



Concordia Institute for Information System Engineering (CIISE)

Concordia University

**INSE 6311      Sustainable Infrastructure Planning and Management  
Systems**

Project Proposal:

**Infrastructure management in ports and coastal regions**

Submitted to:

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## Abstract

In these modern times every country's economy, growth and development are completely dependent on coastal regions and more specifically on marine ports. Ports are the main exchange points for the trade of daily commodities that a country is dependent on. However, establishing and maintenance of these ports is not as simple as it sounds, some examples of the challenges that the port management will face are coastal salt air in the ocean breeze creates a suitable atmosphere for corrosion and can damage the high rise metallic structures and container cranes. In addition to that, another challenge that the port authorities need to take care of is waste management, which will be crucial to limit the environmental damage.

This report involves the spatial management required for the establishment of the port, regular maintenance of the port infrastructure, current waste management methods and further improvements, Port finances and effects of ownership by public and private entities.