

# **Supply Chain Management for Efficient Consumer Response Conference**

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## **URBAN LOGISTICS IN A SUSTAINABLE DEVELOPMENT CONCEPT ON THE EXAMPLE OF TRANSPORT SYSTEM IN GDYNIA CITY**

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## URBAN LOGISTICS IN A SUSTAINABLE DEVELOPMENT CONCEPT ON THE EXAMPLE OF TRANSPORT SYSTEM IN GDYNIA CITY

The city is a "*place of the highest population concentration and activities, together with its economic, social, cultural, technical, science and political administration*".

## URBAN LOGISTICS IN A SUSTAINABLE DEVELOPMENT CONCEPT ON THE EXAMPLE OF TRANSPORT SYSTEM IN GDYNIA CITY

The most noticeable difference occurring between the cities is their size. In many countries, ie. Germany and the UK, it is the size of the community determines the settlement to give the city rights. Most of the cities are gaining the city rights when they have at least 20 thousands residents

## URBAN LOGISTICS IN A SUSTAINABLE DEVELOPMENT CONCEPT ON THE EXAMPLE OF TRANSPORT SYSTEM IN GDYNIA CITY

At present, the concept of sustainable development is a concept more and more popular, this is due to the continuing growth of interest in scientific, political and economic environments. Sustainable development has a multi-layered character created by the combination of the following streams: ecological, philosophical, cultural, social, economic, political, technological and economic.

## URBAN LOGISTICS IN A SUSTAINABLE DEVELOPMENT CONCEPT ON THE EXAMPLE OF TRANSPORT SYSTEM IN GDYNIA CITY

From the standpoint of logistics, the main task of sustainable development is a correct solution to the problem of transport. In a comprehensive approach in terms of transport, the situation looks more and more use of logistic processes for the organization of transport, together with a merger of environmental and social objectives.

## URBAN LOGISTICS IN A SUSTAINABLE DEVELOPMENT CONCEPT ON THE EXAMPLE OF TRANSPORT SYSTEM IN GDYNIA CITY

Sustainable development is the idea of sustainable economic progress and social development in a fully harmonized with the environment. The point here to build a model of economic growth, ensuring that the progress of humanity, while still allowing the possibility of a better life for all without damaging the surrounding systems (ecosystem).

## URBAN LOGISTICS IN A SUSTAINABLE DEVELOPMENT CONCEPT ON THE EXAMPLE OF TRANSPORT SYSTEM IN GDYNIA CITY

Traditionally, urban transport, was a means used to create the human interaction with the city center because of its access to and use of the offer, both commercial, cultural and recreational activities. However, in cities the points of production are also located, consumption and distribution of the products, these are activities closely related to the movement of goods and commodities

## URBAN LOGISTICS IN A SUSTAINABLE DEVELOPMENT CONCEPT ON THE EXAMPLE OF TRANSPORT SYSTEM IN GDYNIA CITY

Fully motorized transport network - it has a low density land use. In this system, car is the main means of transport. Public transport only fulfills its primary function (transport to the city center), the city offers many car parks provide a large number of parking places and all districts are connected in such a way that access to them is very easy to drive. This type of structure requires a large urban road networks through which transport system is based mainly on private transport (cars)

## URBAN LOGISTICS IN A SUSTAINABLE DEVELOPMENT CONCEPT ON THE EXAMPLE OF TRANSPORT SYSTEM IN GDYNIA CITY

The model of urban transport that occurs in cities do not have a full-featured city - a city of this type is characterized by medium density land use and is built on a concentric pattern. The city center is relatively easily accessible to private transport and is the focal point of the transport system which seems to be fully realized. This system, due to the structure of the city, is not very cost effective and focused mainly on the corridors of the city.

## URBAN LOGISTICS IN A SUSTAINABLE DEVELOPMENT CONCEPT ON THE EXAMPLE OF TRANSPORT SYSTEM IN GDYNIA CITY

Urban transport system in the city with powerful center - the city is characterized by a high density of land use and a high degree of access to public transport. In this way, decreases the need to create a dense network of roads and car parks in the city center as the urban transport have such high yields without any problem ensures that all residents' needs for mobility. Therefore, the performance of the city center is dependent upon the efficiency of urban transport system.

## URBAN LOGISTICS IN A SUSTAINABLE DEVELOPMENT CONCEPT ON THE EXAMPLE OF TRANSPORT SYSTEM IN GDYNIA CITY

Urban transport system with a restriction of movement - this system is typical for cities in which the system has been implemented, traffic control and modal preferences in its spatial structure. The city center is dominated urban transport and the whole city was designed to minimize the use of private transport. This was due to a desire to preserve the historic character of the individual districts or avoid the creation of congestion.

## URBAN LOGISTICS IN A SUSTAINABLE DEVELOPMENT CONCEPT ON THE EXAMPLE OF TRANSPORT SYSTEM IN GDYNIA CITY

Gdynia has 250 thousands inhabitants and covers an area of 136 km<sup>2</sup>, is located in the northern Polish, directly on the Gulf of Gdansk and is situated between the towns of Sopot, Gdańsk and Rumia. Gdynia has good connections with major Polish cities, Scandinavia, Lithuania and Kaliningrad Region. It has developed a wide network of rail, ferry and airport. The city center is close to the sea and is bordered to the southern part of the port.

## URBAN LOGISTICS IN A SUSTAINABLE DEVELOPMENT CONCEPT ON THE EXAMPLE OF TRANSPORT SYSTEM IN GDYNIA CITY

In 2010 the town area was crossed by 392 km of total roads, 5.7 km were national roads, 17.8 km provincial roads, district roads 112.4 km and 256.7 km communal road. Urban transport system in the city is characterized by follows:

The number of bus routes - 70,

- The number of buses - 186,
- Length - 192.9 km,
- The number of trolley lines - 12,
- The number of trolley buses - 69,
- Length - 40.3 km,
- The number of passenger cars-active - 115 109

## URBAN LOGISTICS IN A SUSTAINABLE DEVELOPMENT CONCEPT ON THE EXAMPLE OF TRANSPORT SYSTEM IN GDYNIA CITY

Strategic Plan for Gdynia - Plan emphasizes the tasks of the city on the urban transport system such as upgrading the network infrastructure and improve the entire public transport system. This plan also includes objectives which will be accomplished to create a fully integrated, efficient and environmentally sound urban transport system. By improving the quality of services and increasing their diversity and the expansion of trolley-bus transport, the city wants to encourage residents to use public transport which will bring many positive effects, ie. increased environmental protection.

## URBAN LOGISTICS IN A SUSTAINABLE DEVELOPMENT CONCEPT ON THE EXAMPLE OF TRANSPORT SYSTEM IN GDYNIA CITY

Gdynia Transport Policy - The main objectives are the city's sustainable development and creating a safe and effective system of transporting people and goods. Achieving these objectives will be achieved through modern methods of transport arrangements and thorough modernization of the urban road network. Transport policy center focused on the creation of hubs near major train stations, both of Gdynia and the entire Tri-City.

## URBAN LOGISTICS IN A SUSTAINABLE DEVELOPMENT CONCEPT ON THE EXAMPLE OF TRANSPORT SYSTEM IN GDYNIA CITY

Integrated Development Plan for Public Transport in Gdynia in 2004-2013 - is an action with fully consistent with the concept of sustainable development. Its main objective is to create conditions for an efficient and safe transport for people and goods in conjunction with environmental protection and the limitation of actions that are detrimental to the transport system.

## URBAN LOGISTICS IN A SUSTAINABLE DEVELOPMENT CONCEPT ON THE EXAMPLE OF TRANSPORT SYSTEM IN GDYNIA CITY

Gdynia has shown that it is aware how properly organized system of urban transport, transport for both private and public, can bring tangible results in areas of economic, social and environmental issues. For more than 10 years the urban transport system is subjected to constant upgrading and improvements to the system as a result become a transport-friendly city residents, potential investors and the environment.

**THANK YOU FOR YOUR ATTENTION!!!**