

Designing Complete Streets

- Making room for Complete Streets
- > Rethinking the role of Streets



Do we have to widen roads to fit everything?

ONCE YOUR





There's room; it needs to be recaptured



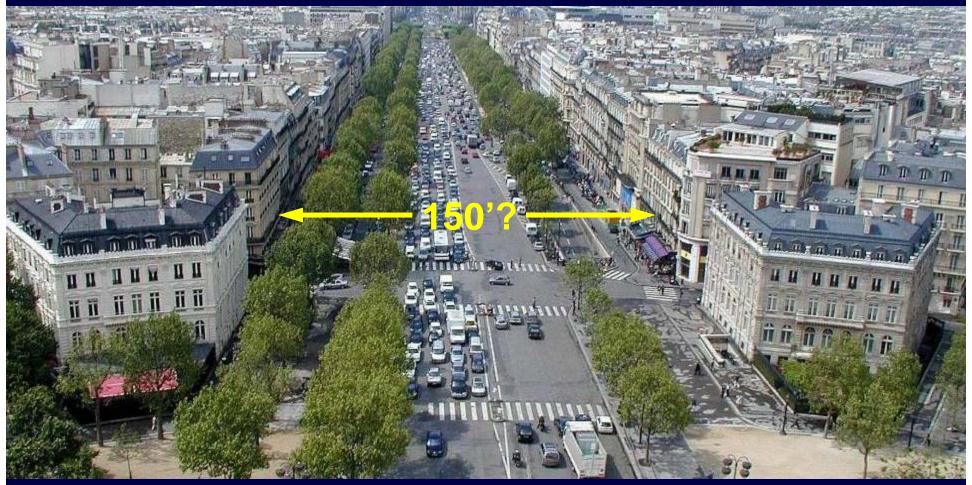


Does it fit within the available right-of-way?





Does it fit within the available right-of-way?



Don't ask "How much ROW do we have?" but "What do we want, and how do we design it?"



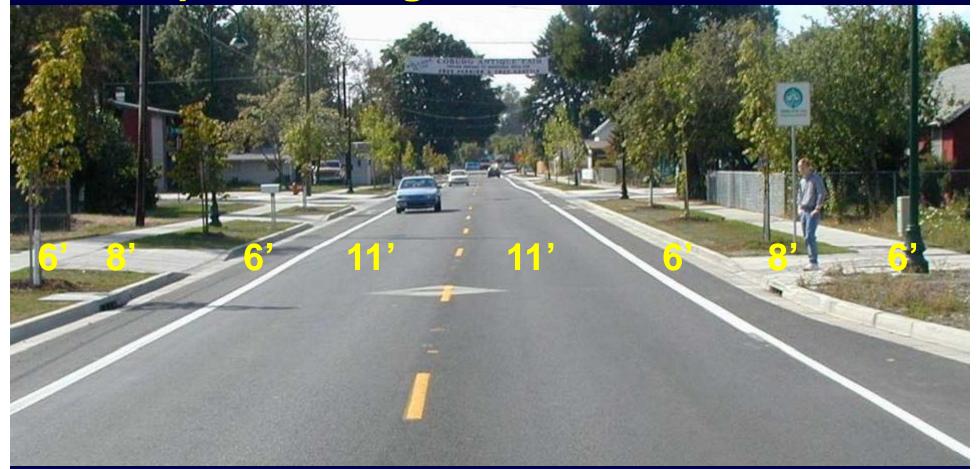
Conventional design – from the inside out



Add up (wide) travel lane, run out of ROW Result: one narrow curbside sidewalk

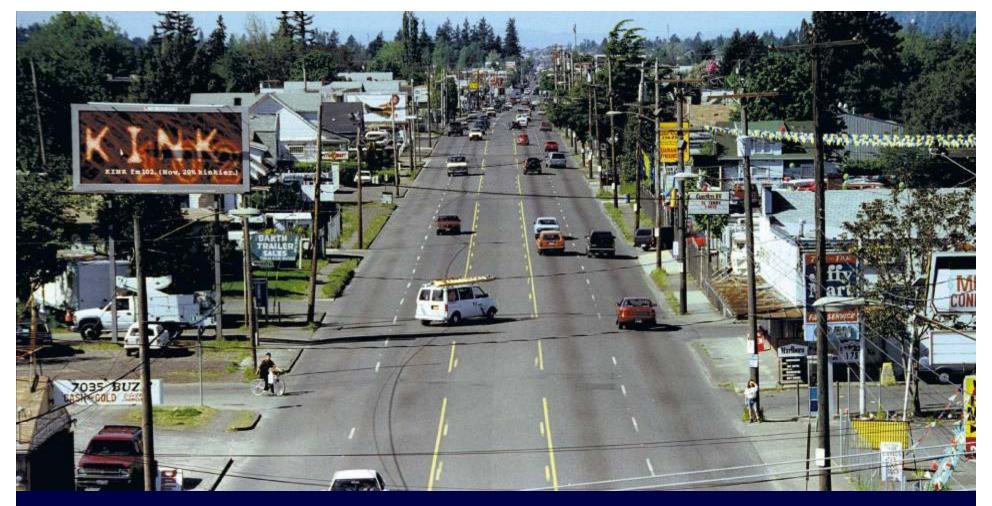


Proposed design – from the outside in



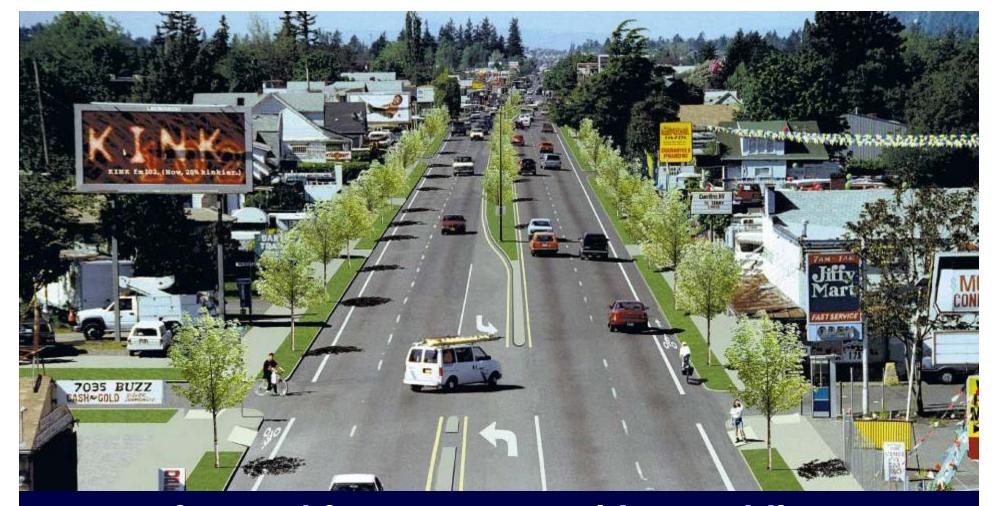
Add up desirable elements, fit in ROW; result: nice sidewalks, bike lanes, adequate travel lanes





Reinventing a roadway: Transform a 5-lane commercial strip to ...



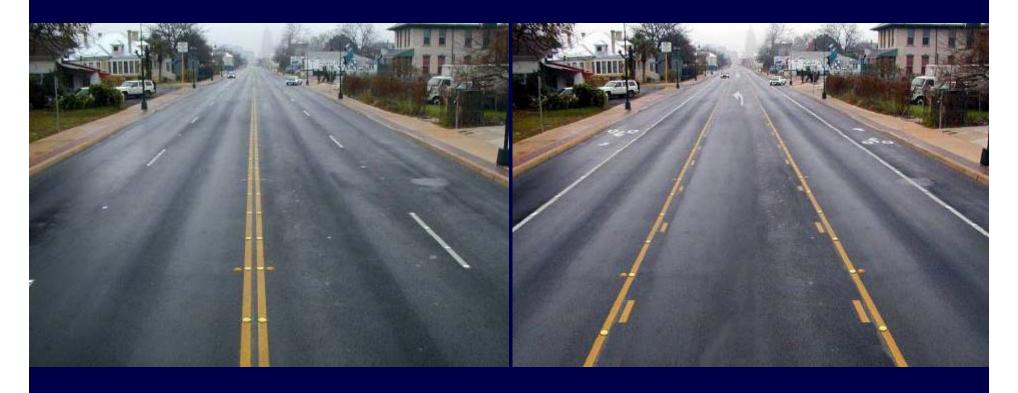


...a safer road for everyone, without adding r.o.w.

How? Narrow travel lanes



How to make room: Road Diets



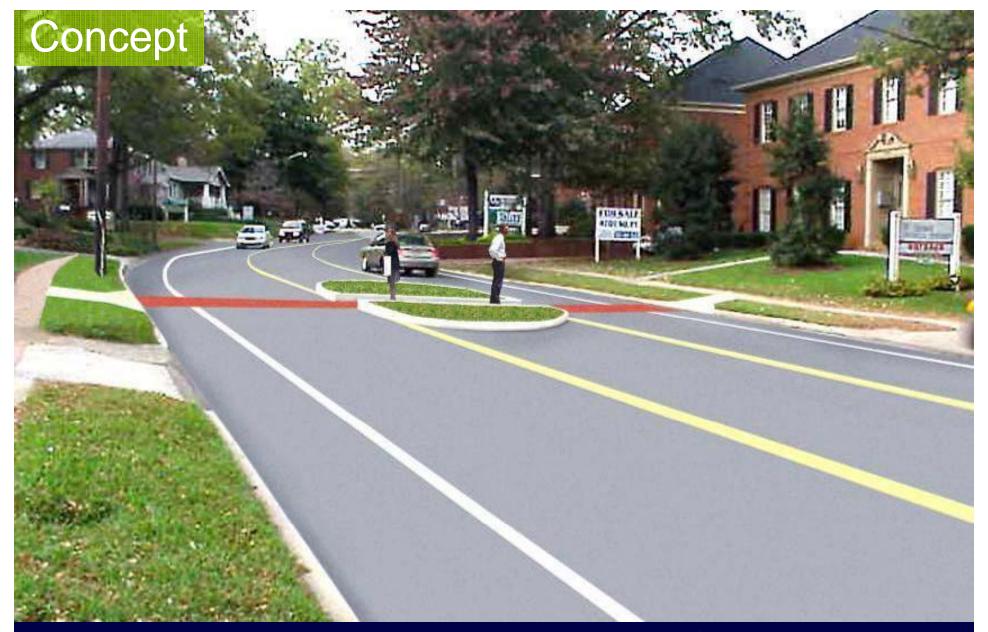
Convert 4-Lane Road to 3-Lane and TWLTL

29% crash reduction





Reclaiming road space creates room for ped islands



Reclaiming road space creates room for ped islands

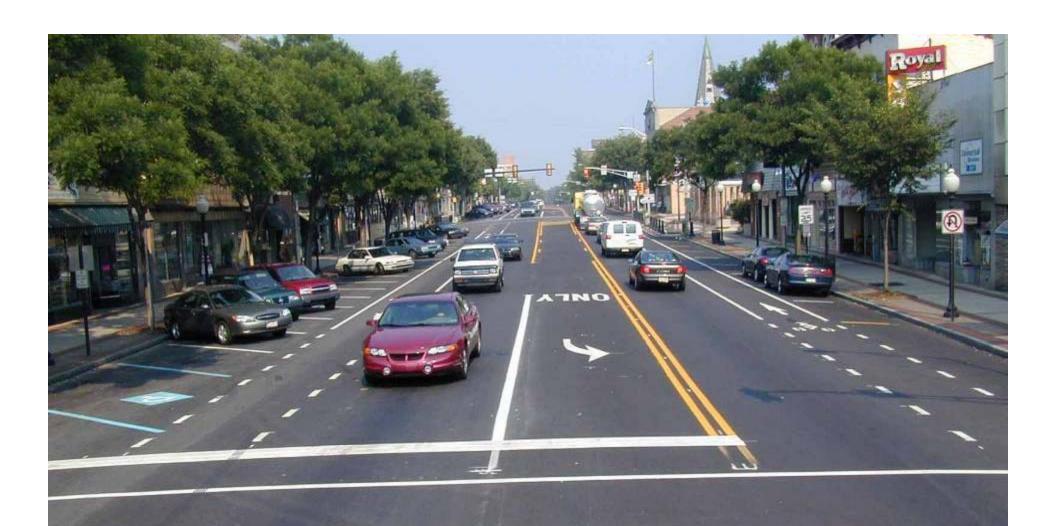


Reclaiming road space creates room for ped islands

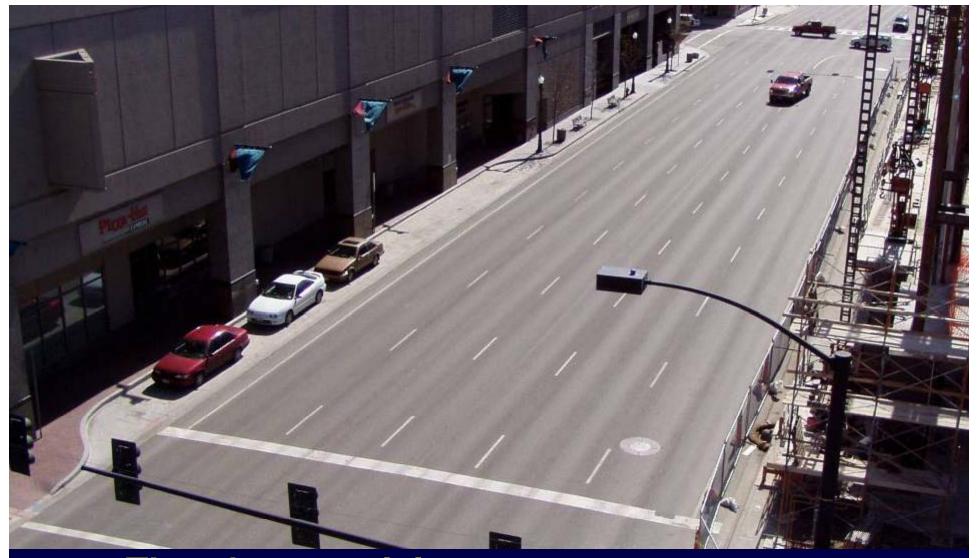


This 5-lane Main Street was converted to...





Fewer travel lanes; added bike lanes; parallel to back-in diagonal parking on one side; new pavement



There's potential on one-way streets too: Is this street operating at capacity?





This area was recaptured from a 4th travel lane; the street took on a whole new life

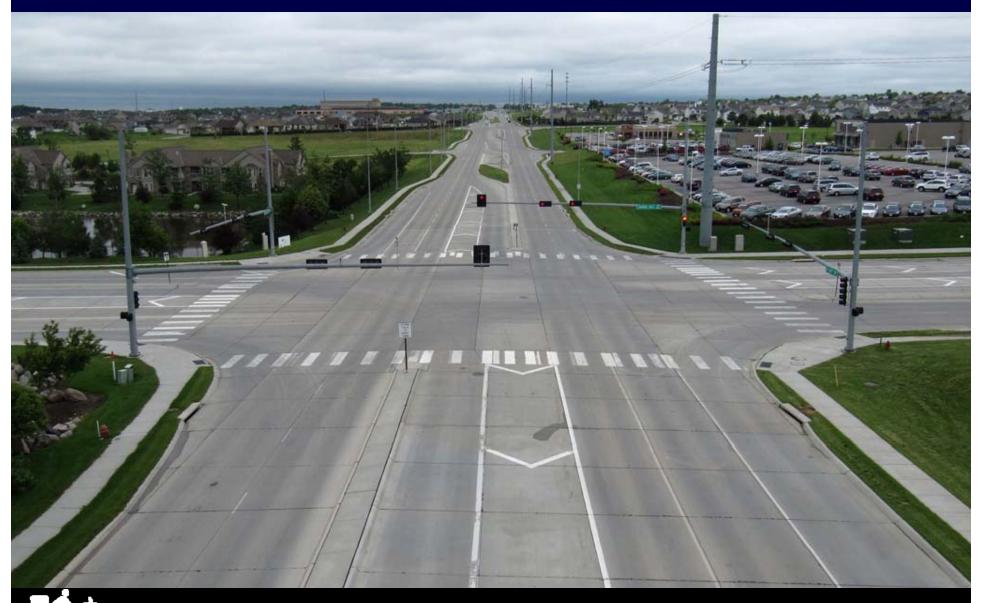








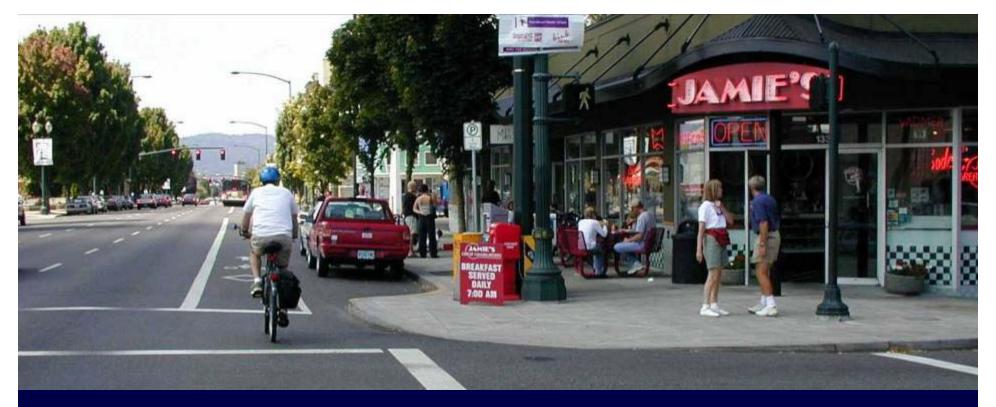








Rethinking The Role of Urban Streets



A "complete street" accommodates many uses and provides for all purposes of a street:

- **➤ Mobility (all modes)**
- Access to destinations
- > Thriving businesses
- **Beauty**

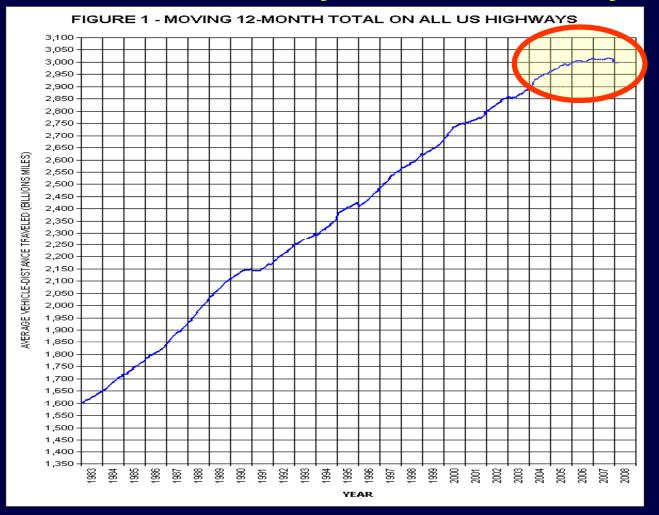
Wide roads and motor vehicle LOS

- Designing to LOS C or higher is waste of \$\$
 - Allocate space for all users, accept resulting vehicle LOS
- What about ped, bike and transit LOS?
- > Shorter ped crossing increases vehicular LOS at signals





Will traffic volumes always increase? Maybe not



Since 2005 US VMT has been flat, now starting to decrease



Wide road increase motor vehicle speed

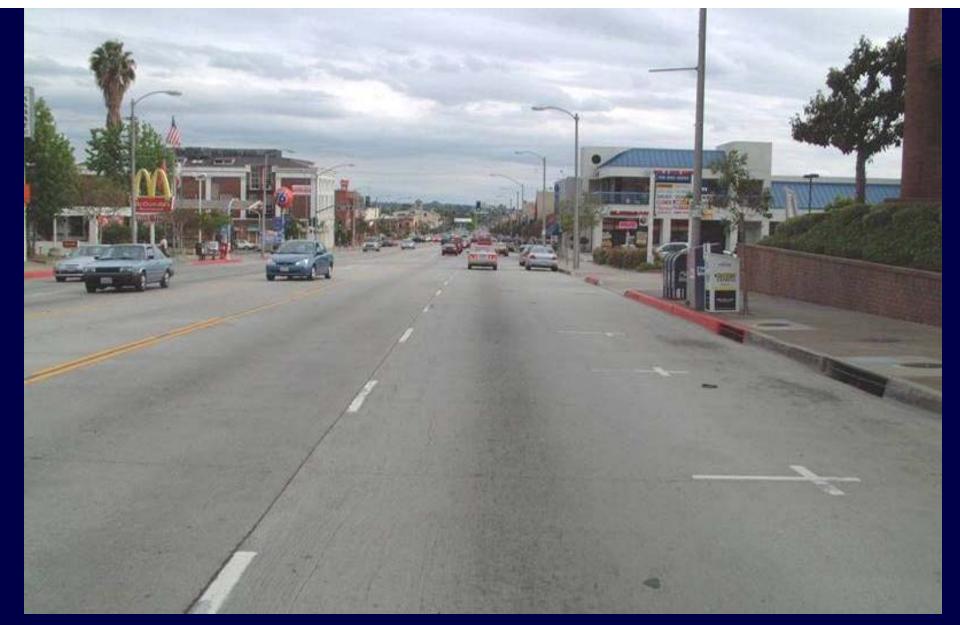
- > Speed increases crash severity for all users
- Over 35 MPH reduces roadway capacity



Speed Matters







Transforming a street





Narrow lanes; add bike lanes, median, trees, texture



Bring in buildings that face the street





More buildings: Infill





The street now has life and is safer for all users

