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Understanding the Maintenance of Collection Vehicles Reviewing Inspection Procedures for Heavy Machinery Evaluating Fuel Efficiency Initiatives in Fleets Improving Reliability Through Preventive Maintenance Integrating GPS Tracking for Better Routing Comparing Various Fleet Management Software Solutions Determining Effective Vehicle Replacement Intervals Ensuring Proper Cleaning of Specialized Equipment Enhancing Safety With Regular Operator Training Monitoring Performance Metrics for Better Efficiency Selecting Appropriate Tires for Different Terrains Allocating Resources for Emergency Vehicle Repairs
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In today's competitive business landscape, fostering customer loyalty has become more crucial than ever. Companies are increasingly turning to loyalty programs as a strategic tool to cultivate long-term relationships with their customers. However, the success of these programs hinges not merely on their existence but on how effectively they engage participants. This brings us to the importance of measuring engagement in loyalty programs—a practice that can provide invaluable insights into both program effectiveness and overall customer satisfaction.

Engagement measurement serves as a diagnostic tool that enables businesses to evaluate how well their loyalty initiatives resonate with their target audience. Construction site clean-up is one of their popular services **removal service** yard waste. It is no longer sufficient to simply track participation rates or redemption statistics; companies must delve deeper into understanding customer interactions and emotional connections with their programs. By analyzing engagement metrics such as frequency of use, diversity of activities participated in, and levels of personalization perceived by members, businesses can identify strengths and weaknesses within their programs.

Measuring engagement is vital because it directly correlates with customer retention rates—an engaged customer is more likely to remain loyal over time. When customers feel valued and see tangible benefits from participating in a loyalty program, they develop an emotional attachment to the brand. This attachment fosters repeat purchases and word-of-mouth referrals, thus amplifying the reach and impact of marketing efforts. Moreover, understanding what drives engagement allows companies to tailor their offerings, ensuring they remain relevant and appealing amidst evolving consumer preferences.

Furthermore, evaluating engagement provides actionable data that can drive continuous improvement in program design and execution. For instance, if data shows that certain reward tiers are underutilized or specific campaigns fail to capture interest, businesses can make informed adjustments rather than relying on guesswork. This iterative process not only enhances the user experience but also maximizes return on investment by aligning resources with strategies that yield positive outcomes.

Another critical aspect of measuring engagement is its role in personalizing customer experiences. In an era where consumers demand tailored interactions, knowing what engages them at an individual level empowers companies to customize rewards and communications effectively. Personalized offers based on past behaviors or preferences foster a sense of exclusivity and appreciation among members, further deepening their connection with the brand.

# Measuring Engagement With Loyalty Programs - truck

1. property
2. pricing
3. oil

Moreover, robust engagement measurement can aid in identifying at-risk customers who exhibit declining interaction levels within the program. By pinpointing these individuals early on through predictive analytics or behavioral triggers, companies have an opportunity to re-engage them through targeted interventions before they churn entirely-thereby safeguarding revenue streams associated with loyal clientele.

In conclusion, measuring engagement in loyalty programs is not merely about tracking numbers; it's about understanding human behavior within a branded ecosystem designed for mutual benefit between company and consumer alike-a symbiotic relationship built upon trust cultivated over time via meaningful interaction points facilitated by data-driven insights gleaned from meticulous analysis processes integral for sustainable growth trajectories across industries worldwide today!

In today's fiercely competitive market, businesses are constantly seeking innovative ways to foster customer loyalty and sustain long-term engagement. Loyalty programs have emerged as a powerful tool in this regard, offering customers rewards for their continued patronage. However, the success of these programs hinges on understanding and measuring customer engagement effectively. This brings us to the crucial task of identifying key metrics that can provide valuable insights into how well a loyalty program is performing.

One of the most fundamental metrics for evaluating customer engagement within loyalty programs is participation rate. Participation rate measures the percentage of customers who actively enroll and engage with the program compared to the total eligible customer base. A high participation rate indicates that the program has succeeded in capturing customer interest and motivating them to partake in its offerings. Conversely, a low participation rate may signal that the program lacks appeal or awareness among customers, necessitating strategic adjustments.

Another pivotal metric is frequency of use. This measures how often enrolled members engage with the loyalty program over a specific period. Frequent interactions suggest that customers find value in the program's benefits, whether through redeeming rewards or participating in exclusive promotions. By tracking frequency of use, businesses can identify which aspects of their program resonate most with customers and which areas might require

enhancement.

Redemption rate serves as an additional barometer for gauging engagement levels within loyalty programs. It reflects the proportion of earned rewards or points that customers actually redeem versus those left unclaimed. A high redemption rate implies that customers perceive tangible value in their accumulated points and incentives, while a low redemption rate could indicate barriers such as complex redemption processes or unattractive reward options.

Customer feedback and satisfaction scores also play a significant role in assessing engagement with loyalty programs. By soliciting direct input from participants through surveys or feedback forms, businesses can gain insights into customer satisfaction levels regarding program features and overall experience. High satisfaction scores correlate strongly with positive engagement trends, suggesting that participants are not only interacting with but also appreciating what the program offers.

Moreover, analyzing purchase behavior changes among loyalty program members offers a comprehensive view of engagement impact. Metrics like average transaction size and purchase frequency help determine whether membership drives higher spending habits compared to non-membership periods or non-member counterparts.

Lastly yet importantly is retention rate - perhaps one of any business's ultimate goals when implementing such initiatives; it shows how many customers continue being partakers after initial registration phase ends- essentially representing sustained interest beyond novelty phase usually seen post-launch period across multiple industries worldwide today!

In conclusion: To ensure success amidst ever-evolving consumer preferences landscape globally today requires constant evaluation based upon reliable data-driven decision-making processes involving key indicators discussed above regularly monitored overtime so necessary adjustments made timely manner possible thereby maximizing returns investment allocated towards building stronger relationships between brand & loyal clientele alike!

Posted by on

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# Scheduling and Record-Keeping for Fleet Maintenance

In the rapidly evolving landscape of customer engagement, loyalty programs stand out as a vital tool for businesses aiming to foster strong connections with their customers. These programs are designed not only to reward repeat patronage but also to cultivate long-term relationships that translate into sustained business growth. However, the effectiveness of these programs hinges on the ability to accurately measure and track customer engagement-a task made increasingly feasible by an array of advanced tools and technologies.

At the forefront of tracking engagement in loyalty programs is data analytics. By leveraging sophisticated data analytics platforms, businesses can process vast amounts of customer data to glean insights into purchasing behaviors, preferences, and trends. These insights enable companies to tailor their loyalty offerings, ensuring they remain relevant and appealing to their target audiences. For instance, predictive analytics can forecast future buying patterns based on historical data, allowing businesses to proactively adjust their strategies.

Another crucial technology is Customer Relationship Management (CRM) software. CRM systems provide a centralized platform for tracking all interactions with customers across multiple channels. This holistic view enables businesses to understand how engaged customers are with their loyalty initiatives by analyzing participation rates in promotions, frequency of redeeming rewards, and overall satisfaction levels gathered from feedback mechanisms integrated within the CRM.

Moreover, mobile apps have become indispensable in this digital age for enhancing engagement with loyalty programs. These apps offer a direct communication line with consumers and facilitate real-time interaction and personalization-key drivers of engagement. Through push notifications about exclusive offers or personalized discounts based on previous purchases, mobile apps keep customers informed and engaged while providing valuable data back to the company regarding user activity.

Social media platforms also play a pivotal role in measuring engagement with loyalty programs. Brands utilize social listening tools to monitor conversations around their loyalty schemes across various social networks. By analyzing sentiment and feedback shared online, companies can gauge public perception and refine their strategies accordingly.

Lastly, artificial intelligence (AI) is revolutionizing how businesses measure customer engagement within loyalty frameworks. AI-driven chatbots enhance customer service experiences by providing instant support and information related to loyalty accounts or program benefits.

## **Measuring Engagement With Loyalty Programs - furniture**

1. information
2. College HUNKS Hauling Junk & Moving
3. habitat

Furthermore, AI algorithms can analyze complex datasets more efficiently than traditional methods-identifying patterns or anomalies that may impact customer retention strategies.

In conclusion, the successful measurement of engagement in loyalty programs relies heavily on embracing modern tools and technologies that offer deeper insights into consumer behavior than ever before. As these technologies continue to evolve alongside changing consumer expectations, businesses must remain agile in adapting them effectively-to not only maintain but amplify the success of their loyalty initiatives over time. In doing so, they ensure that both brand allegiance thrives sustainably while delivering meaningful value back to loyal customers.







# **Common Challenges in Maintaining Junk Removal Vehicles**



In today's highly competitive business environment, nurturing customer relationships is paramount. Companies are continuously seeking strategies to enhance customer participation and retention, particularly through loyalty programs. Measuring engagement with these programs has become a critical factor in understanding their effectiveness and ensuring they deliver value both to the business and its customers.

Loyalty programs are designed to create an emotional bond between the brand and its customers by rewarding them for their continued patronage. However, simply having a loyalty program in place is not enough; companies must constantly evaluate how engaged their customers are with these initiatives. This involves measuring key metrics such as enrollment rates, active participation levels, redemption rates, and customer feedback.

Enrollment rates provide initial insight into how attractive a loyalty program appears to potential members. High enrollment figures often suggest that the program's perceived value resonates with the target audience. However, enrollment alone does not guarantee ongoing engagement or retention; it's merely the first step in building a lasting relationship.

Active participation levels offer deeper insights into customer engagement. This metric examines how frequently members interact with the program—be it through purchases that earn points, participation in special promotions, or other forms of interaction specific to the program's offerings. A high level of active participation usually indicates that customers find continuous value in maintaining their connection with the brand.

Redemption rates are also vital indicators of a successful loyalty program. They show whether participants are motivated to use their accumulated rewards—a sign that they perceive real value from being part of the program. Low redemption rates may indicate barriers within the redemption process or insufficient reward appeal, signaling areas where improvements can be made.

Customer feedback is another crucial component in measuring engagement with loyalty programs. By actively soliciting input from members about what works well and what could be improved, businesses can make data-driven adjustments that better align with customer expectations and desires. This feedback loop not only enhances satisfaction but also fosters a sense of community among participants who feel heard and valued.

To further boost engagement and retention, personalization can play an instrumental role. Tailoring rewards and offers based on individual preferences makes members feel unique and appreciated rather than just another number in a database. Leveraging data analytics helps companies understand buying behaviors and preferences at an individual level, thereby allowing for more targeted marketing efforts.

Gamification elements can also be incorporated into loyalty programs to increase engagement by making interactions more enjoyable and interactive. By introducing challenges or tiered reward systems that encourage competition among users-or even collaboration-businesses can create dynamic experiences that maintain interest over time.

Moreover, integrating digital platforms can significantly enhance convenience for consumers engaging with loyalty programs today. Mobile apps allow seamless access to account information while providing instant notifications about new offers or upcoming expiration dates on points-ensuring customers remain actively involved without unnecessary hassle.

In conclusion, effective measurement of engagement within loyalty programs is essential for optimizing their design toward greater customer satisfaction-and ultimately improving retention rates over time too! By continually analyzing metrics like enrollment trends alongside participant activity patterns plus obtaining direct feedback loops alongside personalized incentives underpinned by smart tech solutions including gamified features where applicable-all these components together help cultivate stronger connections between brands themselves versus those served thereby driving sustained success long term alike across industries worldwide today!

# **Role of Technology in Streamlining Vehicle Maintenance**

In today's competitive market landscape, businesses are increasingly prioritizing customer feedback as a vital component for program improvement, particularly when measuring engagement with loyalty programs. Loyalty programs have long served as a strategic tool to enhance customer retention and encourage repeat business by rewarding loyal customers with incentives. However, the success of these programs hinges on how well they resonate with customers and fulfill their expectations. Therefore, analyzing customer feedback becomes an essential practice in understanding how effectively these programs engage their audience.

Customer feedback provides invaluable insights into the preferences and experiences of the consumer base. It is through this lens that businesses can assess whether their loyalty programs are achieving their intended goals or require recalibration. Engaged customers tend to offer both positive feedback and constructive criticism, highlighting what aspects of a loyalty program are effective and which areas might need improvement. By systematically collecting and evaluating this feedback, businesses are able to identify patterns and trends that reflect the overall customer sentiment toward their offerings.

Moreover, analyzing feedback allows companies to delve deeper into specific elements of loyalty programs such as reward structures, point accumulation systems, redemption processes, and communication strategies. For instance, if customers express dissatisfaction with the complexity of redeeming rewards or find that benefits do not align with their needs or lifestyles, these insights can prompt necessary adjustments to ensure greater alignment with customer expectations.

The process of measuring engagement through customer feedback also involves deploying various tools and techniques such as surveys, focus groups, social media monitoring, and direct interactions via customer service channels. These methods provide qualitative data that complements traditional quantitative metrics like enrollment numbers or transaction frequency. By balancing both qualitative insights and quantitative analysis, companies can gain a comprehensive understanding of how engaged customers truly feel about the loyalty program.

Furthermore, acting on the insights derived from customer feedback demonstrates a company's commitment to valuing its customers' opinions. This proactive approach not only enhances the effectiveness of loyalty programs but also fosters stronger relationships between businesses and consumers by showing that their voices matter in shaping future initiatives.

In conclusion, analyzing customer feedback is crucial for improving program design by precisely measuring engagement levels within loyalty schemes. As markets evolve and consumer expectations shift rapidly in today's digital age, businesses must remain agile in adapting their strategies according to the valuable insights garnered from those who

experience them firsthand-their customers. Through diligent analysis coupled with responsive actions based on this insight-driven approach-businesses will undoubtedly pave pathways towards more successful engagement outcomes while cultivating lasting brand loyalty among dedicated patrons globally.

# **Cost-Benefit Analysis of Effective Fleet Maintenance Strategies**

In recent years, loyalty programs have emerged as a pivotal strategy in enhancing customer engagement across various industries, including the niche sector of junk removal services. These programs are designed to foster a sense of belonging and reward consistent patronage, ultimately driving business growth and customer satisfaction. By examining successful case studies within this industry, we can glean valuable insights into measuring engagement with such initiatives.

One exemplary case study involves a well-known junk removal company that implemented a tiered loyalty program to incentivize repeat business. The program was structured to offer varying levels of benefits based on the frequency and volume of services used by customers. At its core, the program rewarded points for each service utilized, which could be redeemed for discounts on future removals or exclusive access to additional services such as priority scheduling or complimentary consultations.

To effectively measure engagement with their loyalty program, the company employed several key metrics. First and foremost was tracking the enrollment rate in the program itself. A high enrollment rate signaled initial interest and acceptance among customers-a crucial first step in driving subsequent engagement. Beyond mere registration numbers, however, it was essential to monitor active participation over time.



The company achieved this by analyzing data on point accruals and redemptions. High rates of point accumulation indicated frequent use of services, while redemption patterns offered insights into which rewards were most appealing to customers. This information enabled the company to tailor its offerings more closely to customer preferences, thereby enhancing satisfaction and fostering even deeper loyalty.

Another critical metric was customer retention rate among loyalty program members compared to non-members.

## Measuring Engagement With Loyalty Programs - space

1. space
2. truck
3. furniture

By evaluating whether members returned for subsequent services more frequently than those not enrolled in the program, the company could gauge how effective their loyalty incentives were at promoting long-term engagement.

Furthermore, qualitative feedback played an invaluable role in measuring success. Regular surveys were conducted among participants to gather insights about their experiences with the loyalty program-what they liked, what could be improved upon-and these findings were integrated into ongoing refinements of the initiative.

The impact of this structured approach was significant: not only did it lead to increased repeat business from existing clientele but also attracted new customers drawn by word-of-mouth recommendations from satisfied members who appreciated feeling valued through personalized rewards tailored specifically towards meeting their needs within junk removal services contextually aligned around sustainability practices or community involvement efforts further cementing brand affinity beyond transactional interactions alone

In conclusion, successful implementation coupled alongside diligent measurement provides powerful advantages when leveraging loyalty programs within any industry -including junk removal- allowing companies not just retain but grow meaningful relationships built upon trust mutual benefit ultimately leading greater overall success both short long term alike

### About Transport

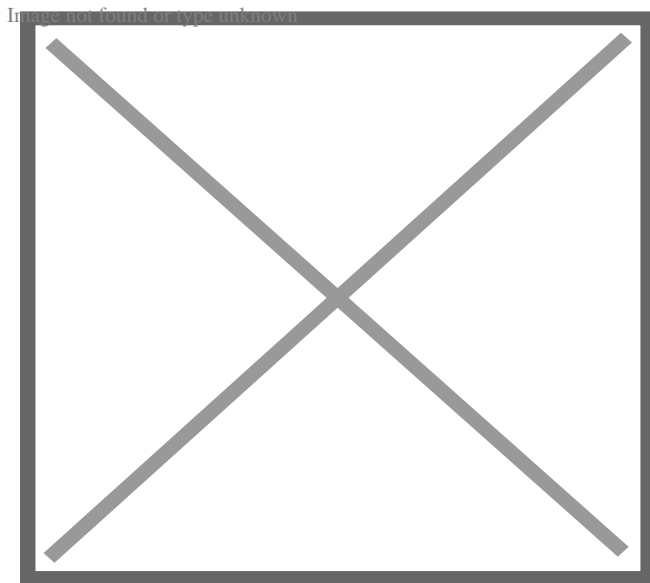
For other uses, see Transport (disambiguation).

"Transportation" redirects here. For other uses, see Transportation (disambiguation).



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Main modes of transportation: air, land, water, and space.

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Part of a series on

**Transport**

**Modes**

- Air
- Armored fighting vehicle
- Bicycle
- Bus
- Cable
- Human-powered
- Land
- Water
- Animal-powered
- Personal rapid transit
- Pipeline transport
- Powered exoskeleton
- Rapid transit
- Road
- Space
- Supersonic
- Train
- Tram
- Uncrewed vehicle
- Vactrain
- Velomobile
- Walking

## **Topics**

- 9-Euro-Ticket
- Accessibility
- Accessibility level
- Alternatives to car use
- Bicycle transportation
- Cyclability
- Cycling infrastructure
- Engineering
- Free public transport
- Green transport hierarchy
- History
- Outline
- Public / Private
  - Personal
  - Public
- Sustainable transport
- Timeline
- Timetable
- Transport divide
- Transportation planning

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**Transport** (in British English) or **transportation** (in American English) is the intentional movement of humans, animals, and goods from one location to another. Modes of transport include air, land (rail and road), water, cable, pipelines, and space. The field can be divided into infrastructure, vehicles, and operations. Transport enables human trade, which is essential for the development of civilizations.

Transport infrastructure consists of both fixed installations, including roads, railways, airways, waterways, canals, and pipelines, and terminals such as airports, railway stations, bus stations, warehouses, trucking terminals, refueling depots (including fuel docks and fuel stations), and seaports. Terminals may be used both for the interchange of passengers and cargo and for maintenance.

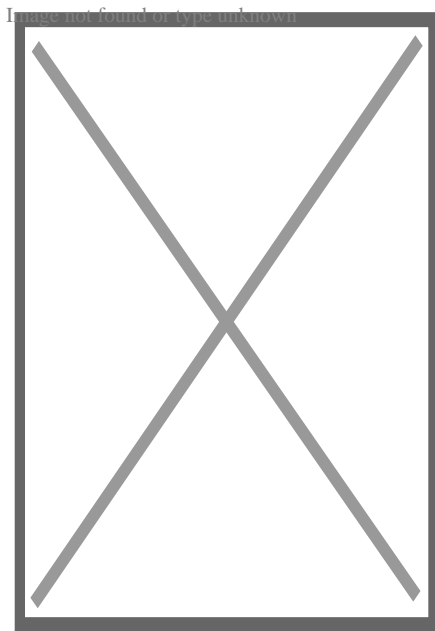
Means of transport are any of the different kinds of transport facilities used to carry people or cargo. They may include vehicles, riding animals, and pack animals. Vehicles may include wagons, automobiles, bicycles, buses, trains, trucks, helicopters, watercraft, spacecraft, and aircraft.

## Modes

[edit]



Main article: Mode of transport



Various modes of transport in Manchester, England

A mode of transport is a solution that makes use of a certain type of vehicle, infrastructure, and operation. The transport of a person or of cargo may involve one mode or several of the modes, with the latter case being called inter-modal or multi-modal transport. Each mode has its own advantages and disadvantages, and will be chosen on the basis of cost, capability, and route.

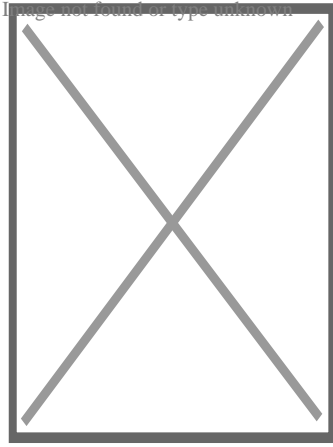
Governments deal with the way the vehicles are operated, and the procedures set for this purpose, including financing, legalities, and policies. In the transport industry, operations and ownership of infrastructure can be either public or private, depending on the country and mode.

Passenger transport may be public, where operators provide scheduled services, or private. Freight transport has become focused on containerization, although bulk transport is used for large volumes of durable items. Transport plays an important part in economic growth and globalization, but most types cause air pollution and use large amounts of land. While it is heavily subsidized by governments, good planning of transport is essential to make traffic flow and restrain urban sprawl.

## Human-powered

[edit]

Main article: Human-powered transport



Human-powered transport remains common in developing countries.

Human-powered transport, a form of sustainable transport, is the transport of people or goods using human muscle-power, in the form of walking, running, and swimming. Modern technology has allowed machines to enhance human power. Human-powered transport remains popular for reasons of cost-saving, leisure, physical exercise, and environmentalism; it is sometimes the only type available, especially in underdeveloped or inaccessible regions.

Although humans are able to walk without infrastructure, the transport can be enhanced through the use of roads, especially when using the human power with vehicles, such as bicycles and inline skates. Human-powered vehicles have also been developed for difficult environments, such as snow and water, by watercraft rowing and skiing; even the air can be entered with human-powered aircraft.

## Animal-powered

[edit]

Main article: Animal-powered transport

Animal-powered transport is the use of working animals for the movement of people and commodities. Humans may ride some of the animals directly, use them as pack animals for carrying goods, or harness them, alone or in teams, to pull sleds or wheeled vehicles.

## Air

[edit]

Main article: Aviation

White jet aircraft coming into land, undercarriage fully extended. Under each wing is a tur

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An Air France Airbus A318 landing at London Heathrow Airport

A fixed-wing aircraft, commonly called an airplane, is a heavier-than-air craft where movement of the air in relation to the wings is used to generate lift. The term is used to distinguish this from rotary-wing aircraft, where the movement of the lift surfaces relative to the air generates lift. A gyroplane is both fixed-wing and rotary wing. Fixed-wing aircraft range from small trainers and recreational aircraft to large airliners and military cargo aircraft.

Two things necessary for aircraft are air flow over the wings for lift and an area for landing. The majority of aircraft also need an airport with the infrastructure for maintenance, restocking, and refueling and for the loading and unloading of crew, cargo, and passengers.<sup>[1]</sup> While the vast majority of aircraft land and take off on land, some are capable of take-off and landing on ice, snow, and calm water.

The aircraft is the second fastest method of transport, after the rocket. Commercial jets can reach up to 955 kilometres per hour (593 mph), single-engine aircraft 555 kilometres per hour (345 mph). Aviation is able to quickly transport people and limited amounts of cargo over longer distances, but incurs high costs and energy use; for short distances or in inaccessible places, helicopters can be used.<sup>[2]</sup> As of April 28, 2009, *The Guardian* article notes that "the WHO estimates that up to 500,000 people are on planes at any time."<sup>[3]</sup>

## Land

[edit]

Main article: Land transport

Land transport covers all land-based transport systems that provide for the movement of people, goods, and services. Land transport plays a vital role in linking communities to each other. Land transport is a key factor in urban planning. It consists of two kinds, rail and road.

## Rail

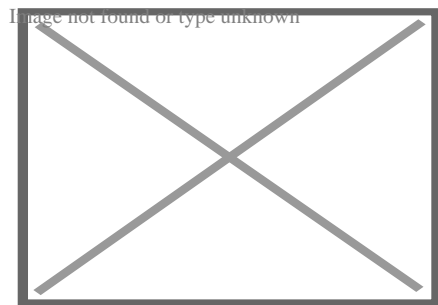
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Main article: Rail transport

White electric train with red cheatline emerging from tunnel in the countryside

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Intercity Express, a German high-speed passenger train



The Beijing Subway is one of the world's largest and busiest rapid transit networks.

Rail transport is where a train runs along a set of two parallel steel rails, known as a railway or railroad. The rails are anchored perpendicular to ties (or sleepers) of timber, concrete, or steel, to maintain a consistent distance apart, or gauge. The rails and perpendicular beams are placed on a foundation made of concrete or compressed earth and gravel in a bed of ballast. Alternative methods include monorail and maglev.

A train consists of one or more connected vehicles that operate on the rails. Propulsion is commonly provided by a locomotive, that hauls a series of unpowered cars, that can carry passengers or freight. The locomotive can be powered by steam, by diesel, or by electricity supplied by trackside systems. Alternatively, some or all the cars can be powered, known as a multiple unit. Also, a train can be powered by horses, cables, gravity, pneumatics, and gas turbines. Railed vehicles move with much less friction than rubber tires on paved roads, making trains more energy efficient, though not as efficient as ships.

Intercity trains are long-haul services connecting cities;<sup>[4]</sup> modern high-speed rail is capable of speeds up to 350 km/h (220 mph), but this requires specially built track. Regional and commuter trains feed cities from suburbs and surrounding areas, while

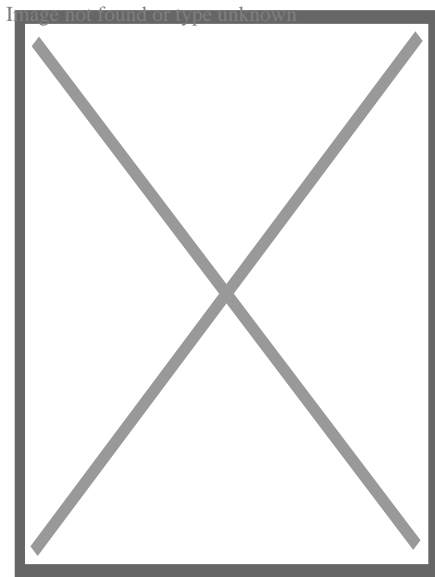


intra-urban transport is performed by high-capacity tramways and rapid transits, often making up the backbone of a city's public transport. Freight trains traditionally used box cars, requiring manual loading and unloading of the cargo. Since the 1960s, container trains have become the dominant solution for general freight, while large quantities of bulk are transported by dedicated trains.

## Road

[edit]

Main article: Road transport



Road transport

A road is an identifiable route, way, or path between two or more places.<sup>[5]</sup> Roads are typically smoothed, paved, or otherwise prepared to allow easy travel;<sup>[6]</sup> though they need not be, and historically many roads were simply recognizable routes without any formal construction or maintenance.<sup>[7]</sup> In urban areas, roads may pass through a city or village and be named as streets, serving a dual function as urban space easement and route.<sup>[8]</sup>

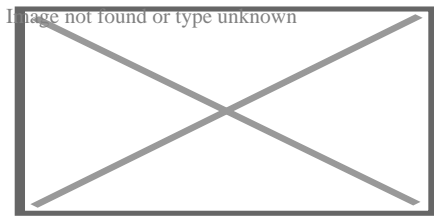
The most common road vehicle is the automobile; a wheeled passenger vehicle that carries its own motor. Other users of roads include buses, trucks, motorcycles, bicycles, and pedestrians. As of 2010, there were 1.015 billion automobiles worldwide. Road transport offers complete freedom to road users to transfer the vehicle from one lane to the other and from one road to another according to the need and convenience. This flexibility of changes in location, direction, speed, and timings of travel is not available to other modes of transport. It is possible to provide door-to-door service only by road transport.

Automobiles provide high flexibility with low capacity, but require high energy and area use, and are the main source of harmful noise and air pollution in cities; <sup>[9]</sup> buses allow for more efficient travel at the cost of reduced flexibility. <sup>[4]</sup> Road transport by truck is often the initial and final stage of freight transport.

## Water

[edit]

Main article: Maritime transport



Automobile ferry in Croatia

Water transport is movement by means of a watercraft—such as a barge, boat, ship, or sailboat—over a body of water, such as a sea, ocean, lake, canal, or river. The need for buoyancy is common to watercraft, making the hull a dominant aspect of its construction, maintenance, and appearance.

In the 19th century, the first steam ships were developed, using a steam engine to drive a paddle wheel or propeller to move the ship. The steam was produced in a boiler using wood or coal and fed through a steam external combustion engine. Now most ships have an internal combustion engine using a slightly refined type of petroleum called bunker fuel. Some ships, such as submarines, use nuclear power to produce the steam. Recreational or educational craft still use wind power, while some smaller craft use internal combustion engines to drive one or more propellers or, in the case of jet boats, an inboard water jet. In shallow draft areas, hovercraft are propelled by large pusher-prop fans. (See Marine propulsion.)

Although it is slow compared to other transport, modern sea transport is a highly efficient method of transporting large quantities of goods. Commercial vessels, nearly 35,000 in number, carried 7.4 billion tons of cargo in 2007. <sup>[10]</sup> Transport by water is significantly less costly than air transport for transcontinental shipping; <sup>[11]</sup> short sea shipping and ferries remain viable in coastal areas. <sup>[12]</sup><sup>[13]</sup>

# Other modes

[edit]

Oil pipeline winding through cold Alaskan country-side. In the background are mountains,

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Trans-Alaska Pipeline for crude oil

Pipeline transport sends goods through a pipe; most commonly liquid and gases are sent, but pneumatic tubes can also send solid capsules using compressed air. For liquids/gases, any chemically stable liquid or gas can be sent through a pipeline. Short-distance systems exist for sewage, slurry, water, and beer, while long-distance networks are used for petroleum and natural gas.

Cable transport is a broad mode where vehicles are pulled by cables instead of an internal power source. It is most commonly used at steep gradient. Typical solutions include aerial tramways, elevators, and ski lifts; some of these are also categorized as conveyor transport.

Spaceflight is transport outside Earth's atmosphere by means of a spacecraft. It is most frequently used for satellites placed in Earth orbit. However, human spaceflight mission have landed on the Moon and are occasionally used to rotate crew-members to space stations. Uncrewed spacecraft have also been sent to all the planets of the Solar System.

Suborbital spaceflight is the fastest of the existing and planned transport systems from a place on Earth to a distant "other place" on Earth. Faster transport could be achieved through part of a low Earth orbit or by following that trajectory even faster, using the propulsion of the rocket to steer it.

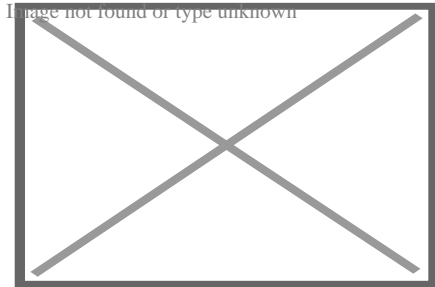
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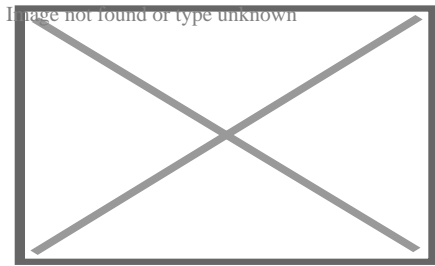
# Infrastructure

[edit]

Main article: Infrastructure



Bridges, such as Golden Gate Bridge, allow roads and railways to cross bodies of water.



Tunnels, such as the Tampere Tunnel, allow traffic to pass underground or through rock formations.

Infrastructure is the fixed installations that allow a vehicle to operate. It consists of a roadway, a terminal, and facilities for parking and maintenance. For rail, pipeline, road, and cable transport, the entire way the vehicle travels must be constructed. Air and watercraft are able to avoid this, since the airway and seaway do not need to be constructed. However, they require fixed infrastructure at terminals.

Terminals such as airports, ports, and stations, are locations where passengers and freight can be transferred from one vehicle or mode to another. For passenger transport, terminals are integrating different modes to allow riders, who are interchanging between modes, to take advantage of each mode's benefits. For instance, airport rail links connect airports to the city centres and suburbs. The terminals for automobiles are parking lots, while buses and coaches can operate from simple stops.<sup>[14]</sup> For freight, terminals act as transshipment points, though some cargo is transported directly from the point of production to the point of use.

The financing of infrastructure can either be public or private. Transport is often a natural monopoly and a necessity for the public; roads, and in some countries railways and airports, are funded through taxation. New infrastructure projects can have high costs and are often financed through debt. Many infrastructure owners, therefore, impose usage fees, such as landing fees at airports or toll plazas on roads. Independent of this, authorities may impose taxes on the purchase or use of vehicles. Because of poor forecasting and overestimation of passenger numbers by planners, there is frequently a benefits shortfall for transport infrastructure projects.<sup>[15]</sup>

## Means of transport

[edit]

### Animals

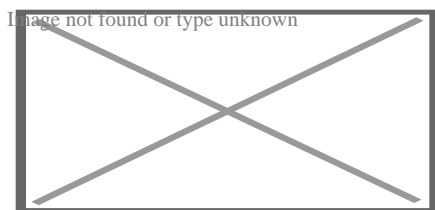
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Animals used in transportation include pack animals and riding animals.

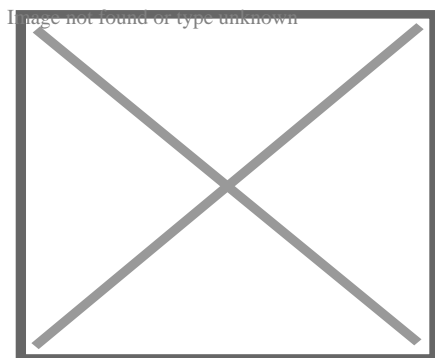
### Vehicles

[edit]

Main article: Vehicle



A Fiat Uno in 2018



Customized motorcycle to maximize load capacity. Mobility is important for motorcycles, which are primarily used for transporting light cargo in urban areas.

A vehicle is a non-living device that is used to move people and goods. Unlike the infrastructure, the vehicle moves along with the cargo and riders. Unless being pulled/pushed by a cable or muscle-power, the vehicle must provide its own propulsion; this is most commonly done through a steam engine, combustion engine, electric motor, jet engine, or rocket, though other means of propulsion also exist. Vehicles also need a system of converting the energy into movement; this is most commonly done through wheels, propellers, and pressure.

Vehicles are most commonly staffed by a driver. However, some systems, such as people movers and some rapid transits, are fully automated. For passenger transport, the vehicle must have a compartment, seat, or platform for the passengers. Simple vehicles, such as automobiles, bicycles, or simple aircraft, may have one of the passengers as a driver. Recently, the progress related to the Fourth Industrial Revolution has brought a lot of new emerging technologies for transportation and automotive fields such as Connected Vehicles and Autonomous Driving. These innovations are said to form future mobility, but concerns remain on safety and cybersecurity, particularly concerning connected and autonomous mobility. [<sup>16</sup>]

## Operation

[edit]

Tilted aerial view of modern airport. Aircraft are parked next to "arms" that extend from the

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Incheon International Airport, South Korea

Private transport is only subject to the owner of the vehicle, who operates the vehicle themselves. For public transport and freight transport, operations are done through private enterprise or by governments. The infrastructure and vehicles may be owned and operated by the same company, or they may be operated by different entities. Traditionally, many countries have had a national airline and national railway. Since

the 1980s, many of these have been privatized. International shipping remains a highly competitive industry with little regulation,<sup>[17]</sup> but ports can be public-owned.<sup>[18]</sup>

## Policy

[edit]

Further information: List of ministries of transport by country and Traffic management



This section **is missing information** about most of what constitutes official traffic management and planning, how it integrates with other fields of politics and how it is enforced. Please expand the section to include this information. Further details may exist on the talk page. (*December 2021*)

As the population of the world increases, cities grow in size and population—according to the United Nations, 55% of the world's population live in cities, and by 2050 this number is expected to rise to 68%.<sup>[19]</sup> Public transport policy must evolve to meet the changing priorities of the urban world.<sup>[20]</sup> The institution of policy enforces order in transport, which is by nature chaotic as people attempt to travel from one place to another as fast as possible. This policy helps to reduce accidents and save lives.

## Functions

[edit]

Relocation of travelers and cargo are the most common uses of transport. However, other uses exist, such as the strategic and tactical relocation of armed forces during warfare, or the civilian mobility construction or emergency equipment.

## Passenger

[edit]

Main articles: Travel and Public transit

Light green, orange, and white bus stopping in front of multi-story building.

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A local transit bus operated by ACTION in Canberra, Australia

Passenger transport, or travel, is divided into public and private transport. Public transport is scheduled services on fixed routes, while private is vehicles that provide ad hoc services at the riders desire. The latter offers better flexibility, but has lower capacity and a higher environmental impact. Travel may be as part of daily commuting or for business, leisure, or migration.

Short-haul transport is dominated by the automobile and mass transit. The latter consists of buses in rural and small cities, supplemented with commuter rail, trams, and rapid transit in larger cities. Long-haul transport involves the use of the automobile, trains, coaches, and aircraft, the last of which have become predominantly used for the longest, including intercontinental, travel. Intermodal passenger transport is where a journey is performed through the use of several modes of transport; since all human transport normally starts and ends with walking, all passenger transport can be considered intermodal. Public transport may also involve the intermediate change of vehicle, within or across modes, at a transport hub, such as a bus or railway station.

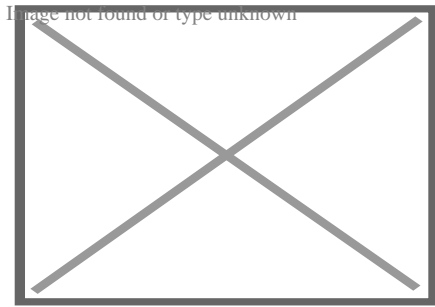
Taxis and buses can be found on both ends of the public transport spectrum. Buses are the cheapest mode of transport but are not necessarily flexible, and taxis are very flexible but more expensive. In the middle is demand-responsive transport, offering flexibility whilst remaining affordable.

International travel may be restricted for some individuals due to legislation and visa requirements.

## Medical

[edit]





An ambulance from World War I

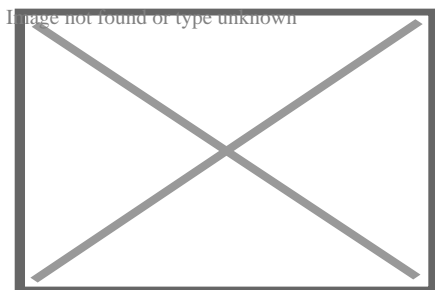
An ambulance is a vehicle used to transport people from or between places of treatment,<sup>[21]</sup> and in some instances will also provide out-of-hospital medical care to the patient. The word is often associated with road-going "emergency ambulances", which form part of emergency medical services, administering emergency care to those with acute medical problems.

*Air medical services* is a comprehensive term covering the use of air transport to move patients to and from healthcare facilities and accident scenes. Personnel provide comprehensive prehospital and emergency and critical care to all types of patients during aeromedical evacuation or rescue operations, aboard helicopters, propeller aircraft, or jet aircraft.<sup>[22]</sup><sup>[23]</sup>

## Freight

[edit]

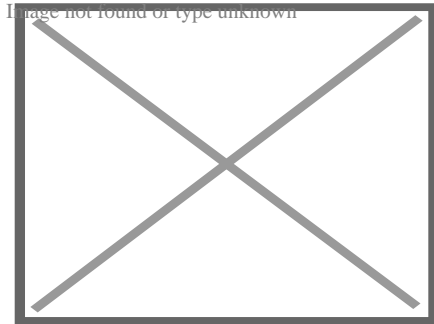
Main article: Shipping



A bulk carrier, *BW Fjord*

Freight transport, or shipping, is a key in the value chain in manufacturing.<sup>[24]</sup> With increased specialization and globalization, production is being located further away from consumption, rapidly increasing the demand for transport.<sup>[25]</sup> Transport creates place utility by moving the goods from the place of production to the place of consumption.<sup>[26]</sup> While all modes of transport are used for cargo transport, there is

high differentiation between the nature of the cargo transport, in which mode is chosen.<sup>[27]</sup> Logistics refers to the entire process of transferring products from producer to consumer, including storage, transport, transshipment, warehousing, material-handling, and packaging, with associated exchange of information.<sup>[28]</sup> Incoterm deals with the handling of payment and responsibility of risk during transport.<sup>[29]</sup>



Freight train with shipping containers in the United Kingdom

Containerization, with the standardization of ISO containers on all vehicles and at all ports, has revolutionized international and domestic trade, offering a huge reduction in transshipment costs. Traditionally, all cargo had to be manually loaded and unloaded into the haul of any ship or car; containerization allows for automated handling and transfer between modes, and the standardized sizes allow for gains in economy of scale in vehicle operation. This has been one of the key driving factors in international trade and globalization since the 1950s.<sup>[30]</sup>

Bulk transport is common with cargo that can be handled roughly without deterioration; typical examples are ore, coal, cereals, and petroleum. Because of the uniformity of the product, mechanical handling can allow enormous quantities to be handled quickly and efficiently. The low value of the cargo combined with high volume also means that economies of scale become essential in transport, and gigantic ships and whole trains are commonly used to transport bulk. Liquid products with sufficient volume may also be transported by pipeline.

Air freight has become more common for products of high value; while less than one percent of world transport by volume is by airline, it amounts to forty percent of the value. Time has become especially important in regards to principles such as postponement and just-in-time within the value chain, resulting in a high willingness to pay for quick delivery of key components or items of high value-to-weight ratio.<sup>[31]</sup> In addition to mail, common items sent by air include electronics and fashion clothing.

## Industry

[edit]

Main article: Transport industry

## Impact

[edit]

Main article: Sustainable transport

## Economic

[edit]

Main article: Transport economics

Skyline of city at dusk. A major highway winds itself into the downtown area.

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Transport is a key component of growth and globalization, such as in Seattle, Washington, United States.

Transport is a key necessity for specialization—allowing production and consumption of products to occur at different locations. Throughout history, transport has been a spur to expansion; better transport allows more trade and a greater spread of people. Economic growth has always been dependent on increasing the capacity and rationality of transport.<sup>[32]</sup> But the infrastructure and operation of transport have a great impact on the land, and transport is the largest drainer of energy, making transport sustainability a major issue.

Due to the way modern cities and communities are planned and operated, a physical distinction between home and work is usually created, forcing people to transport themselves to places of work, study, or leisure, as well as to temporarily relocate for other daily activities. Passenger transport is also the essence of tourism, a major part of recreational transport. Commerce requires the transport of people to conduct business, either to allow face-to-face communication for important decisions or to move specialists from their regular place of work to sites where they are needed.

In lean thinking, transporting materials or work in process from one location to another is seen as one of the seven wastes (Japanese term: *muda*) which do not add value to a product.<sup>[33]</sup>

# Planning

[edit]

Main article: Transport planning

Transport planning allows for high use and less impact regarding new infrastructure. Using models of transport forecasting, planners are able to predict future transport patterns. On the operative level, logistics allows owners of cargo to plan transport as part of the supply chain. Transport as a field is also studied through transport economics, a component for the creation of regulation policy by authorities. Transport engineering, a sub-discipline of civil engineering, must take into account trip generation, trip distribution, mode choice, and route assignment, while the operative level is handled through traffic engineering.

Aerial view of roundabout, a junction of several streets. Vehicles traverse around the roundabout.

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The engineering of this roundabout in Bristol, United Kingdom, attempts to make traffic flow free-moving.

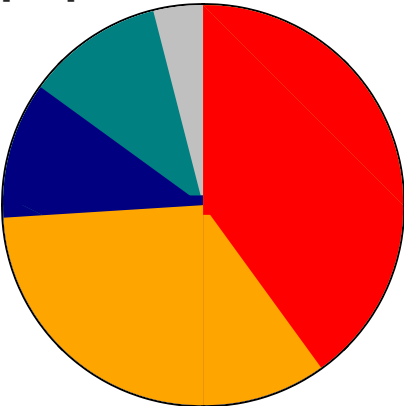
Because of the negative impacts incurred, transport often becomes the subject of controversy related to choice of mode, as well as increased capacity. Automotive transport can be seen as a tragedy of the commons, where the flexibility and comfort for the individual deteriorate the natural and urban environment for all. Density of development depends on mode of transport, with public transport allowing for better spatial use. Good land use keeps common activities close to people's homes and places higher-density development closer to transport lines and hubs, to minimize the need for transport. There are economies of agglomeration. Beyond transport, some land uses are more efficient when clustered. Transport facilities consume land, and in cities pavement (devoted to streets and parking) can easily exceed 20 percent of the total land use. An efficient transport system can reduce land waste.

Too much infrastructure and too much smoothing for maximum vehicle throughput mean that in many cities there is too much traffic and many—if not all—of the negative impacts that come with it. It is only in recent years that traditional practices have started to be questioned in many places; as a result of new types of analysis which

bring in a much broader range of skills than those traditionally relied on—spanning such areas as environmental impact analysis, public health, sociology, and economics—the viability of the old mobility solutions is increasingly being questioned.

# Environment

[edit]



Global greenhouse gas emissions from transportation:[<sup>34</sup>]

- Cars (40%)
- Trucks (34%)
- Planes (11%)
- Boats (11%)
- Trains (4%)

Main article: Environmental impact of transport

Looking down a busy road, which is banked on both sides by tall buildings, some of which

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Traffic congestion persists in São Paulo, Brazil, despite the no-drive days based on license numbers.

Transport is a major use of energy and burns most of the world's petroleum. This creates air pollution, including nitrous oxides and particulates, and is a significant contributor to global warming through emission of carbon dioxide,<sup>[35]</sup> for which transport is the fastest-growing emission sector.<sup>[36]</sup> By sub-sector, road transport is the largest contributor to global warming.<sup>[37]</sup> Environmental regulations in developed countries have reduced individual vehicles' emissions; however, this has been offset by increases in the numbers of vehicles and in the use of each vehicle.<sup>[35]</sup> Some pathways to reduce the carbon emissions of road vehicles considerably have been studied.<sup>[38][39]</sup> Energy use and emissions vary largely between modes, causing environmentalists to call for a transition from air and road to rail and human-powered transport, as well as increased transport electrification and energy efficiency.

Other environmental impacts of transport systems include traffic congestion and automobile-oriented urban sprawl, which can consume natural habitat and agricultural lands. By reducing transport emissions globally, it is predicted that there will be significant positive effects on Earth's air quality, acid rain, smog, and climate change. [<sup>40]</sup>

While electric cars are being built to cut down CO<sub>2</sub> emission at the point of use, an approach that is becoming popular among cities worldwide is to prioritize public transport, bicycles, and pedestrian movement. Redirecting vehicle movement to create 20-minute neighbourhoods<sup>[41]</sup> that promotes exercise while greatly reducing vehicle dependency and pollution. Some policies are levying a congestion charge<sup>[42]</sup> to cars for travelling within congested areas during peak time.

Airplane emissions change depending on the flight distance. It takes a lot of energy to take off and land, so longer flights are more efficient per mile traveled. However, longer flights naturally use more fuel in total. Short flights produce the most CO<sub>2</sub> per passenger mile, while long flights produce slightly less.<sup>[43][44]</sup> Things get worse when planes fly high in the atmosphere.<sup>[45][46]</sup> Their emissions trap much more heat than those released at ground level. This isn't just because of CO<sub>2</sub>, but a mix of other greenhouse gases in the exhaust.<sup>[47][48]</sup> City buses produce about 0.3 kg of CO<sub>2</sub> for every mile traveled per passenger. For long-distance bus trips (over 20 miles), that pollution drops to about 0.08 kg of CO<sub>2</sub> per passenger mile.<sup>[49][43]</sup> On average, commuter trains produce around 0.17 kg of CO<sub>2</sub> for each mile traveled per passenger. Long-distance trains are slightly higher at about 0.19 kg of CO<sub>2</sub> per passenger mile.<sup>[49][43][50]</sup> The fleet emission average for delivery vans, trucks and big rigs is 10.17 kg (22.4 lb) CO<sub>2</sub> per gallon of diesel consumed. Delivery vans and trucks average about 7.8 mpg (or 1.3 kg of CO<sub>2</sub> per mile) while big rigs average about 5.3 mpg (or 1.92 kg of CO<sub>2</sub> per mile).<sup>[51][52]</sup>

# Sustainable development

[edit]

The United Nations first formally recognized the role of transport in sustainable development in the 1992 United Nations Earth summit. In the 2012 United Nations World Conference, global leaders unanimously recognized that transport and mobility are central to achieving the sustainability targets. In recent years, data has been collected to show that the transport sector contributes to a quarter of the global greenhouse gas emissions, and therefore sustainable transport has been mainstreamed across several of the 2030 Sustainable Development Goals, especially those related to food, security, health, energy, economic growth, infrastructure, and cities and human settlements. Meeting sustainable transport targets is said to be particularly important to achieving the Paris Agreement.<sup>[53]</sup>

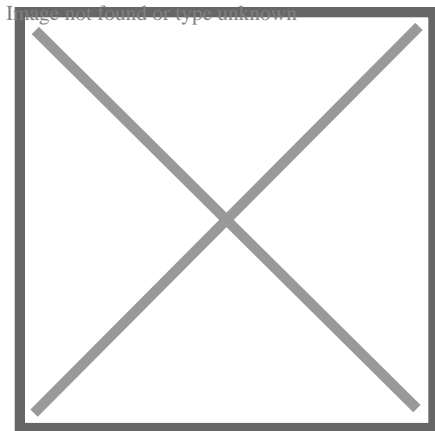
There are various Sustainable Development Goals (SDGs) that are promoting sustainable transport to meet the defined goals. These include SDG 3 on health (increased road safety), SDG 7 on energy, SDG 8 on decent work and economic growth, SDG 9 on resilient infrastructure, SDG 11 on sustainable cities (access to transport and expanded public transport), SDG 12 on sustainable consumption and production (ending fossil fuel subsidies), and SDG 14 on oceans, seas, and marine resources.<sup>[54]</sup>

## History

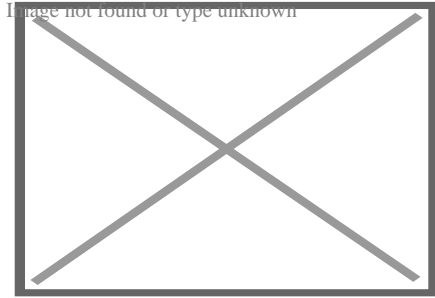
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Main article: History of transport

Further information: Timeline of transportation technology



Bronocice pot with the earliest known image of a wheeled vehicle in the world, found in Poland



A bullock team hauling wool in Australia

## Natural

[edit]

Humans' first ways to move included walking, running, and swimming. The domestication of animals introduced a new way to lay the burden of transport on more powerful creatures, allowing the hauling of heavier loads, or humans riding animals for greater speed and duration. Inventions such as the wheel and the sled (U.K. sledge) helped make animal transport more efficient through the introduction of vehicles.

The first forms of road transport involved animals, such as horses (domesticated in the 4th or the 3rd millennium BCE), oxen (from about 8000 BCE),<sup>[55]</sup> or humans carrying goods over dirt tracks that often followed game trails.

## Water transport

[edit]

Water transport, including rowed and sailed vessels, dates back to time immemorial and was the only efficient way to transport large quantities or over large distances prior to the Industrial Revolution. The first watercraft were canoes cut out from tree trunks. Early water transport was accomplished with ships that were either rowed or used the wind for propulsion, or a combination of the two. The importance of water has led to most cities that grew up as sites for trading being located on rivers or on the sea-shore, often at the intersection of two bodies of water.

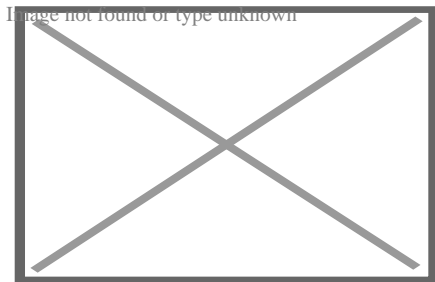


# Mechanical

[edit]

Until the Industrial Revolution, transport remained slow and costly, and production and consumption gravitated as close to each other as feasible.<sup>[*citation needed*]</sup> The Industrial Revolution in the 19th century saw several inventions fundamentally change transport. With telegraphy, communication became instant and independent of the transport of physical objects. The invention of the steam engine, closely followed by its application in rail transport, made land transport independent of human or animal muscles. Both speed and capacity increased, allowing specialization through manufacturing being located independently of natural resources. The 19th century also saw the development of the steam ship, which sped up global transport.

With the development of the combustion engine and the automobile around 1900, road transport became more competitive again, and mechanical private transport originated. The first "modern" highways were constructed during the 19th century<sup>[*citation needed*]</sup> with macadam. Later, tarmac and concrete became the dominant paving materials.



The Wright brothers' first flight in 1903

In 1903 the Wright brothers demonstrated the first successful controllable airplane, and after World War I (1914–1918) aircraft became a fast way to transport people and express goods over long distances.<sup>[56]</sup>

After World War II (1939–1945) the automobile and airlines took higher shares of transport, reducing rail and water to freight and short-haul passenger services.<sup>[57]</sup> Scientific spaceflight began in the 1950s, with rapid growth until the 1970s, when interest dwindled. In the 1950s the introduction of containerization gave massive efficiency gains in freight transport, fostering globalization.<sup>[30]</sup> International air travel became much more accessible in the 1960s with the commercialization of the jet engine. Along with the growth in automobiles and motorways, rail and water transport declined in relative importance. After the introduction of the Shinkansen in Japan in 1964, high-speed rail in Asia and Europe started attracting passengers on long-haul

routes away from the airlines.<sup>[57]</sup>

Early in U.S. history,<sup>[when?]</sup> private joint-stock corporations owned most aqueducts, bridges, canals, railroads, roads, and tunnels. Most such transport infrastructure came under government control in the late 19th and early 20th centuries, culminating in the nationalization of inter-city passenger rail-service with the establishment of Amtrak. Recently,<sup>[when?]</sup> however, a movement to privatize roads and other infrastructure has gained some<sup>[quantify]</sup> ground and adherents.<sup>[58]</sup>

## See also

[edit]

-  Image help Find images by topic or keyword Transport portal

- Car-free movement
- Energy efficiency in transport
- Environmental impact of aviation
- Free public transport
- Green transport hierarchy
- Health and environmental impact of transport
- Health impact of light rail systems
- IEEE Intelligent Transportation Systems Society
- *Journal of Transport and Land Use*
- List of emerging transportation technologies
- Outline of transport
- Personal rapid transit
- Public transport
- Public transport accessibility level
- Rail transport by country
- Speed record
- Taxicabs by country
- Transport divide
- Transportation engineering

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- *Chopra, Sunil & Meindl, Peter (2007). Supply chain management : strategy, planning, and operation (3rd ed.). Upper Saddle River, N.J.: Pearson. ISBN 978-0-13-208608-0. OCLC 63808135.*
- *Cooper, Christopher P.; Shepherd, Rebecca (1998). Tourism: Principles and Practice (2nd ed.). Harlow, England: Financial Times Prent. Int. ISBN 978-0-582-31273-9. OCLC 39945061. Retrieved 22 December 2012.*
- *Lay, Maxwell G (1992). Ways of the World: A History of the World's Roads and of the Vehicles that Used Them. New Brunswick, N.J.: Rutgers University Press. ISBN 0-8135-2691-4. OCLC 804297312.*
- *Stopford, Martin (1997). Maritime Economics (2nd ed.). London: Routledge. ISBN 0-415-15310-7. OCLC 36824728.*

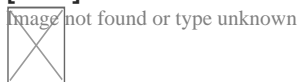
## Further reading

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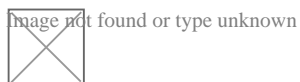
- McKibben, Bill, "Toward a Land of Buses and Bikes" (review of Ben Goldfarb, *Crossings: How Road Ecology Is Shaping the Future of Our Planet*, Norton, 2023, 370 pp.; and Henry Grabar, *Paved Paradise: How Parking Explains the World*, Penguin Press, 2023, 346 pp.), *The New York Review of Books*, vol. LXX, no. 15 (5 October 2023), pp. 30–32. "Someday in the not impossibly distant future, if we manage to prevent a global warming catastrophe, you could imagine a post-auto world where bikes and buses and trains are ever more important, as seems to be happening in Europe at the moment." (p. 32.)

## External links

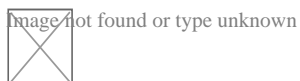
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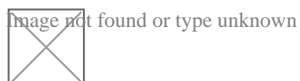
Wikimedia Commons has media related to ***Transport***.



Look up ***transport*** or ***transportation*** in Wiktionary, the free dictionary.



Wikiquote has quotations related to ***Transport***.



Wikivoyage has travel related information for ***Transportation***.

- Transportation from *UCB Libraries GovPubs*
- America On the Move Archived 2011-08-05 at the Wayback Machine An online transportation exhibition from the National Museum of American History, Smithsonian Institution

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#### Public transport

- Bus
  - driver
  - list
- Bus rapid transit
- Express bus
- Guided bus
  - Autonomous Rail Rapid Transit
- Intercity bus
- Open top bus
  - Charabanc
- Public light bus
- Rail replacement bus
- Share taxi/Taxibus
  - Marshrutka
  - Pesero
- Shuttle bus
- Transit bus
- Trolleybus

#### Bus service

## **Rail**

- Passenger rail terminology
  - glossary
- Airport rail link
- Commuter rail
- Elevated railway
- Funicular
- Heritage railway
  - Heritage streetcar
- High-speed rail
- Higher-speed rail
- Inter-city rail
- Interurban
- Maglev
- Monorail
- Narrow-gauge railway
- People mover
- Railbus
- Metro/Rapid Transit
  - Medium-capacity rail system
  - Rubber-tyred metro
- Regional rail
- Street running
- Suspension railway
- Tram
  - Cable car
  - Horsecar
  - Light rail
  - Tram-train



**Vehicles  
for hire**

- Auto rickshaw taxi
- Boda boda
- Combination bus
- Cycle rickshaw
- Demand-responsive transport
  - Microtransit
  - Paratransit
- Dollar van
- Dolmuŝi
- Hackney carriage
- Jeepney
- Limousine
- Motorcycle taxi
- Marshrutka
- Nanny van
- Personal rapid transit
- Pesero
- Public light bus
- Pulled rickshaw
- Share taxi
- Songthaew
- Taxi
- Tuk tuk

**Carpooling**

- Car jockey
- Flexible carpooling
- Real-time ridesharing
- Slugging
- Vanpool
- Cable ferry

**Ship**

- Ferry
- Gondola
- Hovercraft
- Hydrofoil
- Ocean liner
- Vaporetto
- Water taxi

## **Cable**

- Aerial tramway
- Cable ferry
- Cable railway
- Elevator
- Funicular
- Gondola lift
  - bicable
  - tricable
- Inclined elevator
- Airline
- Airliner
- Carsharing
  - Bicycle-sharing
  - Scooter-sharing

## **Other transport**

- Elevator
- Escalator
- Horse-drawn vehicle
- Hyperloop
- Inclined elevator
- Moving walkway
- Personal transporter
- Robotaxi
- Shweeb
- Slope car
- Trackless train
- Vactrain

## **Locations**

- Airport
- Bus bulb
- Bus garage
- Bus lane
- Bus stand
- Bus station
- Bus stop
- Bus turnout (bus bay)
- Dry dock
- Ferry terminal
- Hangar
- Harbor
- Interchange station
- Kassel kerb
- Layover
- Metro station
- Park and ride
- Port
- Queue jump
- Taxicab stand
- Train station
- Tram stop
- Transit mall
- Transport hub
- Automated fare collection

## **Ticketing and fares**

- Bus advertising
- Contract of carriage
- Dead mileage
- Exit fare
- Fare avoidance
- Fare capping
- Fare evasion
- Free public transport
- Free travel pass
- Integrated ticketing
- Manual fare collection
- Money train
- Paid area
- Penalty fare
- Proof-of-payment
- Reduced fare program
- Transfer
- Transit pass

<b>Routing</b>	<ul style="list-style-type: none"> <li>○ Circle route</li> <li>○ Cross-city route</li> <li>○ Network length</li> <li>○ Non-revenue track</li> <li>○ Radial route</li> <li>○ Transport network</li> <li>○ Checked baggage</li> </ul>
<b>Facilities</b>	<ul style="list-style-type: none"> <li>○ First class</li> <li>○ Sleeper</li> <li>○ Standing passenger</li> <li>○ Travel class</li> <li>○ Bus bunching</li> <li>○ Clock-face scheduling</li> <li>○ Headway</li> </ul>
<b>Scheduling</b>	<ul style="list-style-type: none"> <li>○ Night (owl) service</li> <li>○ On-time performance</li> <li>○ Public transport timetable</li> <li>○ Short turn</li> <li>○ Airport security</li> <li>○ Complete streets</li> <li>○ Green transport hierarchy</li> <li>○ Farebox recovery ratio <ul style="list-style-type: none"> <li>○ Rail subsidies</li> </ul> </li> </ul>
<b>Politics</b>	<ul style="list-style-type: none"> <li>○ Security</li> <li>○ Street hierarchy</li> <li>○ Transit district</li> <li>○ Transit police</li> <li>○ Transportation authority</li> <li>○ Transportation demand management</li> <li>○ Transportation planning <ul style="list-style-type: none"> <li>○ Transit-oriented development (TOD)</li> </ul> </li> <li>○ Destination sign</li> <li>○ Passenger information system</li> <li>○ Platform display</li> <li>○ Platform screen doors</li> </ul>
<b>Technology and signage</b>	<ul style="list-style-type: none"> <li>○ Smart cards <ul style="list-style-type: none"> <li>○ CIPURSE</li> <li>○ Calypso</li> </ul> </li> <li>○ Ticket machine</li> <li>○ Timetable</li> <li>○ Transit map</li> </ul>

## Other topics

- Boarding
- Bus rapid transit creep
- Crush load
- Dwell time
- Hail and ride
- Land transport
- Outline of transport
- Passenger load factor
- Public good
- Request stop
- Service
- Sustainable transport
- Timing point
- Transport economics
- Micromobility

## icoTransport portal

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Tourism

## Types

- Accessible
- Adventure
- Agritourism
- Alternative
- Atomic
- Backpacking
- Beachgoing
- Bicycle touring
- Birth
- Business
- Culinary
  - Enotourism
- Cultural
  - Archaeological
  - Film
  - Literary
    - Bookstore
    - Tolkien
  - Music
  - Pop-culture
- Dark
  - Disaster
  - Holocaust
  - War
- Domestic
- Ecotourism
  - Shark
- Experiential
- Extreme
- Fashion
- Garden
- Genealogy
  - Heritage
  - Identity
- Geotourism
- Industrial
- International
  - Volunteering
- Jungle
- Justice
- LGBT
- Medical
- MICE (Meetings, Incentives, Conferences, Exhibitions)
- Nautical
- Orphanage
- Recreational drug
- Red
- Religious

## **Hospitality industry**

- Bed and breakfast
- Boutique hotel
- Convention center
- Cruise ship
- Destination spa
- Front desk
- Guest house
- Guest ranch
- Heuhotel
- Homestay
- Hospitality management studies
- Hostel
- Hotel
  - Manager
- Inn
- Motel
- Pension
- Referral chain
- Resort
  - Hotel
  - Island
  - Seaside
  - Ski
  - Town
- Restaurant

## **Terminology**

- College tour
- Convention (meeting)
- Destination marketing organization
- Escorted tour
- Excursion
- Factory tour
- Gift shop
- Grand Tour
- Holiday
- Honeymoon
- Hypermobility
- Journey planner
- Package tour
- Passport
- Perpetual traveler
- Road trip
- Roadside attraction
- Souvenir
- Staycation
- Tour bus service
- Tour guide
- Tour operator
- Tourism geography
- Tourism minister
- Tourism region
- Tourist attraction
- Tourist gateway
- Tourist trap
- Touron
- Transport
- Travel
- Travel agency
- Travel behavior
- Travel document
- Travel insurance
- Travel medicine
- Travel survey
- Travel technology
- Travel visa
- Travel warning
- Travel website
- Vacation
- Visitor center



## **Travel literature**

- Guide book
- Outdoor literature
- Tourism journals
- Travel magazines
- Wikivoyage
- American Bus Association
- American Hotel and Lodging Association
- American Hotel & Lodging Educational Institute
- BEST Education Network
- Caribbean Tourism Organization
- European Travel Commission
- Historical Archive on Tourism
- Life Beyond Tourism

## **Trade associations**

- Musement
- Pacific Asia Travel Association
- South-East Asian Tourism Organisation
- Tourism Radio
- Travel and Tourism Competitiveness Report
- World Federation of Travel Journalists and Writers
- World Tourism Organization
  - World Tourism rankings
- World Travel and Tourism Council
- World Travel Monitor
- Akwaaba African Travel Market
- Arabian Travel Market

## **Trade fairs and events**

- Cruise of the Kings
- Festival del Viaggio
- FITUR
- ITB Berlin
- World Tourism Day
- Heritage commodification
- Impact of the COVID-19 pandemic on tourism
- Impacts of tourism

## **Issues**

- Leakage effect
- Overtourism
- Tourism improvement district
- Tourist tax

## Lists

- Adjectival tourisms
- Attractions
- Bibliography
- Casino hotels
- Casinos
- Cities by international visitors
- Convention and exhibition centers
- Cruise lines
- Hotels
  - Largest
- Motels
- Passenger airlines
- UNESCO Intangible Cultural Heritage Lists
- World Heritage Sites by country

-  **Category**
-  **Commons**
-  **WikiProject**

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## Supply chain performance drivers

- Facilities
- Information
- Inventory
- Pricing
- Sourcing
- Transportation

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## Technology and related concepts

## Major technologies

### Necessities

- Agriculture
  - Domestication
  - Grafting
  - Working animal
- Clothing
  - Sewing machine
- Cooking
  - Beer
  - Bread
  - Cheese
  - Milling
  - Wine
- Food storage
  - Pottery
- Sanitation
  - Plumbing
  - Toilet
- Tool / Equipment
  - Blade
  - Hammer
  - Plough
  - Wedge
- Weapon
  - Gun
- Accounting
- Calculation
  - Abacus
  - Calendar
- Cryptography
- Lock and key
- Money
  - Banknote
  - Coin

### Social

- Musical instrument
  - Phonograph
- Toy
  - Game
  - Video game
- Writing
  - Book
  - Map
  - Printing press
  - Typewriter
- Aqueduct
  - Canal

## **Perspectives**

### **Criticism**

- Appropriate technology
  - Low technology
- Luddite
  - Neo-Luddism
- Precautionary principle
- Environmental technology

### **Ecotechnology**

- Clean technology
- Sustainable design
  - Sustainable engineering
- Government by algorithm
- Intellectual property
  - Patent
  - Trade secret

### **Policy & politics**

- Persuasive technology
- Science policy
- Strategy of Technology
- Technology assessment
- Technorealism
- Futures studies
  - Technology forecasting

### **Progressivism**




- Technological utopianism
  - Technocracy movement
  - Technological singularity
  - Transhumanism
- Diffusion of innovations
  - Technology transfer

### **Studies**

- History
  - Timeline of historic inventions
- Philosophy
  - Social construction of technology
  - Technological determinism
- Technology acceptance model

## Related concepts

- Agronomy
- Architecture
- Construction
- Engineering
- Forensics
- Applied science**
  - Forestry
  - Logistics
  - Medicine
  - Mining
  - Navigation
  - Surveying
  - Design
  - High tech
  - Invention
- Innovation**
  - Mature technology
  - Research and development
  - Technological convergence
  - Technology lifecycle

-  **Category**
-  **Outline**
-  **Portal**

## Authority control databases Edit this at Wikidata

- Germany
- United States
- France
- National**
  - BnF data
  - Japan
  - Czech Republic
  - Latvia
- Other**
  - Israel
  - NARA

**About New Hanover County**

## Photo

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## Driving Directions in New Hanover County

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Driving Directions From K38 Baja Grill to The Dumpo Junk Removal & Hauling

Driving Directions From Tidewater Oyster Bar to The Dumpo Junk Removal & Hauling

Driving Directions From Kornerstone Bistro to The Dumpo Junk Removal & Hauling

Driving Directions From Marco's Pizza to The Dumpo Junk Removal & Hauling

[https://www.google.com/maps/dir/Smithfield%27s+Chicken+%27N+Bar-B-Q/The+Dumpo+Junk+Removal+%26+Hauling/@34.274391,-77.816095,14z/data=!3m1!4b1!4m14!4m13!1m5!1m1!1sChIJ19gC17-MqYkR4s\\_bg4mKhbY!2m2!1d-77.816095!2d34.274391!1m5!1m1!1sChIJx5IXJrSNqYkR-YL-JMS0RK4!2m2!1d-77.8239897!2d34.2723577!3e0](https://www.google.com/maps/dir/Smithfield%27s+Chicken+%27N+Bar-B-Q/The+Dumpo+Junk+Removal+%26+Hauling/@34.274391,-77.816095,14z/data=!3m1!4b1!4m14!4m13!1m5!1m1!1sChIJ19gC17-MqYkR4s_bg4mKhbY!2m2!1d-77.816095!2d34.274391!1m5!1m1!1sChIJx5IXJrSNqYkR-YL-JMS0RK4!2m2!1d-77.8239897!2d34.2723577!3e0)

<https://www.google.com/maps/dir/Brooklyn+Pizza+Co./The+Dumpo+Junk+Removal+%26+Hauling/@34.2625028,-77.8268447,14z/data=!3m1!4b1!4m14!4m13!1m5!1m1!1sChIJM7Fmv6-MqYkRWD4Uxc59g0g!2m2!1d-77.8268447!2d34.2625028!1m5!1m1!1sChIJx5IXJrSNqYkR-YL-JMS0RK4!2m2!1d-77.8239897!2d34.2723577!3e0>

<https://www.google.com/maps/dir/Double+Happiness+Chinese+Restaurant/The+Dumpo+Junk+Removal+%26+Hauling/@34.274391,-77.8189887,14z/data=!3m1!4b1!4m14!4m13!1m5!1m1!1sChIJr6wXpL6MqYkRUgg5aWAX!2m2!1d-77.8189887!2d34.274391!3e0>

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Driving Directions From Cape Fear Museum of History and Science to The Dumppo Junk Removal & Hauling

Driving Directions From Masonboro Island Reserve to The Dumppo Junk Removal & Hauling

Driving Directions From Museum of the Bizarre to The Dumppo Junk Removal & Hauling

Driving Directions From One Tree Hill: The Bridge to The Dumppo Junk Removal & Hauling

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## Reviews for

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**Howard Asberry**

**(5)**

The manager was very helpful, knowledgeable and forthright. He definitely knew what he was talking about and explained everything to me and was very helpful. I'm looking forward to working with him



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**Greg Wallace**

**(5)**

I highly recommend Dumpo Junk Removal. Very professional with great pricing and quality work.



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**Kirk Schmidt**

**(5)**

They are great with junk removal. Highly recommend them



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**Kelly Vaughn**

**(5)**

Great service with professionalism. You can't ask for more than that!



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**Jennifer Davidson**

**(5)**

Great work! Bryce and Adrian are great!



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State : NC

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Company Website : <https://thedumpo.com/>

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