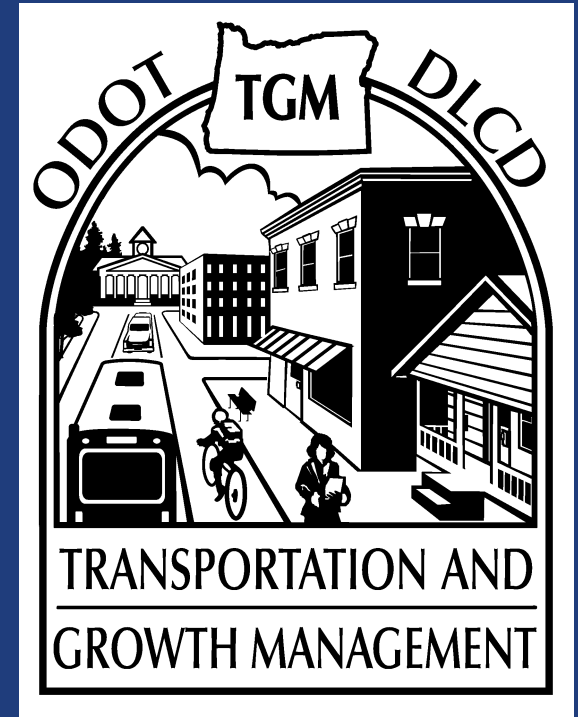


# Parking Reform Resources



**Evan Manvel and Laura Buhl**  
**Transportation and Growth Management Program**

# Today's Webinar

- **Why parking reform matters** (10 mins)
- **DLCD parking work and resources**  
(25 mins)
- **Experiences: Salem, Albany, Bend, Independence** (5 mins)
- **Questions/Discussion**

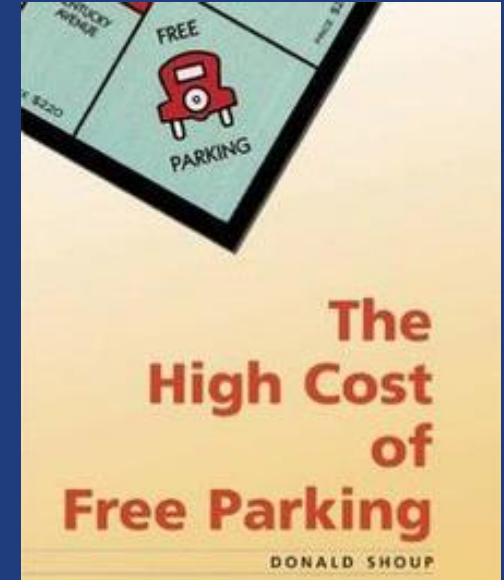
# Why Parking Reform Matters

# Old approach

Make sure each property has sufficient parking for peaks (avoids conflict; hides costs)

## *But now*

- Donald Shoup
- Climate disruption
- Housing cost problems
- People experiencing homelessness
- Changing demographics
- Physical inactivity epidemic



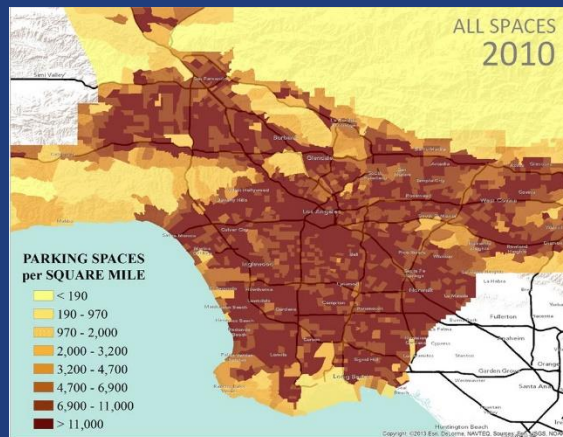
# Three Questions for Planners

1. How much land does parking use?
2. How much does parking cost to provide?
3. Do we have the right amount of parking?

# How Much Land is Used for Car Storage?

**Corvallis, OR**  
**11% for parking**  
**10% for roads**

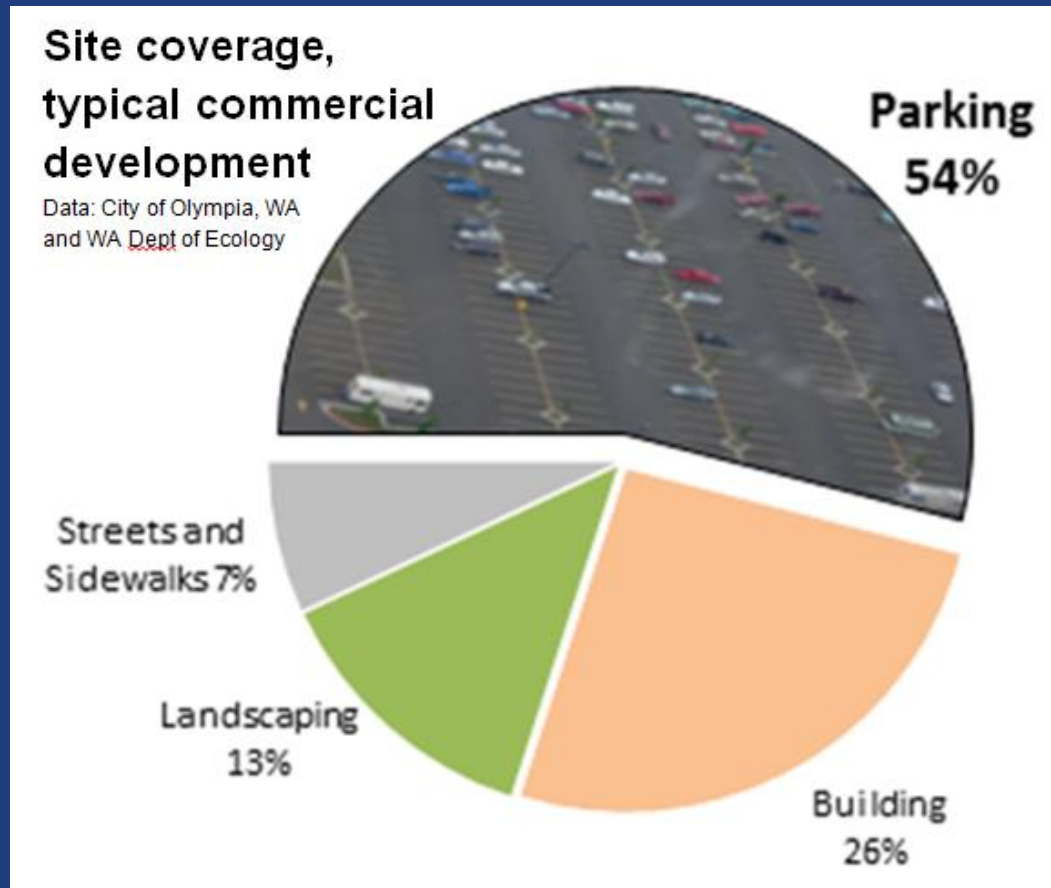
**Los Angeles, CA**  
**14% for parking**  
**10% for roads**



alleys	0.1%
buildings, OSU included	12.8%
building interiors	0.0%
buff	1.0%
decks	0.7%
driveways, gravel	0.2%
driveways, paved	3.1%
parking lot, gravel	0.9%
parking lot, paved	6.3%
path	1.4%
road, gravel	0.1%
roads, highway	0.9%
road, paved	8.7%
sidewalk	2.4%
Total Area Corvallis at 14.3 mi <sup>2</sup>	

# Olympia, WA

54% of land in commercial sites for parking





# Downtown Off-Street Parking in Corvallis



# Conclusion

**Parking uses a  
huge amount of land**

**How Much Does  
Parking Cost  
and What Does  
that Effect?**

# Building a Parking Space

**Eugene \$42,000/space parking garage** (no land, 2018)

**Corvallis \$62,000/space garage** (including land, debt)

**\$11,000/space surface** (including land)

**Surface off-street \$1,500 - \$6,000**

**Residential garage \$15,000 - \$30,000**

**Off-Street \$400/year to maintain** (MAPC study)



# Parking's Share of Housing Costs

**Litman (2019)**

**10-20% of Total Housing Cost**

**Gabbe and Pierce (2016)**

**17% of Rent**

**Studies focus on parking in larger cities,  
but similar data in others**

# Sample Parking Prices

## Market Price

(non-central storage place, Corvallis)

**Inside: \$2688/year (\$224/month)**

**Outside: \$1068/year (\$89/month)**

## City Price

**Residential permits: \$25/year (\$2/month)**  
**7 cents a day**

*\* La Grande RV outside storage \$80/mo*

# House Cars or House People?

Oakland, CA

mandate for one space/unit

costs per apartment increased 18%

30% fewer units built





**18<sup>TH</sup> & WILLAMETTE**

**INTEGRATED FOURPLEX + 1 BEDS**

4 UNITS \ 1 BUILDING \ 1 LOT

**Eugene**

	Code	Proposal
Max Units	2	4
Parking	1/unit	0.75/unit



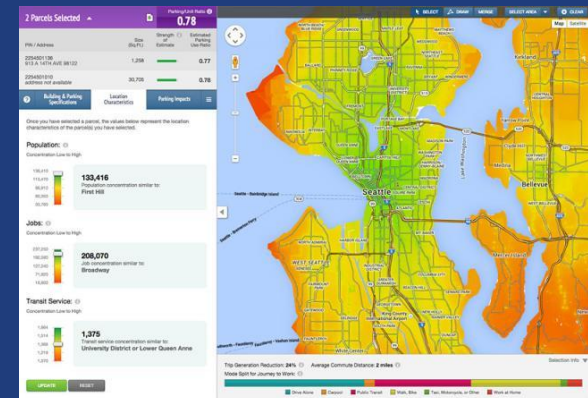
# Conclusion

**Parking is a  
significant expense  
and  
hurts housing choice  
(particularly multifamily)**

# How Much Built Parking is Unused?

# Unused Parking in Multifamily Developments

- Albany, OR: 30% avg. unused
- Hillsboro, OR: 25% avg. unused
- King County, WA: 40% avg. unused
- Bay Area, CA: 28% avg. unused



# Conclusion

**Lots of Built  
Parking is Wasted**

# Thus Far

Parking uses a lot of land

Parking is a significant expense

Many parking spots are under/unused

**There is significant room  
to more precisely meet demand  
and reduce excess costs**

# Parking Reform

# Cities Across U.S. are Reducing Costly Parking Mandates



# Most cities have a parking *management* problem, not a parking *supply* shortage



downtown Klamath Falls



**A parking shortage  
on one block does not  
mean we should  
mandate costly  
parking everywhere**

**It means we should  
better manage parking  
and improve walkability**



# Parking Management

1. Inventory parking supply
2. Check use levels
3. Devise management plan,  
including pricing and  
enforcement

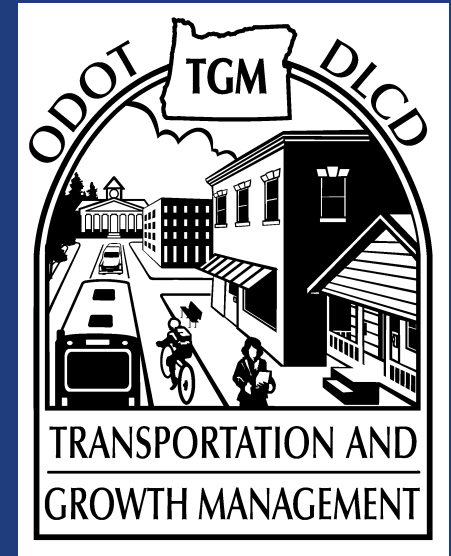
# **TGM Work**

**Publications (Old and New)  
Projects**

**Presentations**

**Code Assistance & Parking Codes**

**(TGM Grant Proposals due July 31!)**



# TGM Publications

[www.oregon.gov/LCD/TGM/Pages/Parking.aspx](http://www.oregon.gov/LCD/TGM/Pages/Parking.aspx)

## Management Parking Made Easy: A GUIDE TO TAMING THE DOWNTOWN PARKING BEAST



## PARKING MADE EASY

### A Guide to Managing Parking in Your Community

Oregon Transportation &  
Growth Management Program



## Downtown Parking Management

A Powerful Tool to Meet Community Goals

### The Costs of Mismanaged Parking

*Storing cars is an expensive challenge*

#### Lost Business

Customers want to get to businesses. If parking is poorly managed, and all the spots are taken, customers may shop elsewhere. But *too much* parking can also harm businesses, by degrading the walking environment in local business districts. If an area is dominated by parking lots, people will park only at the place they were planning on going and leave directly, instead of parking nearby, walking past other businesses, and lingering downtown.

Cities should aim to get supply just right – not too much, but enough. Some call

*If all the spots are taken,  
customers may choose  
to shop elsewhere.*

*If there's too much  
parking, a place  
becomes uninviting.*

## 8

### Quick Ways Cities Can Improve Parking Codes

Is your community concerned about housing costs, the cost of doing business, walkability, climate pollution, historic preservation or age-friendly development? Have you seen wasted land, turned away restaurant proposals in downtowns, or wished housing was cheaper to build?

There's something easy you can do – improve your parking code. Parking requirements affect all of these issues. While a thorough updating of parking codes is in order for most cities, these improvements can be made quickly.

Eight things cities can do today:

1. Allow required parking to be off-site, within walking distance

## A Strategic Guide to Implementing Parking Reform



Reducing costly parking mandates can be a challenging task for planners and decision-makers.

Too often, the politically easiest thing to do is to continue the pattern of the past: force new development to provide excessive parking, avoiding potential conflict with those accustomed to abundant, “free” (subsidized) parking. This conveniently hides the large costs of parking, but makes it harder to walk and easier to drive, artificially driving up the demand for parking and the costs of housing, doing business, and getting around.

How to break the cycle? Here are some recommendations on how cities might go about reforming the extremely costly, counter-productive market distortion of mandated car parking.

# Parking Made Easy (82 pages, 2013)

[www.oregon.gov/LCD/TGM/Pages/Parking.aspx](http://www.oregon.gov/LCD/TGM/Pages/Parking.aspx)



- Consensus-building around parking policies
- Unbundled parking costs
- Local parking studies
- Parking management plans
- Parking standards: minimums and maximums
- Parking signs and availability information
- Shared parking
- Parking turnover's effect on business sales
- Parking fees and time limits
- Parking facility location, landscaping, and design
- Parking availability and the 85% Rule
- Parking benefit districts and parking cash-outs



# 8

## Quick Ways Cities Can Improve Parking Codes

Is your community concerned about housing costs, the cost of doing business, walkability, climate pollution, historic preservation or age-friendly development? Have you seen wasted land, turned away restaurant proposals in downtowns, or wished housing was cheaper to build?

There's something easy you can do – improve your parking code. Parking requirements affect all of these issues. While a thorough updating of parking codes is in order for most cities, these improvements can be made quickly.

Eight things cities can do today:

### 1. Allow required parking to be off-site, within walking distance

There's no reason for most required parking to be located on the same site as the use. Yet in too many local ordinances, builders are required to provide parking on the *exact site* of the development, instead of just providing residents and visitors who drive with space to park.



This can mean central buildings in downtowns never get redeveloped, as they

Cities that do some version of this:

Albany (for some uses such as theaters, up to 1000 feet), Ashland, Baker City (500 feet), Cascade Locks (required parking may be located anywhere downtown), Corvallis (in the downtown zone, 750 feet), Klamath Falls (500 feet for some uses), Lafayette, Lake Oswego, Roseburg, Salem (for employees and residents downtown, up to 2000 feet), Stayton (500 feet), TGM Model Code.

Sample code language:

Vehicle parking spaces required by this Chapter may be located on another parcel of land within *[one-quarter mile/2000 feet/one-half mile]* of the use it serves. The distance from the parking area to the use shall be measured from the nearest parking space to a building entrance, following a sidewalk or other pedestrian route.

# Go Beyond the Site

**Allow parking to be off-site,  
within walking distance**

*Let parking be provided within 2000 feet;  
lots of cities do this for downtowns*

**Count curbside frontage  
to count toward mandates**

*Many cities do a limited version of this downtown.  
Bonus: helps reduce curb cuts, improve walkability*

**Shared parking for uses with different peaks**

*Cities ask for proof of non-conflict; written instrument*

# Help Developments You Want

**Waive/reduce mandates for  
low-car housing types**

*5-50% reductions for senior housing, affordable housing, transit-oriented, mixed-use, bike-heavy*

**Waive/reduce mandates for  
renovation, small business**

*Promote reuse of historic buildings, long-vacant*



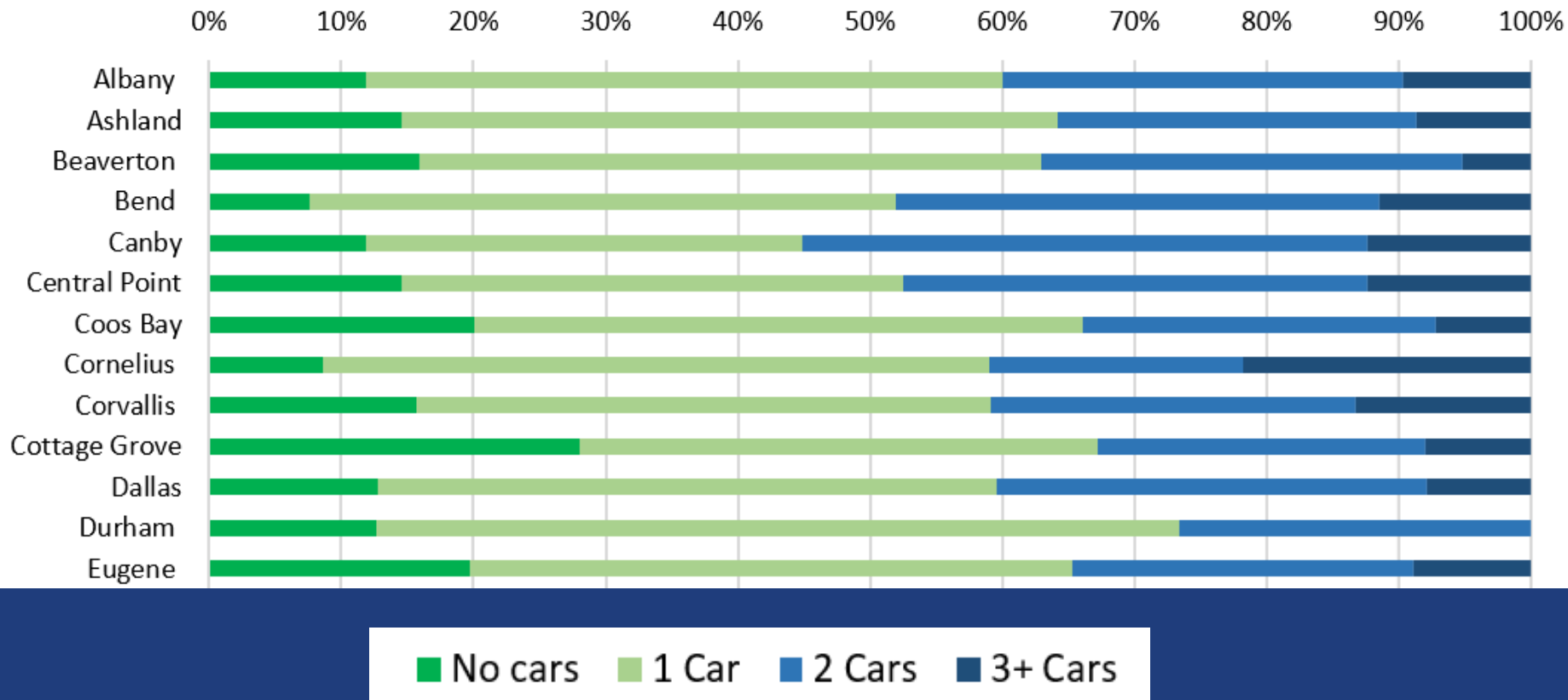
# **Set Parking Mandates No Higher than 1 space/unit (0.5/u for studios and one bedroom apartments)**

**Several cities are close to this in downtowns or allow variances based on onerous parking studies**

**Portland and Salem have no parking mandates downtown and along frequent transit corridors**

# Car Ownership in Small Cities, Rural Areas is Not Too Different

Vehicle Ownership in Renter Households, by City



# **Parking is Usually Bundled and Not Paid for Separately**

**96-99% of parking is bundled, meaning:  
higher rents and home prices,  
lower paychecks, higher prices,  
non-drivers subsidize drivers**

**The economy picks up the tab for  
free parking - an enormous  
inducement to drive**

# **Unbundling Parking**

**Stop requiring people to pay for other people's parking (lease it separately)**

**Unbundled Multifamily Required In**

**Santa Monica, Berkeley, Seattle,  
Oakland, San Francisco, San Diego**

**Unbundled Commercial in Santa Monica**

# **Fee-In-Lieu Program**

**Several cities have such a program  
in codes; often not used**

# A Strategic Guide to Implementing Parking Reform



Reducing costly parking mandates can be a challenging task for planners and decision-makers.

Too often, the easiest thing to do is to continue the pattern of the past: require new development to provide lots of parking, avoiding potential complaints from people accustomed to abundant, “free” (subsidized) parking.

This hides the large costs of parking, but makes it harder to walk and easier to drive, artificially driving up the demand for parking and the costs of housing, doing business, and getting around.

How to break the cycle? Here are some recommendations on how cities might go about reforming the costly, counter-productive market distortion of mandated car parking.

## Understanding the Fears

The average person worried about parking reform usually recalls a time about when they failed to find free, available parking exactly where and when they wanted it. That experience leads to a belief: mandating more parking will make travel easier and more pleasant, at no cost to themselves.

Embedded in this story are important assumptions. First, the assumption is parking is a public good, where the government can and should help people store their vehicle wherever they go at little or no cost. Second, someone else will pay for the costs of providing parking (people often ascribe this to a “developer” who makes large profits). Third, walking a short distance from parking to a destination is a problem.

This narrative isn’t easy to break down. The rest of this piece suggests some ways around it.

## 1. Provide Data – and Images

Cities generally try to meet parking demand. Here’s the good news: when communities take the time to collect data, they nearly always find there is sufficient *supply* of car parking within a block or two of each location, it just needs to be better *managed* through signage, time limits, or pricing. (Parking surveys can be a small effort of just a few hours; larger efforts are better, or you can hire a professional).

Walking, on-the-ground studies of parking supply and use is one of the best ways to get over the anecdotal



*Just some of the land in downtown Klamath Falls devoted to parking*

# Parking Reform is a *Psychological* Problem

## MARKETING SCIENCE

Vol. 26, No. 6, November–December 2007, pp. 742–757  
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## Zero as a Special Price: The True Value of Free Products

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# People Want Parking Unicorns

200 square feet of space  
precisely at the place they want  
exactly when they want  
for no cost





# Parking Management

Using parking management,  
people can have a space  
*nearly where and when* they need it.

For larger cities,  
*nearly* at the price they want it.

**The Public Street in Front  
of Your House is Not Your  
Private Parking Space  
(\*unless so designated)**

**Walking a block or two  
is okay  
(even pleasant)**

# Use Data – and Images

*Ask skeptics to help collect data*



*Just some of the land in downtown Klamath Falls devoted to parking*

a study that  
for each hour

**Figure 5. Parking At or Near Capacity by Time of Day and Street Segment**

Street	Location	9AM	10AM	11AM	12AM	1PM	2PM	3PM	4PM	5PM
Second	Vine to Ash	◆	◆	◆						
Second	Ash to Sherman			◆						
Second	Sherman to Grant							◆		◆
Second	Grant to Maple				◆	◆	◆	◆		
Second	Maple to Oak					◆				
Second	Oak to A				◆	◆				
Main	Ash to Sherman						◆	◆		◆
Main	Sherman to Grant		◆				◆			
Park	Sherman to Grant	◆	◆		◆	◆		◆		◆
Maple	3 <sup>rd</sup> to 2 <sup>nd</sup>	◆		◆				◆	◆	
Maple	2 <sup>nd</sup> to Main			◆	◆	◆		◆		
Maple	Park to Grove	◆	◆		◆	◆	◆	◆		



*An example of plentiful parking in Ontario, OR*

# Approach Reform Incrementally

*If reform works, people may be more open to change*

## Focus on What People Care About

*What's your community most focused on? Housing costs? Homelessness? Economic development?*

## Combine It With Other Reforms

*Parking reform should be part of something bigger  
And perhaps partnered with more controversial items*

# Language

## Don't Say

Parking requirements

Parking needs

Free parking

Developers

Parking

## Instead Use

Costly parking mandates

Parking demand

Subsidized (or unpriced) parking

Local builders and contractors

Car storage (occasionally)

### A Strategic Guide to Implementing

## Parking Reform



Reducing costly parking mandates can be a challenging task for planners and decision-makers.

Too often, the politically easiest thing to do is to continue the pattern of the past: force new development to provide excessive parking, avoiding potential conflict with those accustomed to abundant, “free” (subsidized) parking. This conveniently hides the large costs of parking, but makes it harder to walk and easier to drive, artificially driving up the demand for parking and the costs of housing, doing business, and getting around.

How to break the cycle? Here are some recommendations on how cities might go about reforming the extremely costly, counter-productive market distortion of mandated car parking.

# **Tell and Ask for Stories from Favorite Places and Other Communities**

**Would the development be possible  
under current regulations?**

**Might overparking hinder it?**

**Where else has parking reform worked?  
Might that help allay fears?**

# **The Messenger is the Message**

**Have community members  
(builders, affordable housing  
providers, renters, etc.) tell their  
stories**



# Engage in Community Conversations and Meetings



# **No Mandated Parking**

*does not mean*

# **No Provided Parking**

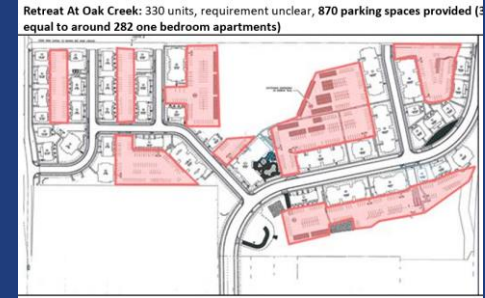
**Builders are nervous of risk and the unknown**

**Lenders are nervous of risk and the unknown**

**Experience shows builders will build parking**

# Builders Will Still Build Parking Tenants Demand

get your local data



Portland: Apartments 0.7 spaces/unit

Downtown Los Angeles: 1.2 spaces/unit

Salem: 1.75+ spaces/unit

Corvallis: 2+ spaces/unit near edge

Eugene: lenders require downtown builders  
to build garage parking

# Stories from Around Oregon

# **Case Study: Albany**

**Reviewed development code in 2018**

**Councilors concerned about spillover parking**

**Hired Rick Williams Consulting to collect and present data about 16 sites**

# Case Study: Albany

Average 30% unused; three sites fully used

Demand averaged 1.23 spaces/unit

Code remained the same



# **Case Study: Salem**

**Updated multifamily code 2018-2020**

**City staff and consultant decided to reduce parking mandates; data about rent impacts**

**Salem resident pushed for further reforms**

**Council voted 6-3 to eliminate mandates in downtown and within ¼ mile of frequent transit**

# **Salem – Keys to Success**

**Two council champions**

**Developers reassuring they'd still build parking**

**Addressing parking during debate  
where other things are more controversial**

**Supportive staff**

**Previous council experience reducing  
parking for a downtown development**



# Salem – Keys to Success

Housing shortage being central issue

Combining progressive, free market votes

Splitting votes into multiple issues and motions  
(intuitive to different people)

	Councilor	Andersen	Ausec	Mayor Bennett	Hoy	Kaser	Leung	Lewis	Nanke	Nordkye
<b>Motion</b>										
To eliminate mandates in downtown		Yes	Yes	No	No	No	Yes	Yes	Yes	Yes
To eliminate mandates everywhere		Yes	No	No	No	Yes	No	No	Yes	Yes
To eliminate mandates near transit		Yes	Yes	No	Yes	No	Yes	No	Yes	Yes
To eliminate mandates for SROs		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		100%	75%	25%	50%	50%	25%	50%	100%	100%
"progressive" average		67%								
"conservative" average		58%								

# **Case Study: Bend**

**Trying to redevelop a neighborhood near downtown (Bend Central District)**

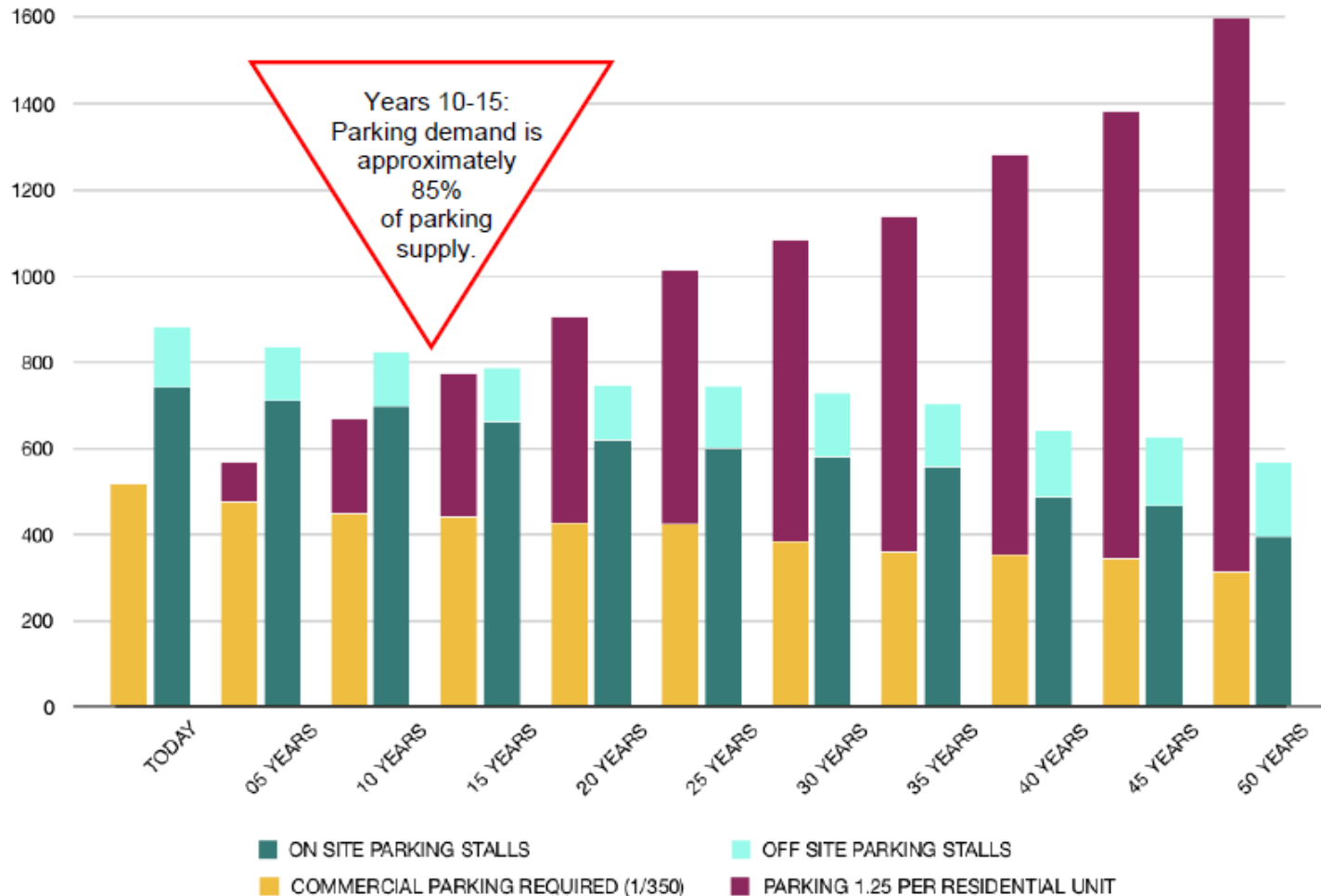
**Little redevelopment or concerns about parking**

**Waived parking mandates for up to 10,000 sq. feet building footprint**

**Able to revisit if parking gets scarcer**

# Case Study: Bend

Figure 7. Proposed Code, Higher Parking Demand Scenario



# **Anecdote: Independence**

**Got a call about parking problem**

**Talked it through and gave presentation**

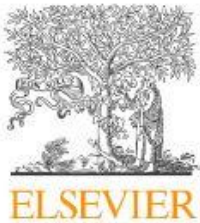
**Parking problem was:**

- **One block in each direction from the main intersection**
- **One business owner parking in front**
- **Loading zones**
- **Event parking**

# Seattle reform

## 2012-2017 saved \$537 million

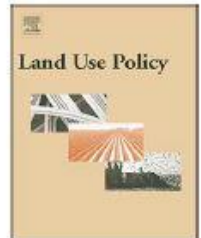
Land Use Policy 91 (2020) 104655



Contents lists available at ScienceDirect

### Land Use Policy

journal homepage: [www.elsevier.com/locate/landusepol](http://www.elsevier.com/locate/landusepol)



## Parking policy: The effects of residential minimum parking requirements in Seattle



C.J. Gabbe<sup>a,\*</sup>, Gregory Pierce<sup>b</sup>, Gordon Clowers<sup>c</sup>

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ARTICLE INFO

ABSTRACT

# Next Steps

Review resources

[www.oregon.gov/LCD/TGM/pages/parking.aspx](http://www.oregon.gov/LCD/TGM/pages/parking.aspx)

Review your parking code

Choose a code update to piggyback on

Ask for assistance

[Evan.Manvel@state.or.us](mailto:Evan.Manvel@state.or.us)

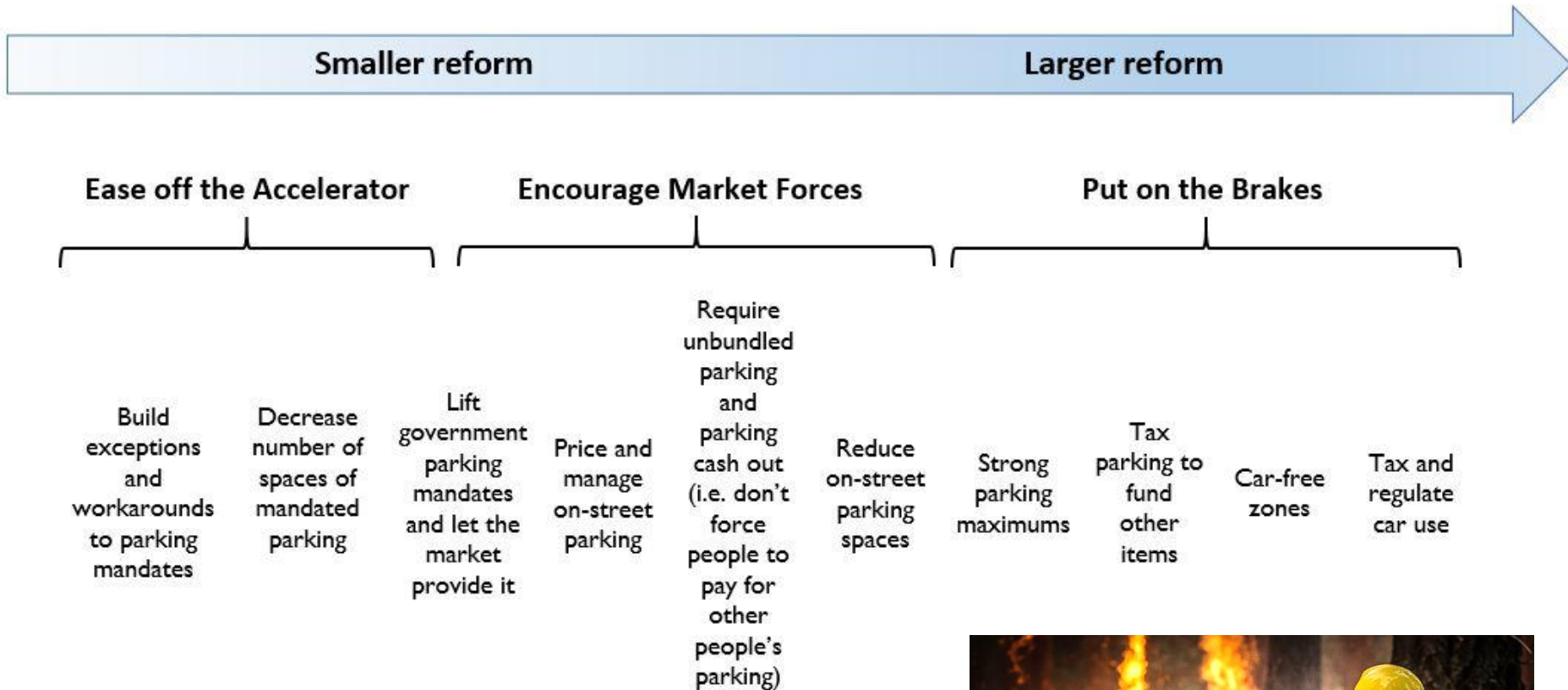
[Laura.Buhl@state.or.us](mailto:Laura.Buhl@state.or.us)

# Discussion

Questions?

**What more should TGM be doing?**  
(possibly: guide to managing residential parking)

# Reforming How Government Treats Cars: A Scale





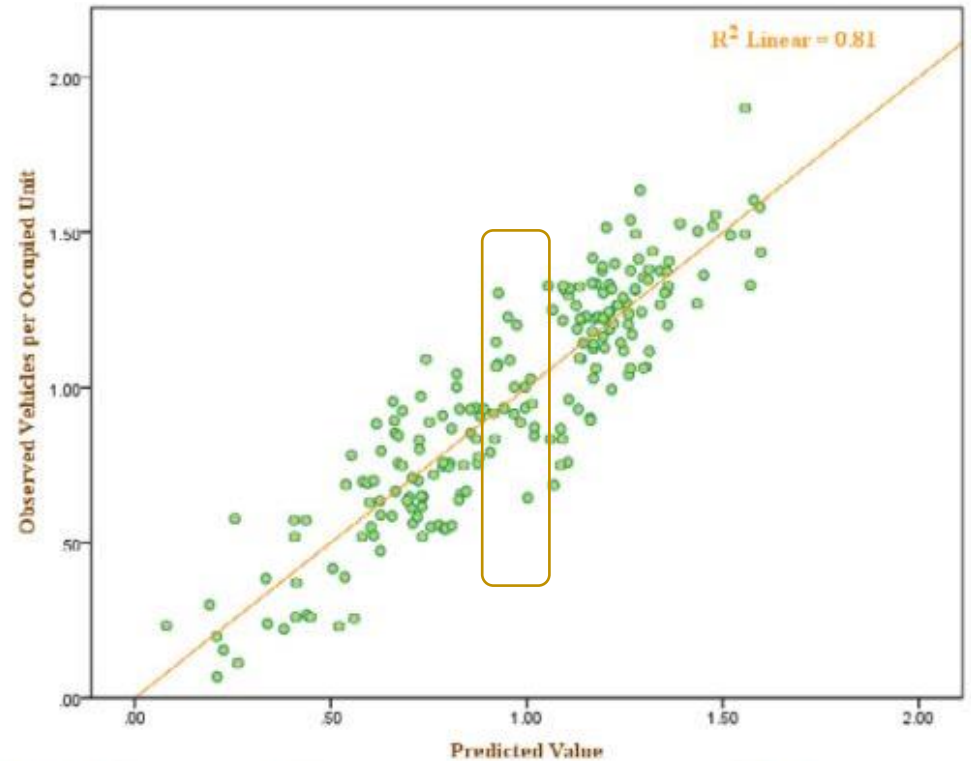
Independent variable	Individual R Square	Stepwise R Square
Gravity measure of transit frequency	55.5%	55.5%
Percent of units designated affordable	27.6%	67.1%
Average occupied bedroom count	34.3%	73.7%
Gravity measure of intensity (population + jobs)	53.3%	76.2%
Units per residential square feet	17.1%	78.7%
Average rent	6.7%	80.0%
Parking price as a fraction of average rent	18.1%	81.0%

**Table 1:** Independent Variables and Summary of Regression Results

“Half my advertising spend is wasted; the trouble is, I don’t know which half.”

John Wanamaker or  
Lord Leverhulme

# Lots of variation and factors



**Fig. 3:** Observed vehicles per occupied unit versus modeled value.

**“People Will Still Own Cars”**

**Does Parking Supply  
Change How Much People  
Drive and Own Cars?**

# Best Evidence Thus Far: Yes

## Bundled parking correlates with:

- Higher car ownership
- Higher rates of driving even with same car ownership

### Parking behaviour: Bundled parking and travel behavior in American cities

Michael Manville\*, Miriam Pinski

*UCLA Luskin School of Public Affairs, Los Angeles, CA 90095, USA*



#### ARTICLE INFO

##### Keywords:

Parking  
Transit  
Zoning  
Land Use  
Bundling

#### ABSTRACT

We investigate the relationship between bundled residential parking on use of public transportation, and controlling for vehicle ownership, the price of housing, the time and stress of finding parking, and the number of households with bundled parking to drive more and use transit both households own vehicles. To date this idea has been difficult to test using the public transportation module of the 2000 Census.

## Bundled parking and vehicle ownership: Evidence from the American Housing Survey

Michael Manville

University of California, Los Angeles

mkm253@cornell.edu

**Abstract:** This article estimates the effect of bundled residential parking—parking whose price is included in the rent or purchase price of housing—on household vehicle ownership. Using data from the American Housing Survey, I show that the odds of households with bundled parking being vehicle-free are 50–75 percent lower than the odds of

#### Article history:

Received: January 19, 2015

Received in revised form:

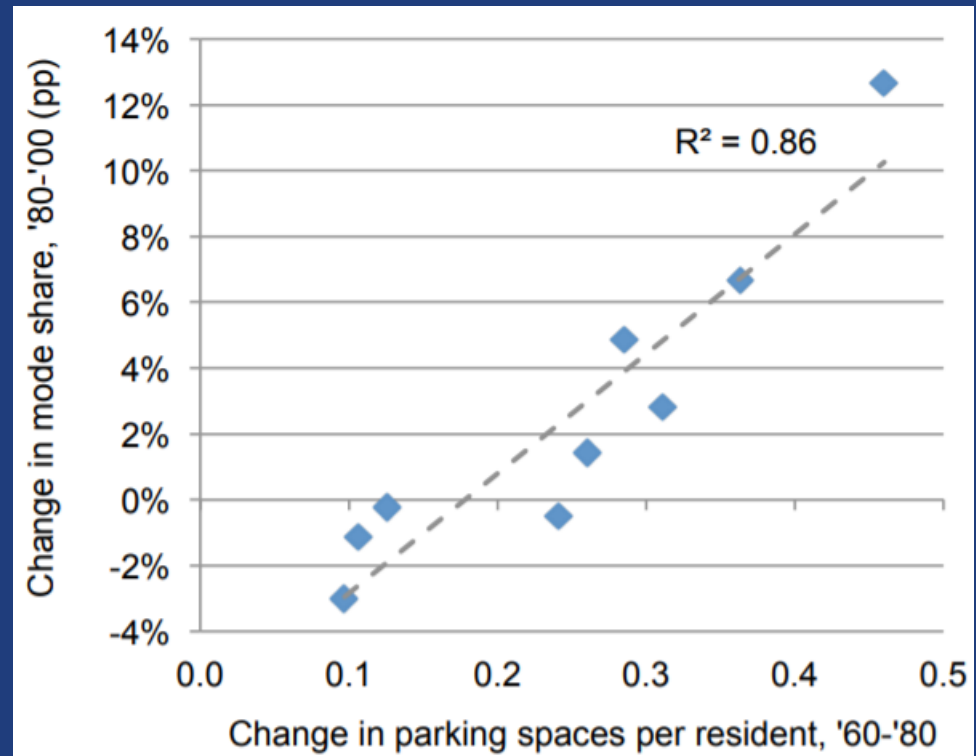
September 12, 2015

Accepted: September 29, 2015

# Parking Spaces and Driving Mode Share

*McCahill, C. T., Garrick, N., Atkinson-Palombo, C., & Polinski, A. (2016). Effects of parking provision on automobile use in cities: inferring causality.*

**An increase in parking provision from 0.1 to 0.5 parking spaces per person is associated with an increase in driving mode share of roughly 30%.**



# Best Evidence: Pricing Matters a Lot

- Case studies LA, DC +60% driving if parking “free”
- California parking cash out reduced drive to work 17%
- Minneapolis: 11% fewer employees drive to work under parking cash out



# TGM Ed/Outreach Projects

Banks parking management  
(trail visitors and downtown)

Cascade Locks parking  
management downtown

Often a theme in projects  
(e.g. Klamath Falls downtown)



# **TGM Code Assistance**

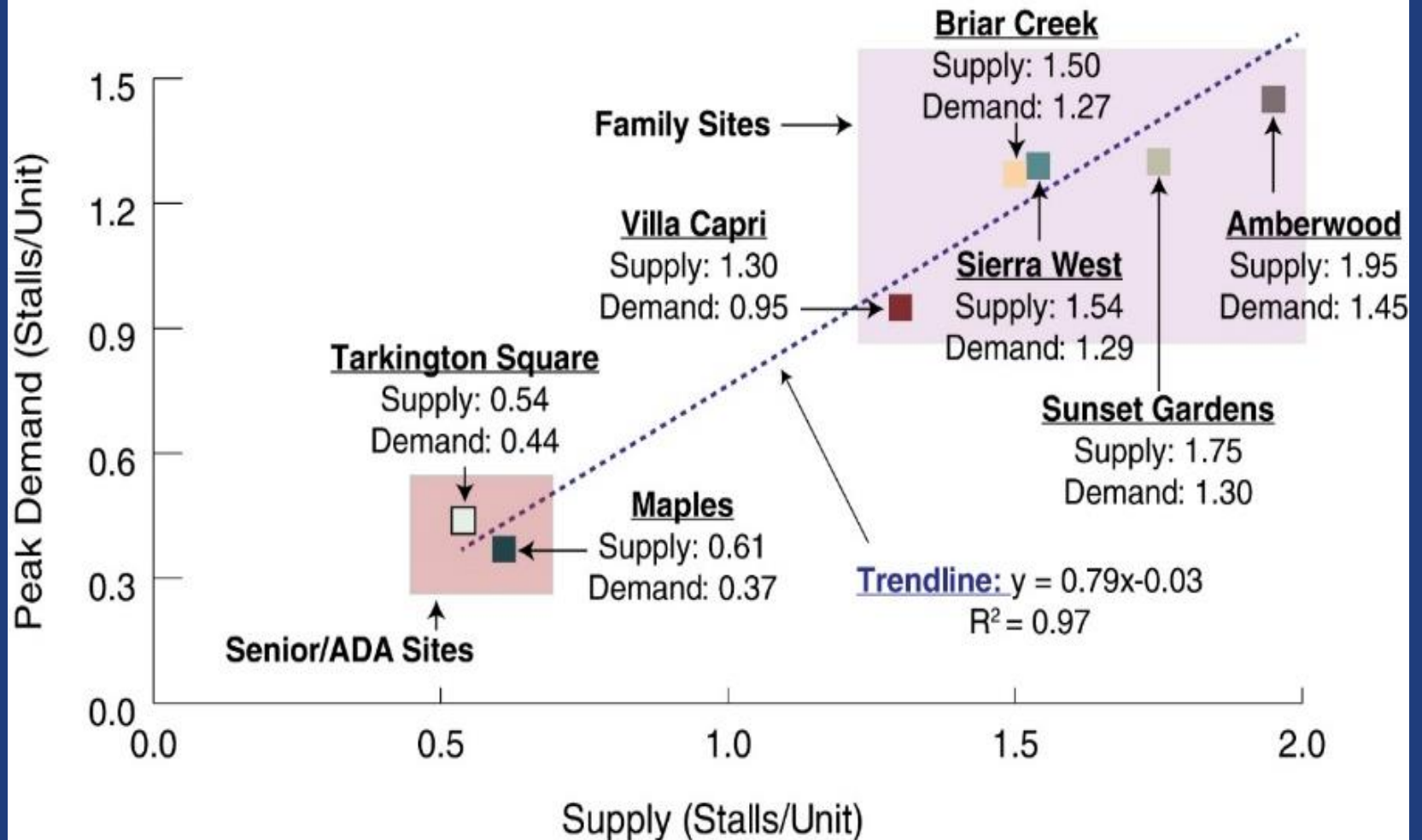
**Offered parking code review Feb 2019  
completed for Gladstone and Tigard**

**Cascade Locks Code Assistance  
No mandated parking downtown**

**Current Madras code project  
(1 space/unit residential)**

**Updating TGM Model Code**

## Demand Versus Supply



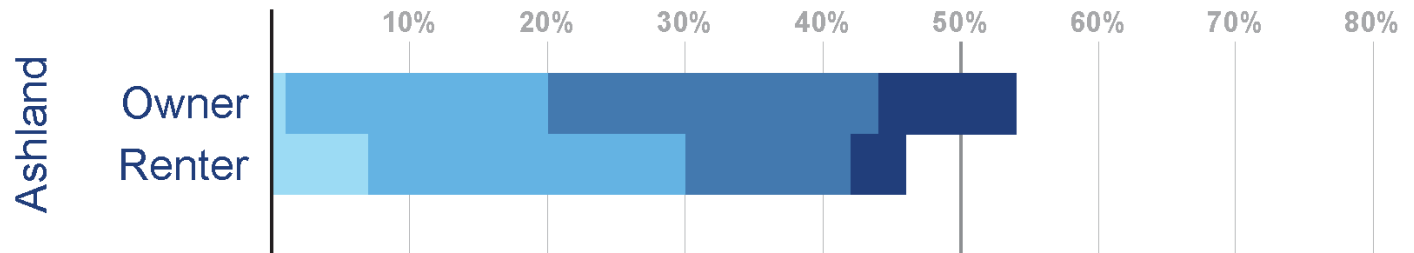
*Hillsboro Parking Data from Lancaster Engineering*



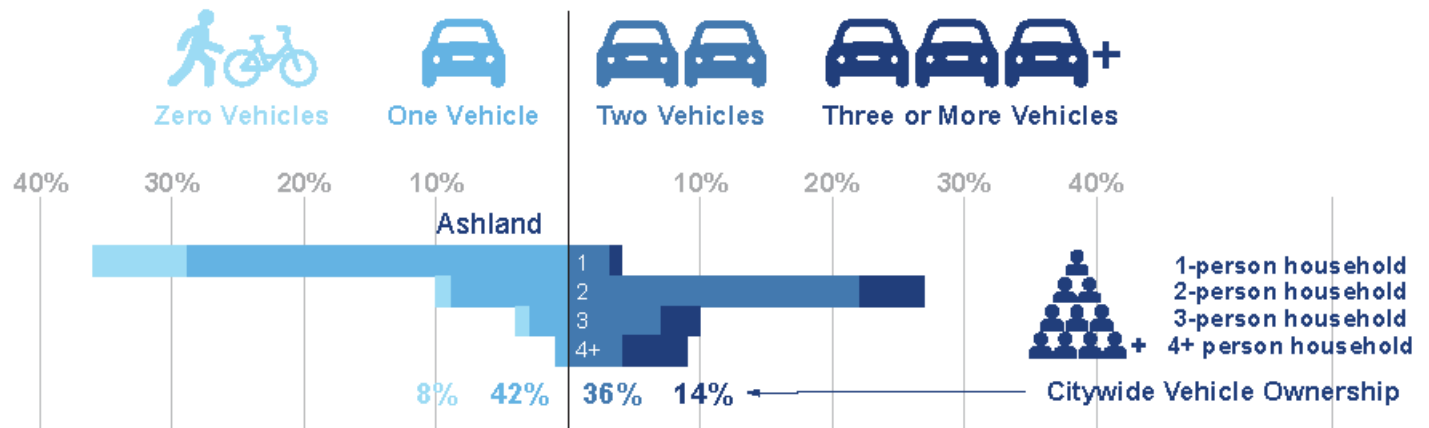
# Anticipated Demand

American Community Survey 2013-2017

## Tenure



## Household Size



# **Rulemaking for Executive Order 20-04**

**Agencies shall exercise... all authority... to  
facilitate Oregon's achievement of...  
emissions reduction goals**

**And prioritize implementation of Oregon's  
Statewide Transportation Strategy**

- Promote parking cash-out**
- Update codes; reduce mandates and add maximums**
- Promote parking restrictions and pricing**

# **Recommended Reforms (1)**

**Remove parking mandates**

**and**

**manage on-street parking**

# Recommended Reforms (1a)

If not repeal:

- ✓ Reduce mandates
- ✓ Expand exemptions
- ✓ Provide flexibility

# Expand Exemptions

## Target What You Want and Exempt It from Costly Parking Mandates

- ✓ Affordable Housing
- ✓ Senior Housing
- ✓ Historic Building Reuse
- ✓ Small Businesses
- ✓ Transit-Oriented Housing
- ✓ Downtown Housing
- ✓ Bike-Oriented Housing
- ✓ Reuse of Long-Vacant Buildings

# Lost Housing Opportunities

**San Francisco:**

**houses without off-street parking  
\$46,000 less than with**

**affordable to 24% more households  
(1997)**

# Corvallis Land Development Code

l. Bedroom Size Determination - Multi-dwelling units having a bedroom in excess of 160 sq. ft. shall provide added vehicle and bicycle parking of 0.5 parking spaces per oversized bedroom.

m. Fractions - When the calculated sum of the required vehicle and/or bicycle parking spaces includes a fraction equal to or greater than one half of a space (0.5 or more), a full space shall be required. If the fraction is less than 0.5, an additional space shall not be required.

# **Corvallis Land Development Code Already Does Some of This**

**Location of Required Parking - Required parking shall be provided on property located within the Central Business (CB) and Riverfront (RF) Zones and within 750 feet of any new development.**

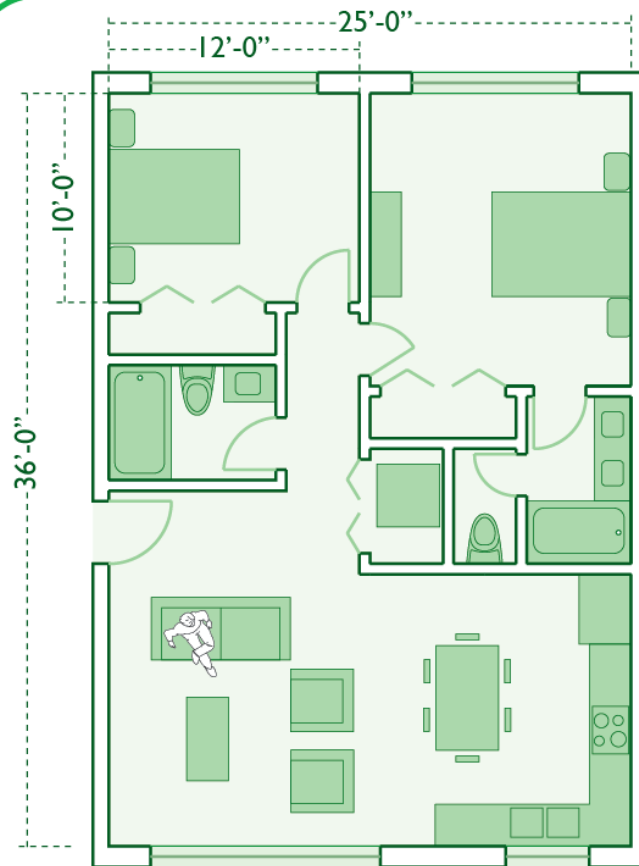


# **Corvallis Land Development Code Starts to Do This Already**

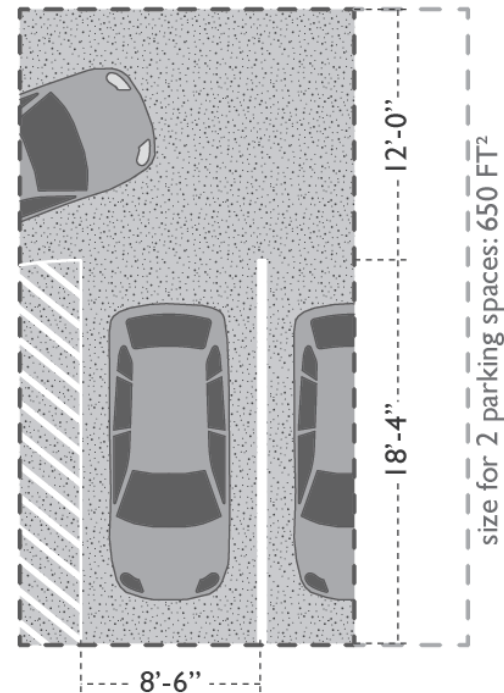
- 1. A reduction of up to 10 percent ... if a transit stop... is located on-site or within 300 ft.**
- 2. A reduction of up to 10 percent... For every 8 required bicycle parking spaces... can reduce one space**

**(Ashland allows up to 50% less)**

# Opportunity Cost and Land Cost *Sightline*

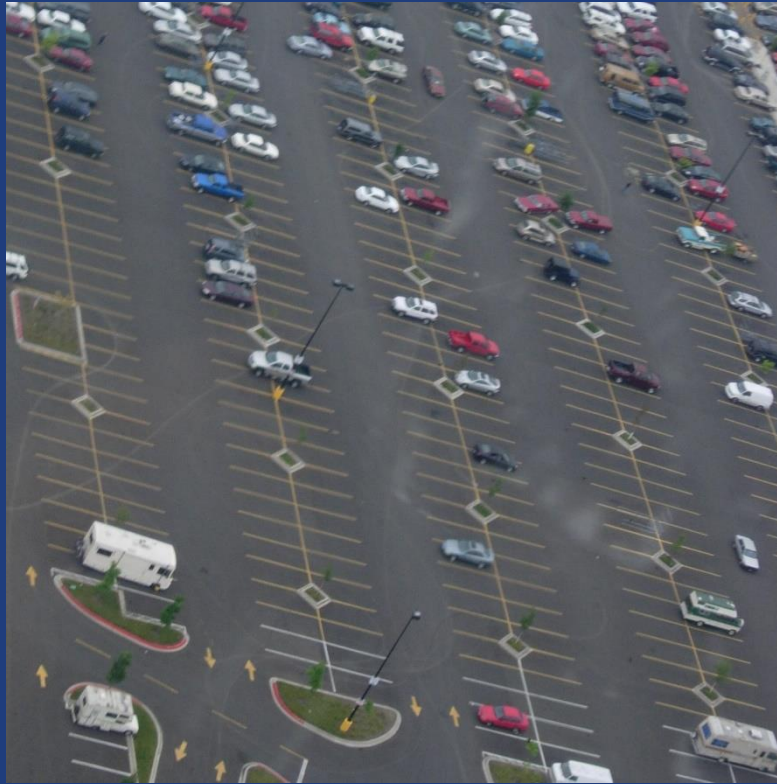


**2 BEDROOM APARTMENT**  
**900 FT²**



**1.5 PARKING SPACES**  
**INCLUDING AISLES**  
**488 FT²**

# Parking Management



**People regularly walk significant distances from where they park – but sometimes don't perceive it.  
(The Mall)**

# National Study:

Up to 27 parking spots per household

Costing \$6,500 to \$192,000 per household

City	New York	Philadelphia	Seattle	Des Moines	Jackson, WY
<b>Total Parking Spaces</b>	1.85 million	2.2 million	1.6 million	1.6 million	100,119
<b>Parking density per acre</b>	10.1	25.3	29.7	28.4	53.8
<b>Parking spaces per household</b>	0.6	3.7	5.2	19.4	27
<b>Total replacement cost of parking</b>	\$20.1 billion	\$17.5 billion	\$35.8 billion	\$6.4 billion	\$711 million
<b>Parking cost per household</b>	\$6,570	\$29,974	\$117,677	\$77,165	\$192,138

# Parking: Many Issues

Off-street parking

Code mandates

Parking design and orientation

Parking's relation to bikeways, sidewalks

Pricing, meter technology, etc.

Residential parking (permits, etc.)

Parking in business districts

Event parking

# **Parking: Many Issues**

**Publicly subsidized parking garages**

**Tax treatment of parking lots & employer parking benefits**

**Storm water and heat island effects**

**Accessibility for those who cannot walk**

**Equity for those who do not drive**

**Bike parking**

**Dispersion of land uses**

# **Current Policy Questions**

**How much car storage  
should cities be allowed to  
mandate in new residential and  
commercial developments?**

**(HB 2001 and Executive Order 20-04)**

**What can we do to reduce  
climate pollution from driving?**

**(Executive Order 20-04)**

# **You Won't Believe #7!**

**with community examples**

# **8**

## **Quick Ways Cities Can Improve Parking Codes**

Is your community concerned about housing costs, the cost of doing business, walkability, climate pollution, historic preservation or age-friendly development? Have you seen wasted land, turned away restaurant proposals in downtowns, or wished housing was cheaper to build?

There's something easy you can do – improve your parking code. Parking requirements affect all of these issues. While a thorough updating of parking codes is in order for most cities, these improvements can be made quickly.

- 1. Allow parking to be off-site**
- 2. Count curbside frontage to count toward mandates**
- 3. Waive mandates for low-car housing types**
- 4. Waive mandates for renovation and small business**
- 5. Set mandates no higher than 1/unit (0.5 for studios)**
- 6. Allow shared parking**
- 7. Require parking unbundling**
- 8. Have a fee-in-lieu program**



# **Affordable Housing Development**

**(King County WA)**

**one space/unit leasing costs +12.5%**

**two spaces/unit leasing costs +25%**

**Parking means cities build  
fewer affordable housing units**

# Best Predictors of Demand

(King County, WA)

Transit Frequency  
Population & Jobs Density

Somewhat less so: bedroom count

Independent variable	Individual R Square	Stepwise R Square
Gravity measure of transit frequency	55.5%	55.5%
Percent of units designated affordable	27.6%	67.1%
Average occupied bedroom count	34.3%	73.7%
Gravity measure of intensity (population + jobs)	53.3%	76.2%
Units per residential square feet	17.1%	78.7%
Average rent	6.7%	80.0%
Parking price as a fraction of average rent	18.1%	81.0%

**Table 1:** Independent Variables and Summary of Regression Results.

# **Other Cities in the World Approach Parking Differently**

<b>On each site</b>	<b>vs.</b>	<b>Area management</b>
<b>Gov't mandated</b>	<b>vs.</b>	<b>Market provided</b>
<b>Excess parking</b>	<b>vs.</b>	<b>Meeting demand or limiting supply</b>

# **Recent DLCD Presentations**

**Independence downtown 2019**

**Oregon Main Streets Conference 2019**

**Corvallis community meeting Feb 2020**

**HB 2001 TAC/RAC March 2020**

**Proposed for OAPA and League of  
Oregon Cities conferences 2020**

**The cost of parking?  
1.2 to 3.7% of GDP,  
about \$1250 per person**

Mark Delucchi,  
University of California, Berkeley