Evaluation Tools

Pedestrian Environments

Outline

- > The Problem
- What is Pedestrian Friendly?
- What is Auto Dominated?
- Setting Priorities

The Problem





What is Pedestrian Friendly?

Evaluation Tools

Types of Walking

- Rambling
- Utilitarian Walking
- Strolling, Lingering
- Promenading
- Special Events

Rambling

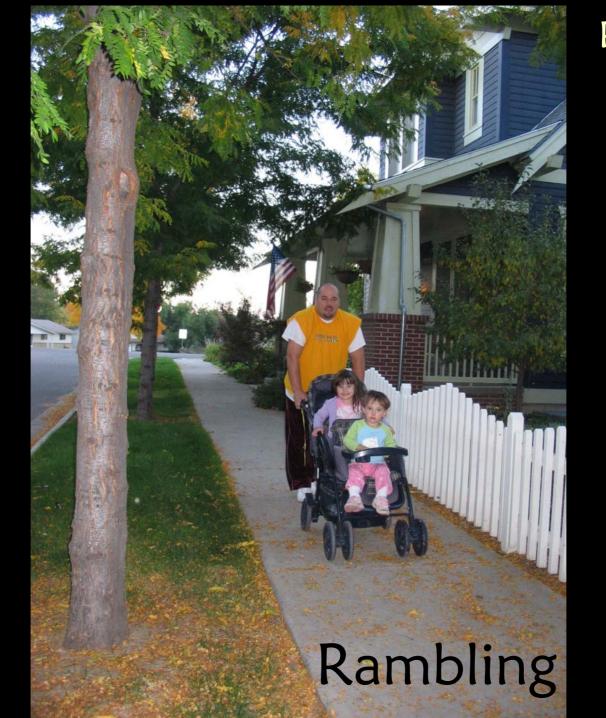






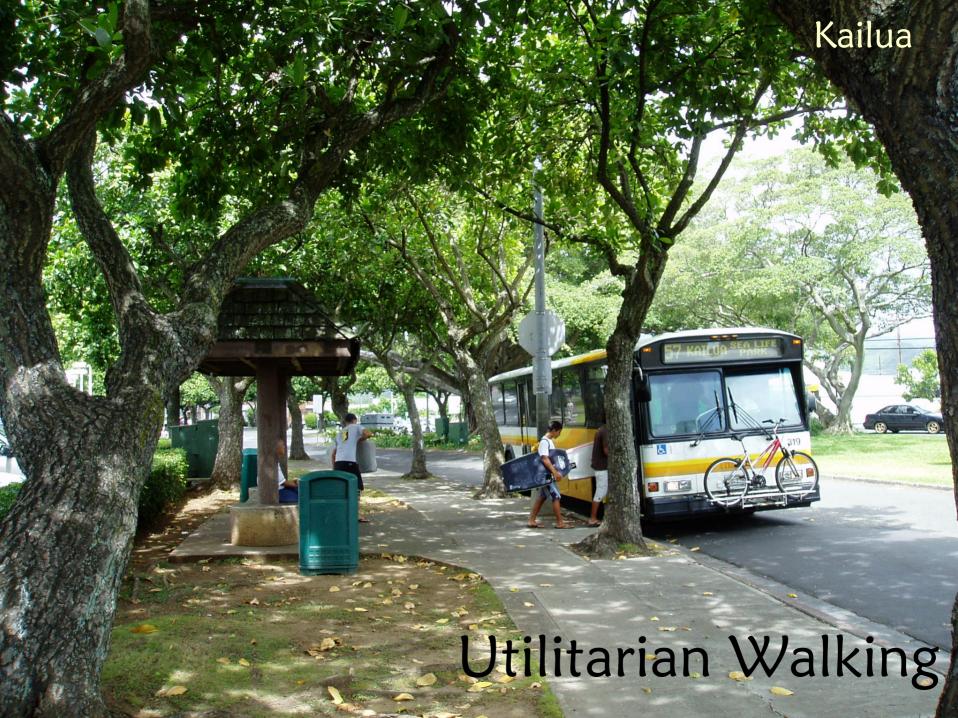


Prospect



Utilitarian Walking









Strolling & Lingering









Promenade



Special Events





Types of Pedestrian Environments

Pedestrian Environments

"Pedestrian Friendly"

Pedestrian Environment Continuum



Pedestrian Place/District

- Mixed use with retail
- Gathering place identifiable as a PLACE
- Significant pedestrian presence
- Motor vehicles present, do not dominate
- Supportive transportation required (parking, transit, bike)













Pedestrian Supportive

- Mixed use including residential
- May include gathering PLACES
- Pedestrians present at busy times
- Motor vehicles present, do not dominate









Kirkland, WA











Pedestrian Tolerant

- All land uses except freeway & certain special uses (airport runway, garbage dump, etc.)
- Utilitarian walking & rambling only
- Motor vehicles present, may tend to dominate





Pedestrian Tolerant





Pedestrian Intolerant

- Any land use
- Little or no walking
- Motor vehicles dominate
- Unsafe, unpleasant









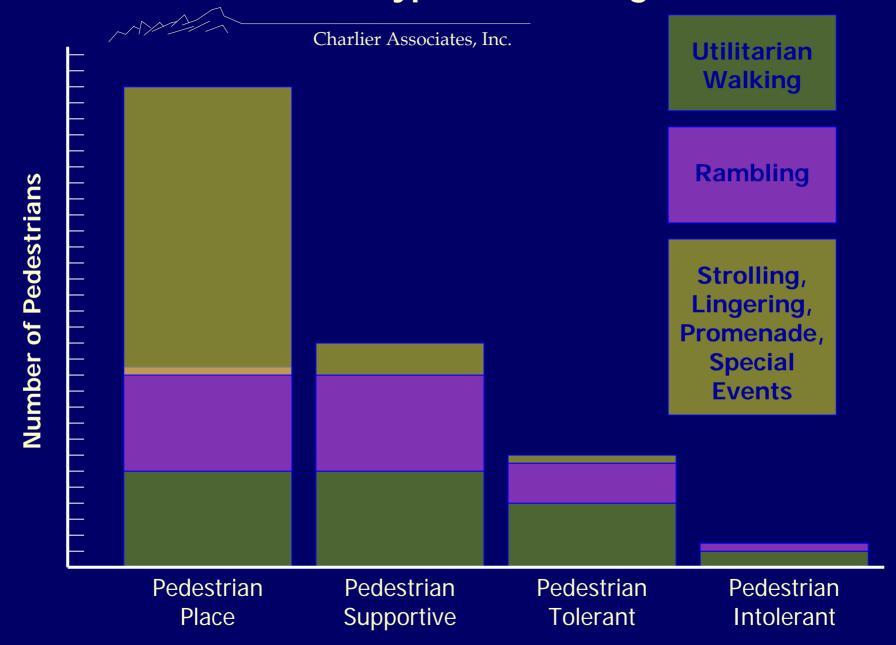








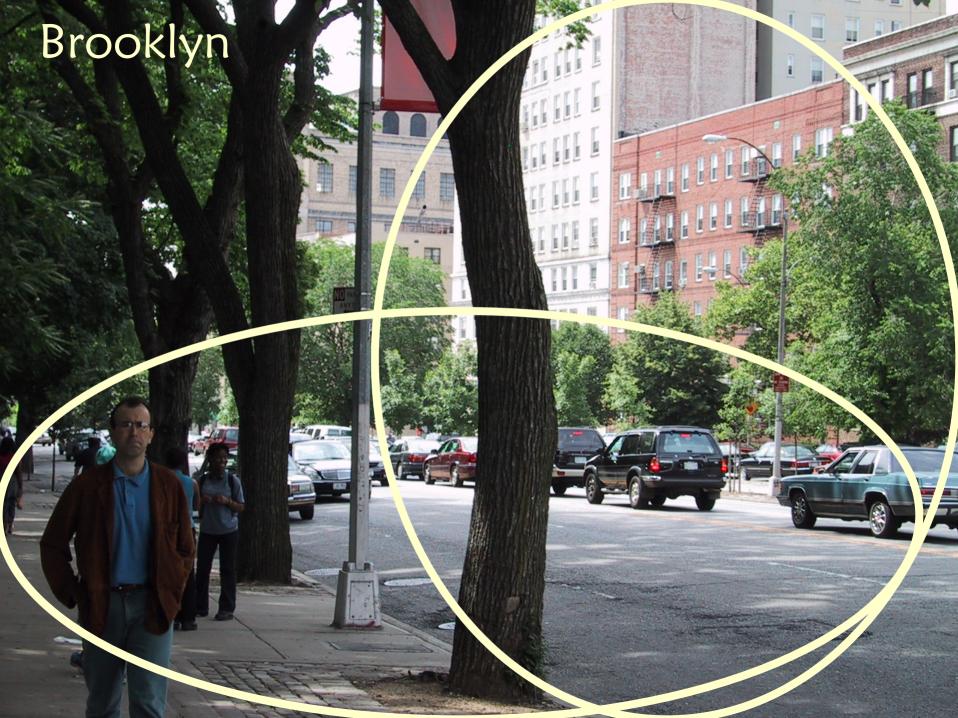
Walk Environments and Types of Walking

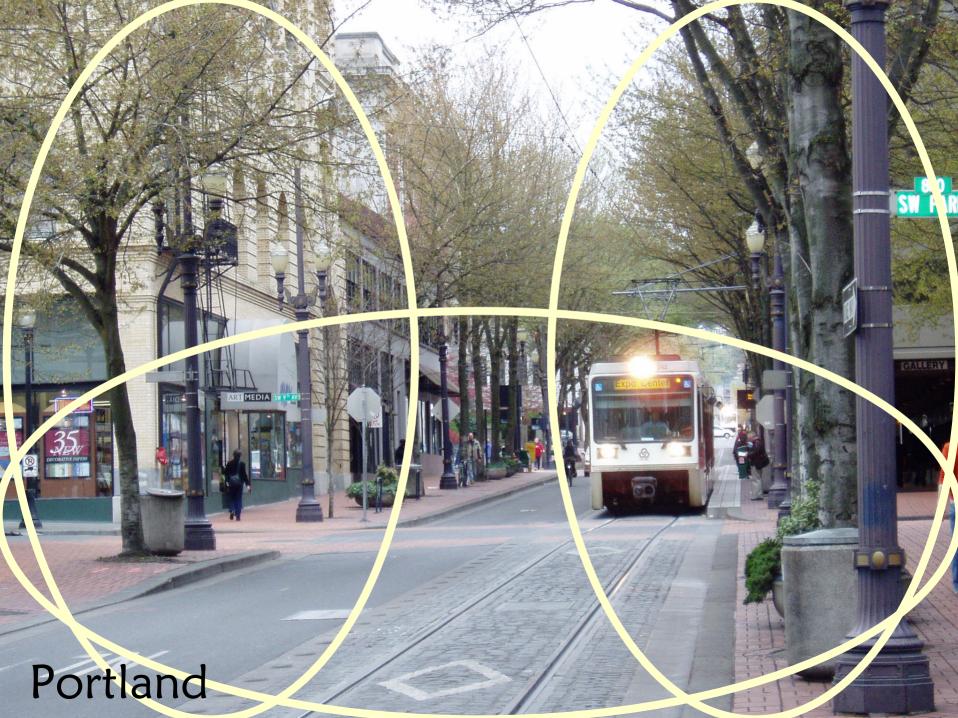


Key Factors

"Pedestrian Oriented"

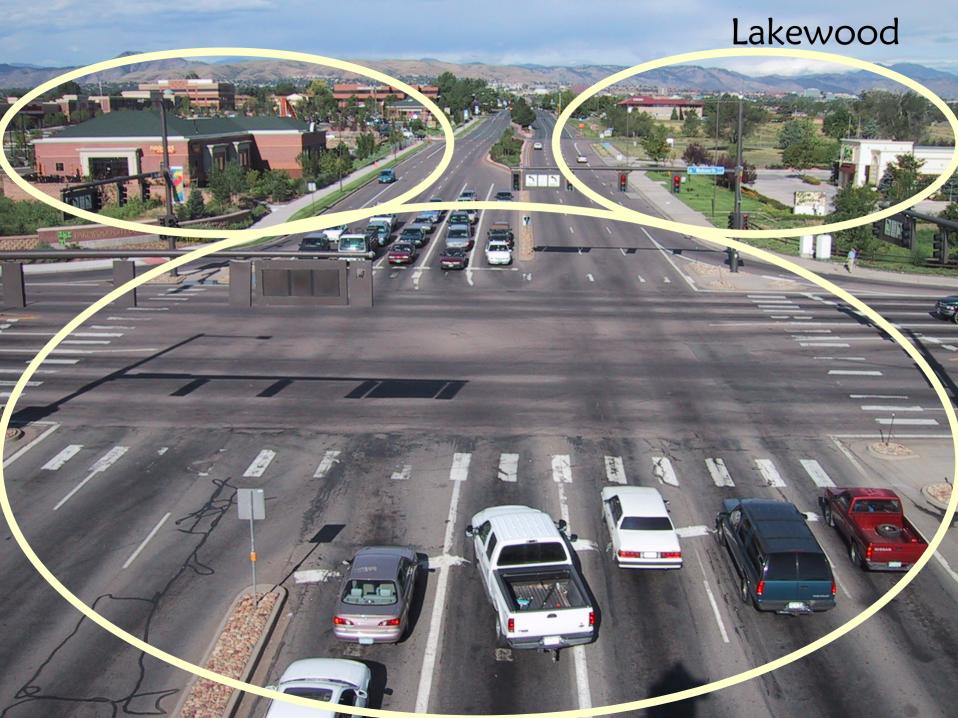






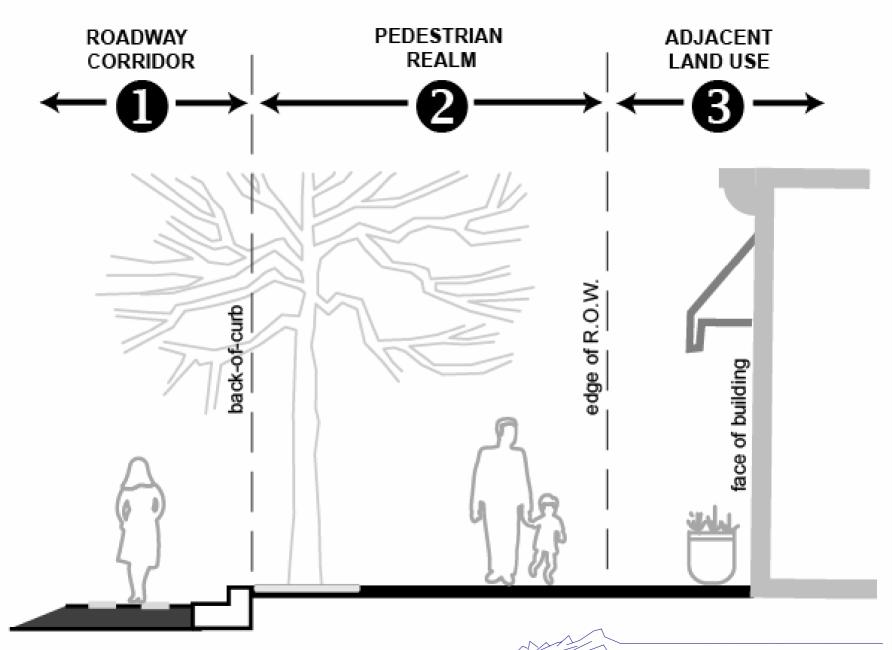




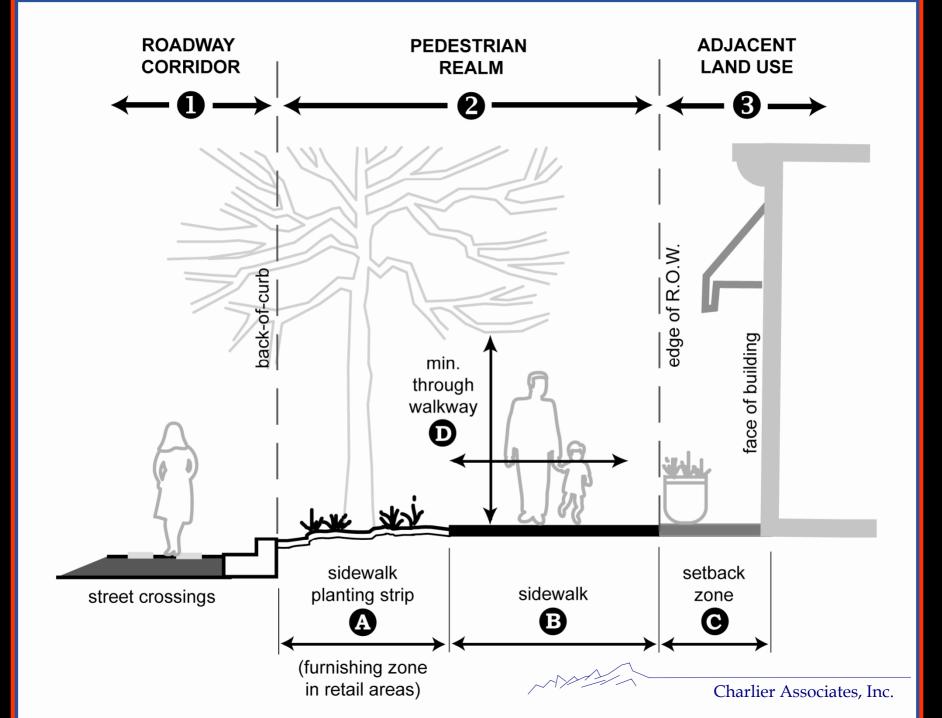


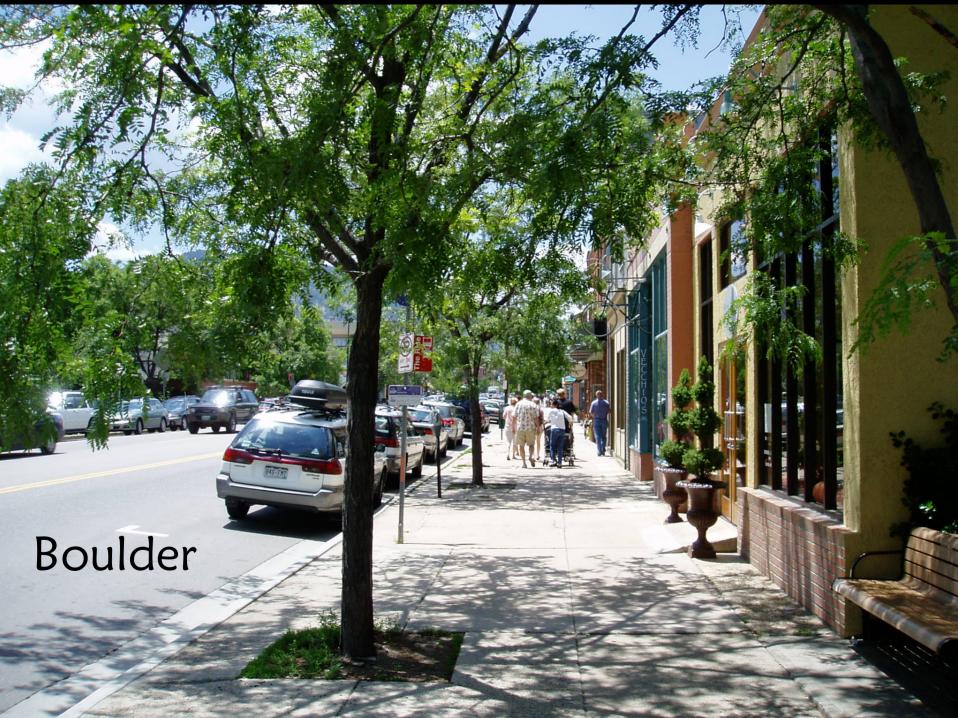
Factors: "Pedestrian Oriented"

- Street design & space allocation
- Proportion of street room
- Character of street wall
- Traffic buffering
- Connectivity
- > Weather protection: sun, rain
- > Land use mix



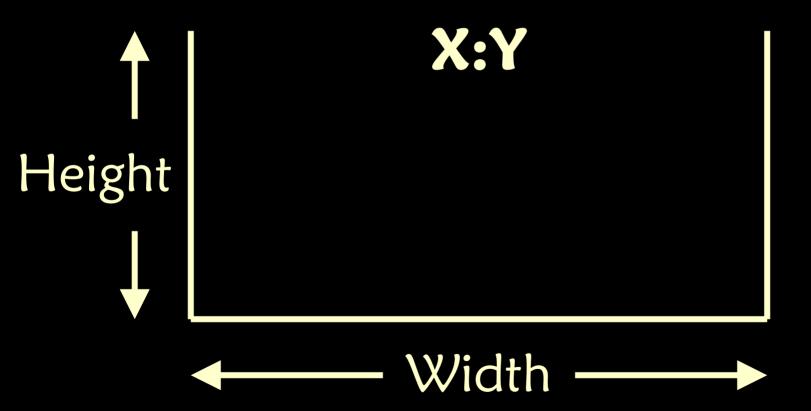
Charlier Associates, Inc.





Urban Scale & Proportion of Street Room

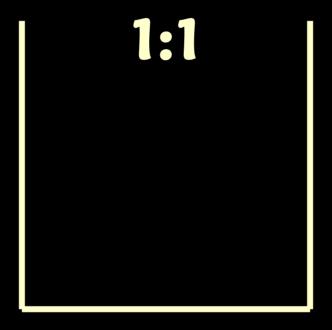




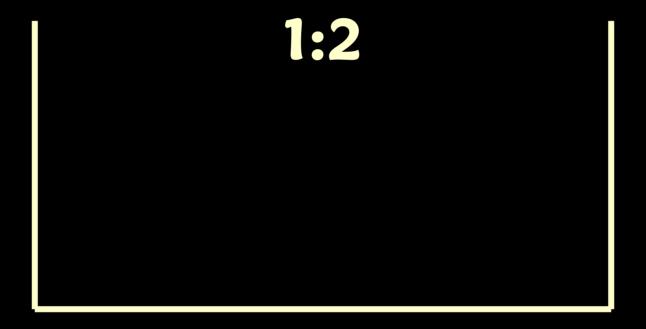
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1:3



1:4



1:16













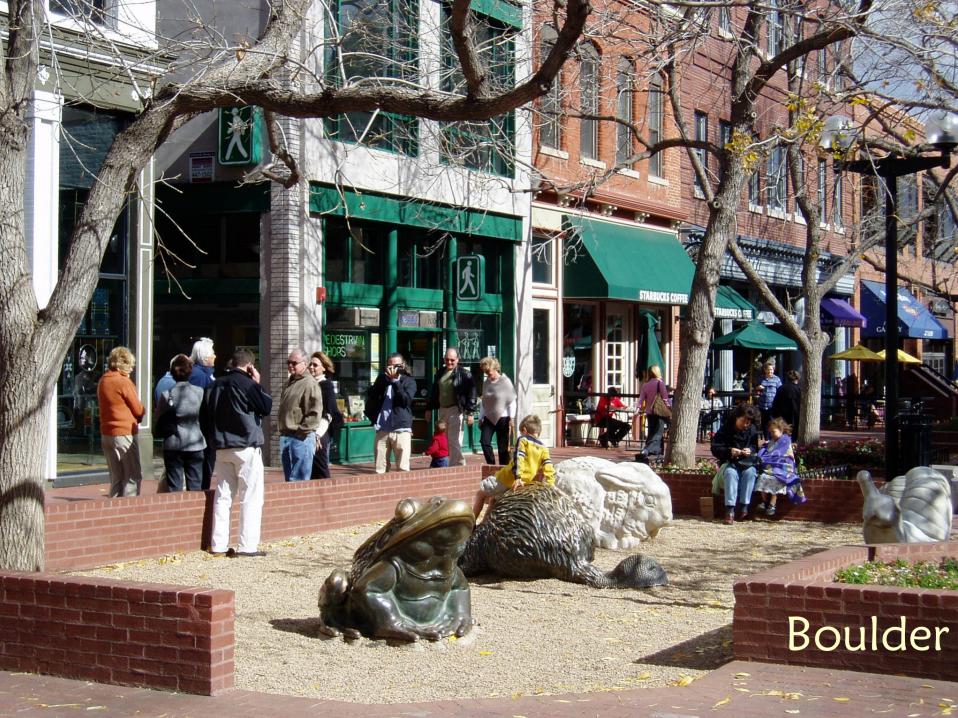
Lahaina

Character of Street Wall











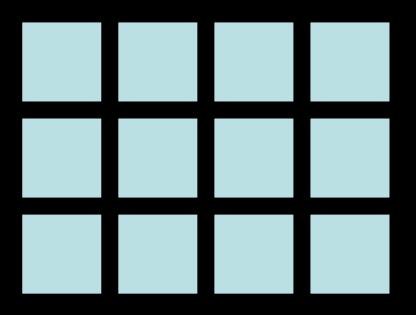
Traffic Buffering



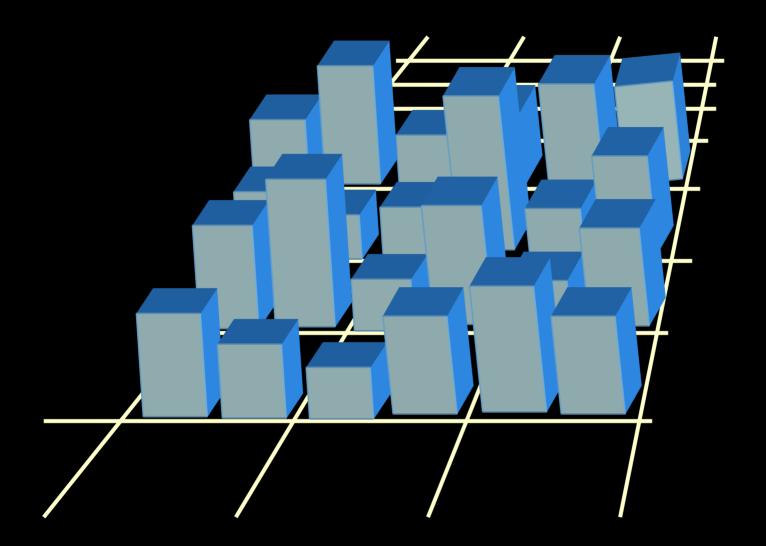


Connectivity (Grain)

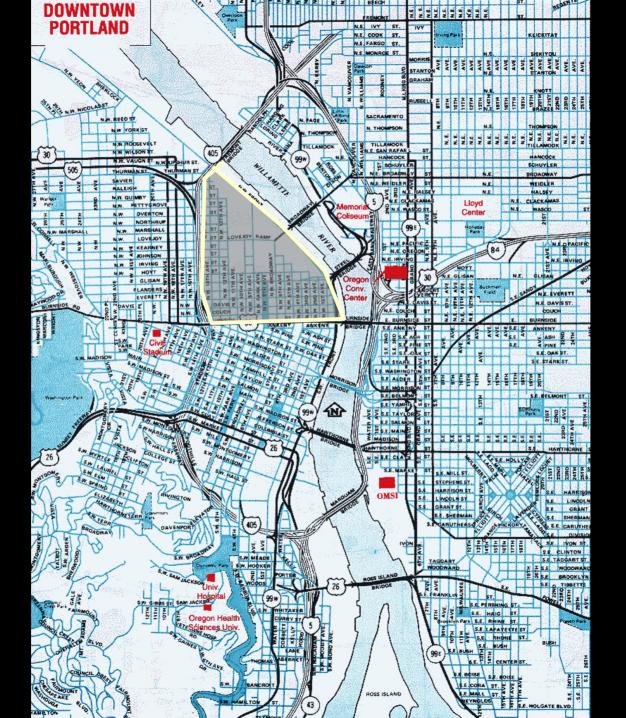
Pedestrian Networks



The ideal pedestrian "grain" is 250' to 350'







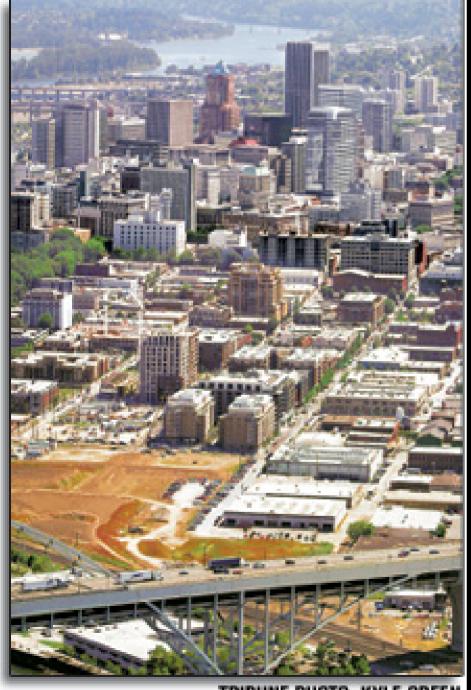












TRIBUNE PHOTO: KYLE GREE

Tribune September 2003 RESTAURANTS 6 Bluehour 250 K.N. 13th Avs. / 226-3394 Guide to Gaffe Allora 504 KW, Kisti Are. / 445-4612 the new (a) Daily Cafe in the Pear 405 1230 N.W. Bujt St. / 241-8800 O Fuller's Coffee Shop 136 K.W. Kith Int. / 222-5688 Giorgio's Restaura Holdein's 524 N.W. 14th Jun. / 916-8099 D Le Bouchen 517 KW, 16th Ivs. / 248-293 Little Wing Cafe 529 N.N. 13th Jps. / 228-318 1 0ba Restaurante 555 N.W. 12th Avs. / 228-6161 Paragon Restauran 1309 N.W. Hoyt St. / 833-5068 1 Park Kitchen 422 N.K. Egith Inc. / 229-7275 Pho Van Bistro 1012 K.W. Ginan St. / 248-2172 Piazza Italia 1729 K.W. Johnson St. / 428-0639 100 Touché Restaurant Baja Fresh Grill 1121 W. Barmide St. / 595-2252 8 Bibo Juice 432 N.W. 11th Are / 226-2955 🚳 Cha Cha Cha Pizza Schmizza 1836 N.W. Ginan St. / 546-8163 Subway 901 K.W. Lenginy St. / 224-5252 Whole Foods Marke WINE & TAVERNS Blue Sky 1221 N.W. Hoyt St. / 225-0210 9 750 ml 222 NN, 725 Av. / 224-1432 Portland Closet Co. 1798 N. 16h Jun. / 726-8687 Bullseye Connection 308 N.N. 13th Jun. / 227-0222 © Rollish 433 N.V. 180 Am. / 227-3779 5 Diamond-Tanita 1022 N.V. Johnson St. / 571-544-1566 The Cultured Pearl 532 N.W. 12th Am. / 226-4362 Quintana 120 K.K. Birth Avr. / 223-1729 721 N.W. 10th Avs. / 546-7377 1005 W. Bernside St. / 228-4651 D Fuel 1338 N.W. Hort St. / 222-6742 Gari 318 N.W. 11th Am. / 971-544-8965 Fifth Element 404 N.W. 10th Int. / 279-9042 8 K Josefsberg Studie 403 KW, 17th Ave. / 241-9112 4 Jimmy Mak's 300 KN, 10th Avs. / 295-6542 ANTIQUES AND 1 Souri's 768 N.W. 11th Am. / 224-5401 6 Gold Leaf Fine Jewelry 634 K.W. 12th Inc. / 224-7349 HOME DÉCOR Sur la Table 1182 K.W. Gooth St. / 295-9679 6 Gallery 33 1400 R.W. Exercit St. / 219-9900 8 Yoshida's Fine Art 206 K.H. 10th Art. / 227-3911 Dig Gardons 425 N.E. 11th Art. / 223-4443

Yoshida's Bistro 206 KN. 10th Art. / 223-9463 AND BAKERIES

Rogue Ales Pub
 T339 N.N. Fanders St. / 222-5910

Vigne Wine Bar 417 N.W. 10th Inv. / 995-9535

Boyds Coffee 414 N.W. 11th Ave. / 226-2590

Peet's Coffee & Tea 1114 E.K. Couch St. / 971-244-9452 Starbucks 1134 K.W. Gisan St. / 221-7426 1182 K.W. Leejey St. / 227-2224

O Cargo 734 K.W. 14th Inc. / 209-8349 Christiane Millinger Oriental Rugs 208 K.W. 13th Int. / 274-4440

> Circa A.D. 1204 N.W. Glisut St. / 221-1269

> Bella Casa 536 K.W. 14th Ins. / 222-5337

Cielo Home & Garden 528 K.W. 12th Inc. / 445-8111

© Gallery Zen 525 N.K. 18th Avr. / 221-3184 Hunt & Gather 1302 K.W. Hest St. / 227-3400

Moberg Fireplaces 223 N.W. Birth Art. / 227-0547

East West Fusion 408 N.W. 11th Jun. / 248-680

© The Whole 9 Yards 1033 N.W. Gisan St. / 223-2880 (2) LaZhu-Pacific Traders 221 KM, 110 Au, / 241-9914

© Sweetwater Farm 1317 K.K. Heyt St. / 227-4947

(5) Ten Thousand Villa

914 N.W. Furnitt St. / 931-8839 Versailles in the Pearl 904 N.N. Hoyt St. / 222-2387

> GALLERIES Blackfish
> 420 K.K. Nirth Inc. / 224-2634

Benny Penny 465 K.K. 10th Jun. / 222-7676

717 N.N. 17th Inc. / 227-3437

00 Monique's Boutique 429 K.V. 10th Jan. / 294-0094

10 Patagonia 907 N.H. Irving St. / 525-2552

(1) Physical Flement

1724 N.W. Lovejoy St. / 224-5425

(8) Widney Moore Gallery 202 K.W. 18th Jun. / 229-4278

(9) Judith Arnell Jeweler

The Lawrence 903 N.N. Bais St. / 228-1776 3 Daisy Kingdom 134 K.W. Egith Avs. / 222-9633 Mailroom 512 K.W. Kirth Ave. / 295-1268 69 POX Contemporary Art 604 N.N. 12th Am. / 222-0063

9 Harvey & Steve's 538 N.N. 12th Avr. / 226-4262

Danice Griffin Gallery 1301 N.W. 12th Avr. / 241-8313

Lara Sydney 1230 K.W. Heyt St. / 229-4923

428 N.W. 11th Ave. / 254-2552 3 Oblation Papers & Press 516 N.W. 12th Ave. / 223-1093 6 Peter's Office Supply 338 K.K. Kirth Avr. / 226-1490 9 Pearl 221 K.W. 18th Ave. / 242-4994, cst. 4

® R.W. Furst & Sons

O MISCELLANEOUS

1 BASCO (Builder's Appliance Supply Co.) MII N.V. Davis St. / 225-8029

PARKS North Park Square. Powell's City of Books 1865 W. Barnside St. / 228-4651

(16) Sheepskin of Ore 1218 N.W. Glass St. / 242-007

10 Shorman Gray P 12) SmithCFI 135 N.H. Park Inc. / 226-4151

Werdum Fine Choco & Gifts 421 K.W. 10th Jun. / 525-5400

13) Videorama 138 I.W. Loniny St. / 796-7825

Wisage Eyewear 1946 E.E. Johnson St. / 944-547

RESIDENTIAL

Pearl Lofts, Northw 10th fax. and Hayl St., 17 condominiums, completed 1994

O Irving Street Lofts 12th lau. and Irving St., 15 condes, 1995

Hoyt Commons K.W. 72th Jrn. and Hayt St., 48 cander, 1995

Chown Pellia L.W. 13th livs. and Glisan St. 68 condes, 1996

1 Irving Street

Pearl Court 920 K.W. Kearney St., 199 restals, 199

Riverstone Condos 829 N.W. 12th Svs., 121 condos, 195

North Park Lofts 300 N.W. Eighth Ava., 67 condox, 2001 Johnson Street

Townhouses K.W. 11th Ave. and Johnson St., 13 temperature 2000 Park Northwest Northwest Park Are, and Fanders S 18 condes, 2000

Tanner Place Condo

The Gregory 1120 K.W. Glass St., 145 codes, 200 C Lovejoy Station

Streetcar Lofts
1030 I.W. 12th Inc., 139 candos, 2003

Bridgeport Condos Coming soon

Park Place Condos 922 N.W. 11th Ave., 135 contes, 200

@ The Edge 805 K.W. 14th livs., 125 candos, 2004

The Elizabeth K.W. North Ave. and Escrett St., 174 condes, 2005

Pinnacle K.K. 18th and Northrup St., 175 conder

Station Place K.W. North Ave. and Levejoy St., 176 rustals, 2004

Burlington Apartments 900 K.W. Longiny St., 163 rentals, 2005

Weather Protection (sun, rain)



Land Use Mix

MANA



What is Auto Dominated?

Evaluation Tools





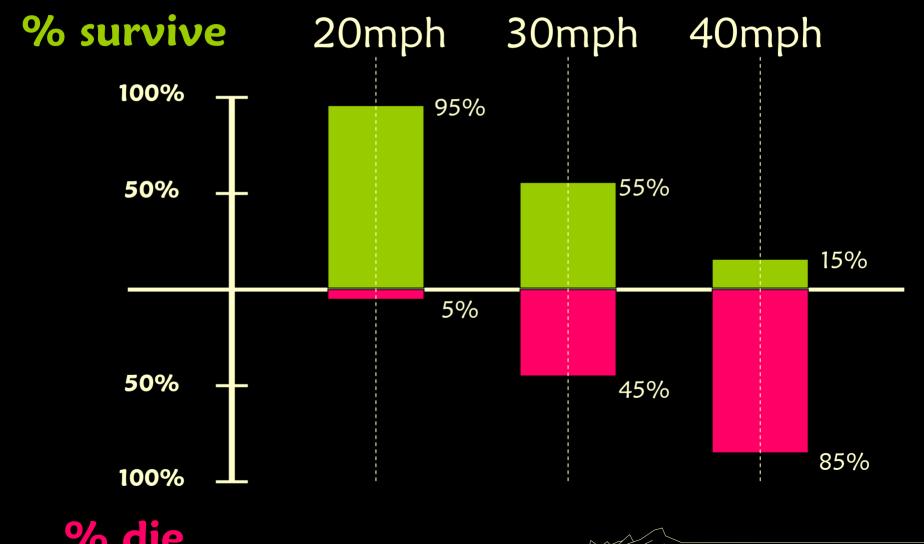
Factors: "Auto Dominated"

- Vehicle speeds
- Roadway width
- Presence or absence of buffers
- Ratio of ped space to auto space





Pedestrian Survival Rates – Vehicle Speeds

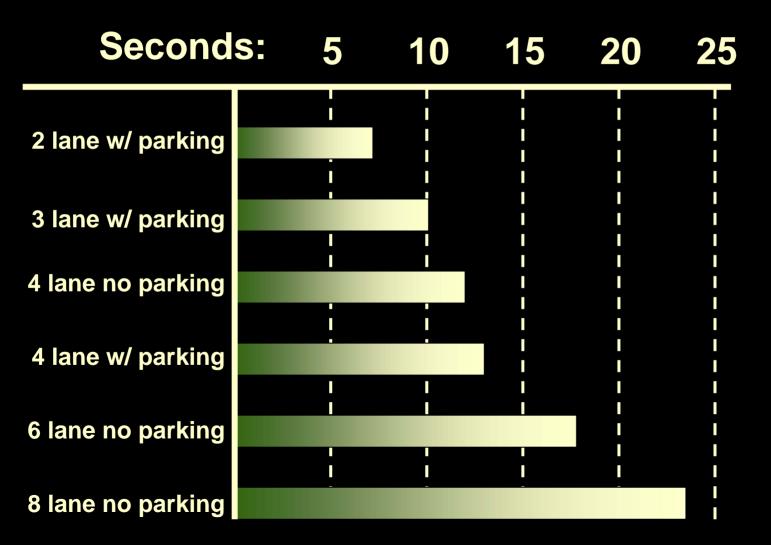


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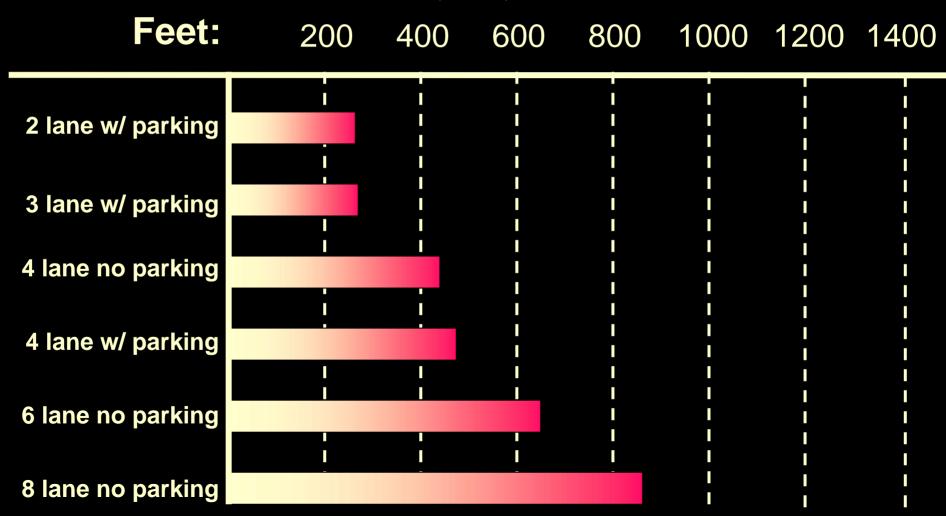
Driggs

Curb Extensions: YES

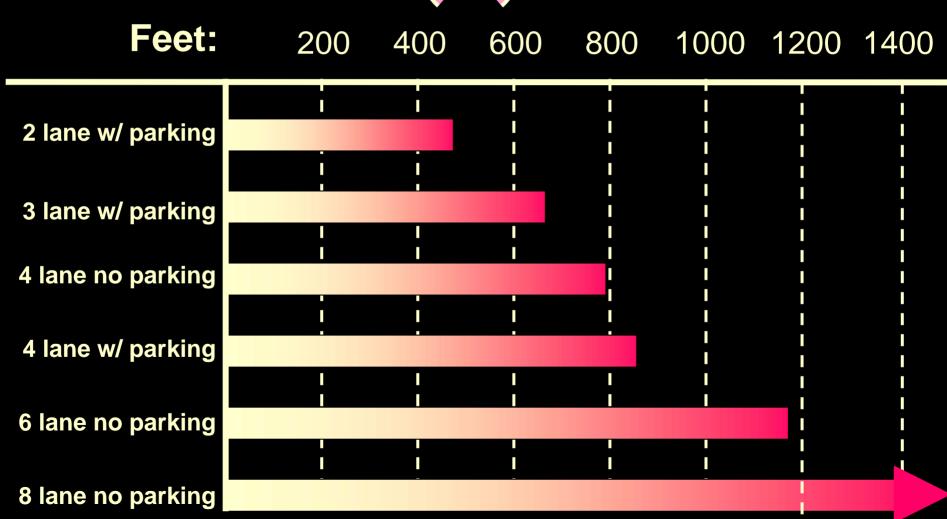
Lane Width: 12 ft | Walk Speed: 250 fpm













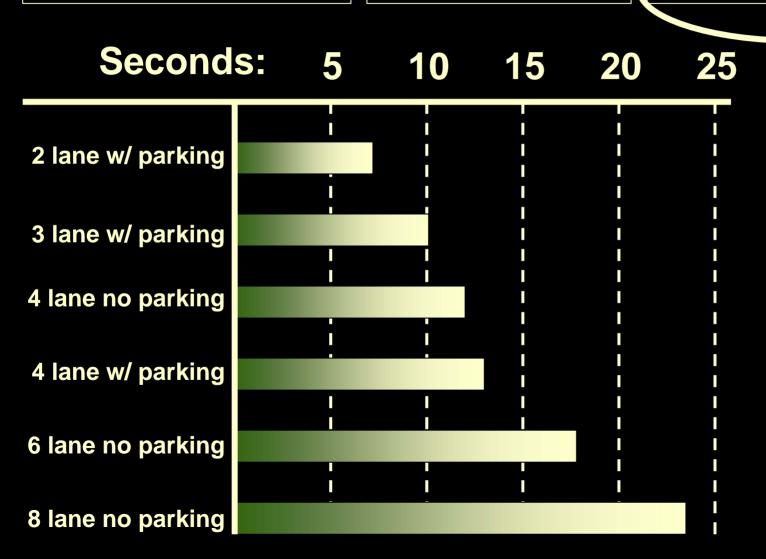






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Lane Width: 12 ft Walk Speed: 250 fpm

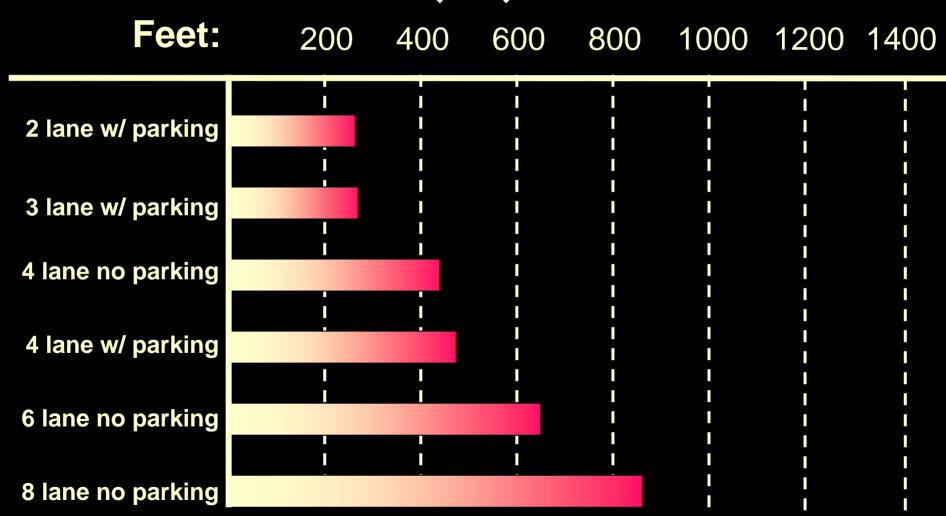




Walk Speed: 250 fpm



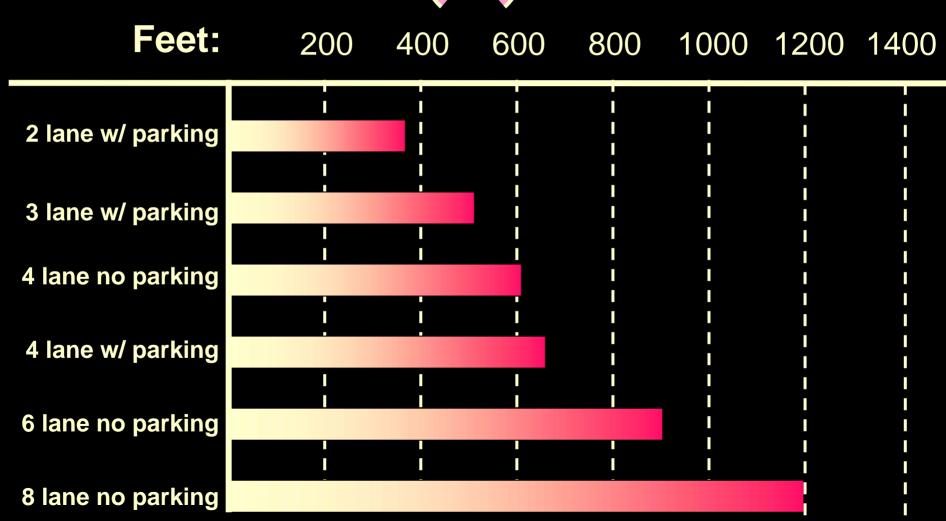
25 mph



Walk Speed: 180 fpm

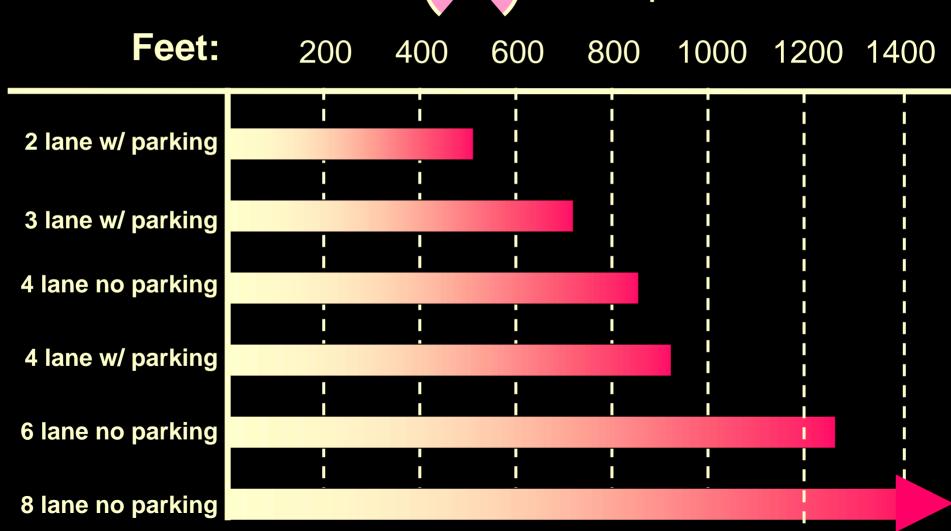


25 mph



Walk Speed: 180 fpm





Criteria: Auto Dominated

- Vehicle speeds
 25 mph
- Roadway width
 42 ft
- Buffers
 Yes
- Ratio ped space: street 1 to 1.5



Criteria: Auto Dominated

Vehicle speeds 45 mph

Roadway width
72 ft

Buffers
No

Ratio ped space : street 1 to 5







Setting Priorities

Evaluation Tools

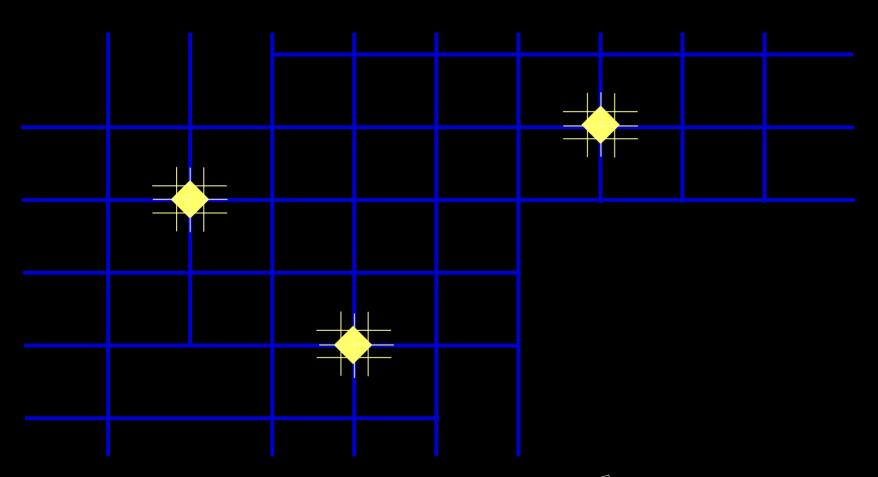
MAN



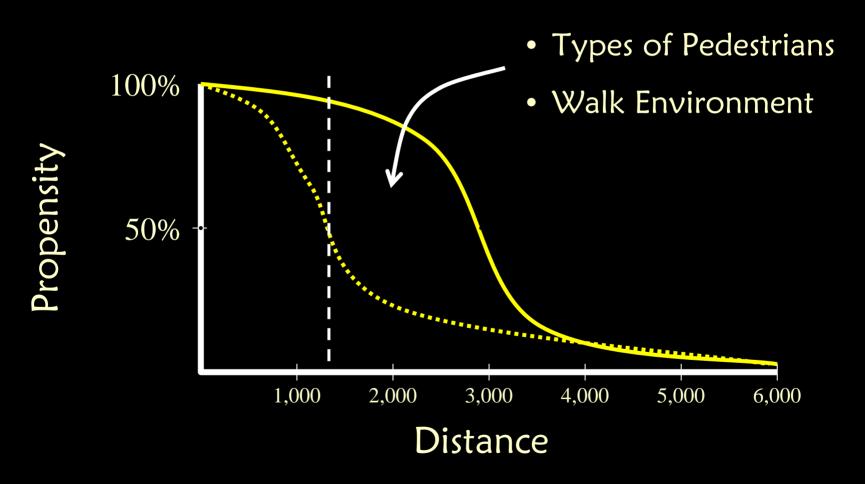




Real-World Pedestrian Structure (Nodes and Corridors)



Pedestrian Walk Distance









Thank You