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PowerPoint Slides for a Presentation at the NATIONAL TRAVELWISE ASSOCIATION (NTWA) CONFERENCE

Transport & Climate Change:
Understand the Problem –
Be Part of the Solution







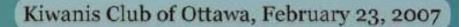














## Sustainable Transport: Does Anybody Here Know How To <u>Win</u> This Game?

Dr. Barry Wellar President, Wellar Consulting Inc. Distinguished Research Fellow Transport 2000 Canada



### **How Long Does It Take To Get It Right?**

#### Housing for the future

B. Wellar
Ministry of State for Urban Affairs
Government of Canada

# "Taking steps towards the end of the automobile era"

B. Wellar Ottawa Citizen





















### Meaning of Win in Sustainable Transport

### Principles Are Not Enough

to Simultaneously Increase Walk,
Cycling and Transit Trips, and
Decrease Private Motor Vehicle Trips



















### Meaning of Win in Sustainable Transport

**Achieving Practices** 

**Achieving Practices** 

**Achieving Practices** 



















# Sustainable Transport Suggestion: City of Ottawa

Apply a Sustainable Transport Test to

Every Initiative That Generates, Induces
or Distributes Traffic of Any Kind























### Sustainable Transport Suggestion: City of Ottawa

Publish Annual Report on What City of Ottawa Has Done to Increase Walk, Cycling and Transit Trips, and Decrease Private Motor Vehicle Trips



















# Sustainable Transport Suggestion: Ottawa Corporations

Publish Annual Reports on What Company X Has Done to Increase Walk, Cycling and Transit Trips, and Decrease Private Motor Vehicle Trips



















# Sustainable Transport Suggestion: Ottawa Residents

Leave Your Cars at Home, Folks Leave Your Cars at Home

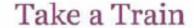




Take a Hike

Ride a Bike









But Leave Your Cars at Home



















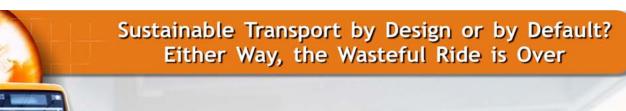
#### **Dr. Barry Wellar**

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2007 Annual Meeting Association of American Geographers San Francisco, CA, April 17-21







### Scenes for the video 'Automobilitis'





















### Does anybody here understand the concept of half?





















### Where are the sustainable transport tests?



SUSTAINABLE TRANSPORT TEST























Look to children as the key people for achieving sustainable transport practices by design rather than by default





















# Look to children to pressure adults about acting on climate change issues



Belfast, Ireland 8-9 November 2007















discovered over U.S.



Washington Post

Philadelphia Inquirer

Ozone-hole conditions spreading: High

concentrations of key pollutants



### A lament and a solution for "the great masses"

"As for the great masses
They can be divided into two classes;
Those for whom thinking is painful
And those for whom it is impossible".

If that be true, then

"Find ways to ease the burden of thinking in order to achieve the desired actions".



















## The Sustainable Transport Practices Score Card: Are You up to Winning the ST Challenge Cup?

2007 State of ST Practices	Future State of ST Practices								
	2008	2009	2010	2011					
Best	Best	Best	Best	Best	Best				
Better	Better	Better	Better	Better	Better				
Good	Good	Good	Good	Good	Good				
Bad	Bad	Bad	Bad	Bad	Bad				
Worse	Worse	Worse	Worse	Worse	Worse				
Worst	Worst	Worst	Worst	Worst	Worst				



















# Applying the KISS Principle to Track Sustainable Transport Practices

Sustainable Transport Practice Year in Which Practice

Identified Adopted Implemented



















## **Experience of Panacea, Ontario with Sustainable Transport Best Practices**

	Year in Which Practice						
Sustainable Transport Practice	Identified	Adopted	Implemented				
Integration of land use and transportation	1974	1991					
Application of sustainability test to transportation projects, planning applications, and rezoning applications	2006						
Bike rack requirement at private commercial buildings and public facilities	1993	2001	2005				
Signal activation by transmitters in city buses	1988	1999	2006				
Application of Walking Security Index to assess intersection performance for pedestrians	1998	2004	1				
Use of traffic calming devices to promote walking and cycling	1983	1985	1987				
Moratorium on road widening	2000	2001	2003				
Restrictive motor idling by-law	1991						



















## Bad, Worse, and Worst Sustainable Transport Practices in Urban Metro Regions: List 1

- Uncontrolled ring roads built to increase speeds and reduce trip times
- Intersections expanded to reduce private motor vehicle congestion
- 'Green' private motor vehicle purchases subsidized
- Hiring of transit operators who dislike people
- Disconnected bike paths
- Bike paths in structural disrepair



















## Bad, Worse, and Worst Sustainable Transport Practices in Urban Metro Regions: List 2

- Construction of new inter-urban roads
- Reducing budgets to maintain sidewalks and bike paths
- Traffic signals timed to increase flow speeds of private motor vehicles
- Lack of sidewalks along arterial roads
- Inadequate sidewalk maintenance programs
- Inadequate vehicle traffic enforcement



















## Bad, Worse, and Worst Sustainable Transport Practices in Urban Metro Regions: List 3

- Speed limits raised to appeal to vehicle operators
- Free parking for private motor vehicles at shopping centers
- Standard for 'HOV' lanes set at 2 occupants in a private motor vehicle
- Roads widened to reduce congestion
- Transit service reduced to balance the transport budget
- Cutting transit fare subsidies for seniors and students
- Cosmetic vehicular windshield and window tinting



















## Good, Better, Best Sustainable Transport Practices in Urban Metro Regions: List 1

- Land use and transportation system integration based on walk, cycle and transit as primary transport modes
- Signal light priority given to pedestrians at intersections
- Intersections designed to achieve safety, comfort, and convenience of pedestrians
- Roundabouts designed to achieve safety, comfort, and convenience of pedestrians
- Intersections designed to achieve safety, comfort, and convenience of cyclists
- Roundabouts designed to achieve safety, comfort, and convenience of cyclists



















## Good, Better, Best Sustainable Transport Practices in Urban Metro Regions: List 2

- Transit vehicles equipped to change signal lights
- Transit vehicles given priority right-of-way to enter traffic lanes
- As private motor vehicle use declines, roads and streets removed from city networks and converted to alternative transport uses, or other land uses
- Surface parking lots removed from areas served by transit
- Moratorium imposed on road and street expenditures
- Road maintenance budgets reduced to accelerate the shift from private motor vehicle to walk, cycle and transit modes



















## Good, Better, Best Sustainable Transport Practices in Urban Metro Regions: List 3

- Sustainable transport test applied to transportation projects, official plan amendments, rezoning applications
- Truck trailers loaded onto rail cars based on ST criteria
- Standard for high occupancy vehicle (HOV) lanes set at 4, 5, and 6 or more occupants in a private motor vehicle
- Standard for high efficiency vehicle (HEV) lanes set at 3 or more occupants
- Strict, zero-tolerance enforcement of vehicle speeds in school, seniors, and community zones



















# Analysis of Share of Trips by Mode, Swagger, Ontario, 1990-2007: LOSER

Mode	% Share by Year										
	90	91	92	93	94	95	04	05	06	07	
Walk	3	3	3	3	4	4	4	5	5	5	
Cycle	1	1	1	1	1	2	2	2	2	2	
Transit	12	12	12	13	13	13	13	13	14	14	
Private Vehicle	84	84	84	83	82	81	81	80	79	79	



















# **Analysis of Share of Trips by Mode, Exemplary, NI, 1990-2007: WINNER**

Mode	% Share by Year										
	90	91	92	93	94	95	04	05	06	07	
Walk	10	12	14	16	16	17	22	23	24	25	
Cycle	3	3	4	4	5	9	10	11	12	14	
Transit	22	23	25	26	27	28	32	33	35	38	
Private Motor Vehicle	65	62	57	54	52	46	36	33	29	23	



















Sustainable Transport:
Is There Anybody Here
Who Can Win This Game?

Yes, Anyone Who

Understands the consequences of losing the sustainable transport game

Has the wits to win

Has the will to win

Has the powers of persuasion needed to achieve the win

















