-Nine prevolent myths ab

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A lot of current day mythology has arisen regarding the nation's highway program . . . myths that have no relationship to reality.

Nevertheless, they are being talked about and written about and they have attracted the attention of some of the people who would rather believe in fancy than facts. Adapted from IAs. Turner's remarks at the 55th annual meeting of AASHO.

• Myth No. 1: Highway officials, susceptible blandishments of some ansoen and settish of lobby," are striving to pave over the whole U.S. larly our cities, just to permit the "lobby" is a materials, or equipment or provide itself with perpetuity.

First, let me acknowledge that there indeed is way lobby," in this country. It consists of the cour 105 million motor vehicles. This "lobby," inch has an auxiliary membership which includes the rest of our 200 plus million people who may the drive a car but are basically dependent on the vehicle for virtually every aspect of their activing.

Second, the "paving over" allegation is sense gerated. In 1916, when the federal-state partier improving the nation's roads came into existence nearly 3 million mi, of roads and streets. In the exhad only 102 million people and 3.6 million motor. Today, 53 years later the mileage of roads and stringer increased by less than ¼ to a total of 3.7 million population has doubled but vehicles have increased fold.

The truth is that most of the investment land during the last half-century or so has been made much for new routes but for improving the system. The joint federal-state effort has been largely toward improving — in terms of capacity and safety — the basic network we have had she and-buggy days. The improvements which a made have been in response to the swelling whetheles and the increase in their individual of and to the insistent demands of the motorin, had better accommodations. This is the true highway and I personally believe it is a true and excellent of how a democracy such as ours was intended, founding forefathers to work.

Myth No. 2: Because of congestion, modern of particularly our urban freeways are moving traif slower today than during pre-freeway days.

Prior to the construction of freeways in I it took 30 min. to cover 10 mil on conventions After freeways were built, in the same length has become possible to cover 25 mil on the Freeway, 20 mil on the San Bernadino Freeway, the Hollywood and Ventura Freeway, and I is Harbor Freeway, an increase in travel space times the possible pre-freeway speed. So that the largest parking lots in the world are rather crude humor, and far from the truling covered 225 mil in 240 consecutive minutes of Angeles Freeway system. I would continue average speed for this long a custom.

The truth is that urbon freeways must be a much higher speeds than dity screeks. At Mark \$5-40 mil an hour, the freeway curves 10 - 5

ngtion's highway program

me number of vehicles per lane as does the average evet. It would require 20 new lanes of surface street sy as much traffic as an 8-lane freeway. But the 20 would have neither the speed nor the safety of the traffic as a second nor the safety of the traffic as a second nor the safety of the traffic as a second nor the safety of the traffic as a second nor the safety of the traffic as a second nor the safety of the traffic as a second nor the safety of the traffic as a second nor the safety of the traffic as a second nor the safety of the traffic as a second nor the safety of the traffic as a second nor the safety of the traffic as a second nor the safety of the traffic as a second nor the safety of the traffic as a second nor the safety of the traffic as a second nor the safety of the traffic as a second nor the safety of the traffic as a second nor the safety of the traffic as a second nor the safety of the traffic as a second nor the safety of the safety of the traffic as a second nor the safety of the safety of the traffic as a second nor the safety of the safe

fits of the freeway are many, but probably the important is its safety superiority over conventional meets. Head-on collisions, opposite direction side, wehicle-pedestrian accidents, and traffic turbulence exections and driveways have been eliminated. Treeways are twice as safe as other city streets in it fatalities, and about four times safer as far as all injuries are concerned.

 π No. 3: Travel today in urban areas is slower than the horse-and-buggy days.

is always good for a chuckle or a "horse laugh" so is without factual substance. Admittedly, traffic highly publicized downtown areas during peak moves frustratingly slow, but believe me, it moves is a general rule than in the pre-motor vehicle eral sare still trying to use the horse and wagon, we have much worse congestion than we have today disc some other problems more difficult and unactual our present ones.

No. 4: Highway program takes valuable agriculand for right-of-way and we are about to produce on for the nation.

By, by replacing the horse and mule, motor have made more land available on which to grow humans. In 1910, 90 million acres were required the feed for horses and mules. This is twice the a of all the right-of-way on all of the entire public istreet system of our nation today. And the pavell is only a minor fraction of this amount, interestingly, we also are taking more agricultural of crop production as a part of our soil bank each year than we take out for new highways—reause of overproduction of agricultural products.

No. 5: Urban highway construction and improvetic half from the ratable rolls, reduce taxation and thus compel the remaining taxpayers to for the loss by having to shoulder an added tax

we have hundreds of studies which show that we may be a brief loss in ratables in some in-line overwhelming majority of cases, the high-with them substantial economic benefits. I samples.

No best documented cases is Route 128, a cirof highway around Boston. It was opened in
this estimated that by 1959, over \$197 million
exceed in new plants along the rouse employ\$1500 workers. Although some of this activity
elevation from other parts of the community,
to the whole metropolitan area represented
led \$129 million, and added 19,000 new emthe area's payrolls.

The second illustration involves a smaller town—Yankton, S.D., a city of 9000 population where 3.1 mi. of U.S. 81, running through the heart of the city, were widened and upgraded in design at a cost of \$852,489. An in-depth study made by the Federal Highway Administration of the impact of the improvement disclosed that it saved time and money for the citizenry, reduced accidents, spurred business, boosted employment, hiked land values, and improved the tax base.

The study further revealed that accidents dropped from 71 in 1956 to 34 in 1965, even though travel doubled from 1½ to 3 million vehicle mi. The overall cost to the user, which in addition to accidents includes travel time and vehicle operating costs, totaled 15.8 cents per vehicle mi. before and 13.1 cents after the highway was rebuilt, a decrease of more than 15%. The number of businesses showed a net increase of almost 100% — from 60 to 119.

Land values showed a sharp increase as assessed valuations for property tax purposes climbed from \$1.2 million to \$2.79 million, an increase of 133%. It is estimated that the improvements themselves increased assessed values by more than 100%.

The number of persons employed by business firms along U.S. \$1 jumped from 402 in 1956 to 952 in 1968, an increase of 137%. By comparing this with the increase in a "control group," it was concluded that at least 1/3 of the increase was due solely to the widening and upgrading of U.S. \$1.

Myth No. 6: Freeways use up tremendous amounts of scarce urban land needed for other purposes.

The fact is that urban freeways presently planned will require less than 3% of the land in the cities and if we didn't build the freeway types of highway, several times as much land area would be required for moving the same traffic volume by conventional street systems. In Los Angeles — sometimes held up as a horrible example—the proposed 800 mi. of freeways (only a fraction Interstate system incidentally) that will run through the metropolitan area by 1980 will occupy only about 2% of the available land.

It has been frequently charged that half of the total area of Los Angeles is devoted to highways, streets and parking - in other words to the motor vehicle. This is true at this present time only about the central business district. But a large share of the parking usage represents land that is in a transitional stage from old uneconomic buildings to new high density buildings use which will then permit parking as an incidental to some other usage of the same plot of ground. And this other type of land usage could not occur if the street and vehicle did not provide the access thereto. About 50 years ago in the horse and buggy and trodey era. 35% of the central business district was devoted to streets, alleys and sidewalks. We do not have a record of the amount of area that was devoted to the stables and wagon yards to park the horse and buggy transportation of that era, but it must have also bein a sizeable amount. Surely some small additional percentage is not too high a price to pay for the speed, economience and flexibility of the private motor vehicle, and necessibility which it brings that makes all the rest of the occupied land as valuable as it is.

It is interesting to note that when Pierre L'Enfant laid out the city of Washington, D.C. in 1790, a full century sefere the days of the automobile, he proposed that 59% of the total area be used for roads and streets. This is even more than the area now devoted to highway transportation and parking.

Mylii No. 7: We have reached the stage of a national coast-to-coast and bumper-to-bumper traffic jam, with the whole country strangling in traffic congestion.

This is really an interesting one because last year Americans drove a whopping one trillien 16 billion vehicle mi. If, as some critics claim, motor vehicles have become immobilized on our highways, how did the driving public rack up this fantastic mileage? There just had to be more than a few gaps in the mythical coast-to-coast traffic jam.

Myth No. 8: Highway people want to prevent any other mode of transportation from being made available because they are so selfishly jealous of the automobile that they don't want any competition,

The real truth is that no group is more aware of the limitations in highway transportation than the the highway people themselves and no group is more willing than the hard-pressed highway administration to share with others some of the heavy burden of transportation in this country.

We in the Federal Highway Administration welcome with open arms the contribution which any mode of transportation can make toward moving people and goods efficiently. That is why we support enactment of the pending Public Transportation Assistance Bill of 1969 which would provide \$10 billion over the next 12 years to cities for additional mass transit facilities. Please note that this bill would permit both or either rail and bus types of mass public transit.

There is no disputing that in some areas of high population density, rail mass transit can do a fine job, and we enthusiastically support its construction in such cases. But we also recognize a truism of transportation life—that in many areas rail transit is impractical and unconomical and will never be built. These areas then must rely on bus mass transit, which today is already carrying 70% of all transit passengers in our urban areas, and the bus will probably continue to be the only form of mass transit in at least 95% of our urban areas of 50,000 or more population, and in every one of our smaller communities.

We must not lose sight of the fact that about 70% of today's population lives in urban areas, and by 1985 this figure will jump to almost 80%. As this growing urbanization continues, more and more people will have to depend on bus public transit.

Myth No. 9: Bail mass transit can substitute effectively for highway transportation in an either/or, or local choice basis.

In some larger cities, it can surely augment highway transportation of people but what about the movement of goods none of which can be moved by a rail line? To talk about rail transit as the single, simple panacea for all the nation's transportation problems in every urban area simply does not jibe with reality.

The clothes we wear, the food we eat, the newspapers we read, the mail we receive, are all dependent on highway transportation and even more so within the urban areas than the inter-city links. As a matter of fact, it is difficult to imagine any major facet of American life that is not closely linked to rubber-tired transportation.

In the 233 urban areas of more than 50,000 population in our nation today, 99% of all person-trips and 95% of all person-miles of travel are by highway vehicle. Of 213.6 billion person-trips annually, 205.4 billion are by automobile, 6 billion by bus, and 2.2 billion by raif. Of 653.3

billion perrson-miles annually, $616.2~\mathrm{hill}_{\mathrm{long}}$ mobile, 23.9 billion by bus, and $13.2~\mathrm{hill}_{\mathrm{long}}$ smaller urban areas, the proportion of h_{long} total.

In intercity travel, it is estimated that person miles, 931 billion are by automobile, by bus, for a total of 956 billion or \$8.000 by highway. Air travel was second with insmiles or less than 9% of the total. Thus mode is more than 10 times as big as all gether.

Mass public transit, whether by hus or must play an increasing role in arban transit there is nothing in the foreseeable future is nate or greatly reduce the need for some in and other traffic arteries in our growing. These must be provided, with much greatly placed in increased use of buses moving on a system to accommodate the increasing number traveling into and out of the downtown bracking into and out of the downtown bracking our present concepts of the working hour of spread peak demand over considerable for of time — both day and night and perhaps on as well.

The limited experience we have had with france exclusive bus lanes on freeways indicates can play a major role in the movement of peoplareas. Buses traveling on freeways between and the suburbs could afford a substitute for private cars now contributing to street cours switch of 50 persons from their own cars to be can bring a reduction of 30 cars on city streets.

We are closely observing an experiment recommon Interstate 95 in northern Virginia where thave been reserved for exclusive bus traffic in Washington, D.C., in the morning rush hours, already that travel time is reduced by restricting of the lanes to buses, and we are hopeful that morning leave their cars at home and use bus rejective.

Yes, there are many myths and much mismine being spread about the highway program. We missiver, act in a responsible way that separates my hard facts. In dealing with the real world of a must base our actions on sound basic informationstantly apply the trained professional experience which we have learned. We cannot be vated by simple hunches and emotions. We must the whole of our country's transportation needs relation of those needs to the overall needs of the

The right answer may frequently involve a may than one form of transportation. In every case the of the individual mode or the amounts of differing to produce a proper mix must be based on faction minations of what combination will produce to overall efficient service to meet the needs of " ticular situation. These decisions cannot be acresa popular referendum based on public group of 100 hunches. Each element of the system selected was plement the others to produce the most effective As engineers and planners, we are trained to $(a^{(i)})$ sions in this way. The cooperative, continuing hensive transportation planning process in whigage in every urban area of more than 50,000 FCF not only forms the solid base on which to the sound highway program for these areas, but #17 time it creates the data base on which the course a sound community wide transportation program selected. Please note that I called these trust: planning processes — and that I did not limit floor single highway mode. This is significant because accorately descriptive of the procedure which we in the highway program to insure that we do in the way decisions on the basis of a full consideration. whole of the transportation needs and possibility community -- in every one, not just some - of present urban areas of more than 50,000 popul