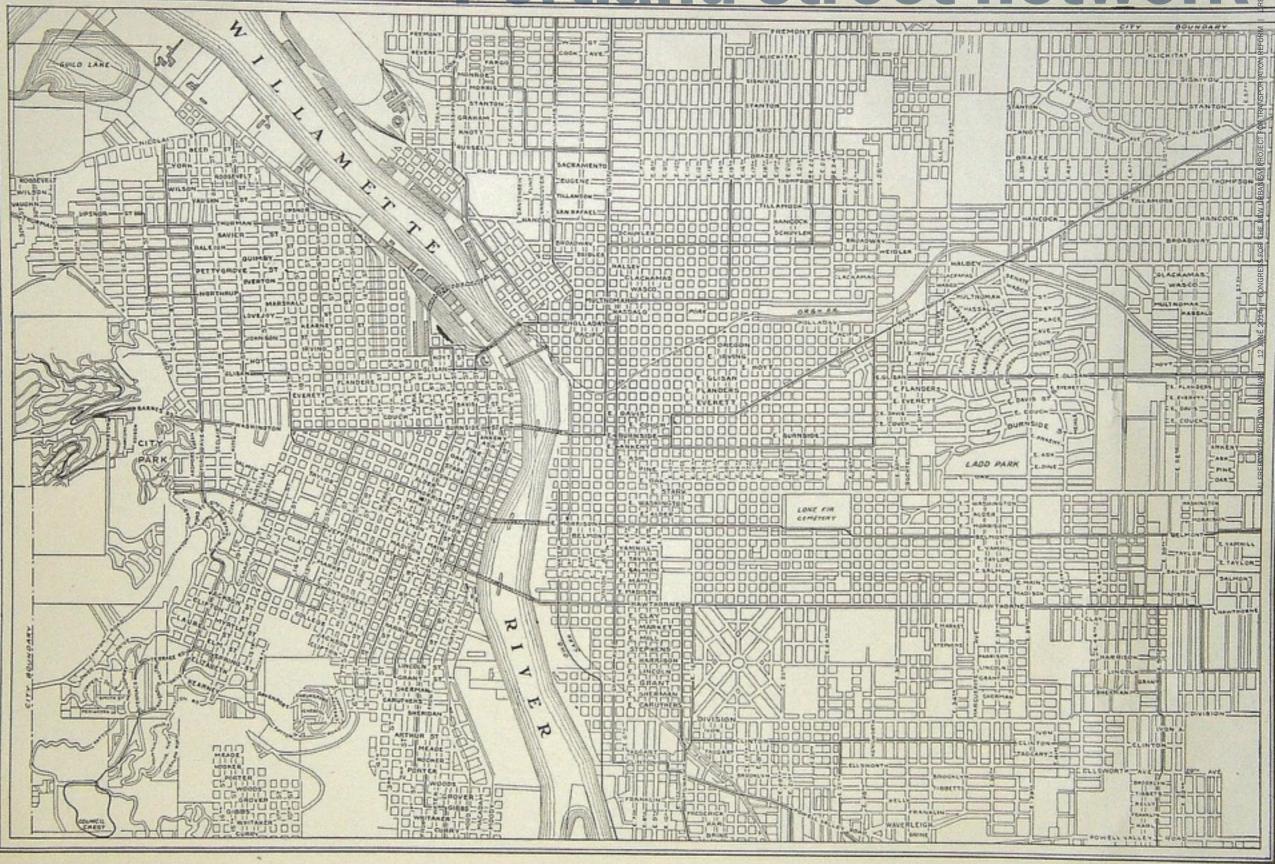
A great deal of study has been done and is continuing on the character of the waterfront project. There seems to be general agreement on the following points, to be refined by architects and engineers: There must be the greatest possible access to the area by pedestrians, not only from Front Avenue, but from the core of the city. There must be attractions on the waterfront inviting to pedestrians. These facilities and the design of the waterfront park must be such that it will not be a haunt for characters who merely want to sleep off a binge on the greensward. The park should be extended, as conditions permit, both north and south.

All of the metropolitan area should have optimism about the prospects on the harbor wall. The people have recaptured the river in downtown Portland after more than a century. Let's never let it go.

the long view

Oregonian image

Portland street network







Congress for the New Urbanism Project for Transportation Reform CNU Network Principles at work





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INITIATIVES

RESOURCES

CNU's Project for Transportation Reform





CNU'S **PROJECT FOR** TRANSPORTATION REFORM

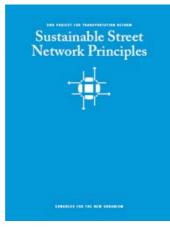
The Right Fix for Our Streets. The Right Fix for Our Communities.

CNU's Project for Transportation Reform stands for the revitalization of our communities' streets. The initiatives within the project call for multimodal street designs that place the pedestrian back into the public realm, encourage greater safety and public health, and advocate for the fundamentals of street networks that enrich our sense of place.

Designing Walkable Urban Thoroughfares



Transportation Networks



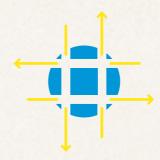
Emergency Response and Street Design





RINCIPLE 1

CREATE A STREET NETWORK THAT SUPPORTS COMMUNITIES AND PLACES



Street networks fulfill a basic need in human society. They connect people to each other and to destinations. Street networks are not just about transportation and infrastructure, but also about the movement of people, goods, ideas, and wealth. They foster economic activity and provide public space for human interaction. Street networks form an effective, flexible framework for building a community, in every sense of the word.



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MAXIMIZE TRANSPORTATION CHOICE



All people should be able to travel within their community in a safe, dignified and efficient manner. A sustainable street network makes that possible and ensures a choice of transportation modes and routes. People can walk, bicycle, take transit, or use a vehicle. Each mode is integrated, as appropriate, within each street. A sustainable street network gets you to your destination, and back.

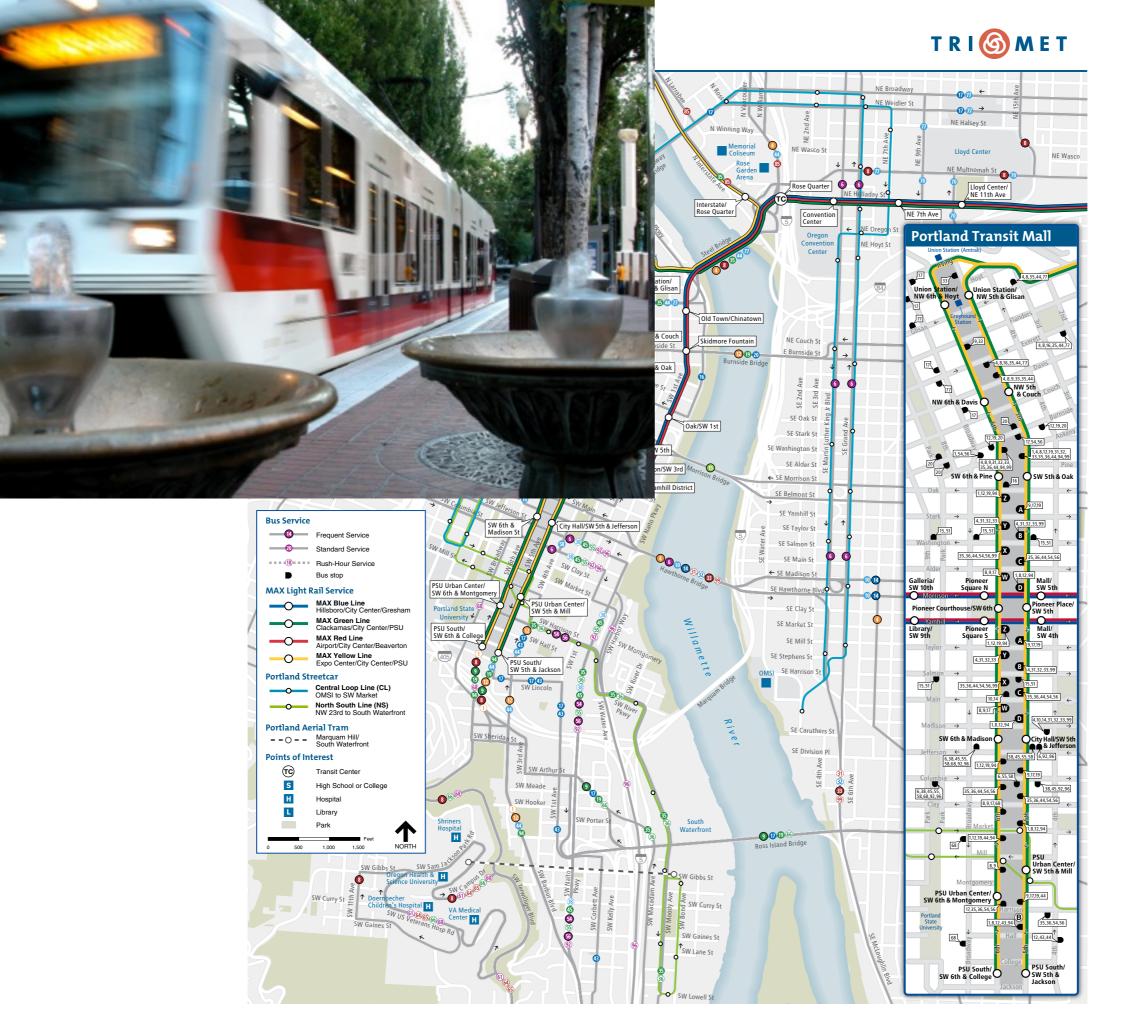




"All people should be able to travel within their community in a safe, dignified and efficient manner."

"Each mode is integrated, as appropriate, within each street."

"A sustainable street network gets you to your destination, and back." transpowers NE Halsey St NE Wasco NW Marchall St Rose Quarter 6 NW Johnson St **Portland Transit Mall** NW Hoyt St Union Station/ NW 6th & Hoyt 00000 NW Davis St Old Town/Chinatown NW 6th & Davis NW 5th & Couch NE Couch St JELD-WEN SW ALL Field E Burnside St SW 6th & Pine SW Park Pl SW Main St SF Oak St SE Stark St Goose Hollow/ SW Jefferson St SE Yamhill St **Bus Service** SE Taylor St Frequent Service OO OO SE Main St **Portland State** SE Clay St MAX Green Line Clackamas/City Center/PSU SE Market St MAX Red Line SE Mill S **Portland Streetcar** Central Loop Line (CL) OMSI to SW Market **③** North South Line (NS) NW 23rd to South Water **6** = = O = = Marquam Hill/ South Waterfron **Points of Interest** τc S High School or College **-8**6 Q **000**6 SW Gaines St 12,43,44







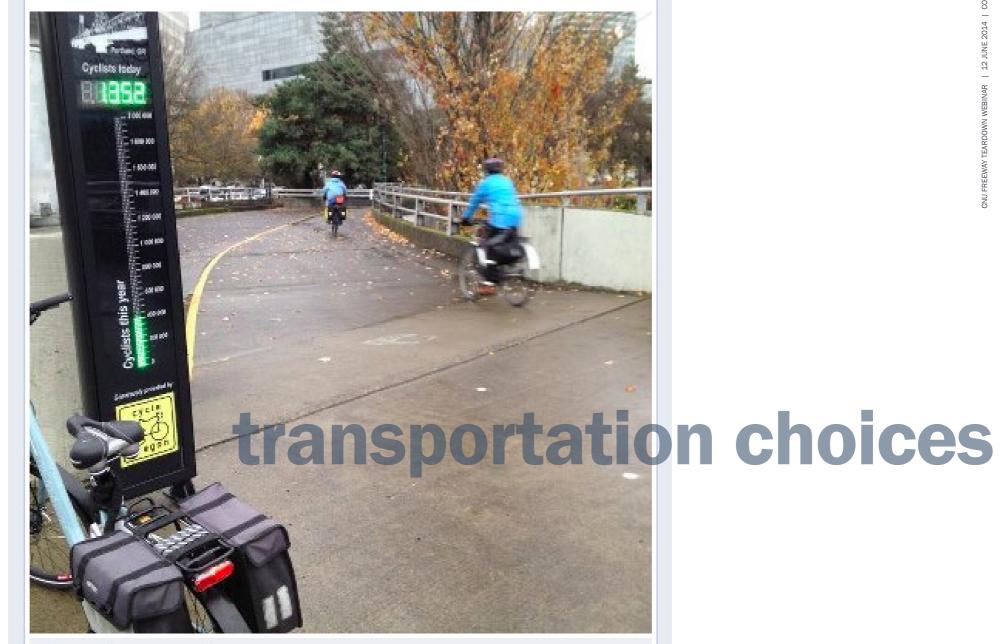




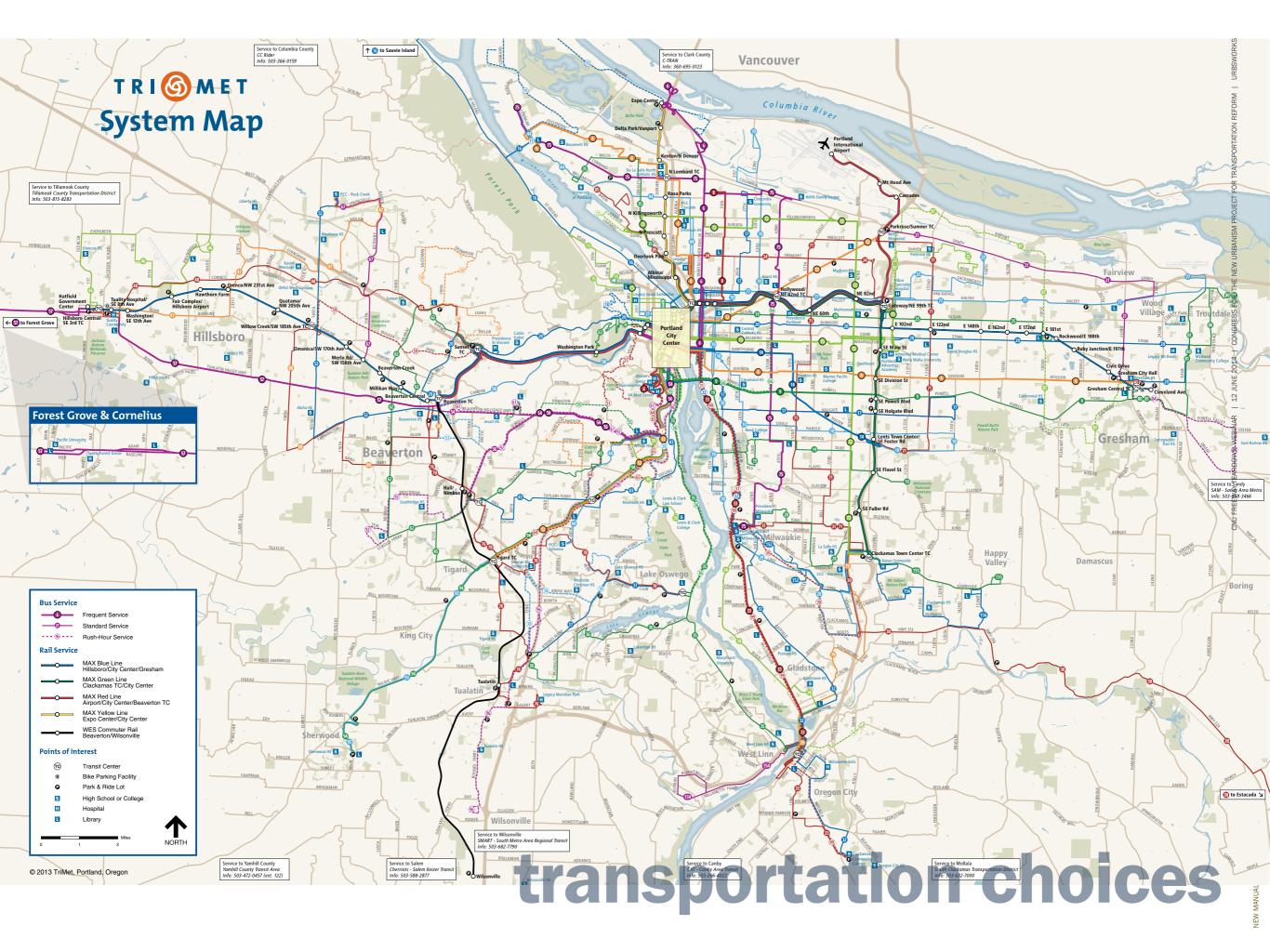
build it and they will come



20 MPH winds? Periods of heavy rain highlighted by flying leaves? Bah! Nothing. Went through the traffic signal at Madison and Grand as part of a group of 18 bicycle commuters.



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PRINCIPLE 2

CREATE A STREET NETWORK THAT ATTRACTS AND SUSTAINS ECONOMIC ACTIVITY



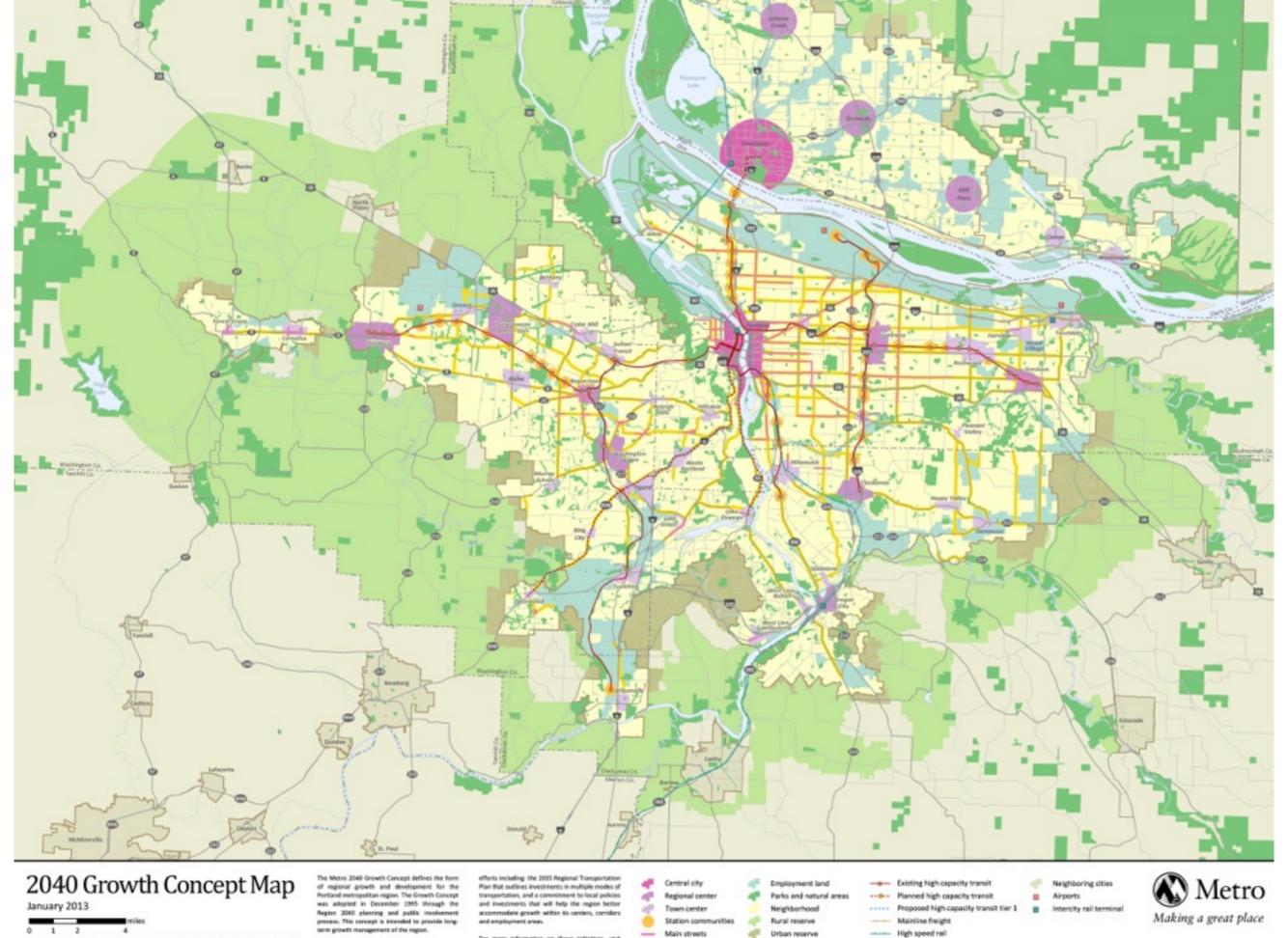
Street networks provide a template for a rich combination of housing, shopping, and transportation choices. They support a robust mix of culture and commerce. Sustainable street networks are magnets for business, light industry, jobs, and economic opportunities.



"Street networks provide a template for a rich combination of housing, shopping and transportation choices."

"They support a robust mix of culture and commerce."

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Region 2040 planning and public involvement process. This concept is intended to provide long-term growth management of the region.

The map highlights elements of parallel planning

For more information on these initiatives, visit http://www.oregonnetro.gov/2040



Corridors

Rural reserve

Urban reserve

---- High speed rail

Urban growth boundaries - · · · County boundaries

- Mainline freight

RESPECT THE EXISTING NATURAL AND BUILT ENVIRONMENT

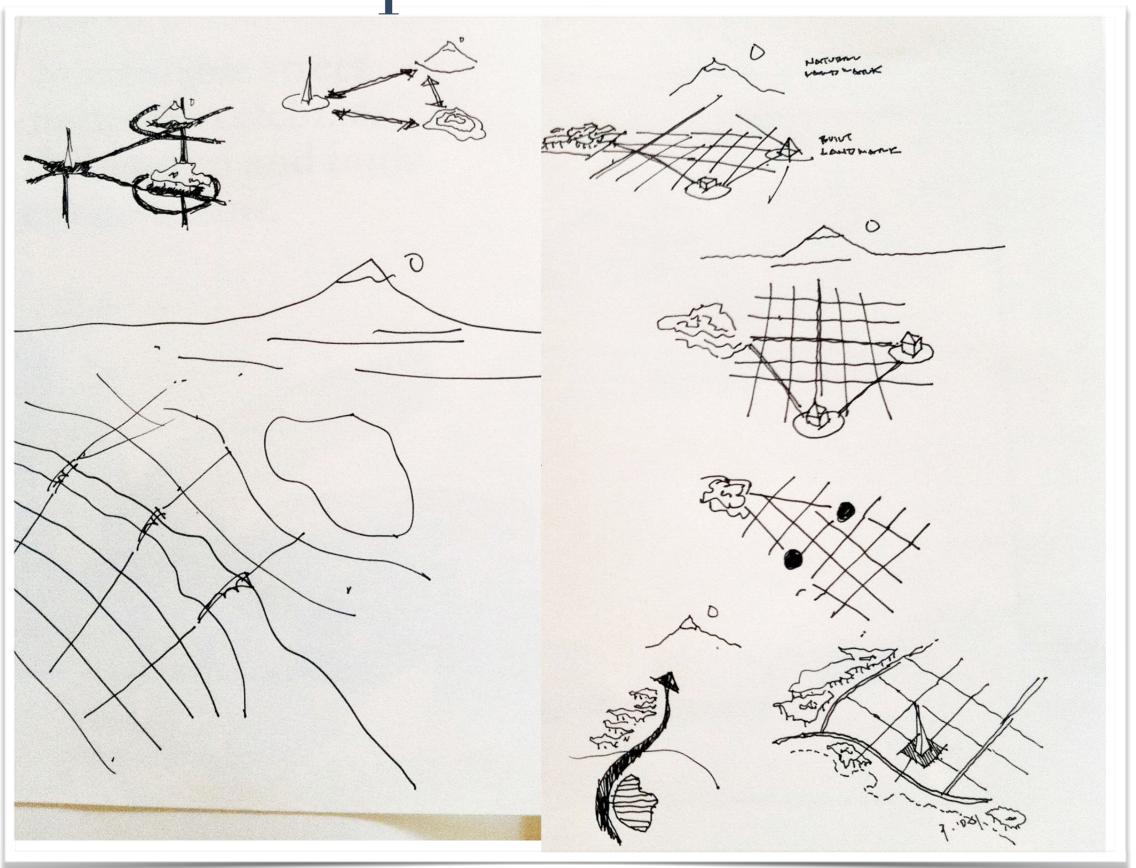


The scale and orientation of streets in the network celebrate the unique local and regional characteristics of the natural and built environment. These include architectural features, climate, geography, topography, and history.



"The scale and orientation of streets in the network celebrate the unique local and regional characteristics of the natural and built environment." RRINGIPLE 5
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AND BUILT ENVIRONMENT

The scale and orientation of streets in the network celebrate the unique local and regional characteristics of the natural and built environment. These include architectural features, climate, geography, topography, and history. streets link important destinations



PRINCIPLE 4

INTEGRATE THE STREET NETWORK WITH NATURAL SYSTEMS AT ALL SCALES



A sustainable street network respects, protects and enhances the natural features and ecological systems of its urban environment. The result? A balanced and symbiotic community. It integrates stormwater treatment into street design and incorporates stormwater flow and wildlife habitat zones into the street network. The sustainable street network responds to natural features, resources, and systems by adjusting street density and connectivity. The sustainable street network considers the broad spectrum of relationships to natural systems, including those that are site specific, regional, and global.



"A sustainable street network respects, protects, and enhances the natural features and ecological systems of its urban environment."

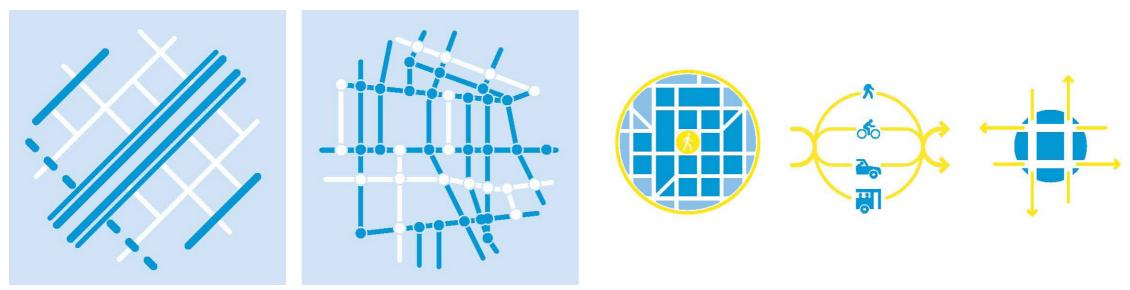
"It integrates stormwater treatment into street design and incorporates stormwater flow and wildlife habitat zones into the street network."

"...it considers the broad spectrum of relationships to natural systems, including those that are site specific, regional, and global."





seven principles and six key characteristics



"Street networks maximize connectivity."

"...create desirable places where multiple networks overlap."

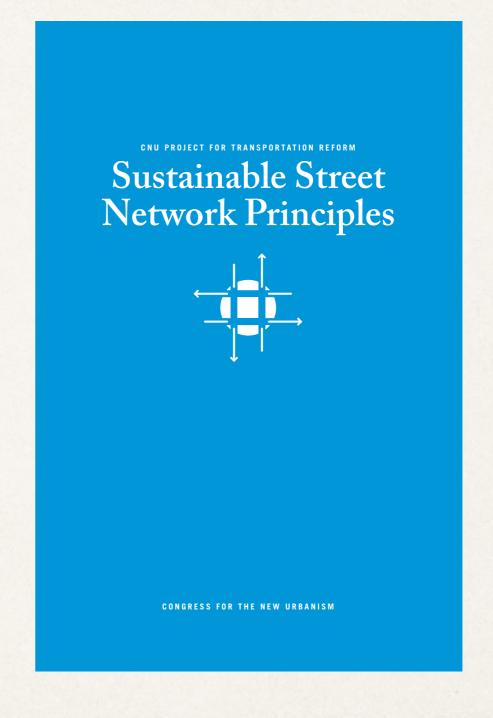
"...are inherently complex."

"...include major street that are designed to be the "Great Streets" of the community..."

"All streets are safe and walkable."

"...provide a wide range of street types, each with a role in the network."

How Portland, Oregon, removed a riverfront freeway in 1974 and relied on its street network to handle traffic, grow transportation choices, restore street vitality and become the economic center of the region



Thank you

additional information

- * Congress for the New Urbanism Project for Transportation Reform http://www.cnu.org/transportationreform
- MarcyMcInelly@gmail.com / urbsworks.com

