

"Adaptation of Transport Networks to Climate Change"
Alexandroupolis, Greece 25-26 June 2012

Capt L.B Barbeau

Port Master

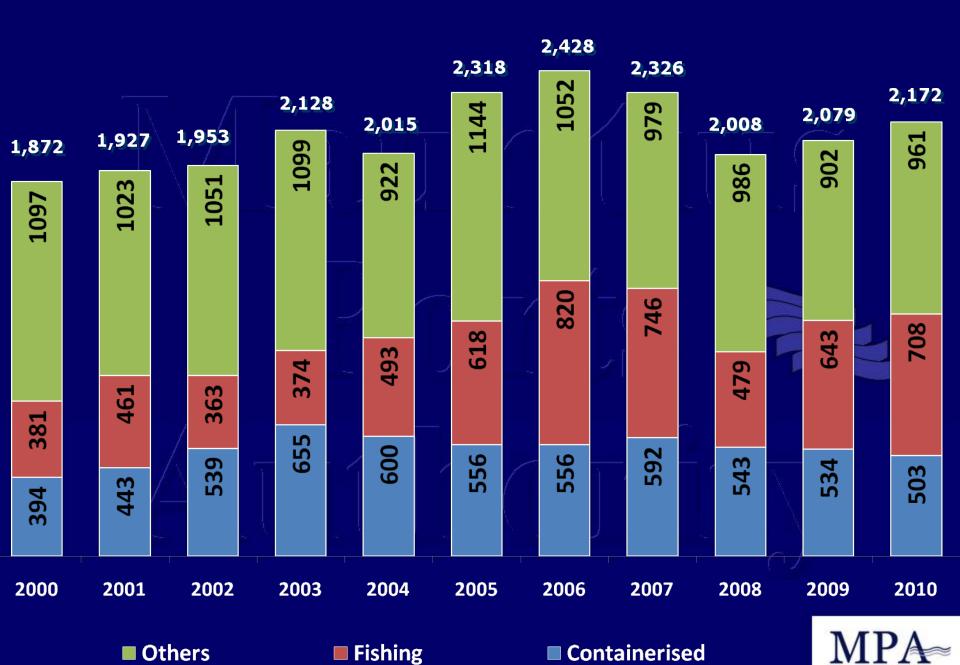
Mauritius Ports Authority

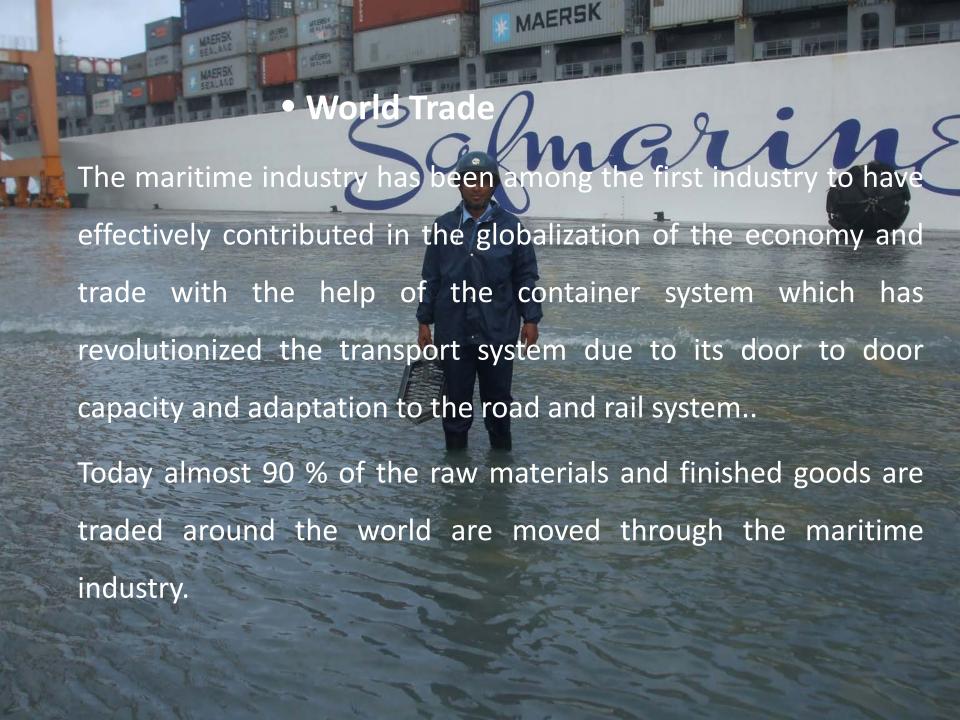
Sensitivity of Port Louis Harbour





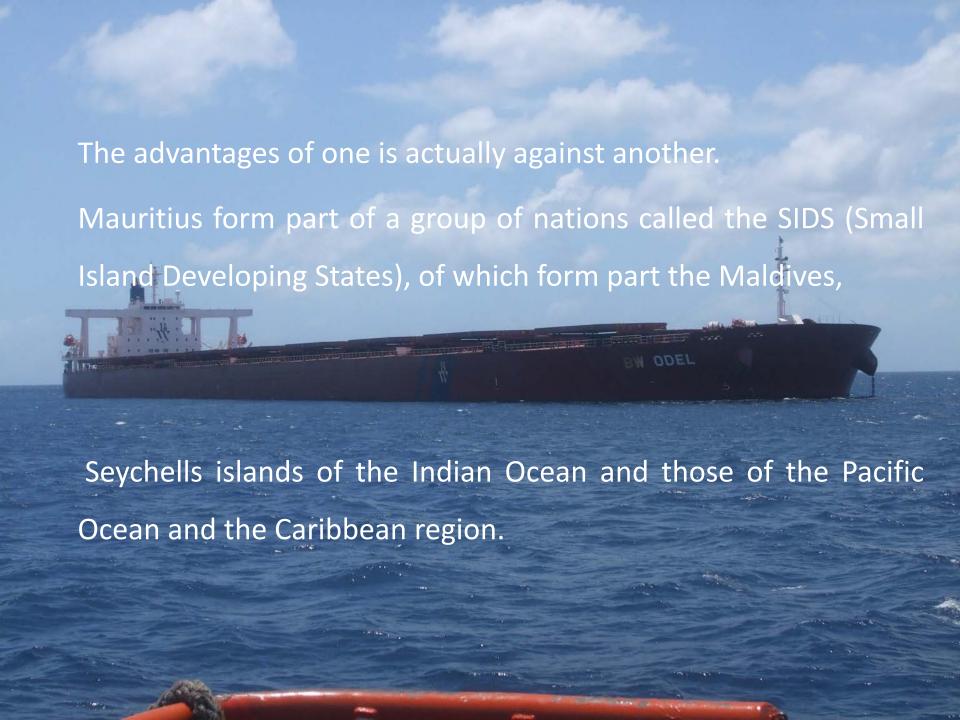
Evolution of Vessel Calls





Climate Change

Some countries are finding it as an opportunity for trade with new routes and shorter distances between consumption and production areas. Example of new passage that will be available in a few years time is the Northern passage around Canada which will reduce transit time between East & West using bigger ships and avoiding the Panama canal.



Climatic conditions

Areas are subjected to revolving tropical storm mainly during the summer months with more extreme conditions in certain regions than others. Influence of the El Nino and the La Nina is suspected for the above two conditions.

The extreme weather phenomena with more intense tropical cyclones are resulting in the flooding of terminals and thus reducing the productivity of the stevedores and turn round calls of the container vessels.

Under these conditions ship owners are unloading at other ports thus adding another leg to the transport.

At the end of the day the final cost of the commodity is much more than what was planned.

We have to adapt the construction with the climate change therefore planning is of prime importance and unfortunately SIDS usually forming part of the developing countries does not always have all the available technical data to determine the correct design of new quays and breakwater which by the way are very expensive.

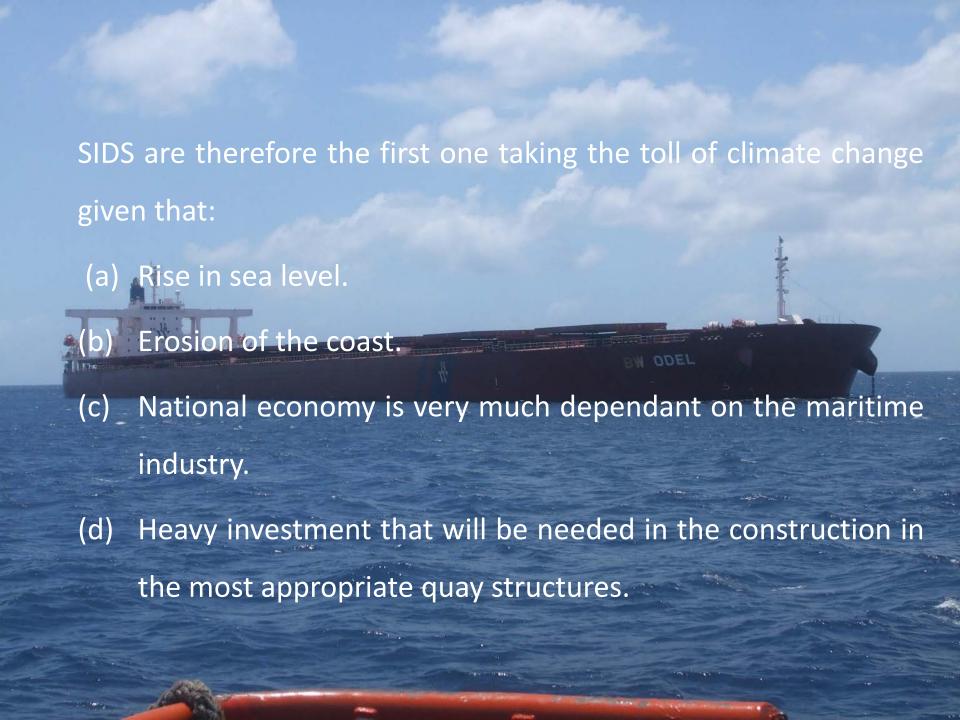
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Local expertise is once again not always available and we have to rely on friendly countries or international organization for help.

Over and above the normal port infrastructure additional capital investment is needed to construct breakwaters and infrastructure that can support the wave impact during the adverse weather conditions.

Quays normally built at about 2.5 meters above chart datum will have to be constructed higher so as to avoid flooding.

Port infrastructure on average last for twenty five years or so which implies that the return on investment might not always be matched.









Need to focus on sustainable development for our future.

Need the help of developed countries and international organisations.

Be able to implement and enforce international conventions and regulations at national level.

Training of officers so as to meet the challengers.

Research and development to further improve the efficiency of ships engines.

