

Introducing SANE Transportation to ASES

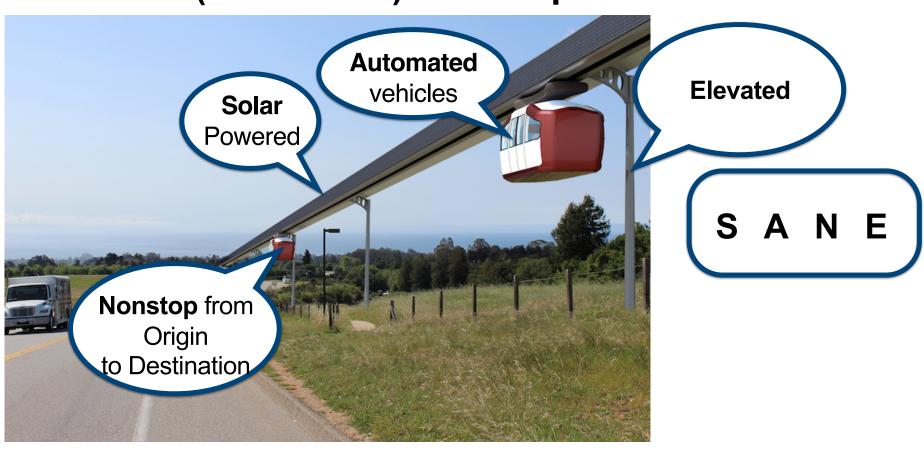
Ron Swenson, INIST July 12, 2016





International Institute of Sustainable Transportation www.inist.org

Solar Automated Nonstop Elevated Transportation Networks ("Podcars") are unique & robust



San José State is leading the way to SANE transportation ... and creating a whole new industry

We would like you to join us!





Five podcar systems have been implemented and

have met key performance metrics



Masdar 2010



Suncheon Bay 2014



Morgantown 1975

- 73 vehicles
- · 15.5' L x 8.75' H x 6.7' W
- 8,760 pounds
- 52 kW motor
- 30 miles per hour
- 5 off-line stations



Heathrow 2011



Cuernavaca ~2015~

The key to SANE transportation is solar energy!

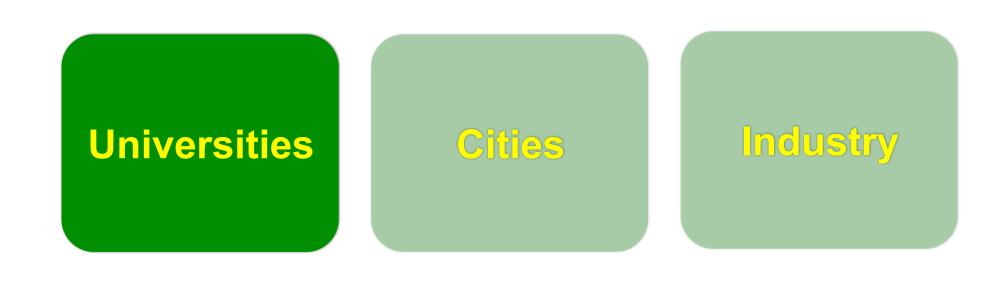


INIST is coordinating a three sector program





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Universities are working together – around the country and around the world



San José State is raising the bar in technology

Universities Cities Industry



INIST helped San José envision an urban village



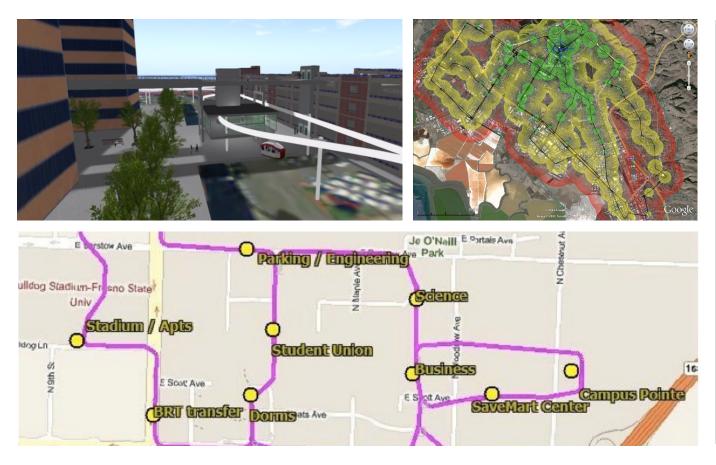
INIST also helped Santa Cruz envision ATN

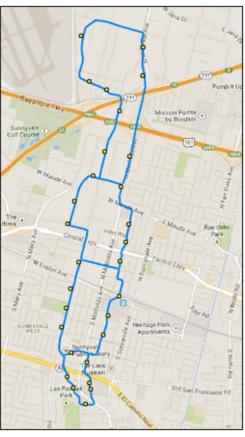


Our US network of cities and counties is growing



With a small grant from MTI, San José State and INIST are planning routes for cities in Silicon Valley





Will your city be the first to have SANE transit?

INIST is coordinating a three sector program





Solar Industry Perspective

There is a huge market in the USA

Local

4,004,799

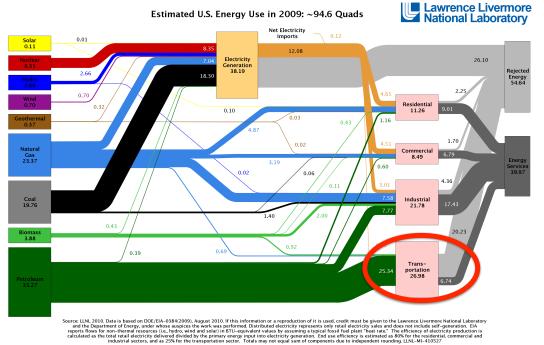
Country	Road length (k	m) Exp	resswa	ay length
World	04,205,000			
United States	6,586,610		76,788	
India	4,865,000 1,3		1,324	
China	4,460,000	111,	111,950	
Brazil	1,751,868 11,000			
Russia	1,396,000	960		
	C	ther arte	rial ^b	530,579
	C	ollectorc		1,358,968

With a MegaWatt a mile over a million miles of roadway in the USA, we are talking about a TeraWatt of solar





One TeraWatt of solar is enough for transportation



1 tw x 5 hours/day = 6.25 Quad/year = net useful energy for transportation. With efficiency gain of 5X, there will be surplus energy for the grid.





There is a huge market in China

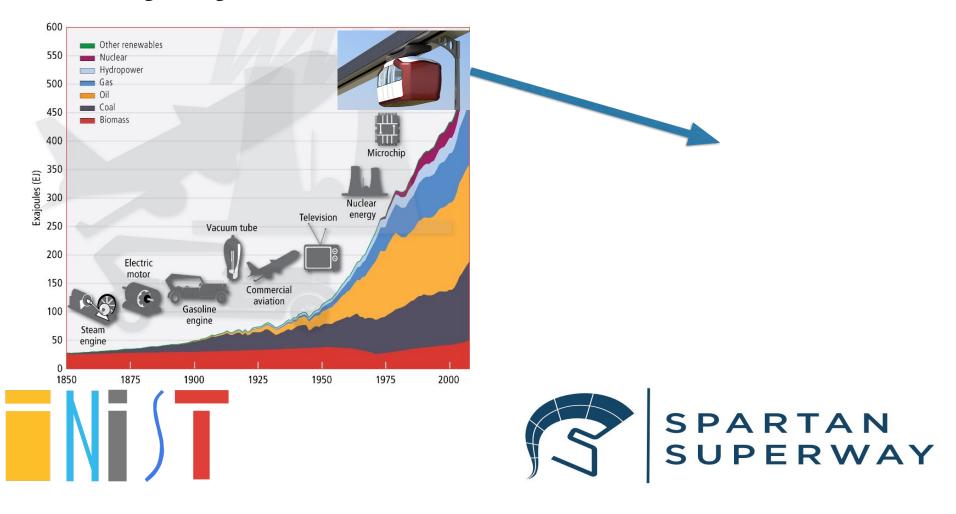
Country	Road length (km)	Expressway length
World	64,285,009	
United States	6,586,610	76,788
India	4,005,000	1,324
China	4,460,000	111,950
	1,751,000	11,000
Russia	1,396,000	960

With a MegaWatt a mile over a million miles of roadway in China, we are talking about a TeraWatt of solar





Solar Skyways will slam the brakes on fossil fuels



Strategic Alliances

in 2010, the US and Sweden formed a Memorandum of Cooperation on Innovation in transportation



We are building collaboration between US & Sweden

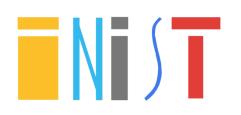


Opportunities to participate with the Spartan Superway

We encourage industry sponsors and mentors to join as strategic industry partners



We invite you to join us. Thank you for your attention!



www.inist.org/library www.podcarcity.org



SpartanSuperway.blogspot.com



www.superway.us

Join us and...







Thank you!