



Undertaking Social Responsibility and Promoting Green Shipping

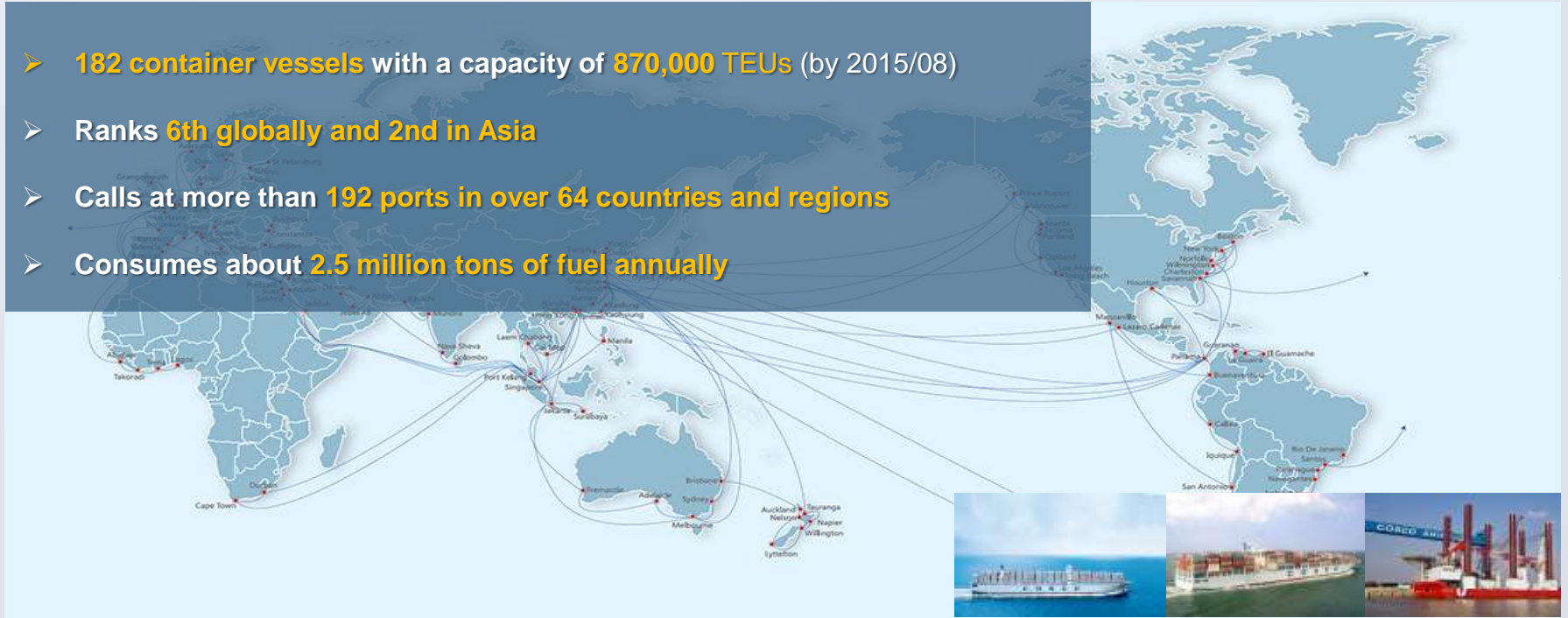
COSCO Container Lines Co., Ltd,

2015-10

About COSCO Container Lines (COSCON)

A Global Service Provider Exclusively in the Container Shipping Business

- **182 container vessels** with a capacity of **870,000 TEUs** (by 2015/08)
- **Ranks 6th globally and 2nd in Asia**
- **Calls at more than 192 ports in over 64 countries and regions**
- **Consumes about 2.5 million tons of fuel annually**



Fuel Consumption

Energy
Efficiency
being
improved

Adjust the fleet structure

Improve the operating capability

Optimize the routing

Develop advanced technologies

Super-slow steaming

Annual fuel consumption of **2015** (estimated):

2.54 million tons with a fleet capacity of around **900,000TEUs**

In **2008**: **2.69 million tons** with **498,000TEUs**

Fleet capacity **doubled**, fuel consumption **-5.7%**



Energy-saving and Emission-reduction

Undertake social responsibility from a global perspective in the era of globalization

Established and optimized the **Energy Management System**

Independently developed the **COSCON Energy Efficiency Management Information System** and the **Carbon Emissions Calculator**

Implemented the **Ship Energy Efficiency Management Plan** to meet the **discharge requirements for special sea areas stipulated by IMO and coastal states**

Acquired the **Energy Management System Certificate** issued by **DNV**

Energy-saving and Emission-reduction

- 1** Huge investment in ship energy management and super-slow steaming
Granted special awards by government for 3 consecutive years
- 2** Scrapped over 40 old vessels with lower energy efficiency and higher risks of pollution
- 3** Clean energy initiatives, shore-based power supply, and low-sulphur fuel: Fair Winds Charter of Hong Kong, Green Flag Awards from Port of Long Beach, Green Gateway Partners Awards from Port of Seattle
- 4** Joined the Clean Cargo Working Group of *Business for Social Responsibility*; accredited the verification certification of Clean Shipping Index with 12 vessels ; the 3rd certified shipping company in the world
- 5** Joined the Environmental Ship Index by International Association of Ports and Harbors
12 ultra-large container ships registered and started the half-yearly verification

The Global Trend of Green Shipping

We have taken more actions

Raising energy efficiency to a higher level

- retrofit of new energy-saving propellers and bulbous bows
- improve ship in-port efficiency (non-sailing efficiency)
- set up 24hr monitoring center
- even-power sailing and trim optimizing



Increase vessels' operational efficiency

- vessel routing, speed tuning, cargo loading, fleet management
- optimize our resources to increase energy efficiency

Adopt energy efficiency design for our newbuildings

- Computational Fluid Dynamics and ship model test
- LNG-Ready for the future remodeling



The Global Trend of Green Shipping



Port Delays:
significant impact
and penalty

We call on all participants to:

enhance the cooperation between carriers and ports, increase operation efficiency of vessels in port, make every effort to promote energy-saving and emission-reduction, promote green shipping, and further enhancing contributions to benefit the environment!





Thank You !