

Transport and Environmental Impacts

by James Anthony Dilwyn Cooper

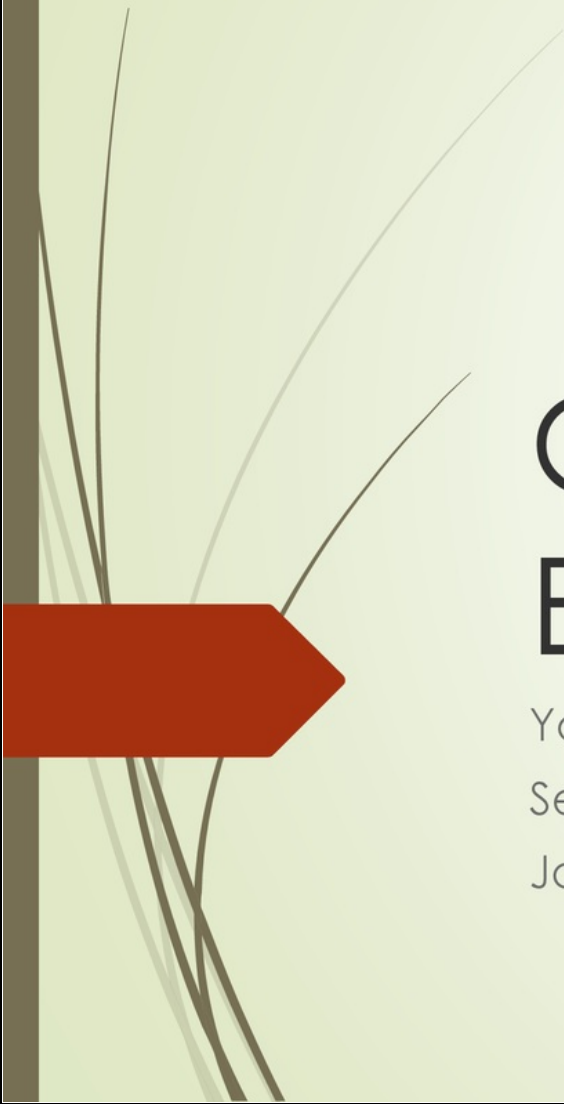
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Commercial and Environmental Impacts

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THE COMMERCIAL & ENVIRONMENTAL IMPACT OF FREIGHT TRANSPORT INTERCHANGE.

TRANSPORT INTERCHANGE

A **transport hub** (also **transport interchange**) is a place where [passengers](#) and [cargo](#) are exchanged between vehicles or/and between [transport modes](#). [Public transport](#) hubs include [train stations](#), [rapid transit stations](#), [bus stops](#), [tram stop](#), [airports](#) and [ferry slips](#). Freight hubs include [classification yards](#), airports, [seaports](#) and truck terminals, or combinations of these. For [private transport](#), the [parking lot](#) functions as a hub

Freight transport is the physical process of transporting commodities and merchandise goods and cargo.

A GOOD CASE STUDY FOR THIS WOULD BE:

<http://www.cprederbyshire.org.uk/campaigns/transport/rail/the-issues/item/2192-strategic-rail-freight-interchange>

https://en.wikipedia.org/wiki/Transport_hub

https://en.wikipedia.org/wiki/Freight_transport

COMMERCIAL IMPACT OF FREIGHT TRANSPORT INTERCHANGE.

CONSIGNMENT AND VEHICLE TRACKING:

CONIGNMENT:

A consignment is an arrangement resulting from a contract in which one person, the consignor, either ships or entrusts goods to another, the consignee, for sale.

If the goods are transported by a carrier to the consignee, the name of the consignor appears on the bill of lading as the person from whom the goods have been received for shipment. The consignee's name appears on it as the person to whom delivery is to be made.

VEHICLE TRACKING

Logistics involves managing the movement of resources. This not only includes products, but the movement and storage of materials, tools, equipment, services, people and information. It includes transportation, packaging, warehousing, materials handling and condition management.

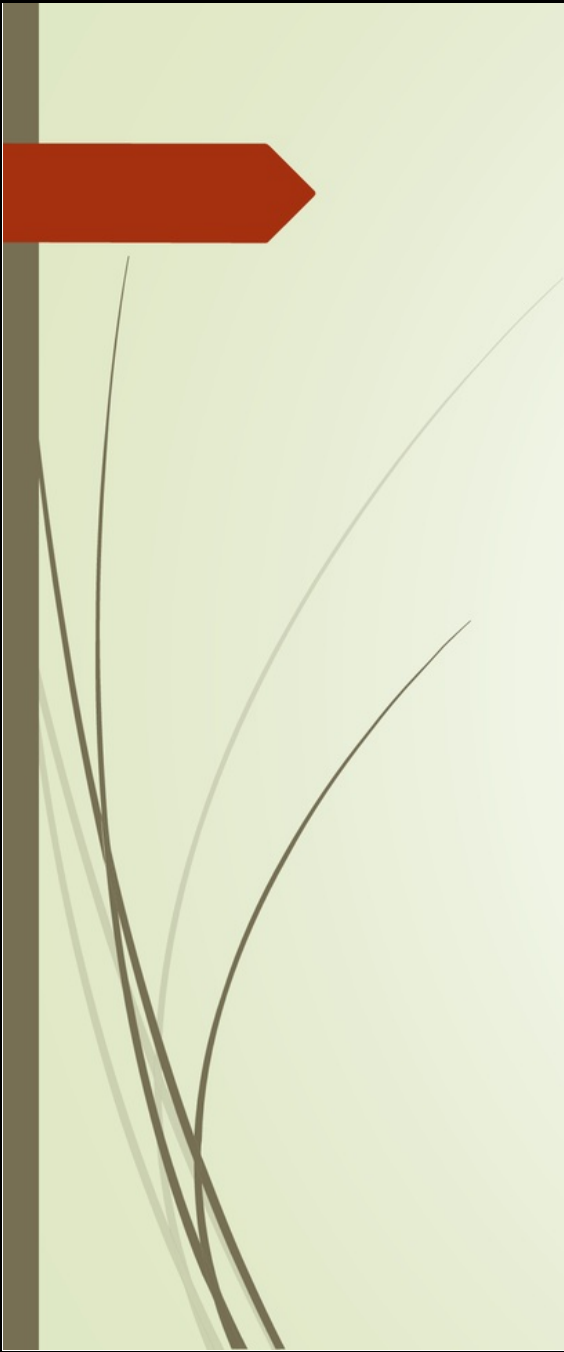
Importance of tracking:

- Inventory managing
- Warehouse managing
- Track items and locate the products and materials.



the commercial impacts

of a freight transport interchange



1

Real-Time Vehicle Detection

2

Logistics Tracking

3

Internet of vehicle



1. Real-Time Vehicle Detection

rapid development of the global economy



the number of motor vehicles has been increasing rapidly



problems of traffic congestion, traffic safety and other issues



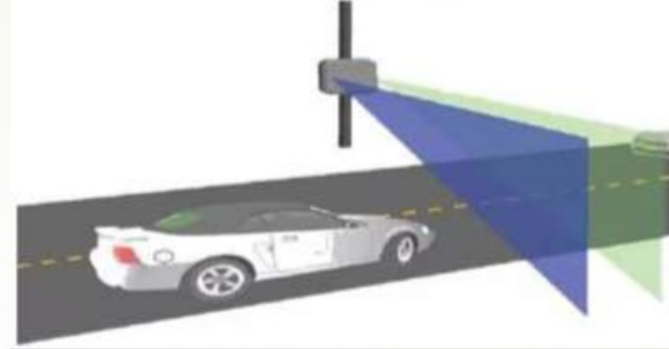
intersection

large traffic volume

many conflict points

severe partial occlusion

Therefore, intelligent detection at the intersection is extremely important.



- Using sensors and cameras to record and then inform the driver of important information such as traffic flow conditions ,signal status, can enhance the safety of drivers, vehicle occupants and other personnel.

2. Logistics Tracking

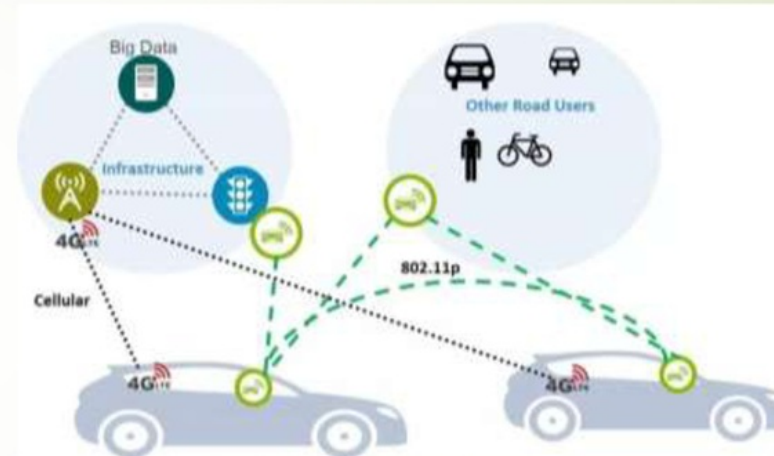
Logistics tracking refers to the methods and systems used for tracking resources throughout their movement and storage.



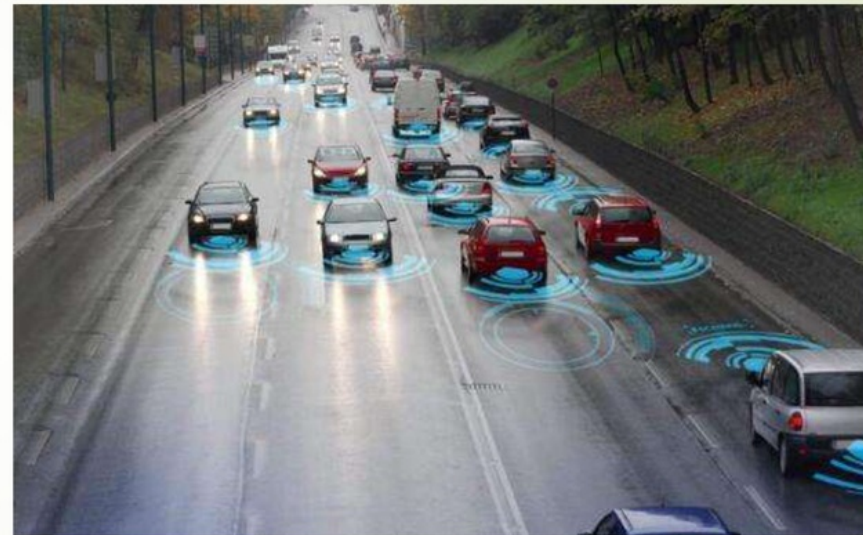
Intelligent detection at the intersection can track the information of the cargo vehicle in time. It is critically important for production logistics to be successful.

3.Future trends:Internet of vehicle

- The vehicle network is a huge interactive system composed of information such as vehicle position, speed and route. Through GPS, RFID, image processing and other devices, the vehicle can complete its own state and information collection.



- With intelligent detection at each intersection, shared data can be connected into a huge network. And then all cars can share the same set of information, which is consistent with the trend of automatic cars.





reference

- Real-Time Vehicle Detection Using Parts at Intersections. Sayanan Sivaraman and Mohan M. Trivedi. 2012 15th International IEEE Conference on Intelligent Transportation Systems.
 - Logistics Tracking.By Graphic Products Editorial Staff.(<https://www.graphicproducts.com/articles/logistics-tracking/>)
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Environmental Logistics

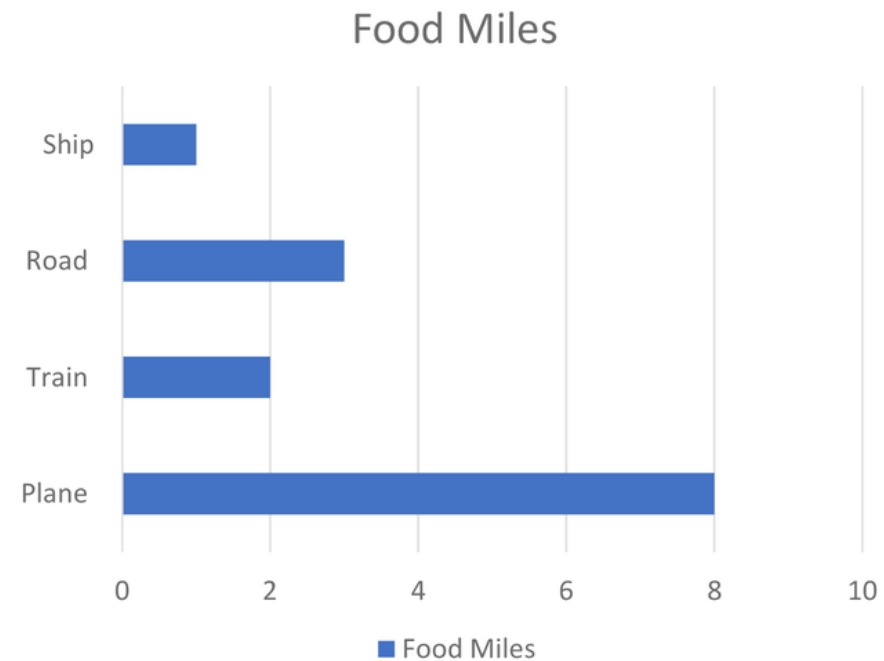
Last Mile – Food products to consumer

Emissions – Air quality, congestions and pollution

Convenience

Time used up within the supply chain

Last Mile retail – Technology changing.



- Marco Polo program & the Eu.
- Global Environment Return.
- Standard pollution requirements.
- Efficient use of fuel and vehicle.
- Fuel economy aids.
- Solutions to help the environment.
- Intermodal freight transport.

With increasing forward thinking, governments are under a stress to reduce haulage traffic on roads, by taking up alternatives such as railways, where in most cases the infrastructure is mostly in place.

Authorities and the public involved in many urban environments want to see the reduction in harmful traffic and needless use of some transport methods to cut down on the adverse impact upon the environment.

References

<http://ec.europa.eu/transport/infographics/marco-polo-results.pdf>.

Lowe's Transport Manager's & Operator's Handbook 2017, David Lowe, Clive Pidgeon, 47th Edition, 2017, Kogan Page

Global Logistics & Supply Chain Management, John Mangan, Chandra Lalwani, Tim Butcher & Roya Javadpour, 2nd Edition, 2012, John Wiley & Sons Ltd

Sustainable Logistics and Supply Chain Management, David B Grant, Alexander Trautrim, Chee Yew Wong, 2nd Edition, 2017, Kogan Page

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GRADEMARK REPORT

FINAL GRADE

55/100

GENERAL COMMENTS

Instructor

Research Informed Literature -

Wide range of mostly credible sources used. Good use of case study

Knowledge and Understanding -

A satisfactory level of knowledge and understanding demonstrated but didn't go into sufficient detail to fully answer question.

Skills for Professional Competence -

Satisfactory presentation skills. Slide content and delivery show room for improvement

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