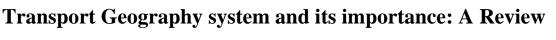
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Abstract

To overcome human and physical restrictions like distance, time, administrative divisions and geography. They provide friction to any movement, referred to as distance friction (or friction of space). In an ideal world, transportation would be free, with infinite capacity and reach. Geographical distance would be irrelevant. In reality, transportation is constrained by geography, which exchanges space for time and money and can only be partially restricted. The amount to which this is done varies greatly depending on criteria such as travel length, mode and infrastructure capacity, and cargo type.

Key words: Transport, geography, information, environment etc.

Introduction

No one element can generally explain a country's or region's current transport system. how political institutions, inherited transport networks, environmental conditions, available technology, and financing restrict transport supply; how transport impacts land use, activity volume, economic development, and the environment.

Transportation geography covers a wide range of subjects. For example, transportation geography may examine the relationship between railroad presence and commuter train use in developed areas. The subject also examines the social and environmental effects of new transportation options. Transportation geography also investigates movement restrictions. Consider how weather affects the transportation of commodities at various periods of the year.

Transportation geographers investigate nodes, networks, and demand to better understand transportation and its link to geography.

The three primary disciplines of transportation geography are as follows:

 "Nodes are the starting and stopping sites for transportation. The Port of Los Angeles is a node because it is the gateway to and from the United States. A node's presence may help a city grow economically by providing employment, for example.

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- 2. Transportation networks are the structure and organisation of transportation facilities like roads or railway lines across a region. In addition to connecting the nodes, transportation networks impact the capacity and efficiency of people and cargo movement. For example, a well-developed railroad line might efficiently convey people and products from San Francisco to Los Angeles. Transport geographers must compare two networks to determine which is most efficient.
- 3. Demand is an important subject in transportation geography. The public's desire for various modes of transportation. For example, if everyday commuters are stuck in traffic, public demand may support the creation of a transportation system such as light rail to transfer them within and between cities. Transportation is an important issue in geography since it is vital to the global economy. Researchers and geographers can better comprehend why cities, transportation networks, and the global economy have formed the way they have".

Transportation Systems

"Transportation is a system sustaining complex interactions described by three key concepts:

Transportation nodes. Transportation connects nodes, or points. They provide access to a distribution system or act as hubs in a transport network. This role is mostly performed by transport terminals where flows originate, terminate, or are transshipped. Transit and convergence points are important in transport geography.

Transportation networks. It examines the layout of transportation hubs and terminals. The structures (routes and infrastructures) that sustain and shape mobility must be investigated.

Transportation demand. It examines both the demand for transportation and the modalities employed to satisfy it. Once achieved, this demand forms an interaction in a transport network. Transport geography must assess the influences on its demand function.

Transport geography can be understood from a series of core principles:

- Transportation connects derived demand spatially.
- DISTANCE IS A RELATIVE CONCEPT INCLUDING SPACE,
- Space is both a generator and a limitation for movement.

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- A place may be a hub, generating and attracting traffic, or an intermediary element, allowing traffic to pass through"
- Transport consumes space to overcome geography.
- However, atomization limits transportation's massification.
- Mode, intermodality, and management effort.
- Transportation's Sisyphus Analogy
- Core Transport Geography Principles
- Differences in Passenger and Freight Transport Operations
- Demand for Transportation
- Distance Representation
- Freight Mobility
- Convergence of Space & Time
- Transport Modes: Atomization vs. Massification

These ideas emphasise that there is no transportation without geography. Transportation's objective is to move freight, persons, or information from one location to another, adding value along the way. There are significant operational variations between modes of transportation, notably between people and freight. The ease of doing so varies greatly and is generally referred to as mobility.

Transportation in Geography

Resources, people, and economic activity are scattered randomly over the globe; geographical distribution has a logic or order. When the spatial arrangement of things is less obvious, geography strives to comprehend it. Transportation, a component of this spatial order, is both impacted and influenced by topography. A road's direction is affected by area economic and physical factors, but once built, that road will impact future regional developments. For two reasons, transportation is relevant to geography. First, transportation facilities, terminals, modes, and networks are critical components of a complex spatial system. Second, since transportation networks are the major physical basis for spatial linkages, they are of particular relevance to geography. Transport geography evolved as a field in the second part of the twentieth century. The location of economic activity and the monetary costs of distance were major factors in previous concerns, notably in commercial geography (late 19th and early 20th centuries). These

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economic concerns spawned ideas like central locations and location analysis. The increasing mobility of people and goods prompted the creation of transport geography as a distinct subject of study.

The Importance of Transportation

Transport is one of the most vital human activity since it helps us to overcome geographical constraints. It is vital to the economy and supports inter-regional spatial interactions. Transport connects people, places, and economies, and hence provides value. It has four main parts: "modes, infrastructures, networks, and flows. These elements are necessary for transportation, but they also highlight how location shapes transportation despite considerable technical, social, and economic changes".

Transport is a multidimensional activity whose importance is:

"Historical. Transport modalities have historically influenced the emergence of civilizations, trade networks, social development, and national security. As such, transportation can help us comprehend historical processes at all scales, from local to national.

Social. Modes of transport promote access to healthcare, welfare, and cultural activities. They influence social relationships through influencing people's movement. Higher mobility means more social engagement". Travel supports and shapes social structures.

Political. Governments are important suppliers of transportation funding and regulators of transportation operations. Transit and motorways are examples of how transportation affects politics. Whilst economic drivers drive most transit demand, political drivers such as national accessibility and employment development drive many infrastructure projects. Thus, transport not only affects nation-building but also shapes policy.

Economic. Transport evolution has been connected to economic growth. It is an industry like automobile production, airlines, or railroads. Transport plays an important role in the creation of products and services. It adds value to economic operations, promotes scale economies, and impacts land (real estate) value and regional specialisation. Transport both shapes and is shaped by economic activity.

Environmental. Despite its apparent benefits, transit has severe environmental effects. They include adverse effects on air, water, noise, and public health. All transportation choices must be analysed in terms of environmental costs and their mitigation. Thus,

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transportation is a major component in current environmental challenges like sustainability and climate change.

Conclusion

Geography is the study of the location and size of occurrences on or near the earth's surface. These phenomena may be genuine surface patterns or phenomena that may be traced over time. A geographer may analyse the processes that lead to the emergence of a geographical pattern when enough information is available. Transportation is the movement of commodities or persons. Broadly defined, this involves almost every potential movement, so we need to narrow it down. Transportation is the movement of commodities and people between geographical places.

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