

Where IoT meets the Port of The Future

PIXEL PORTS

Port IoT for Environmental Leverage

Reduction of environmental impact of port activities

Improvement of logistics through data analytics over waiting time for vessels, on-time performance

Adoption of a Port Environmental Index as a global quantitative measure to monitor and act on own environmental footprint



Reduction of operational and infrastructural costs with better Port-City integration

Increase of renewables energy uptake in small, medium and large ports

Heterogeneous information hub tailored for interoperability over limited data interchange of Port **Community Systems** (PCS)

Today's environmental challenges must fit real global needs, enhanced by legislation and standards - Ports need clear understanding of their overall environmental performance

Emissions to the atmosphere

Emissions wastewater

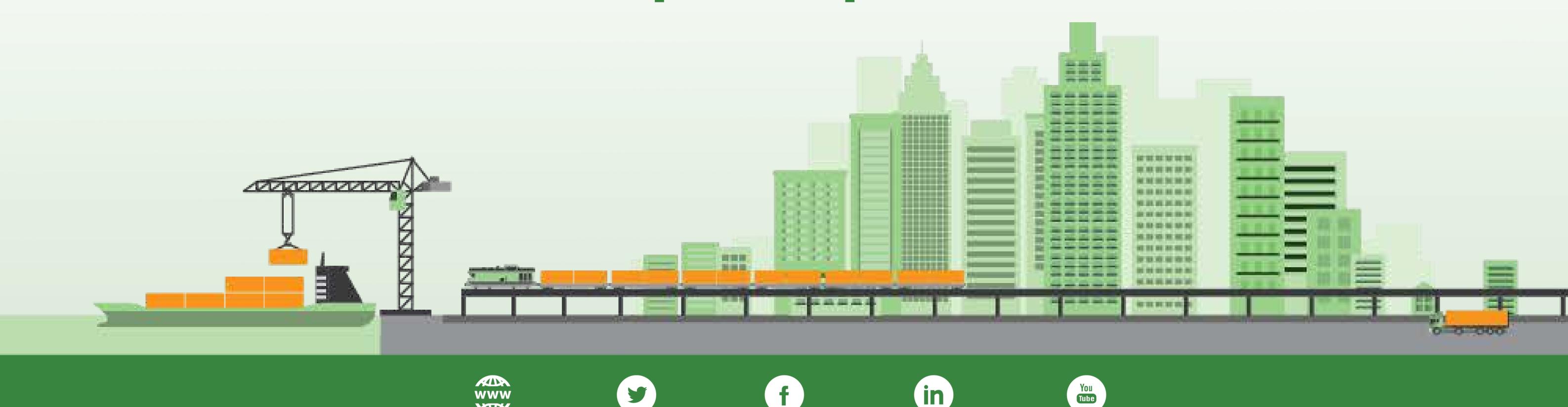
Noise emissions

Production of waste

Light pollution

Odour emissions

PEI is a global indicator of the impact in ports that permits the ports to have a real-time measure of their environmental footprint and to plan actions to reduce it to desired levels



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