





Would we have a sustainable transportation system if all automobiles were solar powered?



CANNESS CAN Star Aller Star Star What is "The" Transportation Problem? Conventional Evaluation • Traffic congestion? Often Overlooked **Generally Considered** Road construction costs? Parking costs. • Congestion impacts. • Parking congestion or costs? Total consumer costs. Vehicle operating costs. · Excessive costs to consumers? • Downstream congestion. Per-mile crash impacts. · Government costs? Crash, energy & pollution Traffic crashes? Per-mile pollution impacts of changes in mileage. • Lack of mobility for non-drivers? emissions. • Land use impacts. • Poor freight services? Impacts on mobility options for • Environmental impacts? Inadequate physical activity? non-drivers/equity impacts. Others? Changes in active transport and related health impacts.

Current Transport Planning

Current planning tends to be reductionist: each problem is assigned to a single agency with narrowly defined responsibilities. For example:

- Transport agencies deal with congestion.
- Environmental agencies deal with pollution.
- Welfare agencies deal with the needs of disadvantaged people.
- Public health agencies are concerned with community fitness.
- Etc.

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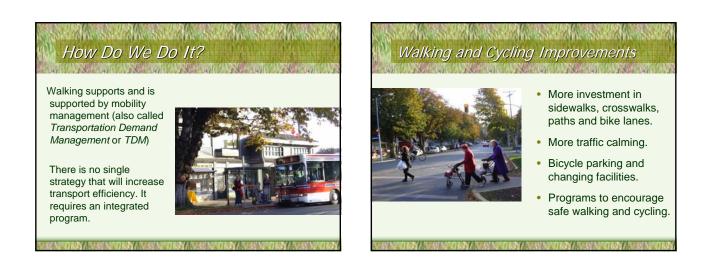
Win-Win Solutions

Put another way, more comprehensive planning helps identify "Win-Win" strategies: solutions to one problem that also help solve other problems facing society.

Ask:

"Which congestion-reduction strategy also reduces parking costs, saves consumers money, and improves mobility options for non-drivers."

Comparing Benefits				
Planning Objectives	Improve Travel Options	Incentives To Shift Mode	Expand Roads	Alternative Fuels
Congestion reduction	✓	✓	√	
Roadway cost savings	~	✓	×	
Parking cost savings	✓	✓	×	
Consumer cost savings	~	√/×		
Better mobility options	✓	✓		
Improved traffic safety	✓	✓		
Reduced pollution	1	✓	×	√
Energy conservation	✓	✓	×	~
land use Objectives	✓	✓	×	
Public fitness & health	√	✓		





Encouraging Transit Use

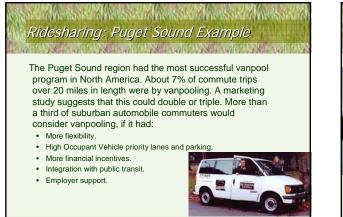
- Quality service (convenient, fast, comfortable).
- Affordable fares.
- Walkable, compact communities.
- Support (park & ride facilities, commute trip reduction programs, attractive stops and stations).
- Parking pricing or "cash out".
- Integrated with special events.
- Convenient information.
- Positive Image.



Transit-Oriented Development



Transit-Oriented Development means that communities are designed around transit stations.



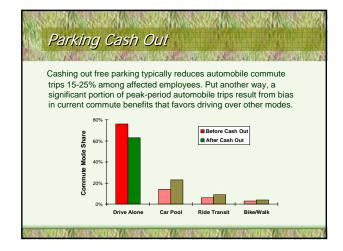
Employee Trip Reduction Programs

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Transportation Management Associations



Employers encourage employees to walk, bicycle, carpool and ride transit rather than drive to work. For example, offer a tax incentive for businesses that have effective commute trip reduction programs.



Transportation Management Associations (TMAs) are private, non-profit, member-controlled organizations that provide transportation services in a particular area, such as a commercial district, mall, medical center or industrial park.

TMAs provide an institutional framework for implementing Mobility Management.

 School & Campus Transport Management

 Programs that encourage parents and students to use alternative modes to travel to schools, colleges and universities.

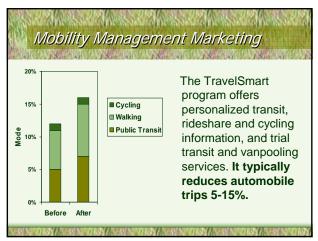


More efficient parking:

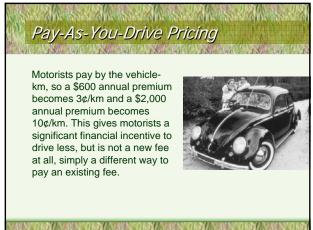
- Reduce minimum parking requirements in zoning codes.
- Share parking spaces rather than having assigned spaces.
- Charge users directly for parking, rather than indirectly through taxes and rents.
- Develop parking management programs in specific areas to facilitate planning, sharing, trading and pricing, and to address spillover problems.





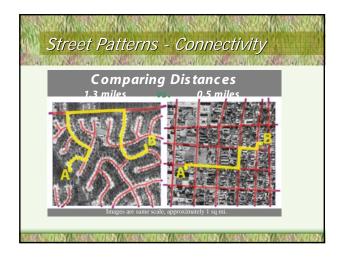


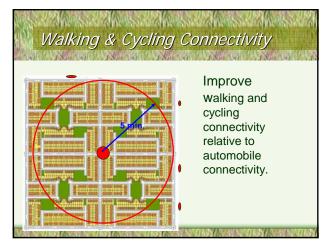




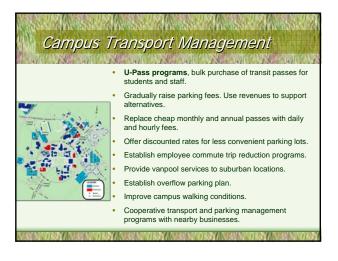












Example – Lancaster, CA



Development fees calculated by civil engineering firm based on actual costs. Fees for a typical house located near the city edge are \$5,500, but increase to \$10,800 if located a mile away. Shifted development to smarter growth locations.

