

# Logistics concepts for a sustainable city

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## **Abstract:**

This presentation addresses concepts of city logistics which aim at establishing efficient and environmentally friendly logistics systems in urban areas. Large cities in the world are faced to difficult problems including traffic congestion, environmental issues, traffic accidents, and energy consumption relating to urban traffic. On the other hand, shippers and freight carriers are required to provide efficient logistics systems to survive the global competition. To solve these complicated problems, concepts of city logistics are proposed towards sustainable cities. There are four stakeholders in city logistics: Shippers, Freight carriers, Consumers (residents) and Administrators. They need to collaboratively work together to achieve the goals of city logistics. Public private partnerships are essential in this context. Several initiatives of city logistics are proposed and actually implemented in some cities including advanced information systems, cooperative freight transport systems, load factor controls, new freight transport systems, etc.

In 21<sup>st</sup> century, we can use technical innovations of ICT (Information and Communication Technology) and ITS (Intelligent Transport Systems). As well we can expect social greater interest in CSR (Corporate Social Responsibility), ISO standards of 9001 (quality management) and 14001 (environmental management), green management schemes, etc. Both of technical and social developments allow all stakeholders to establish efficient and environmentally friendly logistics systems for sustainable cities.

## **Biography:**

Professor Eiichi Taniguchi is a professor of Department of Urban Management, Kyoto University. He graduated from master course in Civil Engineering, Kyoto University at 1975 and joined Public Works Research Institute, Ministry of Construction and worked as head of New Transport Systems Division. He obtained Dr Engineering degree from Kyoto University in 1981. In 1993 he returned to Kyoto University as associate professor in Civil Engineering and he became professor in 2002. He stayed at Delft University of Technology as visiting researcher in 1998. His research area covers traffic planning, urban freight transport, intelligent transport systems. He published a number of papers and recently he published books entitled “City Logistics --- Network Modelling and Intelligent Transport Systems” (Elsevier, 2001), “Innovations in Freight Transport” (WIT Press, 2002) and “Logistics Systems for Sustainable Cities” (Elsevier, 2004).



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