Luxury vehicles and exotic vacations are prestige goods that enhance their consumers’ status. This tends to stimulate mobility and increase resource consumption beyond what is optimal.

Abstract
“Positional” (also called “prestige”) goods confer status on their consumers. However, this increased status is offset by reduced status to others, resulting in no direct net benefit to society. As wealth increases so does the portion of consumption motivated by positional value. Many mobility-related goods and services have positional value, including vehicle ownership and use, and exotic holidays. This paper investigates how positional value affects transportation decisions, explores the resulting economic impacts, and discusses implications for transport policy and planning.

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Contentment is natural wealth; luxury, artificial poverty.
- Socrates (469-399 BC)

Introduction
Social position (also called prestige and status) refers to a person’s social rank. Many goods have positional value (as opposed to functional value) because they increase the status of their consumers (Wikipedia 2006). These are called positional (or prestige or status) goods, the consumption of which is considered conspicuous (Veblen 1899). Examples include fashionable jewelry and clothing, ostentatious homes, luxurious vehicles and extravagant entertainment. Conceptual tests of positional value are, “Would I choose this particular good if it were unpopular?” and “Would I choose this good if nobody else knew?” Prestige value is often a component of functional goods. For example, many motorists choose vehicles with greater potential speeds and offroad abilities then actually needed because these features are considered prestigious.

From an individual’s subjective perspective positional value is very important. Popular culture embodies vehicles and travel decisions with symbolic value – they help define a person’s identity. An offhand judgment about a person’s transportation (“Take me away from here in that nice car of yours,” or “He’s riding a loser cruiser”) can cause delight or pain. Having a prestigious vehicle can increase a young person’s chance of dating, and therefore mating, a popular partner. Employees can enhance their self confidence and careers by driving fashionable cars. Living in a prestigious neighborhood raises a person’s social status and networking opportunities. Business competitiveness often requires accommodating customers’ preferences for status goods.

However, from society’s overall perspective, positional goods provide little or no net benefit because gains to one individual are offset by losses to others (Hirsch, 1976; Frank, 1999). For example, if one person drives a prestigious car his or her peers must obtain equally prestigious vehicles to maintain status. It represents a form of inflation, popularly called “keeping up with the Joneses,” that raises everybody’s costs without increasing overall welfare. Positional value is therefore an economic trap, a situation in which individuals compete in ways that waste resources (also called a social trap, reflecting society’s overall perspective, a zero sum game, reflecting the fact that gains to one represent losses to another, or a treadmill, because to the degree that social position is based on economic success in competitive conditions, people feel that they must work harder to maintain a given level of status). Described differently, prestige value is an economic transfer rather than a net economic gain.

This paper investigates how positional value affects transportation decisions, explores the resulting economic impacts (including impacts on social welfare and external costs), and discusses implications for transport policy and planning. Although the general implications of positional goods have been discussed for decades, research regarding mobility as a positional good is relatively limited and primarily theoretical, suggesting that it is fertile ground for analysis and application to decision-making.
The Science of Happiness

To evaluate the overall value of positional goods requires a deeper understanding of how consumption decisions affect overall happiness, which economists call social welfare. Most economists recognize that material wealth is just one factor affecting welfare, but that critical concept is often ignored in practice; economic progress is usually evaluated based on indicators of material wealth and productivity such as changes in income, property ownership and Gross Domestic Product (Redefining Progress 2006).

Developed countries have achieved a high level of material wealth that could provide a high level of social welfare. But happiness is elusive. Residents of wealthy countries complain about excessive stress, inadequate leisure time and social isolation. If we had 21st Century productivity with 19th Century expectations we would live in Eden, but economic traps erode much of the potential welfare gains from material progress, reducing the efficiency with which we achieve happiness.

Researchers have investigated factors that affect how much happiness people achieve and the efficiency with which wealth provides happiness (Frank, 1999; Easterlin, 2003; Diener and Seligman 2004; Stutz 2006; The Economist 2006; Dolan, Peasgood and White 2006; Gilbert 2006; Leonhardt 2008). This research indicates that rising from poverty to moderate wealth increases happiness, but once people’s basic food, housing and medical care needs are met the relationship between wealth and happiness weakens. Increased wealth can increase happiness if used efficiently or it may provide little additional happiness if squandered. Some people learn to be happier with less wealth, for example, by choosing a more satisfying but less lucrative job, as illustrated in Figure 1.

Figure 1  Wealth and Happiness (Based On Stutz 2006)

Starting from poverty, increased material wealth tends to increase happiness. But once people achieve basic material comfort, wealth may either be used efficiently, providing more happiness, or inefficiently, with large increases in consumption that provide little additional happiness. Some people learn to achieve greater happiness with less wealth.
Economic traps reduce the efficiency with which wealth creates happiness (Easterbrook 2003). Increased aggregate wealth raises the amount of consumption required to achieve a given status level and the portion of consumption devoted to positional value, as illustrated in Figure 2. Material affluence (abundant money) often requires sacrificing time affluence (abundant free time) and social affluence (abundant friendships). Since material affluence is more conspicuous than other affluence types, positional competition skews people’s decisions toward more work and consumption than optimal. For example, it dissuades people from choosing more satisfying but lower-paying jobs or working fewer hours to have more time for family and friends because these are less prestigious. This explains why people often complain about the long hours they work to afford expensive holidays they need to recover from job stress. Increased consumption also tends to increase problems such as congestion, obesity, smoking, alcoholism and drug use. This helps explain why happiness is so elusive (Scitovsky 1976).

**Figure 2 Positional and Functional Value** (Galbraith 1958; Stutz 2006)

Starting from poverty, increased material wealth provides significant benefits (happiness) by improving health and comfort, but once people’s basic physical needs are met, an increasing portion of wealth is devoted to positional goods. These goods raise the status of people who consume them but reduce the status of others and so provide no net benefit to society overall.

The efficiency with which wealth provides happiness is affected by both individual and public decisions. Individuals can choose more satisfying but lower paying jobs, avoid wasting money on unsatisfying luxury goods and choose friends who value their behavior rather than material wealth. Public policies and community values can contribute to inefficient consumption. For example, if planning decisions or social attitudes favor automobile travel over lower-cost modes, people are forced to drive more than they actually prefer, contributing to a cycle of more costly travel, declines in more affordable alternatives, and increases in external costs such as congestion, risk and pollution.
Money and Happiness: Here’s Why You Won’t Laugh All the Way to the Bank

It’s only money. *Really.* If you’re reading this column, you are no doubt looking to get ahead financially. But don’t kid yourself: All those extra dollars won’t make you extra happy. In recent years, economists and psychologists have turned their attention to “happiness research” – and the results are a little disturbing if your life’s goals are a bigger paycheck and a fatter nest egg. Money alone just doesn’t buy a whole lot of happiness.

To be sure, high-income earners often express greater satisfaction with their lives. In a 2004 survey, 43% of those with family incomes of $90,000 or more reported being “very happy,” versus 22% for those with incomes below $20,000. But the truth is messier than such surveys suggest. Yes, if you live in poverty, more money can bolster your happiness, but once you’re safe and warm and fed, it makes surprisingly little difference. “Once you get to the lower-middle class, then it takes a lot of income to make a difference. Income does matter, just not as much as people think,” says Professor David Schkade.

Indeed, despite rising standards of living, just 30% of Americans described themselves as “very happy” in the late 1990s, down from 34% in the early 1970s, according to a study by economics professors David Blanchflower and Andrew Oswald published July 2004 in the *Journal of Public Economics*. Researchers speculate that our happiness is influenced not by our absolute level of wealth and income, but rather by how our financial situation compares with friends and colleagues. This may help explain why so many high-income earners describe themselves as “very happy.”

Other studies indicate that people with higher incomes tend to spend more time working, commuting and engaging in obligatory nonwork activities such as home maintenance, all of which are associated with less happiness. The results indicate that people who are richer aren’t having a better time, but if you ask them about their lives, they report being a little more satisfied than those who are less affluent.

This raises the question: If more money won’t make us much happier, what will? Here are four pointers.

- Keep your commute short. Tempted to use your latest pay raise to buy a big house in a distant suburb? Don’t do it. While we often adjust amazingly well to life’s hardships, commuting is an exception. “You can’t adapt to commuting, because it’s entirely unpredictable,” says Daniel Gilbert, author of *Stumbling on Happiness*. “Driving in traffic is a different kind of hell every day.”

- Choose time over money. Cutting back work hours will likely leave you happier, even if it means less pay. What about the fall in your standard of living? It may hurt less than you imagine. True, you are thrilled when you buy a new car. Soon enough, however, the good feelings fade.

- Think carefully about how you spend your dollars. While a new car may not boost your happiness for long, maybe a trip to Europe would. ”Money itself doesn’t make you happy,” Prof. Gilbert says. “What can make you happy is what you do with it. There’s a lot of data that suggests experiences are better than durable goods.” The car might seem like the better purchase, because it has lasting value. But, in fact, it sits in the driveway, slowly deteriorating. Experiences don’t hang around long enough to disappoint you. What you have left are wonderful memories.

- Use your leisure time wisely. Surveys show that leisure is better for your happiness than work. But much also depends on how you spend your leisure time. Passive activities like watching television usually don’t make folks as happy as eating. A good meal, in turn, doesn’t rank quite as highly as active leisure activities, such as socializing with friends. “Going to a dinner at a nice restaurant, where you’re going to see friends and eat good food, is one of the best combinations,”
Spending on positional goods can increase individual's position in society, and their feelings of confidence and success, but provides little net benefit to society, since gains to the prestige good consumer are offset by losses to others (those who compete for status) (Verhoef and van Wee 2000). In addition, some prestige goods impose indirect and external costs. In particular, increased vehicle travel increases congestion, road and parking facility costs, accidents, pollution, physical inactivity, and reduced accessibility for non-drivers (Litman 2006). It is important for economists and decision-makers to account for this when evaluating policies (Stutz 2006).

Since this affects resource consumption it is a sustainability issue (TRB 1997; Litman and Burwell 2006). Sustainability requires maximizing the social welfare provided by material resource consumption, as illustrated in Figure 3. Some factors that increase help create more efficient and sustainable transport can increase people’s quality of life and happiness (Steg and Gifford 2005). For example, reducing automobile travel and increasing walking and cycling tend to increase fitness and health, and increase equity.

**Figure 3**  
Sustainable Development

Sustainability requires constraining material consumption within ecological limits (such as limiting land consumption to protect habitat, and reducing fossil fuel consumption to minimize pollution emissions), sustainable development requires maximizing the efficiency with which material wealth provides happiness, as indicated by blue arrows. Economic traps shift consumers toward less efficient and therefore less sustainable resource consumption, as indicated by red arrows.

It may therefore be rational and beneficial for society to implement policies that avoid these economic traps, such as progressive tax structures and special taxes on luxury goods (Frank 2005). Many economists and public officials are understandably reluctant to support strategies that contradict consumer sovereignty (the idea that consumers should be free to choose any goods they want). However, society often intervenes in markets to reduce unjustified harm, such as outlawing drugs, and to favor basic services over luxury services, such as subsidizing healthcare. Policies to reduce the harm of prestige-induced wasteful consumption can be justified on both efficiency and equity grounds.
Transportation Impacts

*Positional value influences transportation activities in several ways, described below.*

**Motor Vehicle Ownership**

Positional value motivates some people to increase their vehicle ownership beyond what they would otherwise choose (Steg, 2004). For example, a lower-income person might be best off overall relying on a combination of walking, cycling, public transit and rented cars, but chooses instead to own an automobile because of the status it conveys. Teenagers will sometimes work primarily to afford a vehicle that is primarily used to commute to work, a pattern that is only rational if car ownership is considered an end in itself. Some seniors own vehicles that they seldom drive, although it would be cheaper to rely on taxis, because not driving is stigmatized.

Once a person owns a vehicle they are motivated to use it in order to maximize the value of their fixed expenses. The prestige value of vehicle ownership therefore shifts people from multi-modal lifestyles (they share vehicles and use various modes) to automobile dependency (each driver has a personal vehicle, which is used for most travel).

Consider how it feels to not own a motor vehicle in an automobile-dependent society: It feels bad, in part because automobiles are an important status symbol that many people use to display their identity (so people who do not own an automobile are considered “nobodies”), and in part because non-drivers frequently face practical problems, such as inadequate walking and cycling conditions, poor public transit service, and unpleasant stops and station waiting areas.

It is difficult to determine the magnitude of this effect. Motor vehicles do provide significant functional benefits, so prestige value alone only increases vehicle ownership only modestly, perhaps 5-15% in the short-term, reflecting marginal value automobiles, such as a vehicles owned by lower-income residents of communities with good transit service (so they can manage without an automobile) and households’ second, third or fourth car. Its impacts are probably larger over the long run as higher vehicle ownership further increases automobile dependency, as described later.

Research by Currie and Delbose (2010) investigated how factors related to transport disadvantage (such as physical and economic constraints on people’s mobility) and social exclusion (such as unemployment and poverty) affect people’s wellbeing, measured using responses to life satisfaction surveys. They found that being transport disadvantaged is positively associated with social exclusion, and social exclusion tends to reduce well-being. However, both highly-mobile and transport disadvantaged people experience time poverty (stress due to excessive commitments) which tends to reduce well-being. This suggests that increased vehicle travel may provide little increase in wellbeing if either the extra speed is used to travel longer distances rather than to reduce total travel time, or if motorists must work longer hours to afford a car, leading to time poverty.
**Luxury Vehicles**

Prestige value motivates many consumers to purchase more expensive vehicles than they otherwise would (Carlsson, Johansson-Stenman and Martinsson, 2003). This is illustrated by the prominence luxury vehicles receive in status-oriented publications such as the Robb Report (www.robbreport.com) and Millionaire Magazine (www.millionaire.com). Such vehicles may provide some functional benefits compared with cheaper and more practical vehicles, such as increased reliability, durability and safety (although not always, particularly sports cars), and more pleasurable driving (although not always, particularly large SUVs), but much of their attraction is positional.

**Figure 4**  
Prestigious Vehicles

*Positional value motivates drivers to select expensive and inefficient vehicles such as a Hummer.*

Only a small portion (perhaps 10%) of the overall fleet can be considered truly luxury vehicles, but positional value encourages consumers to choose higher value vehicles than they would if such vehicles lacked status value or were not used as symbols of group identity. For example, some groups value 4 x 4 trucks and SUVs, while others value low-riders built for street racing, or sports cars designed for performance. Embodying automobiles with status tends to increases vehicle ownership, vehicle costs, and vehicle travel as owners drive more to display their vehicles and justify their investments. Many vehicle prestige features (larger size, increased performance, off-road capability, additional accessories) that reduce fuel efficiency, leading to increased resource consumption that provides little net social benefit (Verhoef and Bert van Wee, 2000).

**Pimp My Ride, Television Show** (http://en.wikipedia.org/wiki/Pimp_My_Ride)

Each car is a custom “pimp,” tailored to the personalities and interests of the owners. For example, a Need for Speed: Underground 2 fan had his car painted to look like one he customized in the game, while a bowler had a ball washer installed in his trunk. Work usually includes new paint, accessories, chrome, tires and rims, and internal electronics. At the end of the show, the car is revealed to its owner, as well as all the details of the renovation and the custom features.
**Mode Choice**
Automobile travel is considered prestigious, while alternative modes such as walking, cycling and public transit are often stigmatized (Ory and Mokhtarian 2005; Vanderbilt 2010). A survey of commuters found that their decision to drive rather than use other modes resulted more from symbolic than from functional motives (Steg 2005). The stigma of alternative modes was illustrated in 1986 when, during parliamentary debate, British Prime Minister Margaret Thatcher is quoted saying, “A man who, beyond the age of 26, finds himself on a bus can count himself as a failure.” This comment was particularly callous because it was made when there were about 0.35 private vehicles per capita in the UK, compared with about 0.42 vehicles per capita now, implying that a major portion of the Prime Ministers’ constituents were “losers.”

**Figure 5  Public Transit Is Stigmatized**

This advertisement illustrates how alternative modes are stigmatized.

Buses are often called “loser cruisers,” and walking and cycling are often portrayed as undesirable and inferior travel modes. This stigmatization reduces use of alternative modes compared with what consumers would otherwise choose. For example, commuters are more likely to drive rather than use public transit, and parents are more likely to chauffeur children rather than allow them to walk or bus to school.

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**Loser Cruiser**

Today was so cold, my car won’t start. Therefore I am forced against all my will to hop on the loser cruiser. The last time I took the bus it cost $1.10 for students, and this was about 10 years ago. I’m not sure really where to start, I am trying to find which one goes to Westmount, but it’s really not that easy. The bus is full of interesting people, but I feel a little degraded riding it. I feel like saying to the strange people around me “I have a car! I swear, I work for a living and can afford it! Please believe me!” I am not happy to be waiting outside in -300 degrees waiting for the loser cruiser to come pick me up...but it’s better than walking I guess. Anyone else hate the bus??
The stigmatization of walking, cycling and public transit travel also has indirect effects. These modes experience significant economies of scale, so reductions in their demand reduce their quality of service and reduce the incentive for multi-modal land use patterns. For example, if driving is considered more prestigious than other modes, businesses will locate to maximize access by automobile rather than other modes, as described in the following section.

Because prestige modes tend to be faster but more costly than stigmatized modes, prestige value encourages people to work more hours. For example, a person might otherwise prefer to work fewer hours and rely on slower transport modes, but feels obliged to work more in order to afford car ownership, for the sake of prestige.

The magnitude of this impact is indicated by the much higher automobile mode split in North American cities compared with equally wealthy European cities that retain respect for walking, cycling and transit travel, as indicated in Figure 6. Of course, factors such as quality of service and land use patterns also affect travel behavior, but these result, in part, from long-term decisions made by individual households (such as which home to purchase) and communities (such as transportation planning decisions and land use policies) which reflect the prestige of each mode.

**Figure 6** Mode Split In Selected European Cities (ADONIS 1998)

Many wealthy cities have relatively low rates of automobile travel, reflecting the greater prestige given to alternative modes in those regions.

Although it is difficult to determine exactly how much the stigmatization of alternative modes affects travel behavior, the total impact is probably moderate to large, particularly in urban areas over the long run, increasing automobile travel 10-20% more than would otherwise occur.
By Tom Vanderbilt (www.slate.com/id/2262214/?from=rss)

In the movie *Greenberg*, Ben Stiller plays a drifting musician-turned-carpenter who’s getting over a nervous breakdown. He’s a needy and casually abusive schmuck, a socially awkward and obsessive crank. And if you need any more clues to the extent of his pathological losersdom, here’s one: He doesn’t drive. *Greenberg* once drove, as he grew up in Los Angeles. But he has since let his license lapse, an affliction apparently picked up—like something foul in a public bathroom—in New York City. *Greenberg*’s inability to drive is treated as a weakness—watch him flail hopelessly at the SUV that cuts him off at the crosswalk!—but also as a more insidious character failing.

*Greenberg* is just the most recent film in which a character’s non-automobility is used for comic effect, whether as a metaphor for a deeper personality flaw or as a token of marginality and/or plain creepiness. As the humorist Art Buchwald observed, “People are broad-minded. They’ll accept the fact that a person can be an alcoholic, a dope fiend, a wife beater and even a newspaperman, but if a man doesn’t drive, there’s something wrong with him.”

This attitude seems to flourish in Hollywood. Why does the film industry have such contempt for the carless? We could attribute it to the simple fact of the film industry’s base in Los Angeles, a place whose residents—film directors and otherwise—can hardly imagine life without a car. Or perhaps it’s the wider society that has trouble conceiving of life outside the omnipresent sphere of what sociologist John Urry calls “automobility,” one tenet of which is “the dominant culture that organizes and legitimates socialities across different genders, classes, ages and so on; that sustains major discourses of what constitutes the good life and what is necessary for an appropriate citizenship of mobility; and that provides potent literary and artistic images and symbols.”

And so anything outside this dominant culture is treated as, well, a little weird. The list of prominent bicyclists in film history includes misfit teens (*Napoleon Dynamite*), eccentric Einstein-like scientists (the license-less Jeff Goldblum character in *Independence Day*), vaguely countercultural types, perpetual man-children (*Pee-Wee’s Big Adventure*), and people who otherwise refuse to grow up or are out of touch with real life. In *The 40-Year-Old Virgin*, for example, Steve Carell is that rarest of filmic creatures: a bona-fide bike commuter, shown pedaling to work, navigating the various hazards of the traffic landscape. A boon for alternative modes, perhaps, except for the fact that the bicycle, like the character’s penchant for collecting action figures and his virginal status, is treated with a certain condescension. “I’m not the only person in the world who rides a bike,” he protests to his co-workers, one of whom replies: “Yeah, everyone rides a bike, when they’re fucking 6.”

When carless people aren’t virgins or castrati they’re typecast as sexual deviants. There’s the pedophile character, Walter in *The Woodsman*; in one scene, Walter is given a ride by a co-worker, who says, “There’s something wrong with this picture...Here’s this nice, hard-working guy who suddenly appears out of the blue and rides the bus to and from work. I mean, who rides the bus anymore?” “People without cars,” replies Walter. “Very weird,” says Vicki. And in the Oscar-winning *Crash*, the character played by Ludacris observes that the “only one reason buses have such big, wide windows” is to “to humiliate the poor brothers reduced to riding in them.”

However, as noncar modes of transportation begin to penetrate even Los Angeles, Hollywood is beginning to allow some exceptions. The comedy *500 Days of Summer* features two relatable, attractive young professionals who find various ways to get around Los Angeles, even taking a train. It all seems very normal. And with films like *The 40-Year Old Virgin*, perhaps the fact that cycling is shown as a real mode choice—even if with some attendant baggage—represents progress of sorts.
Automobile-Dependent Land Development (Sprawl)

Single-family homes and suburban locations tend to be considered more prestigious than more compact homes in urban neighborhoods. Market surveys indicate that many households choose suburban homes primarily for their social attributes (prestige, security and good schools) rather than physical attributes such as large lawns (NAR and NAHB 2002; Litman 2007).

For example, in the Academy Award winning film *American Beauty*, the mother, frustrated that her teenage daughter does not appreciate the family’s material wealth, as indicated by their perfectly-maintained suburban home, proclaims, “When I was your age, I lived in a duplex!” This illustrates how popular culture considers anything other than a single-family suburban home socially inferior.

The positional value of single-family, suburban housing tends to shift housing location decisions toward more automobile-dependent neighborhoods than what consumers would consider optimal based only on their physical needs and preferences, as illustrated in Figure 7. For example, a household that would otherwise prefer an apartment shifts to a townhouse, a household that would otherwise prefer a townhouse shifts to a small-lot single-family house, and a household that would otherwise prefer a small-lot single-family house chooses a large-lot house, because these are considered more prestigious.

*Figure 7* Suburban Location Prestige Shifts Consumer Decisions

Greater prestige of single-family homes and suburban location encourages households to choose more automobile-dependent neighborhoods than if such decisions were based functional preferences.

This contributes to a self-reinforcing cycle of increased automobile dependency and sprawl, as illustrated in Figure 8. In recent years, urban living has become more popular, particularly among some social groups, such as young professionals and retirees, as illustrated in popular television shows and films which show interesting people living urban lifestyles, but this type of living is still considered exceptional overall.

*Figure 8* Cycle of Automobile Dependency and Sprawl
This figure illustrates the self-reinforcing cycle of increased automobile dependency and sprawl. The prestige of suburban locations and degradation of urban locations is part of this cycle.

People who live and work in suburban locations tend to drive significantly more than residents of more multi-modal urban locations. If more multi-modal, urban locations were as prestigious as suburban locations, perhaps 10-30% of suburban households would shift to such locations, reducing their per capita vehicle miles of travel 20-40%, providing total reductions of 2-12%.

Research by Stutzer and Frey (2004) suggests that households often exaggerate the benefits of larger homes and underestimate the costs and stress of long commutes when making housing location decisions. The researchers suggest that trade-offs between commuting, income and housing size are biased in favor of longer commutes because the costs (more stress) are hidden while the benefits (higher income and larger homes) are visible and socially sanctioned.

**People Out of Sync With Their Values**

“In all my travels I saw very little real poverty, I mean the grinding terrifying poorness of the Thirties. That at least was real and tangible. No, it was a sickness, a kind of wasting disease. There were wishes but no wants. And underneath it all the building of energy like gases in a corpse. When that explodes, I tremble to think what will be the result. Over and over I thought we lack the pressures that make men strong and the anguish that makes men great. The pressures are debts, the desires are for more material toys, and the anguish is boredom. Through time, the nation has become a discontented land.”

John Steinbeck, Letter to Publisher for *Travels With Charlie.*
**Longer Distant Recreation Travel**

Travel facilitates *discovery*, that is, it helps people explore the world and themselves. This can occur at many levels, people walking or bicycling on local streets to explore their neighborhood, traveling across town to try a new restaurant or store, or traveling account the world to experience a different culture and to explore their response to that experience. It is therefore understandable, and often socially desirable, that people are able to experience long-distance recreational travel.

However, demand for long-distance holiday trips results, in part, from the prestige associated with exotic destinations (Veblen 1899; Duffy 2002; Ory and Mokhtarian 2005). As international travel becomes more common, more exotic destinations are needed for a trip to be considered unusual, causing vacationers to travel greater distances than they functionally enjoy, so a trip can be considered special. As a result, many tourists make rushed trips to distant resorts with little interaction with local people or culture (many resorts discourage such interactions), and while there demand services (food, shelter and entertainment) identical to what they could obtain closer to home. Many four-day visits require two-days of travel (one day each way), so travelers have little time to relax and enjoy the experience. Much of the pleasure of such trips comes from the sense of having visited a distant location, and the resulting bragging rights.

**Figure 9** More Distant Travel

*Tourists travel to increasingly distant destinations although they often have little interest in the unique features of that area. They are partly motivated by the prestige of traveling to an exotic location.*

Because people use such travel to compete for prestige, this type of travel demand is virtually unlimited. If international travel were sufficiently cheap, parents might have birthday parties in distant lands, even for children too young to appreciate the experience, simply to make it a “special” event. If interplanetary travel were sufficiently cheap, an earth-bound holiday might be considered dull.

It is difficult to determine how much positional value affects total travel. Many people are sincerely interested in visiting distant and unusual destinations, but the prestige of such trips probably increases some travel activity, particularly to exotic locations, such as Cancun, Mexico and Tahiti.
Planning Practices
For much of the last century, transportation and land use planning practices tended to favor automobile and air travel over other modes, with dedicated funding, minimum parking requirements, and transport system quality indicators that primarily considered automobile travel conditions. These practices partly reflect the sense by public officials that these modes are prestigious. This effect is often subtle, reflected in extra enthusiasm for automobile improvements and weak support for efforts to improve alternative modes. These practices are particularly obvious in developing countries where the majority of transport resources are often devoted to improving automobile transportation, although the majority of residents rely on other modes. For example, in recent years Mexico City dedicated $500 million to new freeway construction but depended on foreign aid to finance a $30 million Bus Rapid Transit route.

Although it is difficult to determine exactly how much prestige value contributed to automobile dependency, even a small contribution could have large effects on mobility over the long term (Soron, 2006).

Industrial Development Policy
Many people, including many decision-makers, consider the vehicle manufacturing industry particularly important and glamorous, leading to public policies that favor it over other sectors. Many jurisdictions offer generous public subsidies to attract vehicle production facilities, often much greater per job than offered to other industries and exceeding what is economically justified. The global vehicle industry is overcapitalized, with significant excess capacity and numerous countries competing to expand their exports, resulting in losses to many producers. Most countries would be better off supporting other industries that provide greater returns and more competitive advantage.

Figure 10  Vehicle Production

Many countries subsidize their automobile industry more than is rationally justified.

It is difficult to know how much the perceived glamour of the motor vehicle industry affects travel behavior. It has probably increased vehicle production and therefore vehicle ownership and use than is economically optimal.
Summary
Table 1 summarizes the positional value categories identified in this paper and their transport impacts. Although these impacts may individually seem modest, stimulating vehicle travel just a few percent, their effects are cumulative. Their total travel impacts are probably moderate to large, increasing per capita vehicle ownership 5-15%, and vehicle travel 10-30% in the short term, and more over the long-term, compared with what would occur if motor vehicle travel were not considered prestigious and alternative modes were not stigmatized.

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<thead>
<tr>
<th>Category</th>
<th>Description</th>
<th>Travel Impacts</th>
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<tbody>
<tr>
<td>Vehicle Ownership</td>
<td>Households own more vehicles than functionally justified or cost effective.</td>
<td>Increased vehicle ownership and therefore use.</td>
</tr>
<tr>
<td>Luxury Vehicles</td>
<td>Motorists choose more valuable vehicles.</td>
<td>Increases vehicle costs. Stimulates some additional vehicle travel.</td>
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<tr>
<td>Mode Choice</td>
<td>Alternative modes (such as walking, cycling, ridesharing and public transit) stigmatized relative to driving.</td>
<td>Reduces use of alternative modes, and over the long term reduces their quantity and quality, increasing automobile travel.</td>
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<tr>
<td>Long-Distance Recreational Travel</td>
<td>Encourages consumers to choose more distant holiday travel destinations.</td>
<td>Increased long-distance holiday travel.</td>
</tr>
<tr>
<td>Planning Practices</td>
<td>Planners and public officials favor automobile and air travel.</td>
<td>Increases investment in automobile and air travel, and reduces the quality of alternatives.</td>
</tr>
<tr>
<td>Industrial Policy</td>
<td>Public officials favor motor vehicle industries more than economically justified.</td>
<td>Increases automobile ownership and use.</td>
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This table summarizes the categories of prestige value travel impacts.

This conclusion is supported by the significantly higher rates of automobile travel in communities where walking and transit are stigmatized compared with equally wealthy communities where walking and transit travel are respected. For example, in most U.S. cities 80-90% of trips are made by automobile, compared with 40-60% of trips in wealthy European cities. Although it is difficult to separate out the specific factors that affect travel, such as fuel prices and transit service quality, the relative levels of prestige of different modes by public officials and consumers is undoubtedly an important factor.

For this analysis we can divide travel into its functional and prestige components. Functional travel is the amount and type of travel that people choose because it provides efficient access to desired goods, services and activities. The prestige component consists of the additional transportation costs that people incur for prestige sake, including more costly modes, more costly vehicles, and more costly destinations.

Travel demand has a long tail, meaning that if prices (perceived user costs) decline consumers will increase their mobility, as illustrated in Figure 11, in part due to competition for status. For example, if financial and time costs were low enough, Los Angeles residents would travel to New York for dinner, London for a show, and return home to sleep in their own bed, in part, so they can brag about their worldliness and avoid embarrassment if their neighbors brag about making...
such trips. The additional travel provides minimal user benefit, because it consists of low value travel that consumers will only take if their costs are low enough and forego if their costs increase.

**Figure 11**  
Travel Demand Curve

![Travel Demand Curve](image-url)

*The demand curve for mobility has a long tail: as prices decline mileage increases even if the additional travel provides small incremental benefits and imposes significant external costs. As a result, an increasing portion of travel has negative social value (total benefits are less than total costs, including energy and environmental externalities), indicated by the red shaded area.*

Figure 12 illustrates the resulting demand curves (the amount of transport that people will consume at various prices). The *Functional Value* demand curve illustrates the amount of time and money that people would rationally spend on transport to satisfy their needs. The *Prestige Value* curve illustrates the additional travel that people consume if more costly modes and more isolated locations provide social status. For example, some commuters who would be better off overall by walking, cycling, ridesharing or riding public transit to work, instead drive because alternative modes are stigmatized. Similarly, some households own vehicles that they cannot afford, or take on risks such as driving uninsured, because driving is more prestigious than alternative modes. In addition, some households choose more automobile-dependent locations or isolated holiday destinations, not because they enjoy the physical attributes of a large lot or distant resort, but because they believe that will enhance their social status.
A portion of transport has functional value: it is the amount and type of travel that consumers would rationally choose to maximize the value from their time and money expenditures. Prestige Value is the additional costs that result when people use transport to gain status. This benefit those individual but provides little or no overall benefit, because it reduces other people’s status, so everybody is forced to consume more to maintain a given level of status and self-confidence.

This increase in vehicle travel imposes various costs on society and increases various transportation problems (Litman 2006):

- Traffic congestion.
- Road and parking facility costs.
- Traffic accidents.
- Energy consumption
- Pollution emissions
- Dispersed, urban-fringe development (sprawl).
- Reduced mobility options for non-drivers.
- Reduced fitness and health.
- Tourism impacts on traditional societies and natural features.

As a result, the additional travel stimulated by prestige value can have negative net benefit, that is, its incremental costs are greater than its incremental benefits. In addition to being economically inefficient, positional value tends to be inequitable because it reduces the status of physically, economically and socially disadvantaged people who rely on lower status modes. In particular, it reduces the quality of walking, cycling and public transit transport, and discourages investments in these modes, which harms disadvantaged people who rely on them.

Described more positively, increasing the status of efficient transportation options such as walking, cycling, ridesharing and public transit can help reduce problems such as traffic congestion, accidents, energy dependence and transportation inequity. This suggests that marketing solutions may be as important as engineering improvements in solving future transportation problems.
Possible Offsetting Benefits

It could be argued that positional value provides social benefits that offset their costs. Prestige value motivates consumers to earn more money, and so stimulates education, employment and economic productivity. However, this is not unique to transport, and there is little evidence that transport prestige value is better at motivating productivity gains than other goods, such as attractive homes and new electronics. To the degree that prestige mobility imposes more external costs per dollar than other prestige goods (which appears to be true: although many goods impose external costs during production, motorized transport also imposes external costs during use, including congestion, road and parking facility costs, accidents and pollution), it is wasteful to encourage or even accommodate such activities.

Prestige value stimulates technological innovation and industrial development. There is little doubt that demand for prestige products encourages motor vehicle manufactures to innovate. During certain time periods in certain regions, motor vehicle production helped stimulate industrial development, but the global vehicle industry is now experiencing overcapacity, making vehicle manufacturing relatively unprofitable while other industries, such as electronics and software development, now provide greater innovation returns on investments.

Prestige value also stimulates total resource consumption. To the degree that a healthy economy needs overall consumption to be stimulated (an assumption of Keynesian economics), prestige-stimulated mobility can be considered an ideal strategy since it has almost unlimited potential to consume. However, since motor vehicle travel imposes significant external costs, increasing its consumption is less desirable than increasing consumption of other goods that have fewer external costs and greater external benefits. For example, society would probably be better off if households compete for status based on their education achievement, the beauty of their gardens, or their community contributions than the value of their vehicles.

It is possible that other forms of transport may become more prestigious, reducing or even reversing biases favoring motor vehicle travel and sprawl. For example, some social groups consider bicycle commuting prestigious, and some communities (particularly large cities with well-established rail transit systems) have no stigma associated with transit travel. In recent years, popular culture, as expressed in films and television shows, has glamorized urban lifestyles, at least for young professionals and retirees. However, these are exceptions, and are generally overwhelmed by biases favoring motorized transport. Much greater shifts will be needed before transport decisions could be considered unbiased, efficient and equitable.
Implications for Planning

Prestige value has significant implications for transport and land use planning. It reduces net benefits of some mobility activities (particularly automobile and air travel), increases transport problems, and makes travel demand virtually unlimited. Although it is difficult to quantify the total effects of positional value on mobility, the direction of impacts is clear: It erodes the net welfare gain of increased vehicle use and increases external costs. Trying to satisfy the additional mobility demand stimulated by prestige value is economically inefficient and unfair to people who rely on alternative modes, and so are worse off with increased automobile dependency.

Good public policy favors necessities over luxuries (Kemp 1998), and so should favor basic mobility (transport activity considered socially valuable) over less important transport activity (“Basic Mobility,” VTPI 2006). This need not require strict regulations or rationing; it may simply involve modest changes in planning and pricing practices to favor alternative modes and test consumer demand for luxury mobility (Litman 2005).

Increased motor vehicle ownership and mobility may provide indirect benefits by supporting particular industries and innovations. However, this reduces development of other industries and their innovations. To the degree that consumers truly enjoy mobility intense goods and activities and are willing to pay their full costs, there is no reason to constrain them. However, there is no reason to favor mobility intense industries and goods over other, or to underprice such goods relative to their full costs.

Below are specific examples of public policy strategies to reduce the negative effects of transport prestige value (Sally Cairns, et al. 2004; VTPI 2006).

- Favor basic, functional mobility over luxury mobility in transport planning and pricing.
- Avoid letting prestige value bias planning decisions to favor automobile and air travel to the detriment of alternative modes such as walking, cycling and public transit. Review current transport planning and funding practices to identify and correct unintended biases.
- Apply luxury taxes, road pricing and emission fees to internalize external costs and capture some of the value that would otherwise be lost through competition.
- Use positional value in marketing to help achieve transport planning objectives (“TDM Marketing,” VTPI, 2006). For example, it may be important to insure that public transit planning responds to consumer preferences, and that such services are well marketed.
- It may be appropriate to enhance the status of public transit by implementing urban rail rather than bus transit, and providing more attractive and comfortable stations and vehicles.
- Promote nonmotorized modes as part of a desirable lifestyle.
- Promote walkable, mixed-use, transit-oriented communities as desirable places to live, and an automobile-dependent community as outdated and unsophisticated.
Conclusions

Positional goods confer status on their users, but this benefit is offset by reduced status to others, resulting in little or no net benefit to society. If the additional consumption stimulated by prestige value imposes external costs it can make society worse off overall. This is an economic trap through which resources are wasted. As society becomes wealthier an increasing portion of consumption reflects positional value.

Positional value significantly affects transport activity. It increases demand for more costly, faster, resource-intensive modes at the expense of cheaper, slower, more resource-efficient modes. This increases per capita vehicle ownership and travel, reduces use of alternative modes, stimulates sprawl, and encourages more distant holiday destinations. Total impacts are significant, probably increasing vehicle travel by 10-30% in the short term and more over the long term. This increases direct costs to consumers and external costs such as congestion, accident and pollution imposed on others.

This has several implications for transport policy and planning. It means that functional travel demand (the level of mobility that provides physical benefits) is significantly lower than what is reflected by consumer behavior; that a significant and growing portion of transport activity provides negative net social benefit; and that efforts to satisfy prestige-stimulated transport demand is both futile and economically harmful. It means that the benefits of increased mobility from an individual's perspective are much greater than the net benefits from society's perspective. It is important that decision makers understand these impacts and take them into account in transport policy and planning analysis.

Positional value means that individual-level demand analysis will overstate aggregate welfare gains since a portion of benefits to individual consumers (those who consume more mobility) are offset by welfare losses to others. This is in addition to the impacts of other, more commonly recognized externalities such as congestion and pollution.

Prestige value may provide indirect benefits by supporting certain industries and innovation but there is no evidence that mobility-related industries should be favored over others or that consumption of mobility stimulates more innovation than other goods.

Economics is concerned with maximizing social welfare, that is, total human happiness. Sustainability requires limiting resource consumption to accommodate ecological and social constraints. Sustainable economics therefore requires maximizing the efficiency with which resource consumption provides happiness. Positional goods contradict this by reducing the social welfare gain provided by the consumption of resources such as a gallon of fuel and travel time. Positional value therefore tends to reduce sustainability.

This is a relatively new research subject. Although previous authors have explored the general impacts of positional value on social welfare there has been little analysis regarding its impacts on transport. More research is justified to better understand how prestige value affects travel behavior and transport economic, and how policies that affect the status of mobility-related goods can be structured to support planning objectives.
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