Redefining Transportation Excellence











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Transportation Excellence









My 3 Proposals

- Transportation should be about building communities, not facilities
- 2. Energy prices will soon change everything we are doing
- Engineers could be leading the way, but aren't

Proof by assertion

10 Principles

Mobility Balance Street Connectivity Community Character Forecasting is not Planning Transit will not Alleviate Congestion Multimodal Streets Sustainable Mobility Conference Monitoring & Reporting

Redefining Transportation Excellence **1. Mobility Balance**

Mobility Elements

Travel – Moving over distances

Circulation – Moving within areas

Access – Getting in the door

	Facilities
Travel -	Freeways, arterials, rail transit, express bus lanes
Circulation –	Collectors, connectors, transit routes, bike trails and lanes
Access -	Local streets, parking, sidewalks and crosswalks





















We build too much for travel and too little for circulation and access





















Good circulation and access are far more important to cities and towns than travel capacity

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2. Connectivity













It's the connectivity, stupid

Impacts of Poor Connectivity

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



"You can't get there from here . . . "

(without driving)













A well-connected network of small streets provides better mobility, is safer and is more efficient than a poorlyconnected network of wide streets













We are forcing bad design with public policy







Functional Classification

- FreewayMajor Arterial
- Minor Arterial
- > Commercial Collector
- Residential Connector
- Commercial Local
- Residential Local
- Alley



Nothing useful is achieved by the inexorable widening of community streets



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3. Community Building









































The design of transportation corridors has a profound effect on the character of abutting land uses

























Induced Traffic

"Induced Traffic"

Def.

The additional traffic that results directly and indirectly from transportation capacity or travel time improvements – traffic that would not otherwise have occurred at that location.

Types of Induced Traffic

Changes in travel route	Immediate
Changes in mode of travel	< 6 months
Changes in time of travel	< 6 months
Changes in amount of travel	< 6 months
Changes in origins & destinations	< 10 years





If you build it they will come







Expanding streets to accommodate traffic growth is self-fulfilling and self-defeating at the same time

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5. Transit will not Alleviate Congestion





Good Reasons to Invest in Public Transit:

- Improve mobility (travel, circulation and access) in the face of growth.
- Avoid over-building roads and streets and destroying character.
- Improve personal travel choice and family f exibility.



Walking

…is not an "alternate mode"

Walkingis Human





Because We Walk...

- ➢ We speak
- ➤ We sing
- > We use tools
- > We orient spatially at 3 mph































Pedestrian Science

- Types of Walkers
- > Types of Pedestrian Environments
- Practical Strategies

























Boulder's pedestrian mall works because ...

... it is supported by a multimodal transportation system



















Annual Household Spending					
Minneapolis-St. Paul					
(Percent of Total Hous	ehold E	xpendit	ures)		
Transportation \$8,683		18.4%			
Shelter	\$8,135		17.2%		
Food	\$5,607		11.9%		
Utilities	\$2,292		4.9%		
Other Household	\$4,338		9.2% 31.3%		
Insurance & Pensions	\$6,075		12.9%		
Health Care	\$2,184		4.6%		
Entertainment	\$2,404		5.1%		
Apparel & Services	\$1,927		4.1%		
Education	\$985		2.1%		
Miscellaneous	\$4,121		8.7%		



Total Household Expenditures on Transportation in 2000 in Minneapolis-St. Paul: \$10.9 billion

















Sustainable Transportation Systems:

- Enable families to reduce daily VMT without sacrificing income
- Provide a high degree of choice in mode of travel
- Are resilient to economic f luctuations

I hings We Are Not Doing to Ensure Future Resiliency Providing a collector/connector

- Providing a collector/connector street network for bus transit and bike
- Preserving rail envelops in freeway and major arterial corridors
- Planning for dense, mixed-use areas as part of our land use planning
- Requiring walkable pedestrian

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9. Empowerment







The public is empowered when...

...they have access to the information they want, not just the information we think they



The public is NOT empowered when...

…the project schedule cannot be revised



The public is NOT empowered when...

standards
prevent
creative
design
solutions



The public is NOT empowered when...

…the project must ft within or fully spend

predetermined budget

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The Tools of Power

- Budgets
- Schedules
- Standard

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Most public process in transportation planning and design today strives to obtain consent rather than to enlist the public in creative development of their own communities

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10. Monitoring & Reporting

Reporting Tools

- · Annual Transportation Performance
- · Mobility Report Card
- Transportation Chapter in City Report

Continuing public and political support for transportation programs requires accurate, honest monitoring and reporting of trends and outcomes

Summary

3 Proposals

- 1. Transportation should be about community building
- 2. Energy prices will soon change everything
- 3. Engineers could be leading the way



Challenge to Engineers:

- Do you what a multi-way boulevard is?
- Would you know how to handle intersections on one?





Challenge to Engineers:

- Do you know what "TOD" is?
- Would you know how to handle access and circulation in and around a rail station?



Hundreds of Years:	200	400	600	800	1000
Transportation Corridors Major Roads					
Pathways Architecture		88 88			
Civic Residential		••			
Landscaping Trees Other Plantings					



