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## to traffic problems Congestion tolls: The right solution



The Los Angeles County Transportation Commission's purchase of 177 miles of right of way from Southern Pacific is an expensive mistake. The mistake will be

of transportation research concluding that transit option to be available because everyone sincerely hopes their neighbors urban rail systems have little to offer modis expensive, and there is a quarter century will use it. Unfortunately, the rail option muter transit system. It's easy to convince the public that rail is a good idea — for ever actually developed for use as a comhe other guy. Everybody wants a rail compounded to an in-if these rights of way are

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ern American cities.

tract riders. Empty trains require heavy subsidies, and in Miami the subsidies have been made available by reducing bus For example, a superbly documented report released by the Urban Mass Transportation Administration reveals that the was most important is the poor. than the rail network that replaced it. Worse, the group to whom the bus option that travelers were willing to use, because the bus network was far more accessible service. Unfortunately it was the buses empty because it is too inconvenient to atduced transit use. The Miami train runs rail system built for Miami actually re-

The same story has been repeated to varying degrees in Washington, Baltimore, Atlanta, Buffalo, Pittsburgh, Portland and Sacramento. Further, rail is probably less relevant in Los Angeles than in any other Miami's experience is not exceptional.

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## ongestion tolls are better than trains

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that was used as the basis of the decision to build the system. Even 54,000 riders Line's 20,000 travelers per day certainly exceeds the 5,000 riders per day forecast just before the system opened, but is much lower than the ridership forecast of 54,000 per day implies a very high subsidy to rail

are too low, and the benefits of the personal automobile are too high, for public investments in rail to make social sense. and the eventual return of congestion. Even if Los Angeles could afford to saturate the landscape with rail lines, the ultimate result of lower congestion costs would only be more growth, new demand for access to the transportation network, Population densities and gasoline prices

ticularly important to public welfare. ephone companies, power utilities, and other large-scale enterprises in which the by planners and economists. Such strate-gies have been widely implemented by tel-Fortunately, Los Angeles planning authorities have better policy alternatives available. Market-based strategies have match between supply and demand is parbeen the subject of extensive investigation

when traffic densities are high, accommodating an additional vehicle decreases duces no change in the average speed of other vehicles. Time and other costs expetransportation would be vastly improved if policy makers applied market-based approaches. When traffic densities are low, accommodating an additional vehicle prorienced by the occupants of the additional vehicle completely account for the cost of heir vehicle's presence on the road. But The efficiency of the market for urban

average speed.

This additional delay is imposed on

other travelers.

portation system. vehicle miles traveled) in 1983.

There is nothing immoral or selfish about these network trips. They reflect the mobility and degree of choice we expect in cially responsive to price. many discretionary characteristics, their a free society. But because these trips have requency during peak periods is espe-

modes that impose lower social costs. incentives, these discretionary trips will be trip chains, to closer destinations, or frequency, over different routes, in longer aken during off-peak periods, with less If travelers are provided with sufficient

Even in the case of work trips, conges-tion tolls would still leave employers and employees with a wide range of potential adjustments. These include telecommutsharing, flexible work hours, or paying the ing, transportation system management efforts such as employer van pools, ride

decision to travel because it is a cost they don't pay. An optimal congestion toll would internalize this external cost so that everyone using the road. It is part of the cost of the new vehicle's trip, but this cost delay the vehicle's presence imposes on the costs experienced by the additional ve-hicle's occupants includes the value of the has no influence on the vehicle occupants'

> ditional traffic data are gathered. Once a system for extracting tolls is in place, toll schedules can be refined as adcongestion costs need not be assessed pre-cisely before a toll could be implemented.

An optimal congestion toll would have

(population 3 million plus) urban areas in 1977, and for approximately 58.9 percent of such trips (39.6 percent of peak period capacity by reducing peak volumes, tolls are not likely to price users off the transnonwork trips accounted for approximatesity of Southern California indicates that ly 51.9 percent of all peak period trips (38.2 percent of peak period vehicle miles traveled) in the United States' largest While congestion tolls increase relative Research at the Univer-

toll revenues presents a special opportuni-ty to assist low-income groups. If low-income groups are targeted by programs supported by toll revenues, then the net effect of congestion tolls would be prouse. foundly progressive. In almost any event, tolls would be considerably less regressive then spending billions of dollars furbishtime, but low-income groups value time less highly than do high-income groups. This observation might lead some to the est on the poor. In truth, the disposition of conclusion that congestion tolls are hard ing a rail system that few residents will Congestion tolls reduce delay and save

cates that tolls can be collected electroni-cally, imposing no new delays. Further, electronic assessment of congestion tolls vestment than does a commuter rail system. Because they reduce external effects, tolls do not engender NIMBY (Not In My requires a considerably smaller capital in-Back Yard) responses from residents. Experience in Asia and Europe indi-

ed, congestion tolls provide an opportuni-ty to improve both the mobility and wel-fare of Los Angeles residents. Rall hasn't accomplished this anywhere else in the portation capacity without inducing the growth associated with new transportation facility investments. Carefully implementcountry, and rail can't accomplish it here Congestion tolls increase relative trans-