

Transportation Livability in the West PlaceMatters 2006

Jacob Riger, AICP



Overview

- Existing context: What trends are impacting the West?
- What's wrong with traditional planning
- > Transportation livability principles
- One solution: importance of connectivity



The West

WEATHER

LANDSCAPE

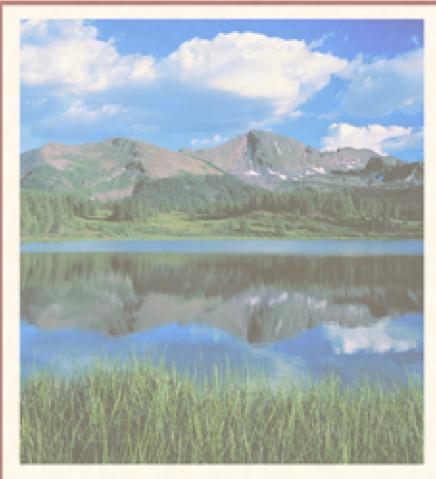
ECONOMICS

LIFESTYLE

The Changing West







Che 2006 STATE OF THE ROCKIES REPORT CARD

> An Ownsels Activity of COLORADO COLLECT: VISION 2010

Change: Major Trends

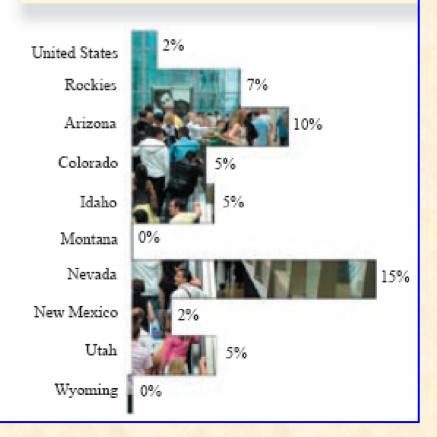
23

24

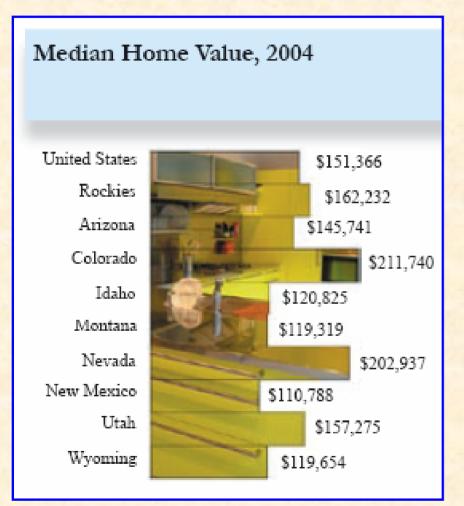
Minutes of Mean Travel Time to Work, 2004

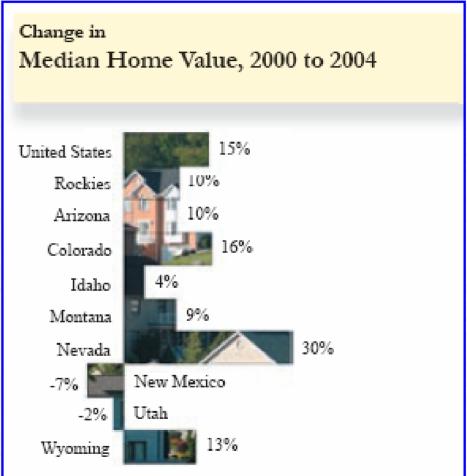
United States
Rockies
Arizona
Colorado
Idaho
Montana
Nevada
New Mexico
Utah
Wyoming

Population Growth, 2000 to 2004

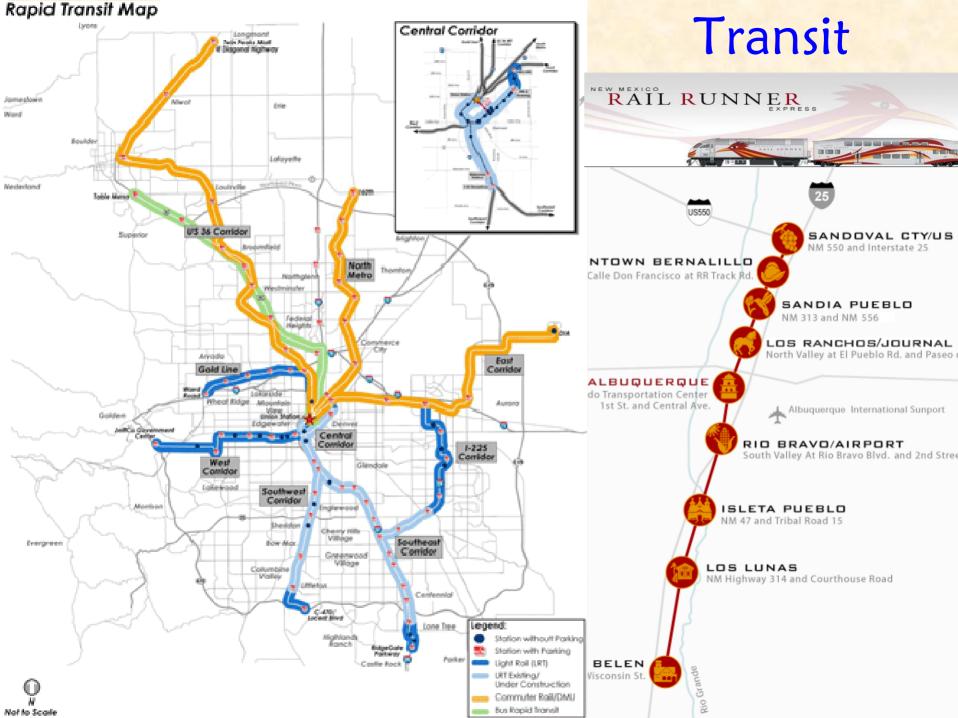


Change: More Trends





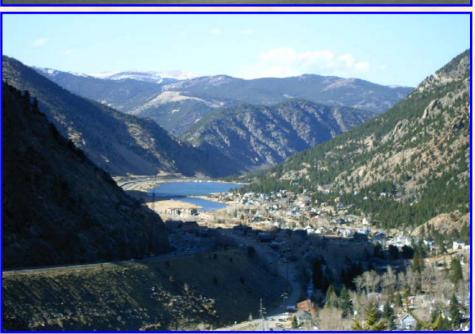




Small Towns and Rural Areas

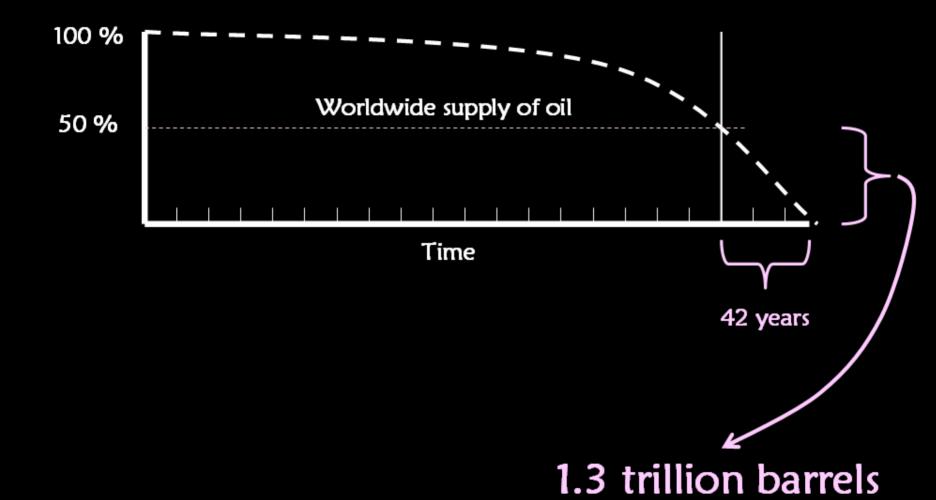
- Cyclical economies
- Development pressure
- Ski/resort towns
 - Escalating housing prices, second homes
 - Service workers marginalized
 - Travel, mobility impacts
- Lack of good roadway networks, transit
- Rural areas struggling
- Other considerations: natural resources extraction, water





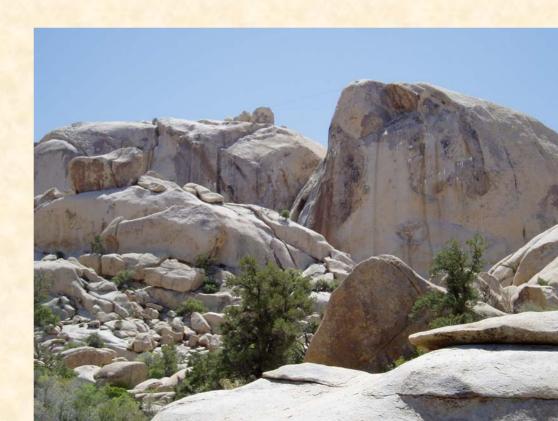
Are we running out of gas?





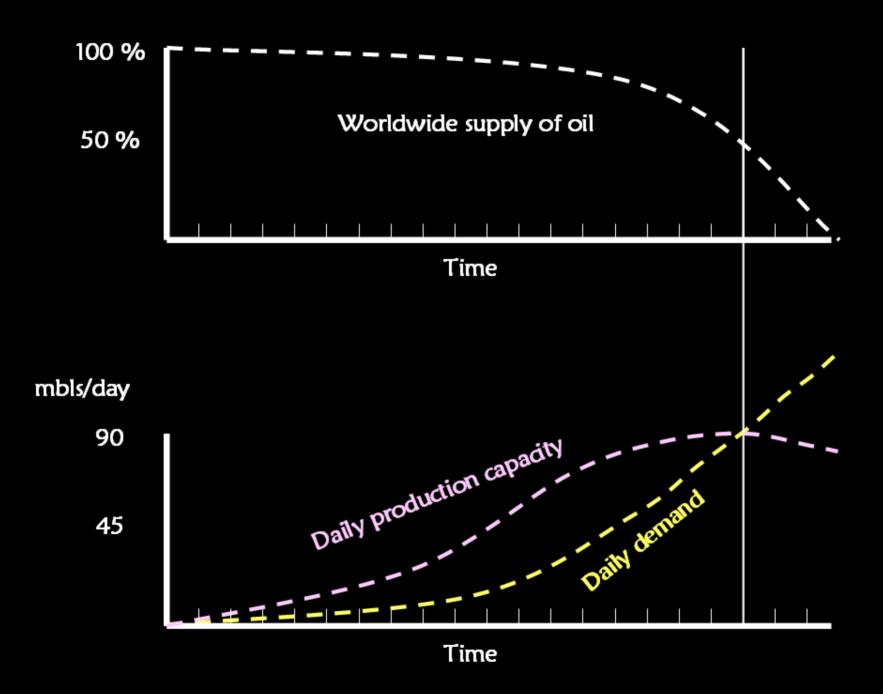
The stone age did not end...

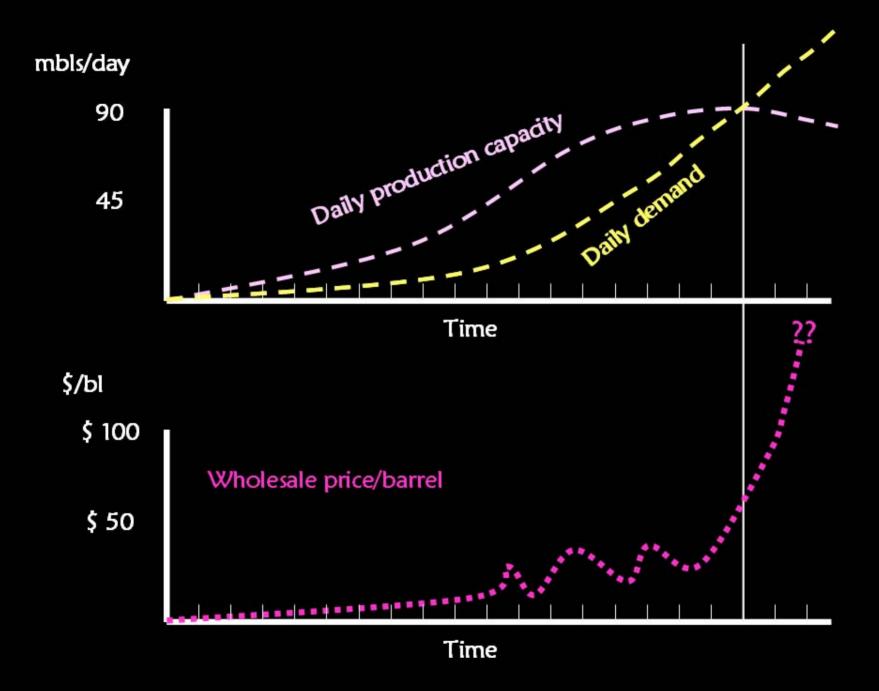
...because we ran out of stones



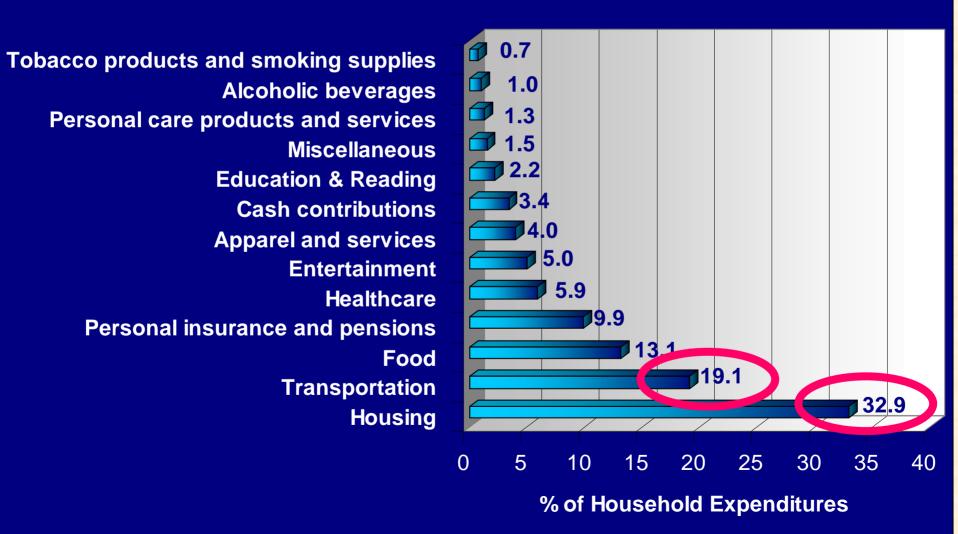
The end of the age of...

...cheap oil





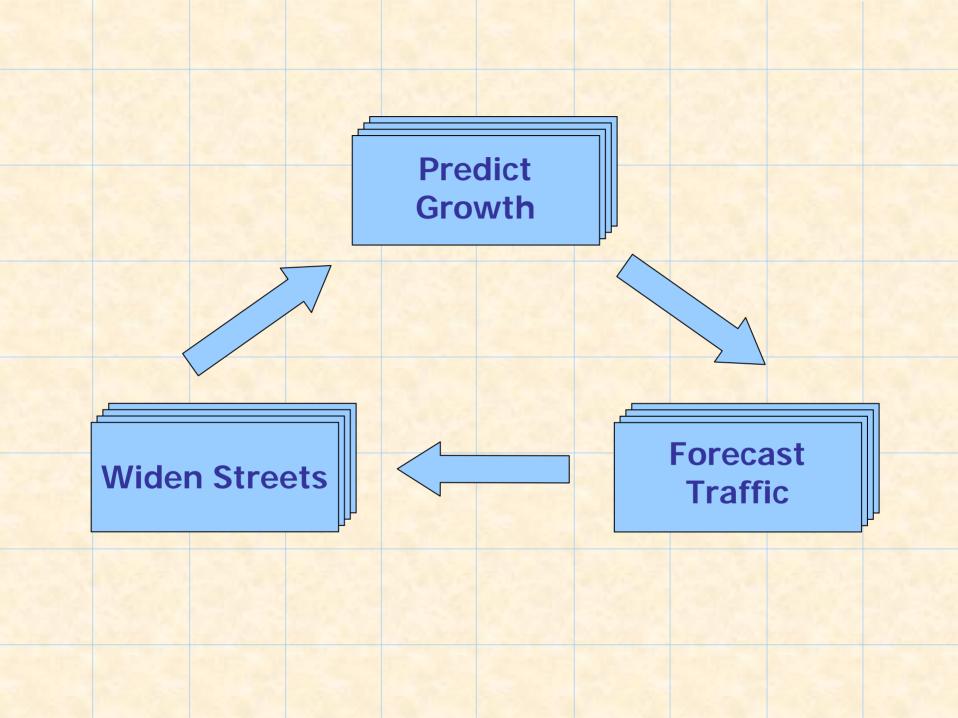
U.S Household Expenditures

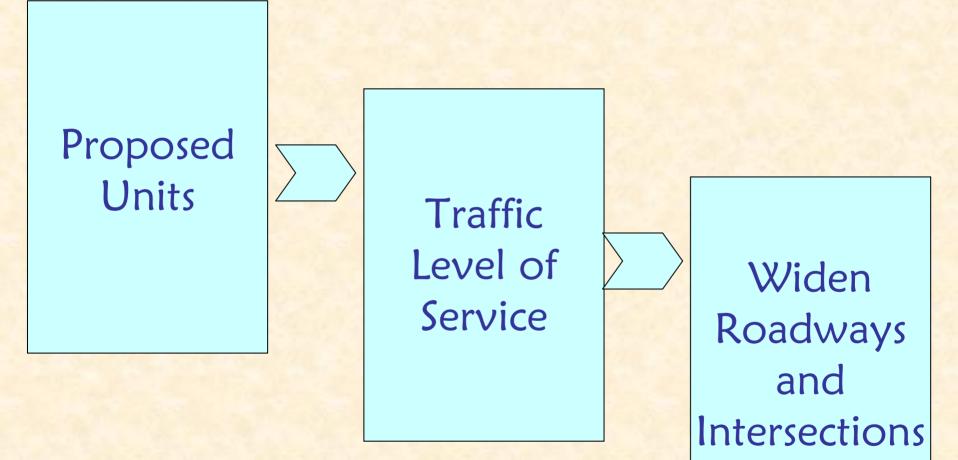


One less car: - \$4,000/yr. (net about \$3,500)*

At least \$50,000 in additional mortgage capacity

^{*} assumes 2nd or 3rd car for household









Sustainability

- Economy
- Families
- Community character



10 Principles

- 1. Balanced Mobility
- 2. Dense Street Networks Connectivity
- 3. Scale & Character of Streets
- 4. Limited Value of Traffic Demand Forecasts
- 5. Public Transit = Choice, Not Congestion Relief
- 6. Walking & Biking = Major Markets
- 7. Multimodal = Multimodal Streets
- 8. Sustainable = Flexible
- 9. Public Empowerment
- 10. Accountability, Monitoring & Reporting

A well-connected network of small streets is safer and provides more capacity and mobility than a limited network of wide streets.

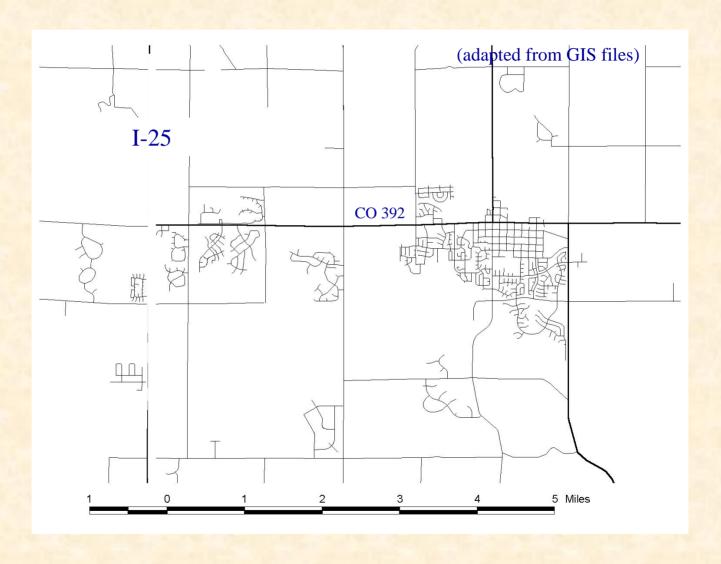
The inexorable widening of arterials represents a bad investment. Freeways have a role to play; multi-lane arterials (more than four general purpose lanes) normally do not.

Good circulation and access are more important to communities than travel capacity. Basing street design on traffic demand forecasts is self-fulfilling and self-defeating.

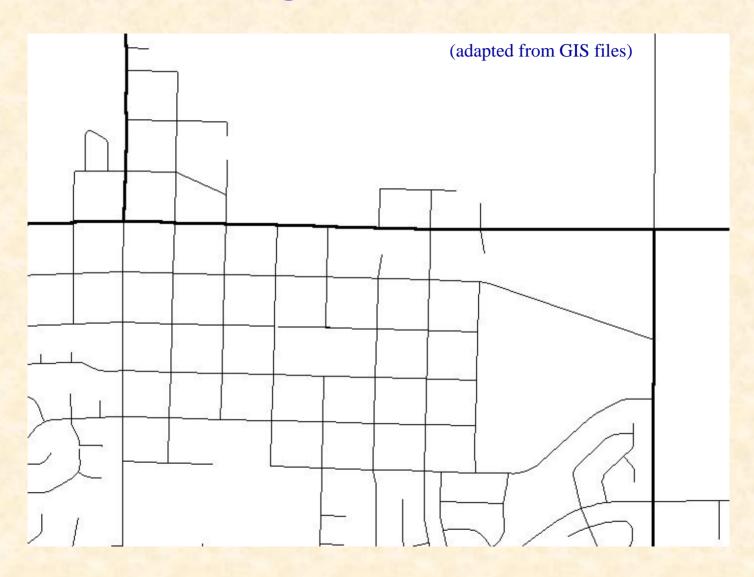




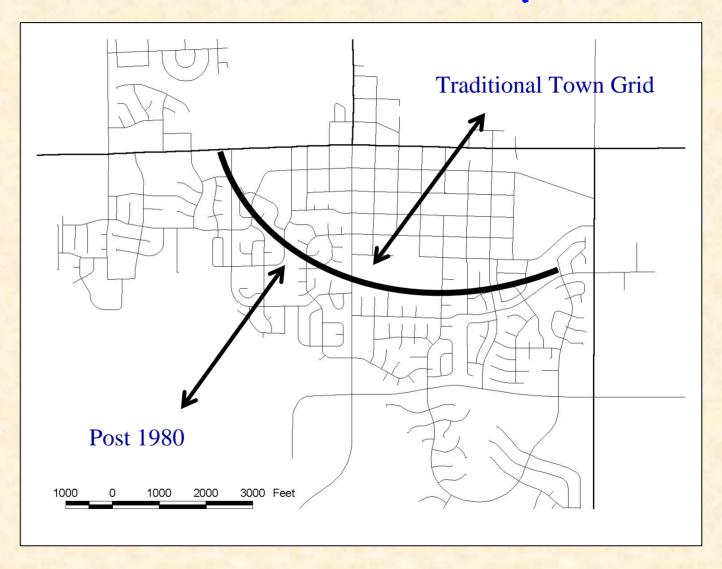
A Colorado Community



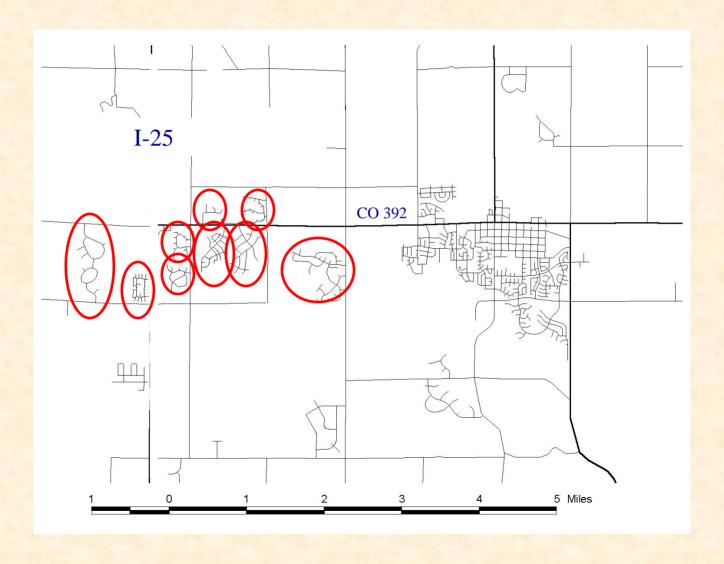
The Original Town



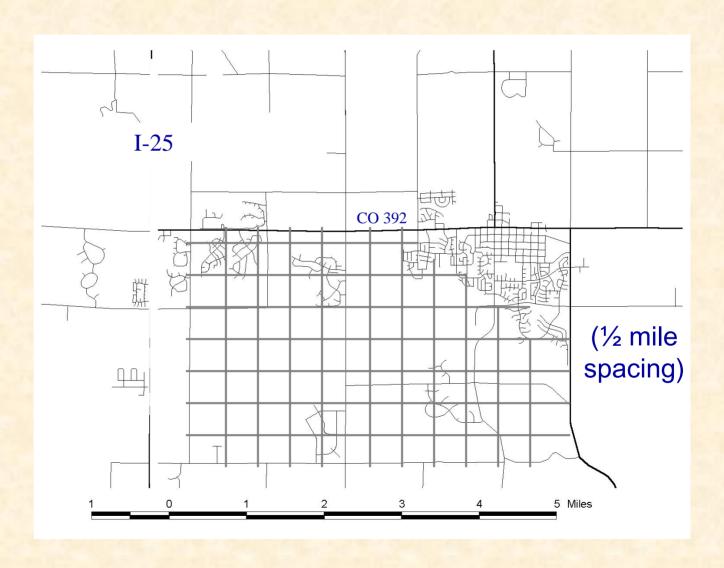
First Tier - New Development



1990s Invasion of the "Pods"

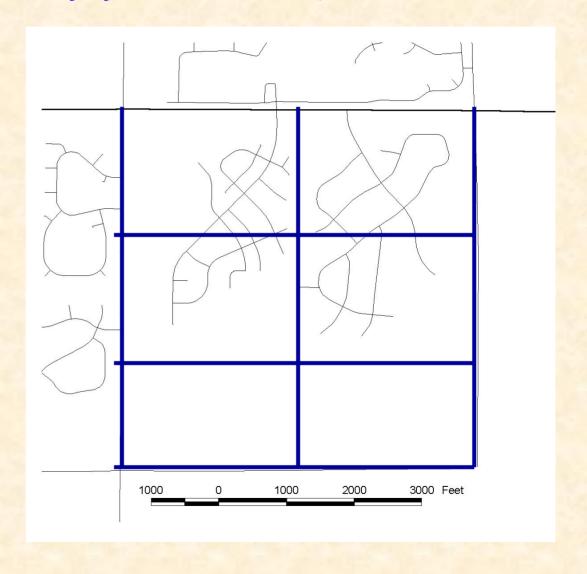


A 40-Year Look: Collectors



Lost Opportunity

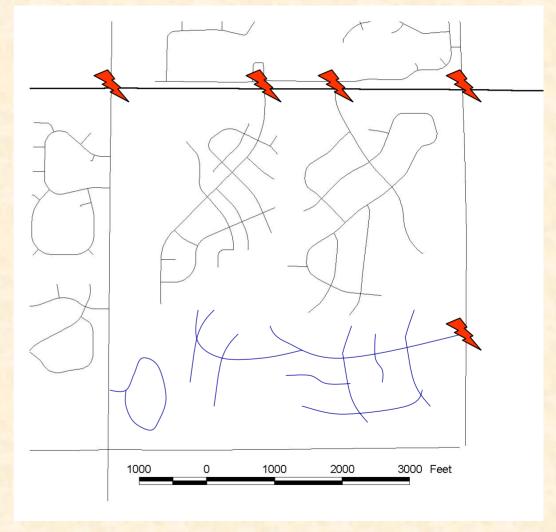
Because pods take access from the arterial highway, collectors are no longer feasible.



Build Out

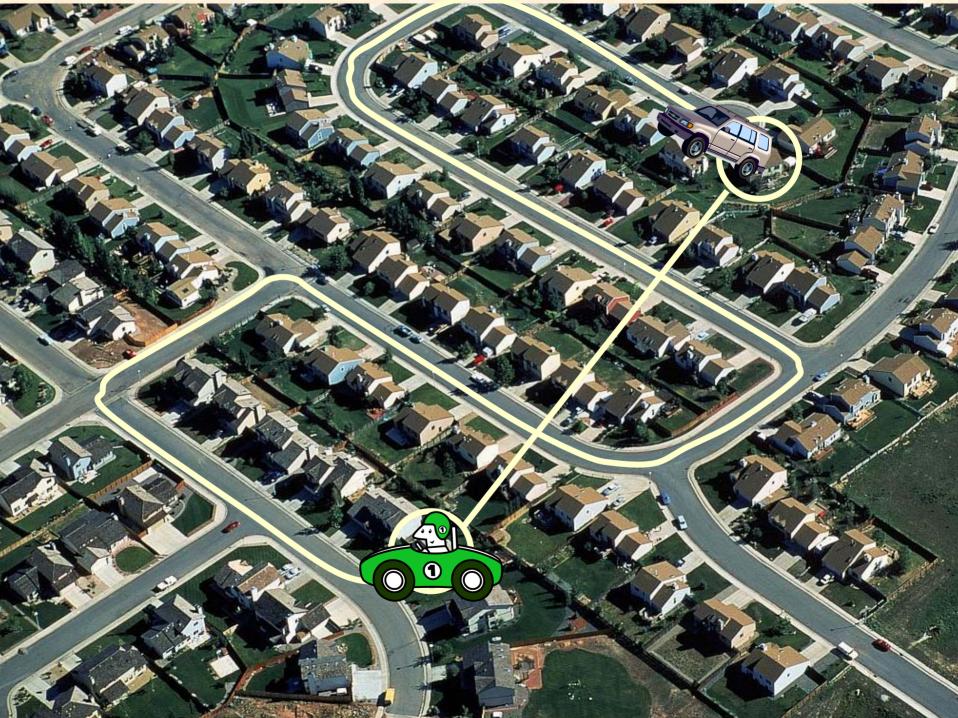
What will actually happen . . .





Impacts of Poor Connectivity

- Massive, congested arterials
- Increased driving/household
- > Transit voids
- Inactive living
- Poor emergency service access
- Reduced travel safety



Connectivity Standards

Measure	Standard	Notes
Connectivity	1.4 minimum	Links/nodes - excludes links on perimeter highways
Intersections/Square Mile	250 minimum	Including perimeter intersections
Block perimeter	1,400 ft. Maximum	Measured at street centerline
Block Length	500 ft. Maximum	
Emergency Access	10% Maximum	% of parcels that are inaccessible if one street is blocked
Proximity	65%	% of DUs within ¼ mile of village nodes

<u>Roadway network connectivity</u>. Connected networks reduce congestion and improve safety. They reduce daily miles of vehicular travel per household and improve emergency vehicle response time. It is possible to set standards for connectivity. Some examples include:

- o LEED ND. Max block perimeter 1,800' and min 300 intersections/square mile.
- o Portland and Metro, Oregon. Max local intersection spacing of 530'.
- o Fort Collins, Colorado. Max block size of 7 12 acres, depending on zoning.
- Orlando, Florida. Connectivity index = 1.4 minimum.

These and other examples are described in: <u>Planning for Street Connectivity</u>, published by and available from the American Planning Association. PAS 515. 2003.

Benefits of Connectivity

- Safety: pedestrians, children, emergency response, evacuation
- Travel: better mobility and mode balance, more efficient traffic flow
- Community character: supports good urban design, preserves neighborhoods, alternative to wide roads
- Cost: lower cost, easier to implement than major capacity projects

Summary

- > Many types of pressures on Western towns
- Transportation is currently focused on building facilities instead of communities
- "Livable transportation" contributes to sustainable communities
- > Several strategies in toolbox
- Connectivity is one of the best and most important, especially for smaller towns



Transportation Livability in the West PlaceMatters 2006

Thank You