



Washington APA Conference
Bellevue, WA
10/2/2013



Right Size Parking

TOOLS TO BALANCE SUPPLY

OUR PROJECT

Project scope

- Research
- Website Calculator
- Stakeholder outreach
- Policy guidance
- Demonstration projects

Products


- Right size Parking Website Calculator
 - www.rightsizeparking.org
- Technical policy memo
- Demonstration projects

OUR PARTNERS




WHAT DOES IT MEAN TO "RIGHT-SIZE" PARKING?

- **Right-sizing parking means striking a balance between parking supply and demand**
- **Oversupply** can be an impediment to achieving a wide range of community goals
- **Undersupply** can risk real estate marketability and negatively impact neighborhood impacts



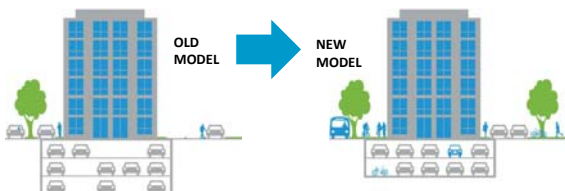
Why Right Sized Parking is Important



- Parking is very expensive to build.**
- Overbuilt parking reduces housing affordability and access to transit.**
- An oversupply of parking encourages driving and congests our roadways.**

- Community goals?
- Real estate marketability?
- Neighborhood impacts?

WHAT'S THE PROBLEM?



- Existing tools and data are general and outdated
- Current policy regarding parking supply often undermines transit use and efficiency


Parking, housing, urban form and transportation – how does it all fit together?

Why so much parking...



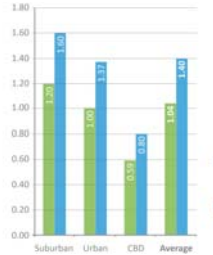
Research Objectives

1. Identify independent variables, both from a theoretical framework and a practical development and planning standpoint, to be tested in regression analysis
2. Conduct variables' significance in predicting parking use
3. Develop a model using regression analysis, maintaining that all variables be significant and highly correlated.
4. Develop a website tool enabling interactive use of the model by interested stakeholders

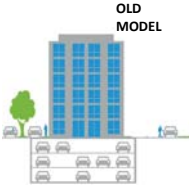


STUDY FINDINGS

On average, we found that **parking is supplied at 1.4 spaces per dwelling unit** but is only used at **about 1 space per unit**.



When these findings are applied to a typical suburban project with 150 units, roughly \$800,000 would be spent on unused parking.



RESEARCH RESULTS

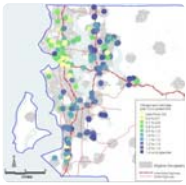

GEOGRAPHIC VARIABLES

- transit service
- population + job density

BUILDING VARIABLES


- bedroom count
- parking price
- affordable units
- residential density
- average rent

R² = .803

Demonstration Projects

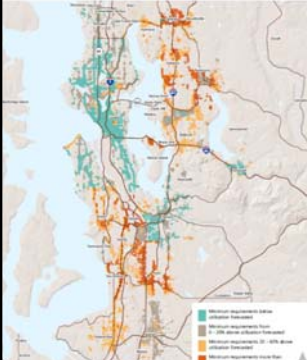
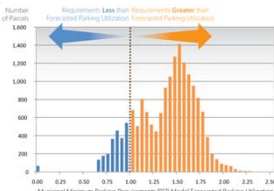
- Policy and Neighborhood Mitigation**
 - Assess MF parking regulations based on the research findings
 - Develop model code and neighborhood engagement/mitigation strategies
- Pricing and TDM**
 - Assess the market for pricing and financing parking in new MF projects
 - Develop TDM strategies to support a balanced parking supply
- District Shared Parking**
 - Assess potential for district shared parking with current excess supply
 - Develop tools, strategies, and incentives to price parking and connect customers



Demonstration Project: Policy

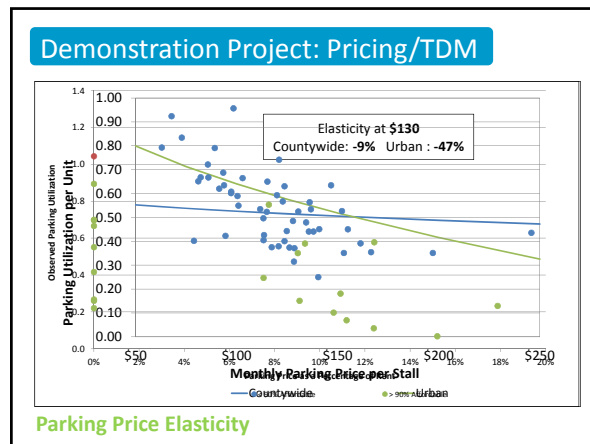
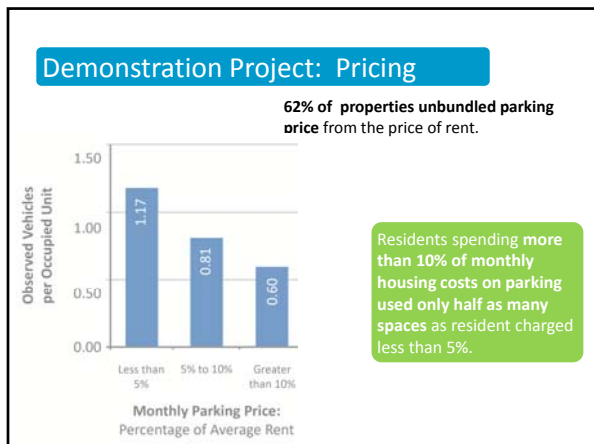
King County Minimum Parking Requirements Compared to RSP Model Parking Utilization

Outside Seattle, 82% of parcels have requirements greater than predicted use

Demonstration Project: Model Code

- Market-based Approach (recommended)
 - Remove parking minimums
 - Tie to neighborhood mitigation and on-street management
- Context-based Approach
 - Typology → Set base minimum
 - Apply context-based adjustments
 - Unit/tenant type, transit proximity, TDM, parking management, etc.
- Pilot projects starting in September
 - 4 cities
 - \$100k of policy change funding
 - Adjusting minimums, on-street mgmt., shared parking



Demonstration Project: Pricing/TDM

Project Revenue: Parking Price Elasticity

Urban Project Pro Forma

- 25,000 sf site
- 6 story building
- 640 sf/unit
- Underground parking
- Land at \$100/sf
- Unit rent at \$2.2/sf
- Cap rate at 5%

Project Description			
Residential Units	150	150	150
Parking Spaces	75	150	300
Parking Ratio	0.5	1.0	1.5
Levels of Parking	1.3	2.6	3.9

Cost/ Stall	Profit Margin		
\$150	23%	19%	15%
\$100	21%	15%	9%
\$50	19%	11%	3%

- ### Demonstration Project: Pricing/TDM
- Call for pilot project proposals
- RFI developed and sent out. 9 respondents. RFP sent soliciting more detailed proposals. Expect to identify pilots by mid-November.
- Pilot Project Elements:
- Parking pricing
 - Transition to market rate or tiered pricing structure
 - Market excess parking to new user groups
 - TDM Programs
 - Transit subsidies or incentives
 - Bike or pedestrian infrastructure
 - Carshare membership or expansion
- Updating RSP website!
- Looking for partners to update RSP data and website

RESOURCES

Right Size Parking Calculator
www.rightsizeparking.org

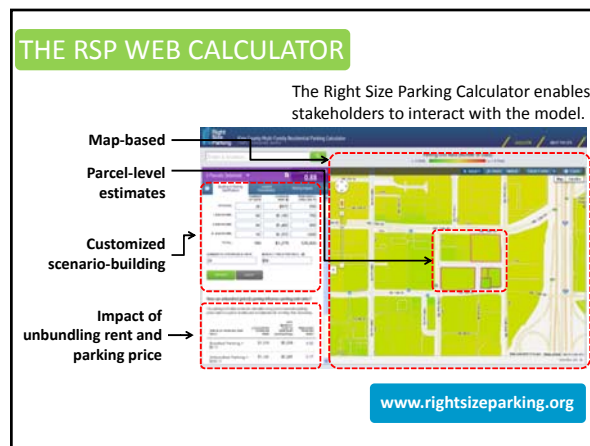
Metro Transit's Right Size Parking Website
kingcounty.gov/RightSizeParking

Other

- Research Methods
- Technical Policy Memo
- Technical Research Memo
- Outreach Products
- ULI Event Recording
- Mixed Use Study (in progress)

Demonstration Products (in development)

- Best Practices / Lit Review
- Policy Gap Analysis
- Model Code
- Developer Toolkit
- Case Studies



Search **View Regional Parking Use** **Technical Background**

Enter a location... Parking/Unit Ratio (Number of Stalls) 0 to 1.000

Instructions and Video **Map Based**

View Parking Ratio

1 Parcel Selected 1.09

Build a Scenario **Select a Parcel or Area**

1 Parcel Selected 1.09

STORIES	NUMBER OF UNITS	AVERAGE UNIT COST (\$)	RESIDENTIAL AREA (SQ FT)
1	20	\$975	\$50
1	60	\$1,150	750
2	60	\$1,450	950
3	60	\$1,875	1200
TOTAL	150	\$1,275	125,000

Adjust Building and Parking Specifications → **Update** → **View Change in Parking Ratio**

1 Parcel Selected 1.09

Adjust Location Characteristics → **Update** → **View Change in Parking Ratio**

1 Parcel Selected 1.09

Project	Estimated Parking Use Ratio	1.09	1.5
Total Capital Costs (Land & Construction)	\$1,378,505	\$1,856,950	
Monthly Costs per Residential Unit (Including O&M)	\$62	\$120	
Annual GHG Emissions from Construction and Maintenance (kg CO2e)	15,561	15,975	
Total Capital Costs (Land & Construction)	\$2,868,004	\$3,962,925	
Monthly Costs per Residential Unit (Including O&M)	\$165	\$255	
Annual GHG Emissions from Construction and Maintenance (kg CO2e)	26,171	38,925	
Estimated Annual VMT of Building Residents	1,808,362	2,222,330	
GHG Emissions from Vehicle Use of Residents (kg CO2e)	85,748	93,336	

View Impacts

Questions?

King County

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