

## **Announcement Case Study:**

### **Port Cities of the Future**

#### **Context**

90% of the world's freight moves by sea and their entrance point to final customers, are ports mostly located in cities. Historically, ports and cities have a very close relationship with each other; this relationship is rooted in the port as the trading point around which the city develops due to the beneficial impact of the trading activity. Nowadays, 8 out of 10 largest cities in the world are port cities. But the parallel development of cities and port possess lot of challenges. The increase in vehicle traffic may bring a decline in the standard of living of the population (because of congestion and/or road safety issues) and may also increase transport costs due to longer transport times in heavy traffic. A study of congestion reports by Waze, TomTom and INRIX has revealed severe traffic disruption in port cities such as Buenos Aires, Sao Paulo, Los Angeles, Valencia, and Jakarta. The environmental impact of congestion is mostly negative because it can affect air, water and soil quality, reduce biodiversity, increase noise and waste, and ultimately lead to risks to human health. New logistics trends for the efficient management of goods and passenger flows to improve the relationship between port and cities should be analyzed.

#### **Tasks**

Students are expected after an extended literature review on the topic to describe the state of the art of traffic management systems for port cities. Analysis of Best Practices and the definition of emerging trends are part of your work. Further tasks will be given according to your background to meet your personal interests and capabilities.

#### **Applicants**

Students are expected to demonstrate good study performance, high motivation and capability to work, under tutor's guidance, independently and target-oriented on the theme. Finally, applicants should have proficiency and good communications skills in English.

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