

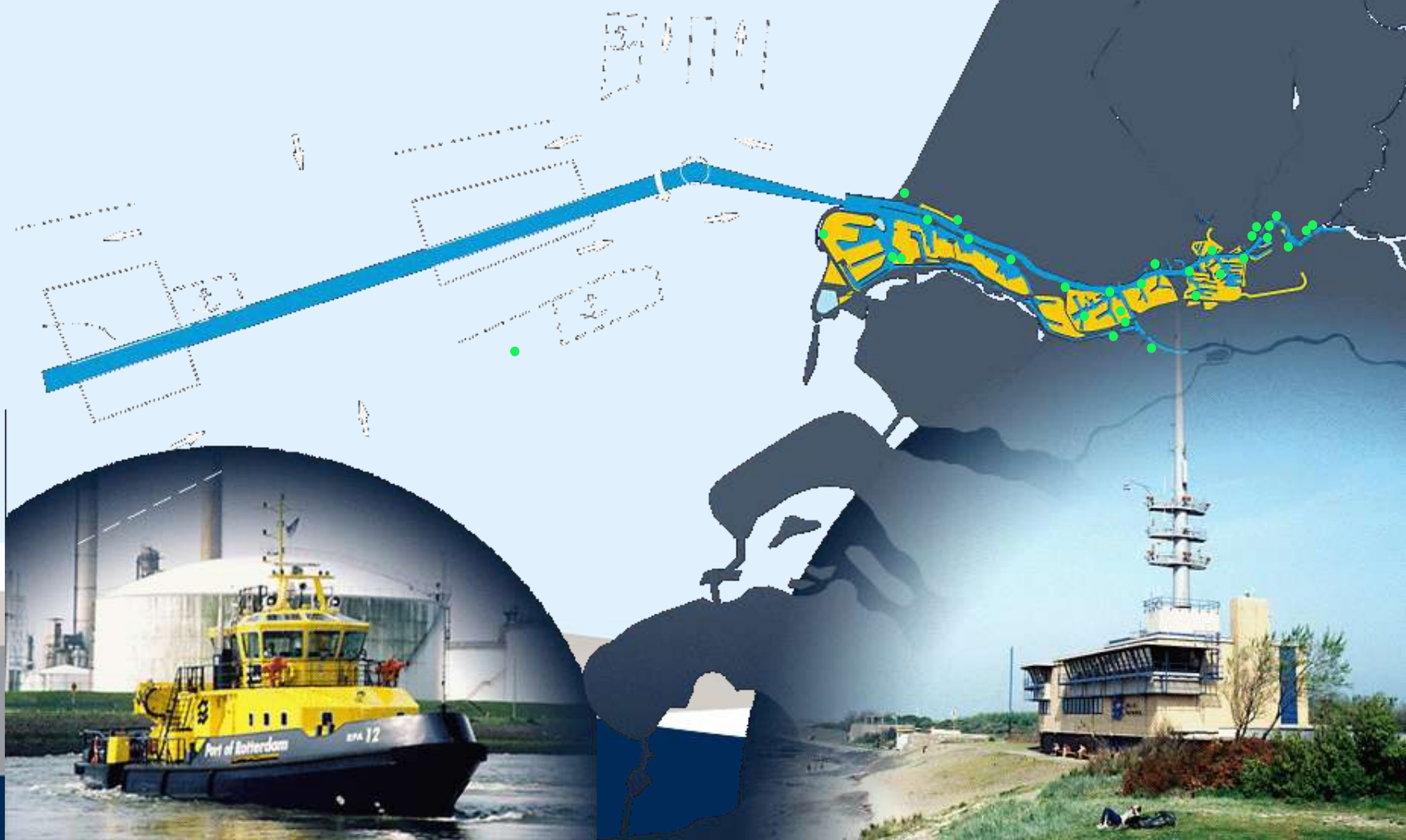
Port of Rotterdam

Joyce Blik

Business Manager Short sea

4th of May 2007

Area of responsibility



Maasvlakte



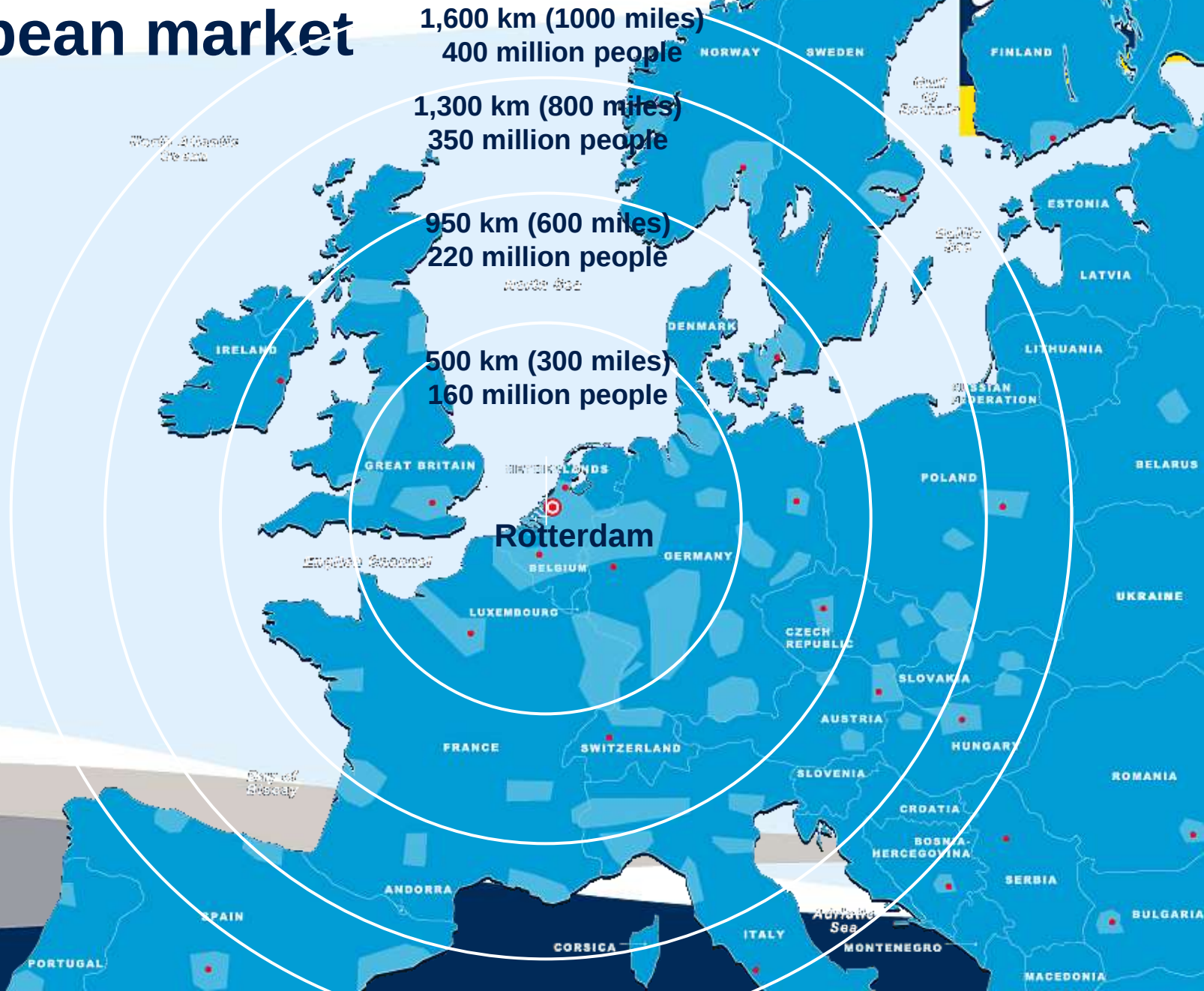
Area of responsibility

Private



Rotterdam Port
Authority

European market

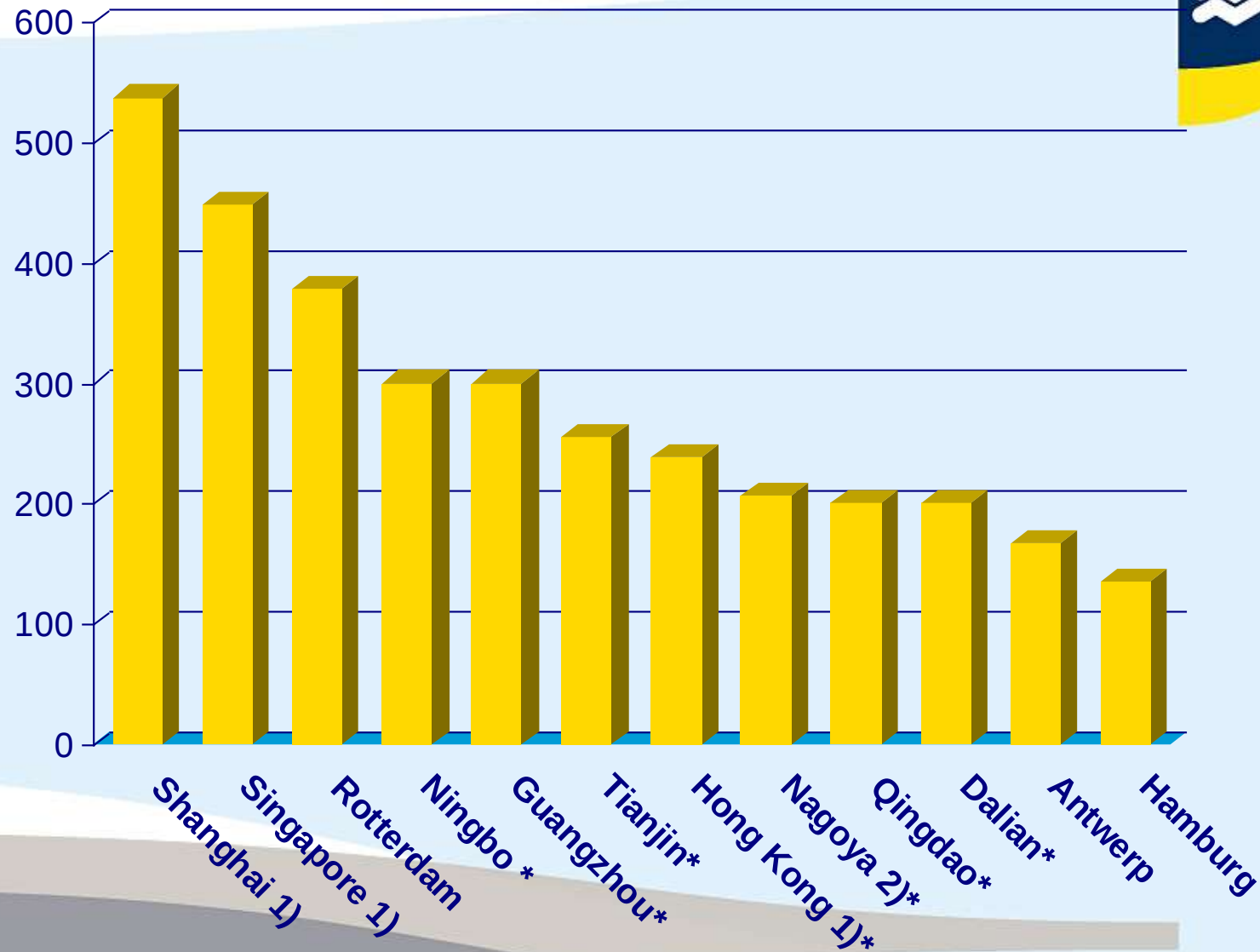


Number of incoming sea-going and inland vessels, Port of Rotterdam Authority, 2006



- Sea-going vessels about 31,078
- Inland vessels about 133,000
- Ship-movements sea-going and inland navigation about 1,000,000

World's major ports, 2006

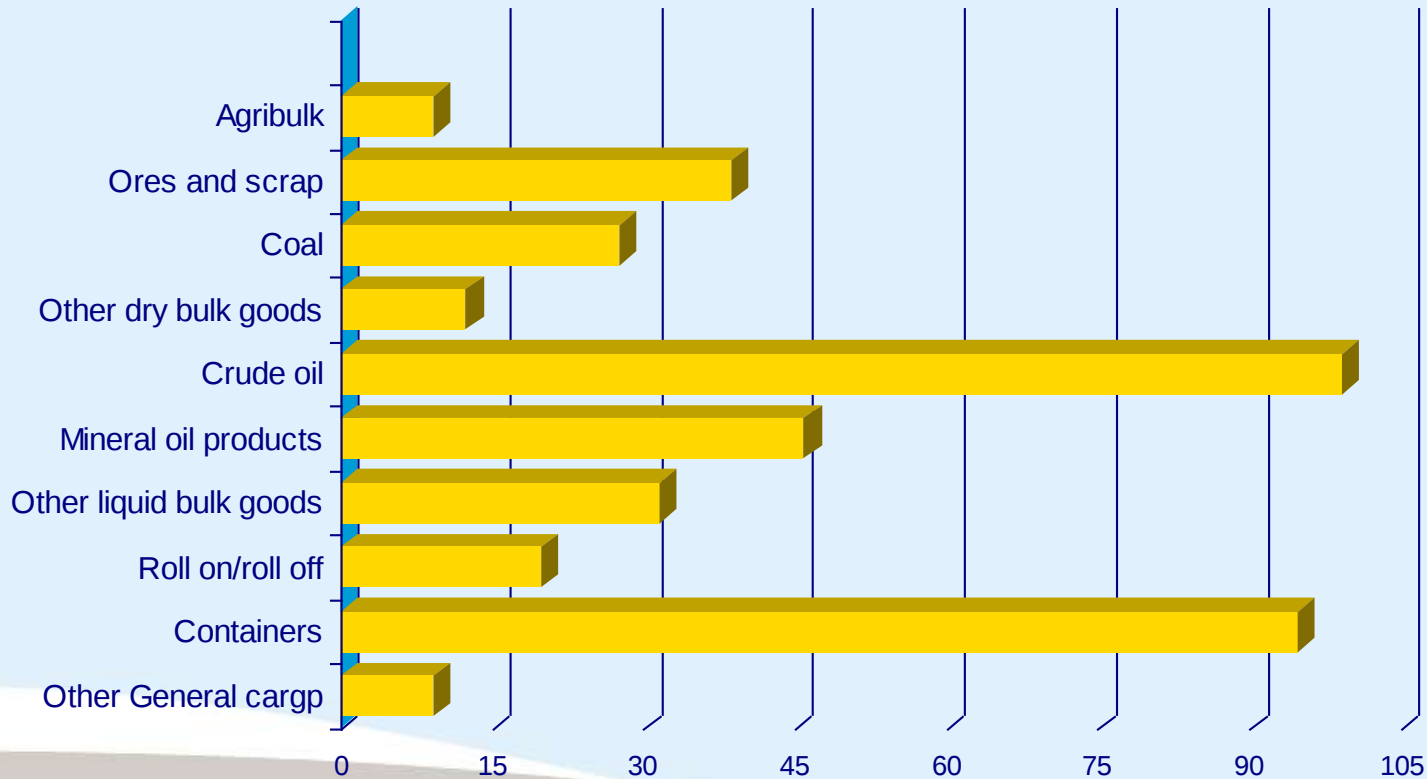


* estimated

Unit: Gross weight x 1 million metric tons

1) Including river trade 2) Freight tons (1 freight ton = 0,92 metric ton)

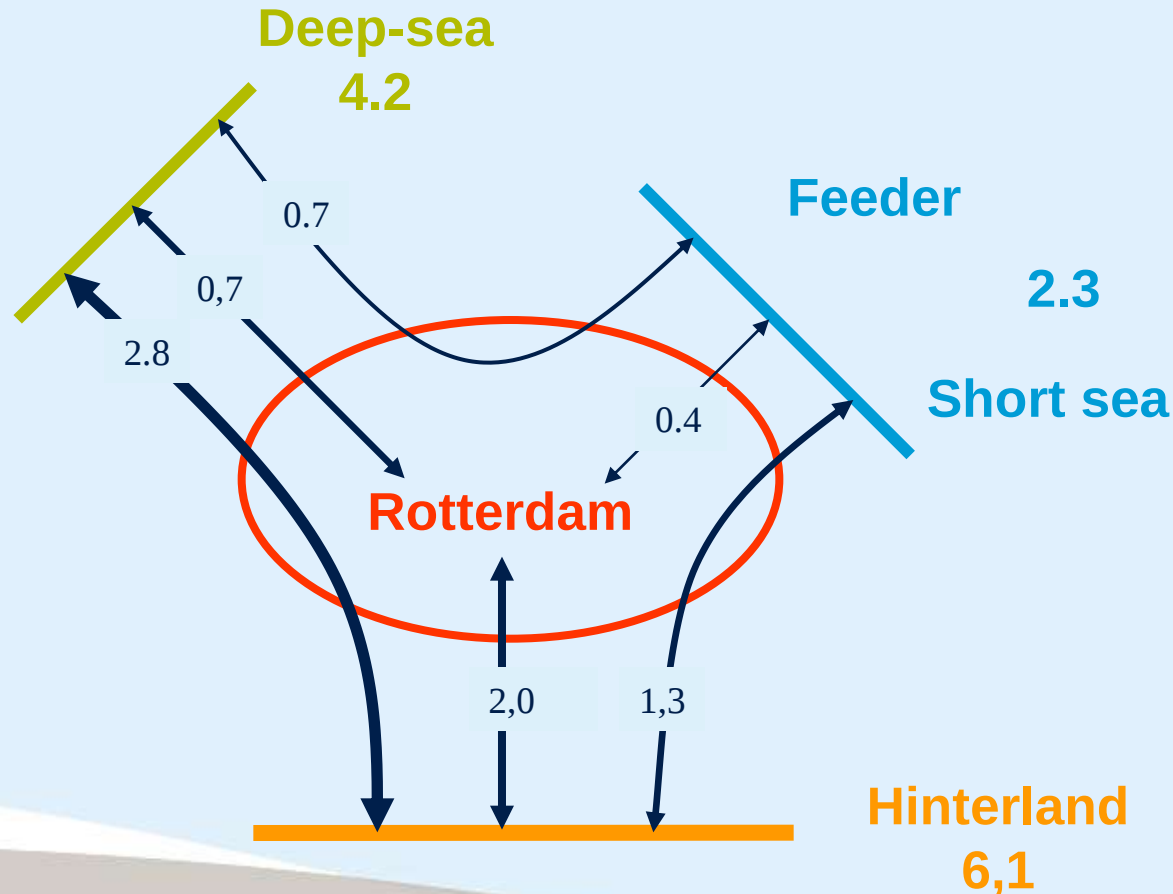
Total throughput by commodity at the Port of Rotterdam Authority, 2006



Unit: Gross weight x 1 million metric tons

Container streams Rotterdam 2006

(x 1 mln teu)



Inter European Sea connections



UK / Ireland
40 weekly services

Scandinavia
26 weekly services

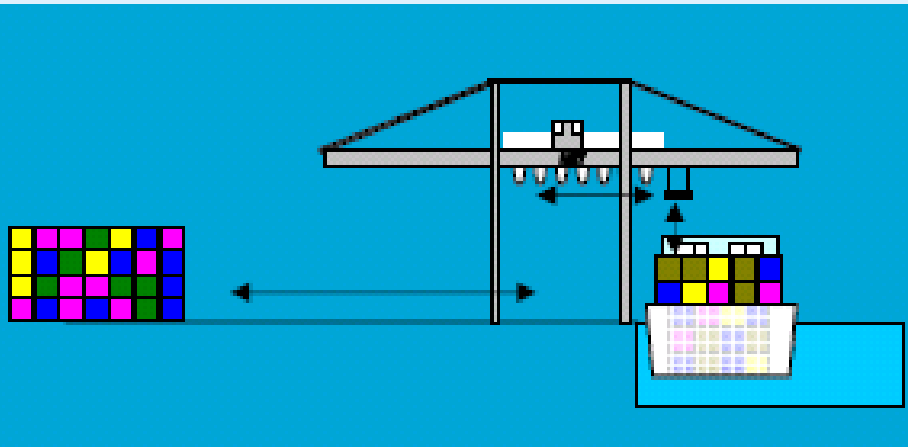
Baltic / Russia
16 weekly services

Rotterdam

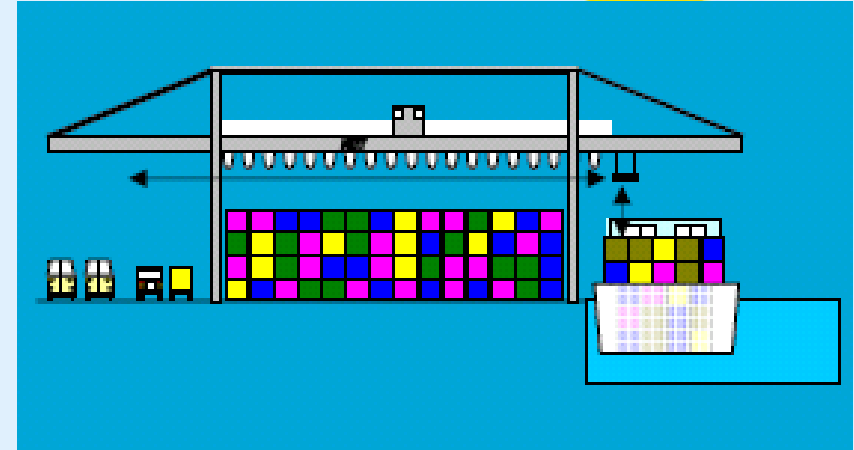
Spain / Portugal /
Mediterranean
29 weekly services

● Weekly connections to over 100 destinations in Europe

Most common shortsea operations

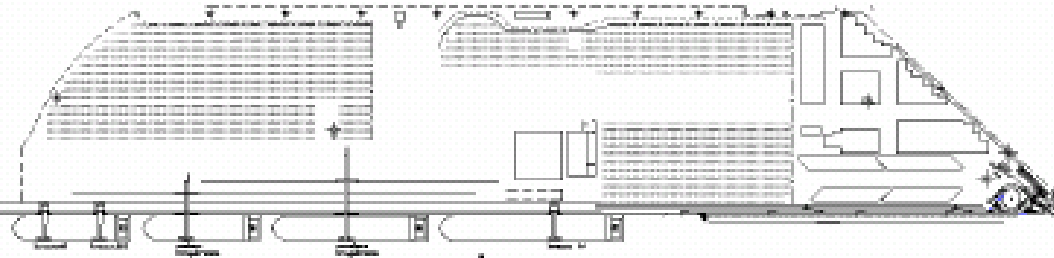
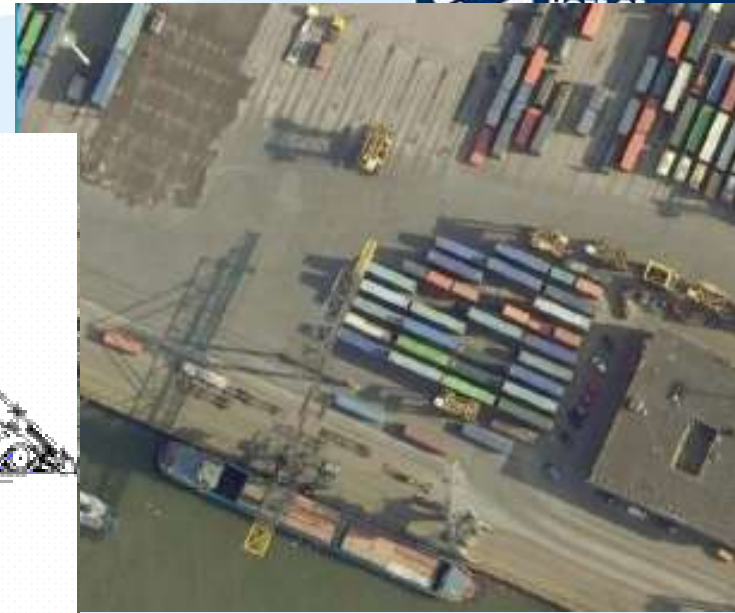


- Stack separated from quay crane
- Transport by tractor trailer, reach stackers, forklifts and/or straddle carriers
- Longer dwell times



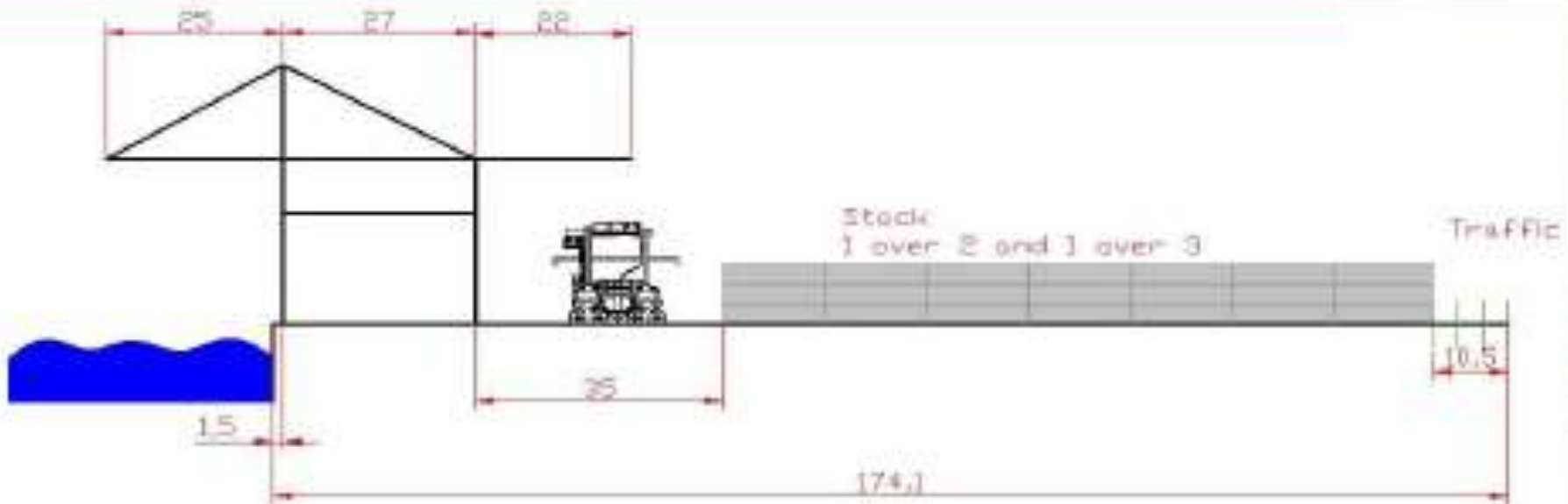
- Stack between legs quay crane
- Direct handling trucks & trains
- Shorter dwell times

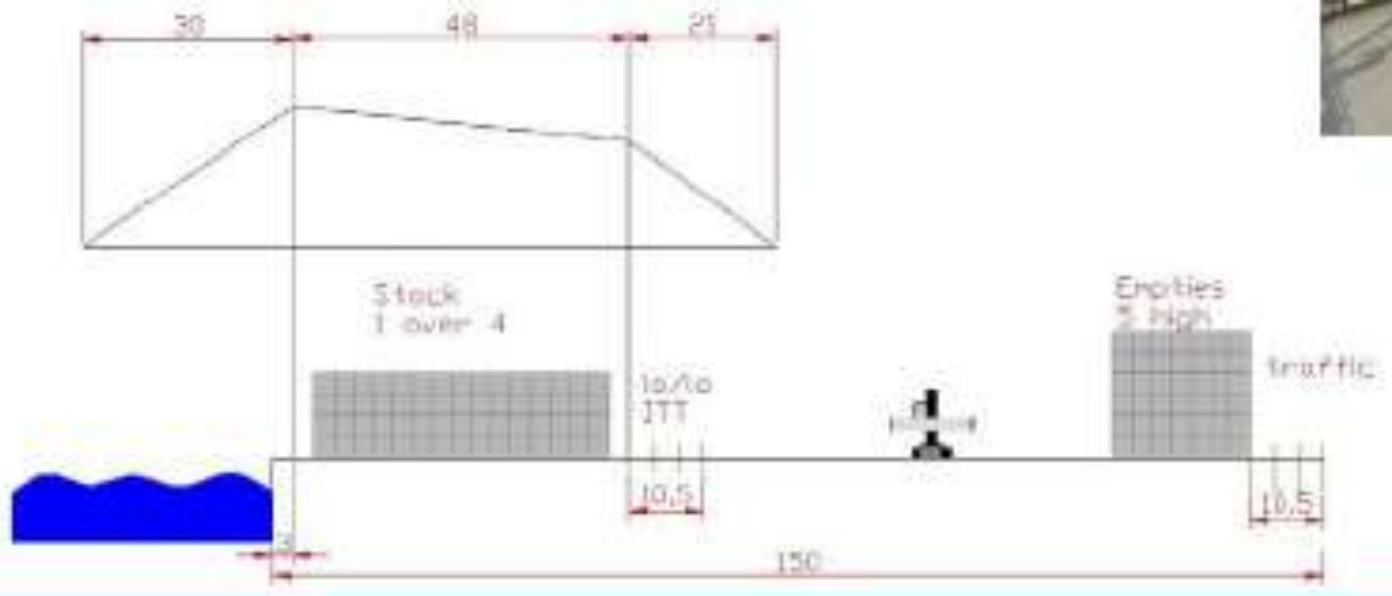




System 3

Prinses Beatrix haven





Service demands Shortsea Terminals



- Time-in-port 4-10 hours (depending on type of service and call size)
- Berth performance 25-50 boxes/ hour
- Truck service time < 20 minutes
- Possibilities for direct handling truck-vessel
- Flexibility in modalities and last-minute changes

Expected Future Developments

- 4% growth /year
- Nearing 1 million containers in 2015
- Most containers 45 ft
- TEU factor approx. 2
- Ship size up to 1000 TEU
- Dwell time average 2 days
- 20% empties
- Change of modal split

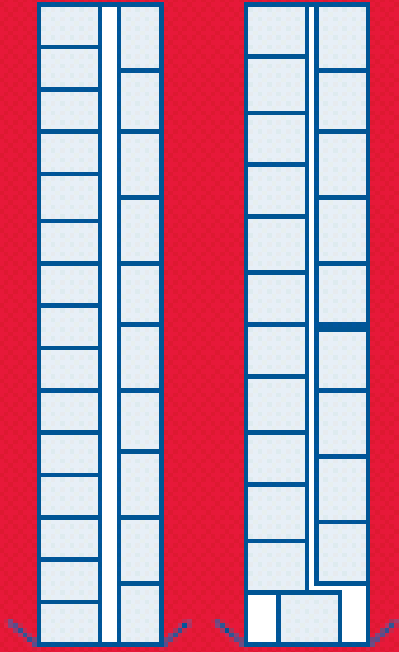
Port infrastructure





Development of shortsea

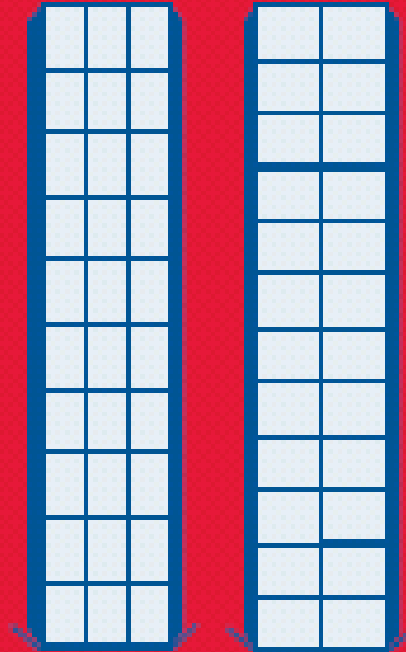
40 ft standard
12,02m x 2,34 m



25 pallets
1.2 m x 0,8 m

21 pallets,
1.2 m x1.0 m

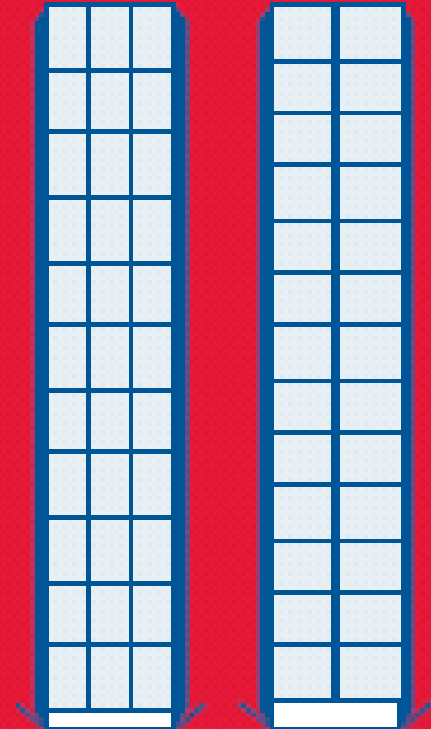
40 ft palletwide
12,10 m x 2,44 m



30 pallets 1.2
m x 0,8 m

24 pallets
1.2 m x1.0 m

45 ft palletwide
15.55 m x 2,44 m



33 pallets
1.2 m x 0,8
m

26 pallets
1.2 m x1.0
m

Rotterdam has a distinct advantage: Scale of inland waterway transportation!

Record april 2004:

496 TEU

