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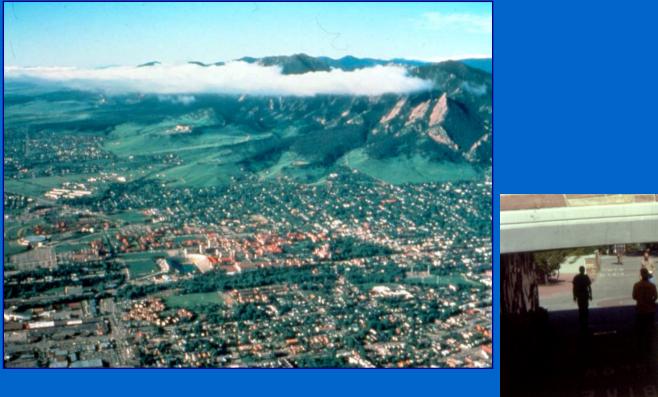
TDM in Boulder: a town-gown partnership

The University of Colorado Boulder, Colorado, USA

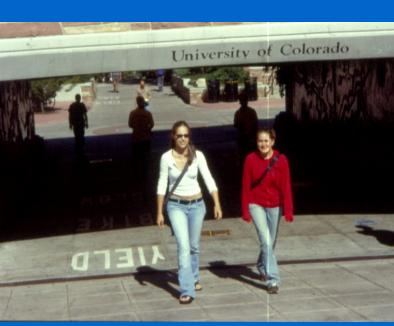
Credits

Many images in this slide show come from the City of Boulder Transportation Department
Charlier Associates and LSA Associates provided analysis and modeling
A number of slides come from the Boulder TMP Update
One slide comes from CU TMP existing conditions report
Thanks to Peter Roper for layout

Boulder and the University of Colorado



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Boulder's approach

- Traditional road-building focus until 1990
- Fiscal, political, and physical reality intervened!
- 1996 Transportation Master Plan
- Goal: Hold traffic to 1994 levels; reduce SOV mode share to 25%

Focus on travel choices

- Transit service
- Create <u>demand</u> for transit
- Bike system
- Pedestrian system
- Marketing and Information
- Land Use/Urban Design
- Parking pricing
- Partnership with University of Colorado



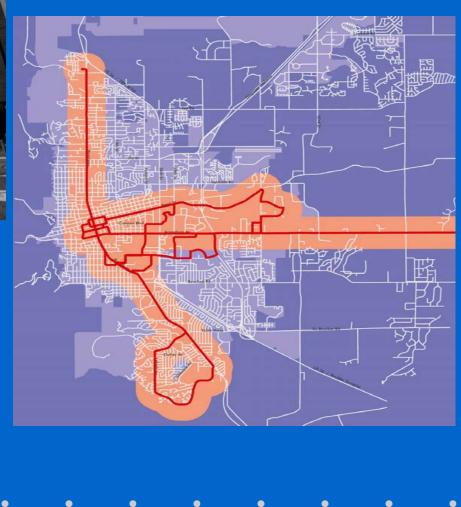
Partnership is key!

- University (CU), city, and transit district (RTD) are key partners
- CU provides transit passes for 29,000 students, 6,000 employees
- CU, city and RTD share funding for high frequency transit routes

High frequency transit routes





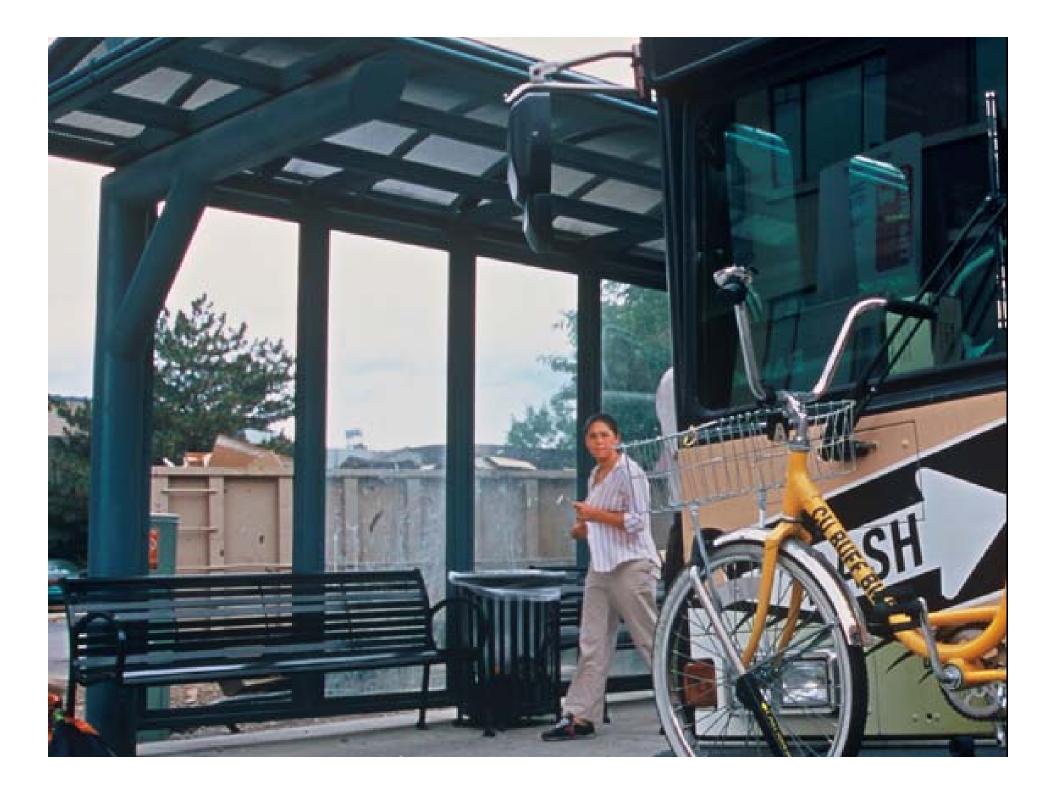


The community transit network









Pass programs

- Unlimited-use, photo-ID transit passes
- Provided to groups:
 - employees at a business
 - all downtown employees
 - neighborhoods
 - CU faculty, staff, students
- Proven to increase ridership & reduce single occupant vehicle travel

Transit pass funding

- CU students pay mandatory fee
- Faculty/staff passes paid by parking revenues + general fund + head tax on auxiliary departments
- Neighborhoods collect voluntary contributions or vote on property tax; 25% city investment

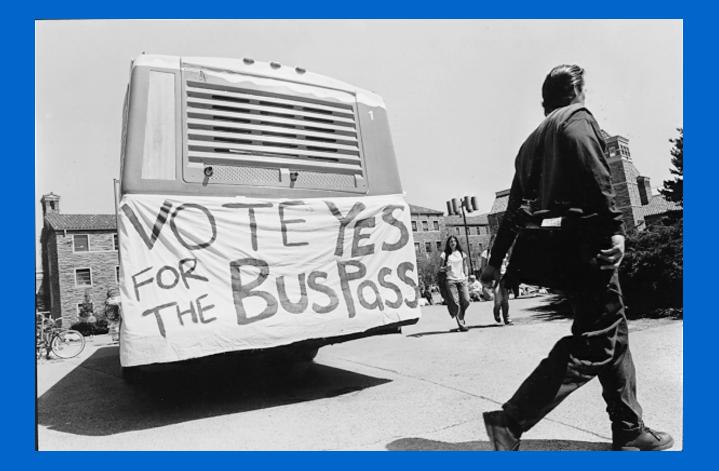
Downtown transit passes

Parking revenues directly tied to services to downtown

marketing of business area
maintenance of pedestrian mall
transit passes for employees

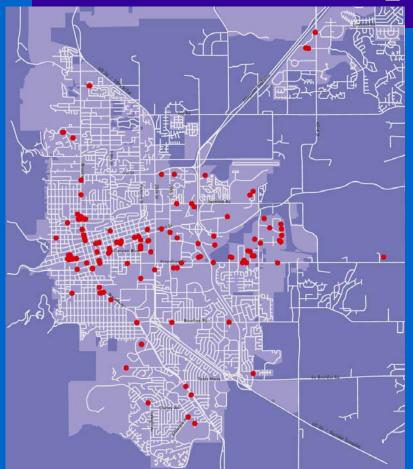
Builds political support for paid parking

Student campaign for bus pass

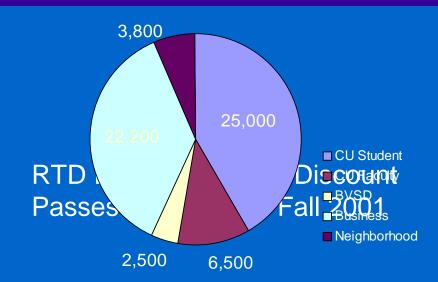


65,000 transit passes in town!

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Business Eco Pass Programs





Transit pass economics

- 14 transit users visible on this sidewalk.
- At \$20,000/net new space, \$280,000 to serve through parking
- It is 3 times more expensive to add a space than to shift one person to transit!



Results: transit

- 65,000 people in the community have access to passes
- Student transit use increased 200% in first year of pass program (92); is now up 600%
- Faculty/staff ridership increased 85% in first year of pass program
- Average daily ridership on local transit has quintupled - 5173 in 1990 to nearly 28,000 today!
- % of trips made on transit by Boulder residents doubled from 1990-2000

Pedestrians are key!



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Bikes in Boulder





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Making cycling part of everyday life

- Bike routes, bike paths, bike lanes
- Bike actuated crossings at intersections
- Grade separated crossings
- Bike racks on all buses
- Funding sources; city transportation \$, federal enhancements and CMAQ \$, flood utility \$, university parking dollars, university student transit pass program

Bear Creek before.....



..... and after



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CU Bike Station



Free bicycle checkout program



Bike improvements can be cheap....



.....but controversial removing parking!

Converting space from cars to bikes

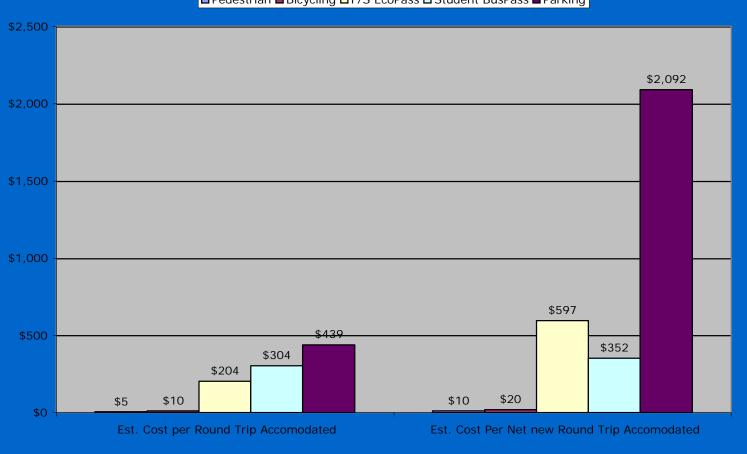


5 acre parking lot; \$10 million structure; or...



Comparative cost by mode

Estimated Cost per Faculty/Staff/Student trip by Mode



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■ Pedestrian ■ Bicycling ■ F/S EcoPass ■ Student BusPass ■ Parking

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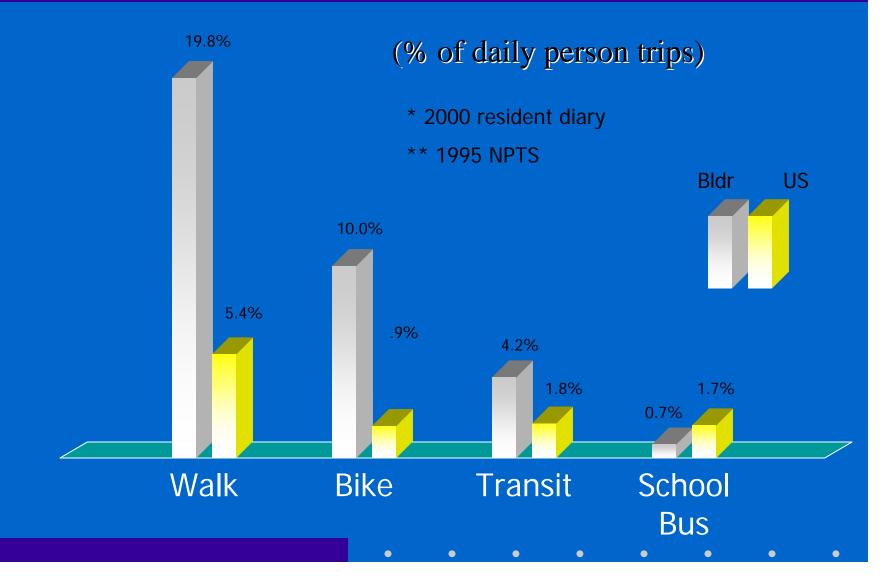
Overall: measurable results

- 17% citywide shift from SOV work commute trips to other modes since 1990
- Shifted to bicycle (+10.6%) and transit (+5.8%)

Results: CU student travel

- In 1990 2 % of student trips to campus were on transit; 17% in 2003
- 67% of student trips to campus by bicycle or walking
- 14% of trips by private automobile

Boulder compared to the nation



Boulder compared to the region

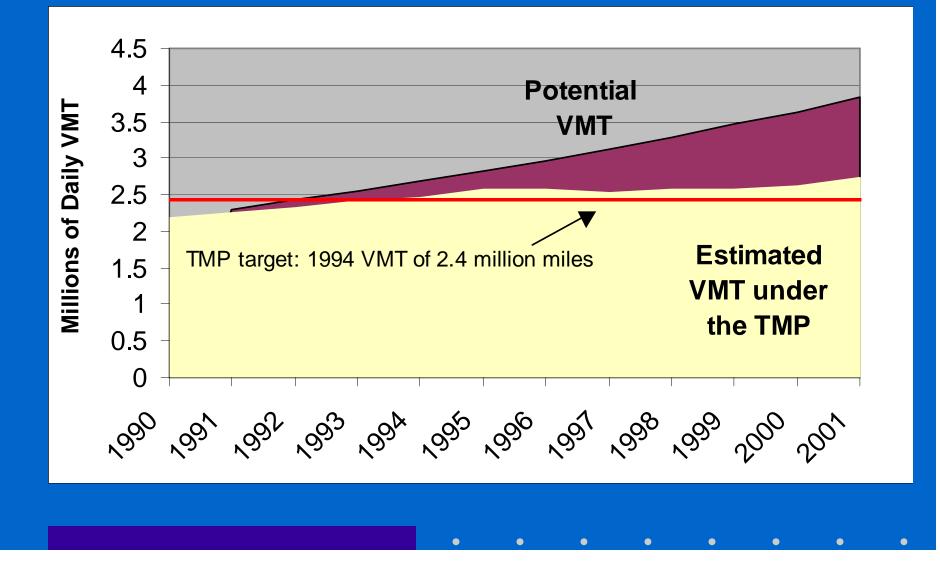
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Census Mode Shares and Trip Lengths for Work Trips							
			I-25/ Tech				
	Boulder CBD	Denver CBD	Center	Region			
	Total with						
	Students	Total	Total	Total			
Bicycle/Pedestrian							
Mode Share	29%	33%	3%	3%			
Total Alternate Mode							
Share	47%	54%	17%	20%			
Average Travel Time							
to Work (min.)	18	22	20	27			
Source: 2000 Census CTPP							

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Growth in Vehicle Miles Traveled



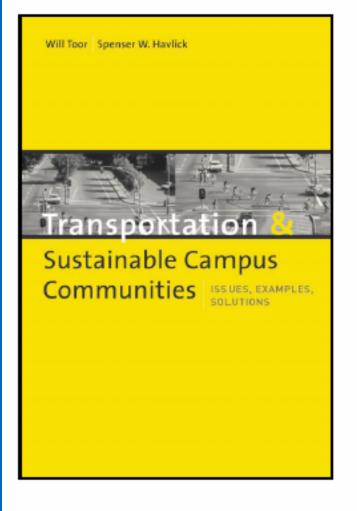
Current challenges

- Expanding transit pass programs goal of 100,000 transit passes; future of transit pass programs
- Maintaining and expanding local and regional high frequency bus transit different from regional transit authority funding priorities
- Creating countywide approach to transit
- Improving campus bicycle infrastructure

Lessons

- Well designed transit can increase ridership by large factors
- Shifting users to transit and bikes is cheaper than building parking
- Universities are key market for sustainable transportation modes

For more information:



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 For more details, check out this book!

 It can be ordered at www.islandpress.org

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