



EMERGING TECHNOLOGIES AND CITIES

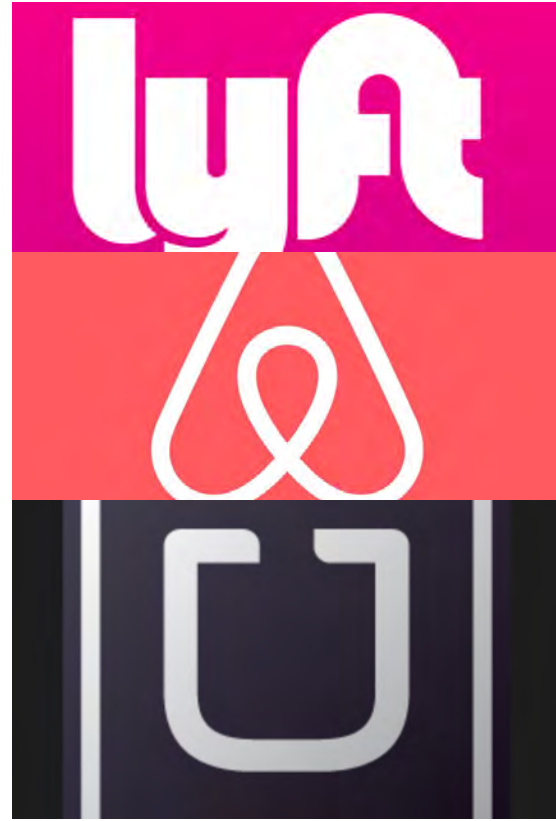
OCTOBER 25, 2019 | OAPA ANNUAL CONFERENCE | EUGENE, OR

Becky Steckler, AICP
Urbanism Next Center Program Director
beckys@uoregon.edu



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Urbanism Next
Center





4.2 Billion Trips in 2018



38 Million Rides
*(in first year)



Level 4 Automation
*(ordered 82,000 vehicles)



16 Billion E-Commerce Packages Delivered in 2018
118 Packages/Household... One every three days...

1ST ORDER IMPACTS



Parking



Street/curb
space
challenge



Congestion
VMT



Delivery



Walk
Bike
Transit



Trends in retail

**CHANGE IS HAPPENING
NOW.**

SPEAKERS



Becky Steckler, AICP
Urbanism Next Program Director
University of Oregon



Katherine Kelly, AICP
Planning & Implementation
Manager:
Comprehensive Planning
City of Gresham



Chris Henry, PE
Transportation Planning Engineer
City of Eugene

URBANISM NEXT

- Navigating New Mobility Final Report (October 2019)
- Emerging Technologies and Cities: Assessing the Impact of New Mobility on Cities Final Report (October 2019)



NEW MOBILITY POLICY TOPICS

1. Safety
2. Social equity
3. Active transportation
4. Congestion and vehicle miles traveled
5. Sustainability and environmental impacts
6. Design and management of the right-of-way
7. Land use and metropolitan footprint
8. Informed decision making
9. Managed innovation
10. Fiscal impacts and new mobility revenue

SCYP CLASSES

- Fall 2018: Budgeting Class (Lewis)
- Fall 2018: Industrial Ecology/Eugene (Skov)
- Winter 2019: Growth Management (Lewis)
- Winter 2019: Transportation (Brown)
- Winter/Spring 2019: Public Administration Capstone Class (Clark)
- Spring 2019: Introduction to AV Policy (Clark)
- Spring 2019: Advanced Design Studio/Gresham (Ribe)
- Spring 2019: Land Use Policy/Eugene (Yang)

PUTTING IT ALL TOGETHER

Bias for known
transportation
modes



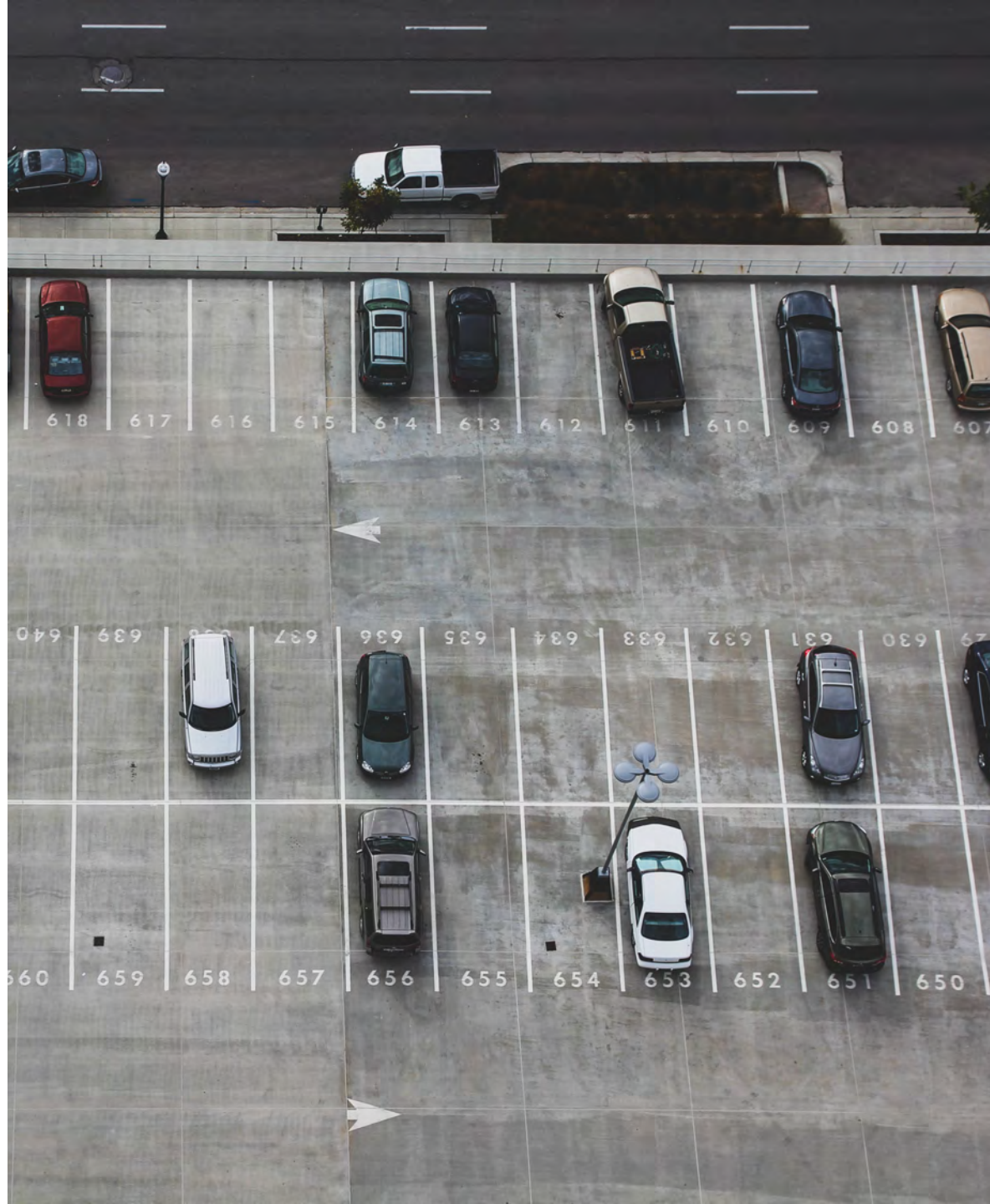
PUTTING IT ALL TOGETHER

Who are new
mobility services
designed for?



PUTTING IT ALL TOGETHER

Prepare for land use changes related to parking...



PUTTING IT ALL TOGETHER

Prepare for land
use changes
related to
parking...
delivery...



PUTTING IT ALL TOGETHER

Prepare for land use changes related to parking... delivery... lockers...



PUTTING IT ALL TOGETHER

Prepare for land
use changes
related to
parking...
delivery...
lockers...
and warehousing



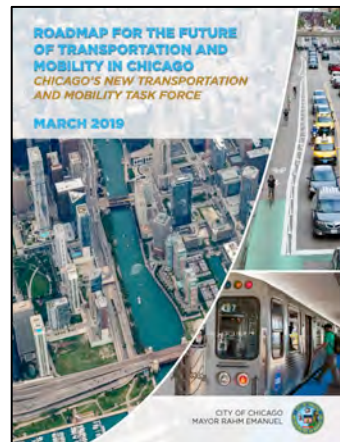
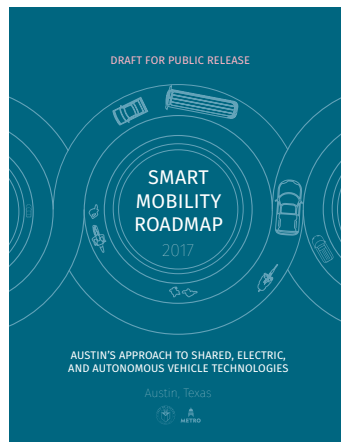
PUTTING IT ALL TOGETHER

New demands for
space



NEW MOBILITY STRATEGY

1. Start with community values and goals
2. Coordinate with regional partners
3. Develop a data privacy and management plan
4. Track research and other efforts
5. Inform decision-makers and public about impacts



**POLICY
RECOMMENDATIONS**

SAFETY



POLICY RECOMMENDATIONS

SOCIAL EQUITY

Goal #1 Increase Access to Mobility

1. Affordability
2. Accessibility
3. Efficiency
4. Reliability
5. Safety

Goal #2 Reduce Air Pollution

6. Clean Air and Positive Health Benefits
7. Reduction in Greenhouse Gases
8. Reduction in Vehicle Miles Traveled

Goal #3 Enhance Economic Opportunity

9. Connectivity to Places of Employment, Education, Services, & Recreation
10. Fair Labor Practices
11. Transportation-Related Employment Opportunities
12. Inclusive Local Business & Economic Activity

POLICY RECOMMENDATIONS

ACTIVE TRANSPORTATION



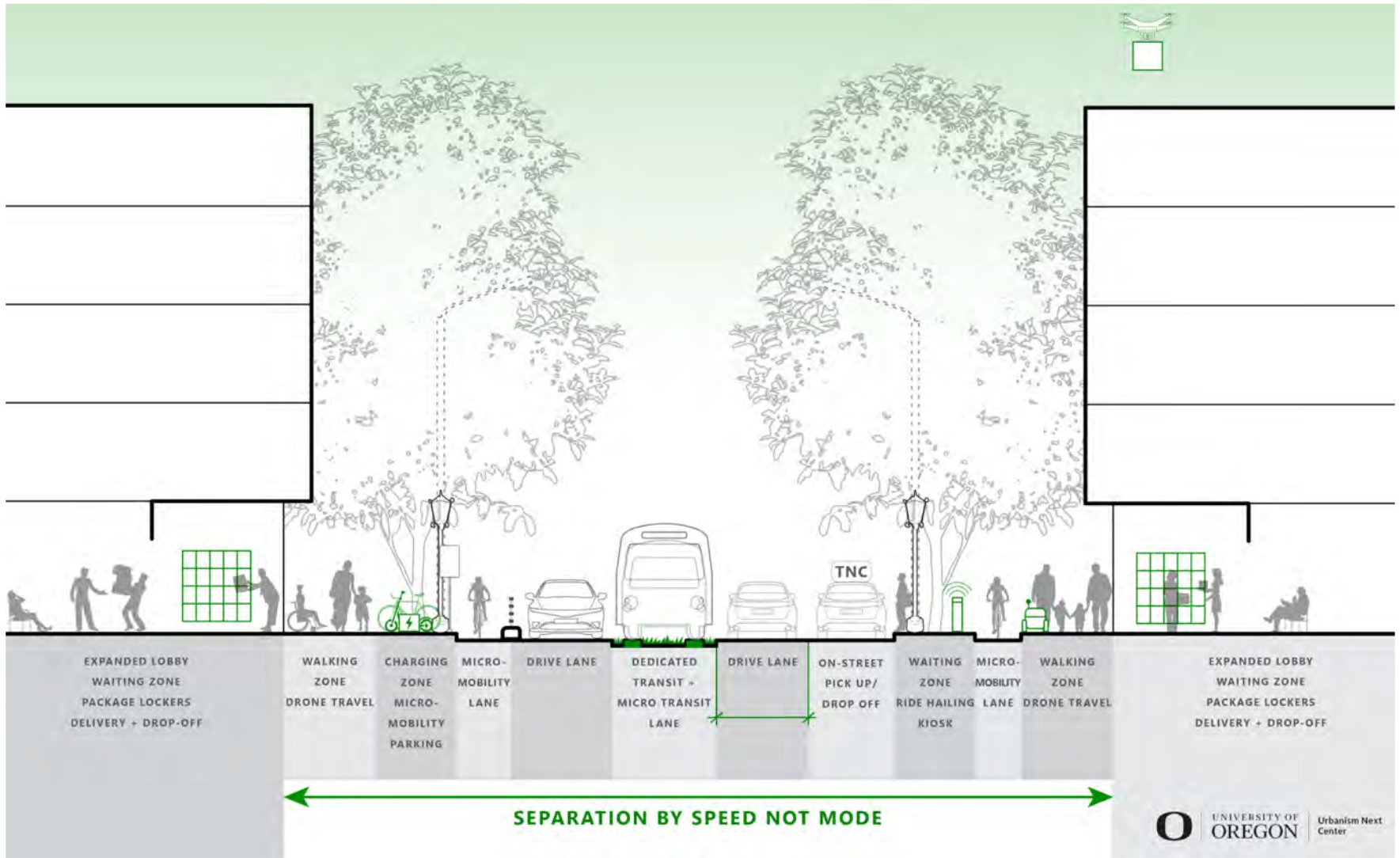
POLICY RECOMMENDATIONS

CONGESTION AND VMT



POLICY RECOMMENDATIONS

RIGHT-OF-WAY DESIGN AND MANAGEMENT



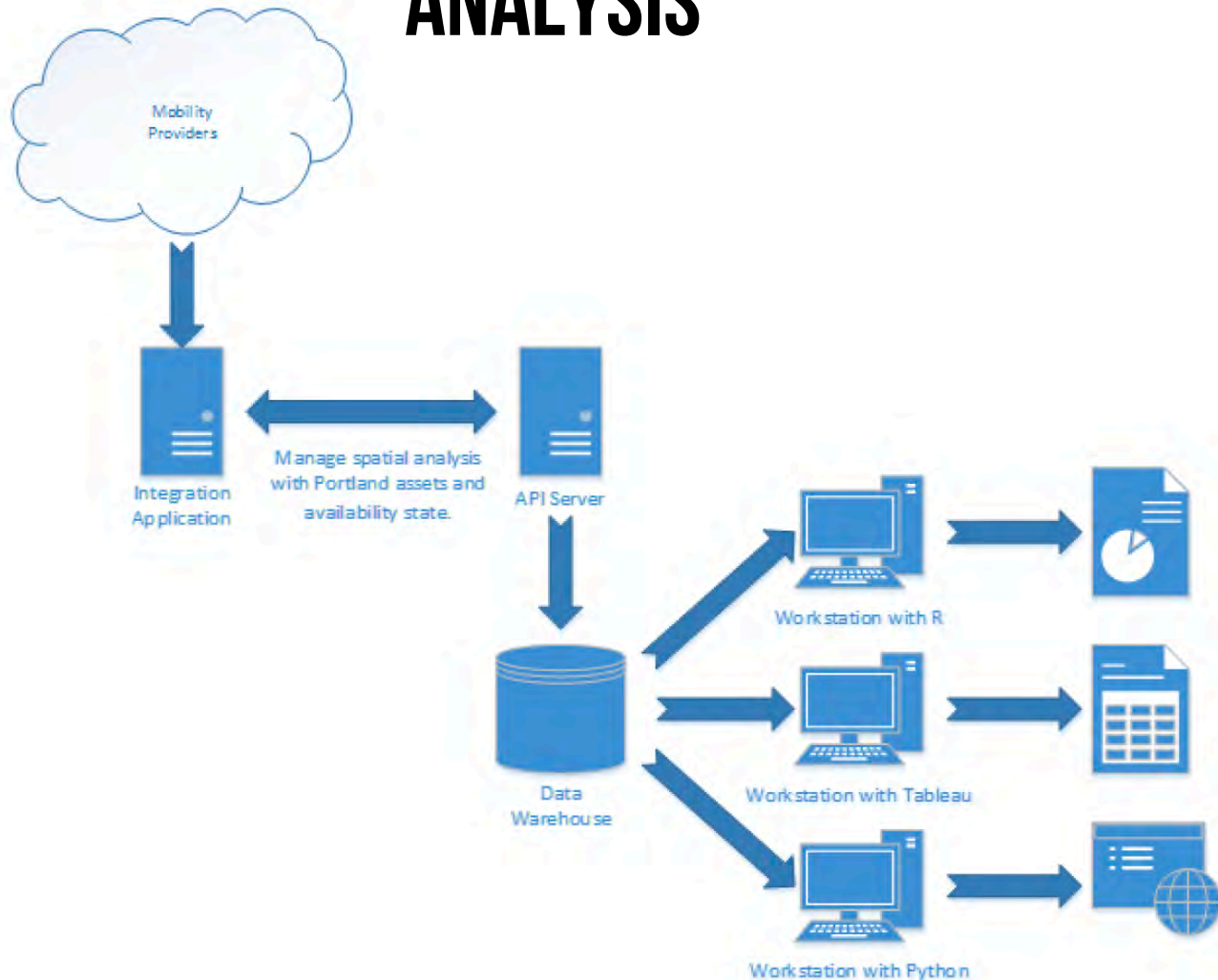
POLICY RECOMMENDATIONS

LAND USE AND METROPOLITAN FOOTPRINT



POLICY RECOMMENDATIONS

DATA REQUIREMENTS, PRIVACY, MANAGEMENT, AND ANALYSIS



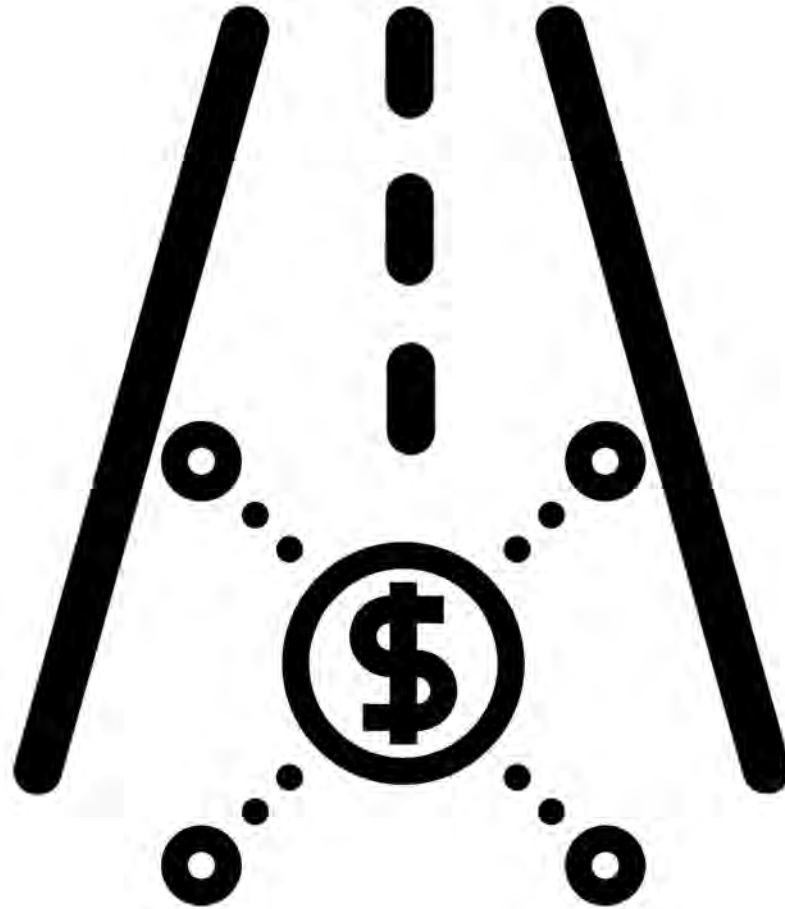
POLICY RECOMMENDATIONS

MANAGE INNOVATION



**POLICY
RECOMMENDATIONS**

**FISCAL IMPACTS AND
OPPORTUNITIES**





NATIONAL URBANISM NEXT CONFERENCE

MAY 13, 2020 PRE-CONFERENCE WORKSHOPS

MAY 14-15, 2020 CONFERENCE SESSIONS

Portland, OR

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NEW MOBILITY IN THE RIGHT-OF-WAY
MARCH 2019

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BULLITT FOUNDATION CNCA CITY OF PORTLAND, OR | CITY OF SEATTLE, WA | CITY OF VANCOUVER, BC

NAVIGATING NEW MOBILITY: POLICY APPROACHES FOR CITIES
JULY 2019 | FINAL DRAFT

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CITY OF GRESHAM, OR | CITY OF EUGENE, OR

NITC

POLICY BRIEF
AVS IN THE PACIFIC NORTHWEST:
REDUCING GREENHOUSE GAS EMISSIONS IN A TIME OF AUTOMATION
MARCH 2019

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AVS IN THE PACIFIC NORTHWEST: REDUCING GREENHOUSE GAS EMISSIONS IN A TIME OF AUTOMATION
BASELINE REPORT | AUGUST 2018

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URBANISM NEXT RESEARCH

RETHINKING THE STREET IN AN ERA OF DRIVERLESS CARS

Close observers get few moments to rethink streets and make decisions that will both serve the basic purposes of transportation and address urgent challenges that create change, bring stability, social cohesion and build a shared responsibility for general happiness throughout society. Such a societal moment is just as, or more, important as the arrival of a generally disruptive technology that can't make the city for good or for ill. City planners, policy makers and community members have a unique and irreplaceable opportunity to rethink their streets with applicants and creative consultation about how the critical public good may best serve the public for generations to come.

Marc Schoenberger, Ph.D.
William (Billy) Hogg, Ph.D., AICP, LEED AP
Adam Mitsch-Bac, Ph.D.
Elizabeth Shea, Ph.D., AICP
January 26, 2018

APRU

SCI
Sustainable Cities Initiative

www.urbanismnext.com

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URBANISM NEXT
RESIDENTIAL PREFERENCE
Alison Bowers and Nico Larco

URBANISM NEXT SCI
UNIVERSITY OF OREGON PORTLAND

For more information on Urbanism Next, please contact:
Nico Larco (nlarco@uoregon.edu)

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URBANISM NEXT
THE IMPACTS OF AUTONOMOUS VEHICLES AND E-COMMERCE
on Local Government Budgeting and Finance
AUGUST 2017

BENJAMIN Y. CLARK
SCHOOL OF FINANCIAL PUBLIC POLICY & MANAGEMENT
e | bclark@uoregon.edu

NICO LARCO
SCHOOL OF ARCHITECTURE & ENVIRONMENT
e | nlarco@uoregon.edu

ROBERTA F. MANN
SCHOOL OF LAW
e | rfmann@uoregon.edu

URBANISM NEXT SCI
UNIVERSITY OF OREGON PORTLAND

For more information on Urbanism Next, please contact:
Nico Larco (nlarco@uoregon.edu)

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URBANISM NEXT
WAREHOUSING
Galen Carlson and Nico Larco

URBANISM NEXT SCI
UNIVERSITY OF OREGON PORTLAND

For more information on Urbanism Next, please contact:
Nico Larco (nlarco@uoregon.edu)

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Emerging Tech and Cities

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Becky Steckler, AICP

Program Director
Urbanism Next Center