
Baltics Trade Bared

PFI Baltics Conference

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MDS Transmodal

Introduction

- Trends in unitised trade
- Medium term forecasts
- Trends in ship deployment - roro
- Trends in ship deployment - lolo
- Changes in deep sea service patterns
- The 18,000 TEU ship?

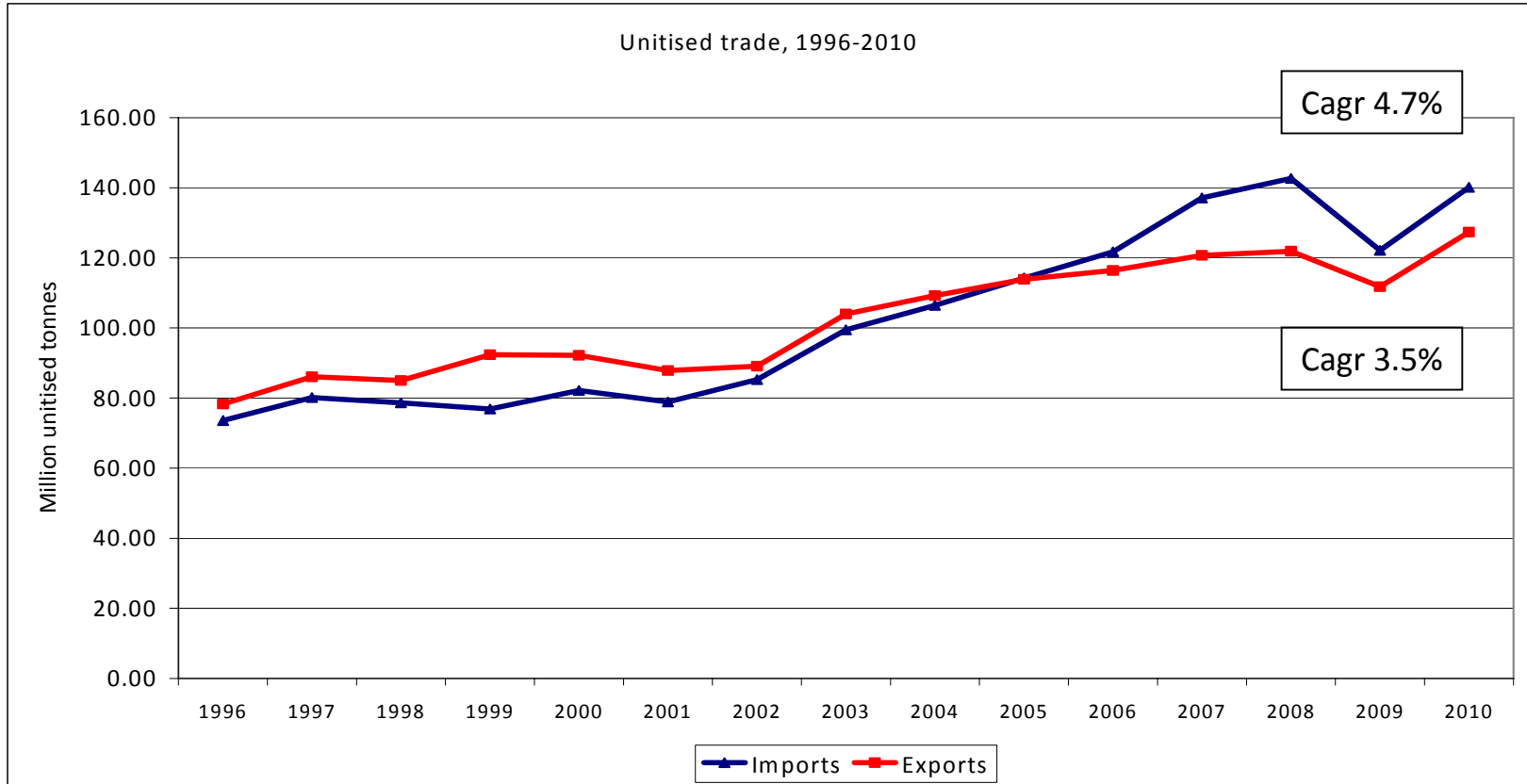


“Neither a borrower nor a lender be”

Hamlet, Act 1

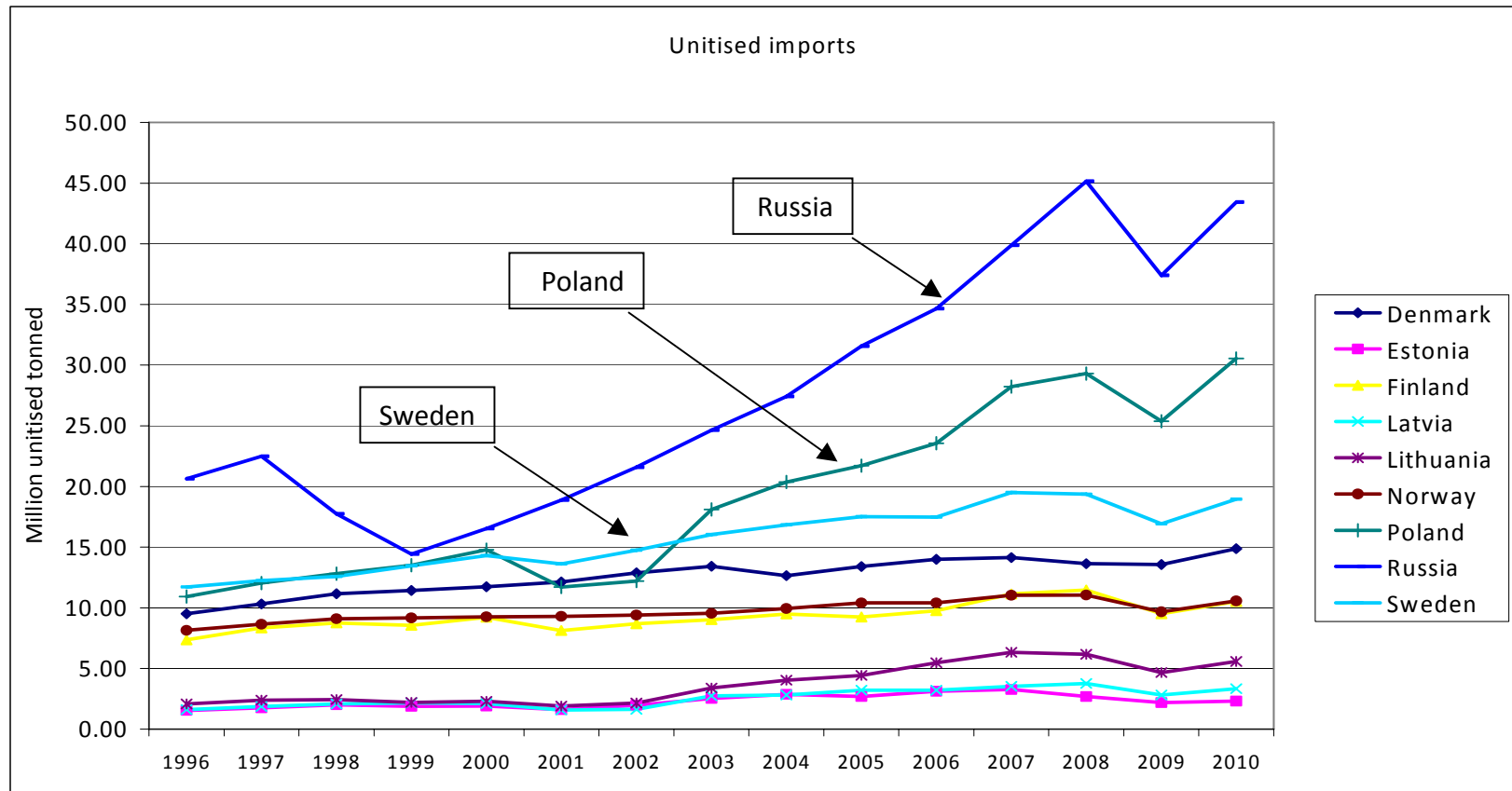
Understanding the market

Baltic/Scandinavia unitised trade



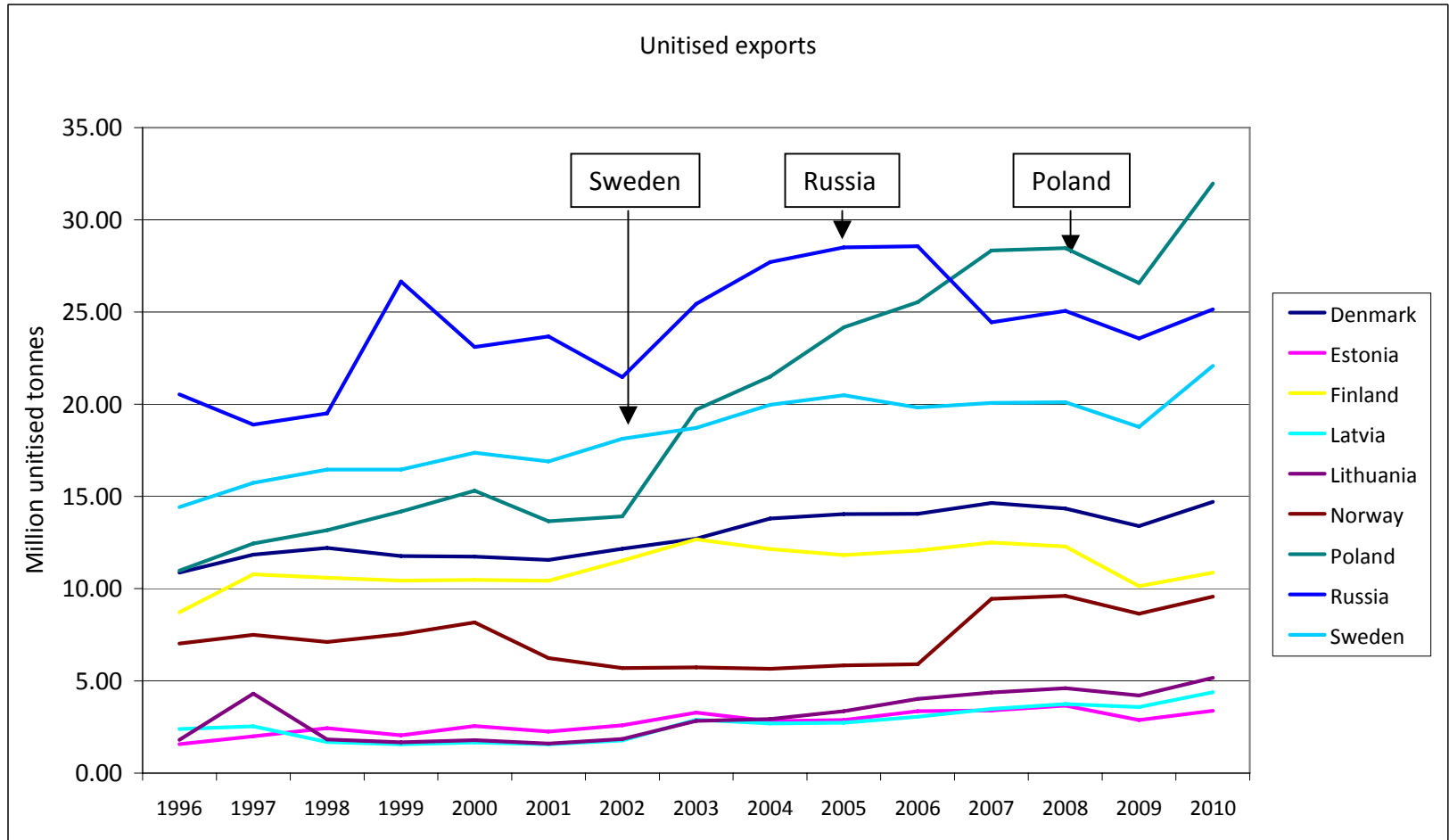
- The basics, the foundation of regional unit load maritime trade
- Growth trend in imports surpassing growth in exports

Unitised imports by country

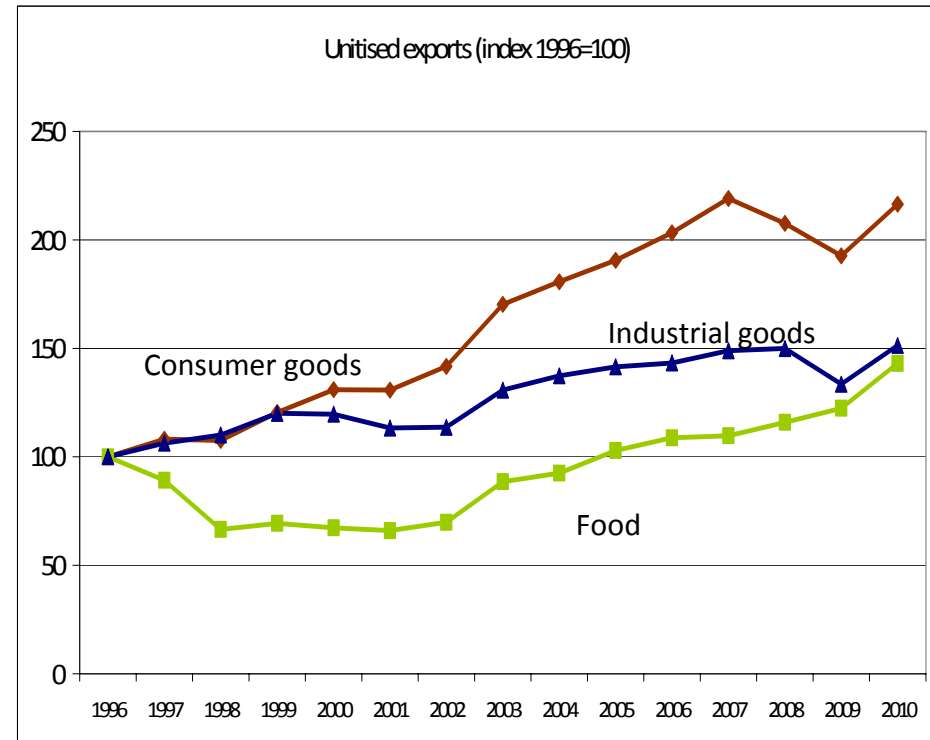
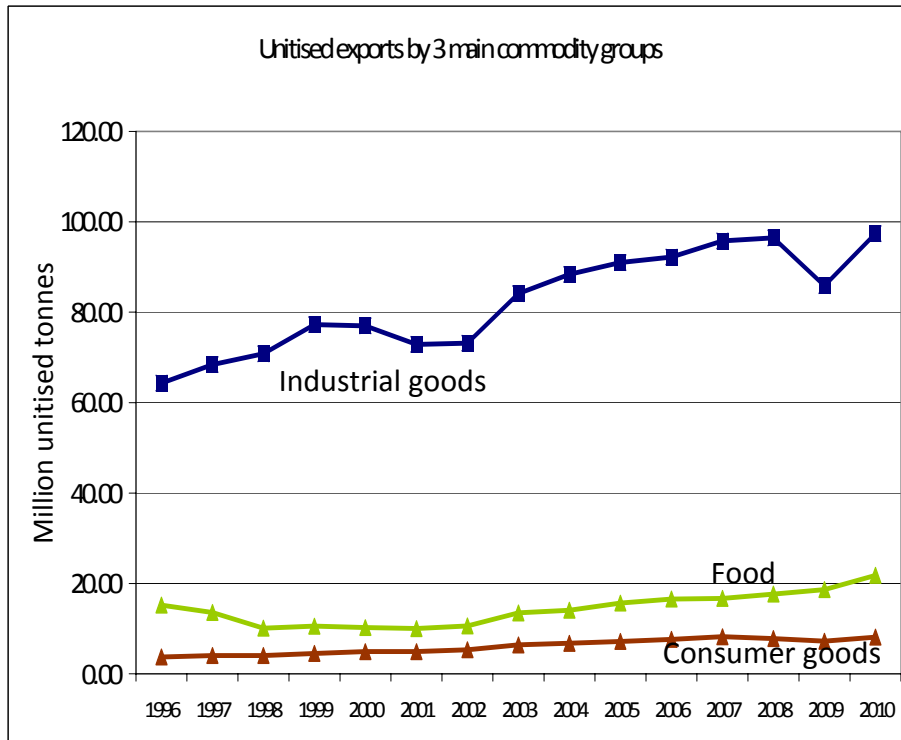


- A stable market, recent growth driven by 3 economies
- 2003 was the first year for data for Poland via Eurostat. They joined the EU in 2004. A change in collection methodology may explain some of the differences.

Unitised exports by country

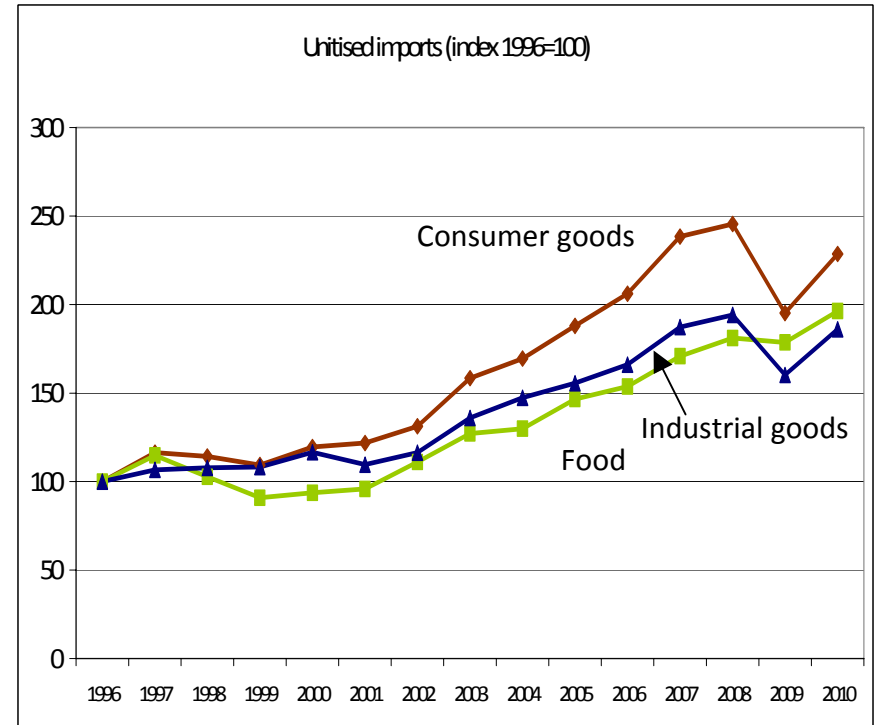
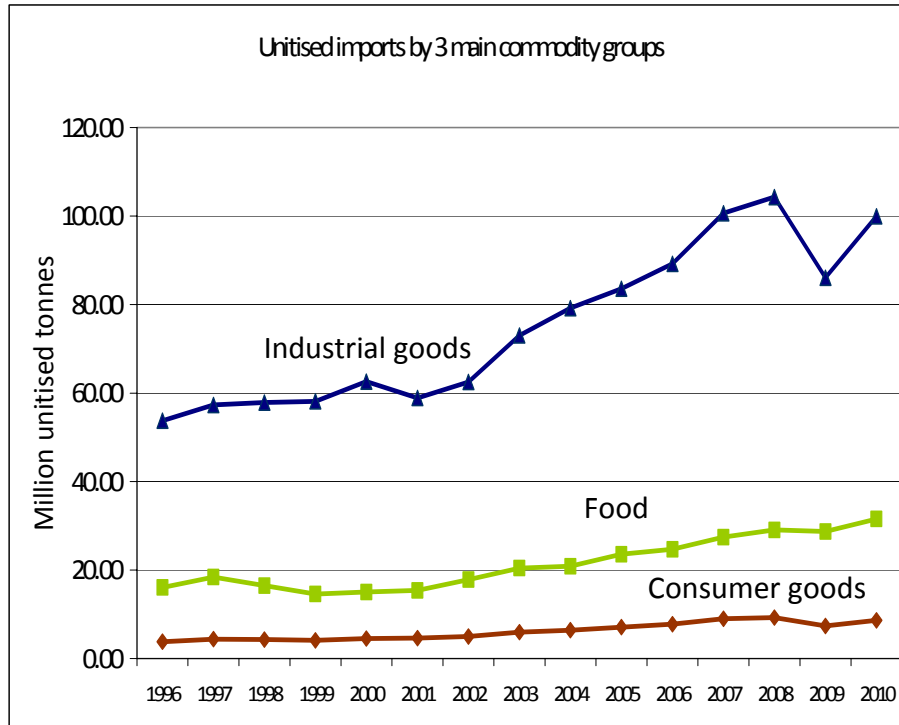


Unitised exports by commodity group



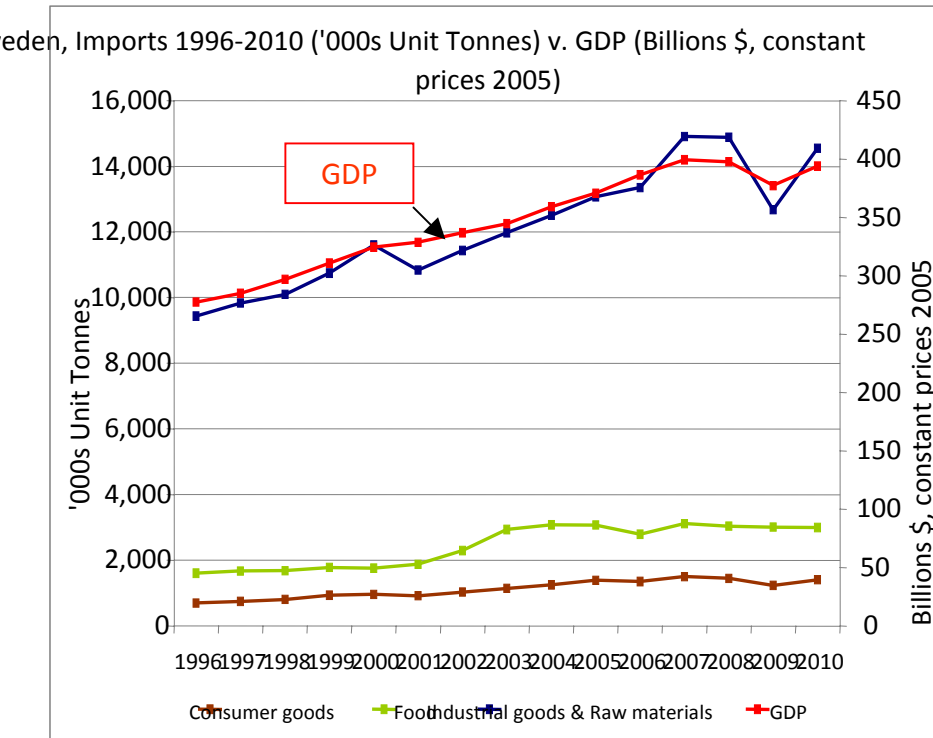
- Industrial goods dominate in volume terms
- Growth in all commodity groups, strongest in consumer goods
- Food exports kept growing, even in recession
- all groups back to pre-crisis levels

Unitised imports by commodity group

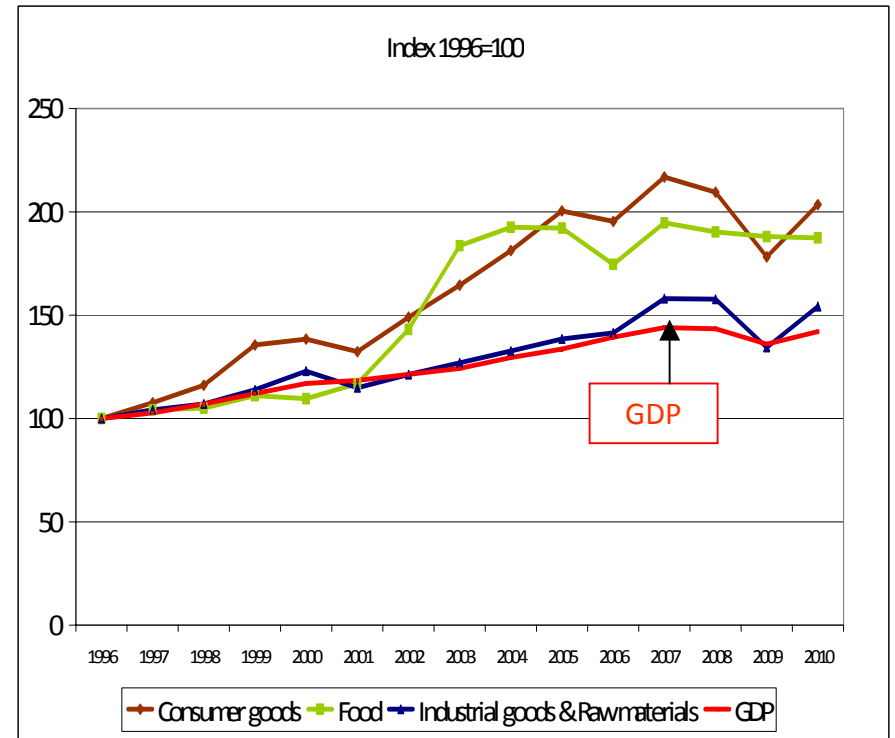


- Imports in all sectors increasing, with food exceeding pre-crisis levels
- Consumer goods imports rising rapidly

Case study - Sweden

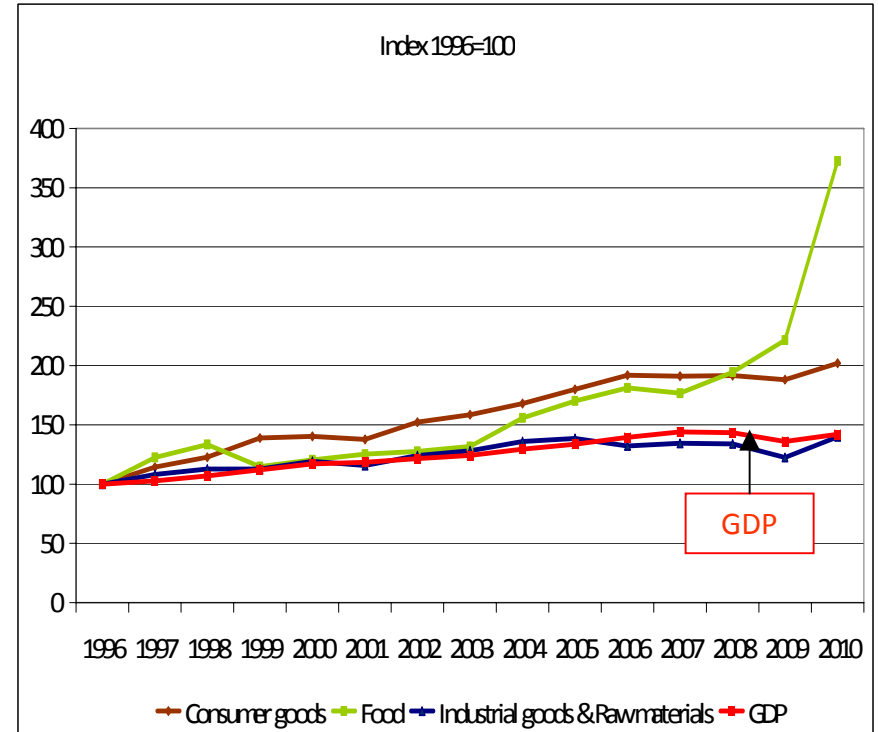
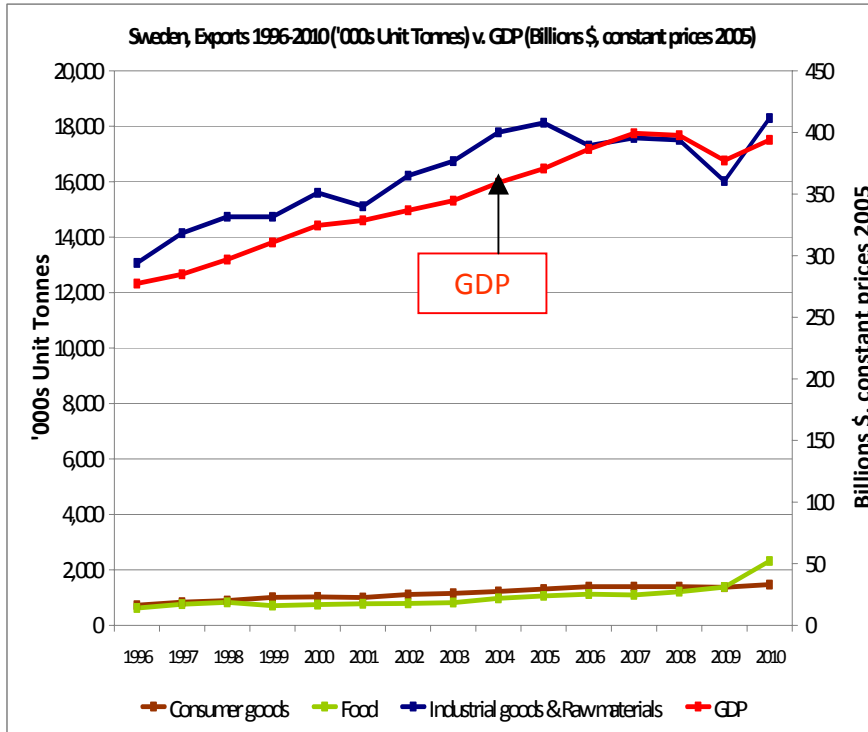


Goods (tonnes) compared with GDP (\$ value)

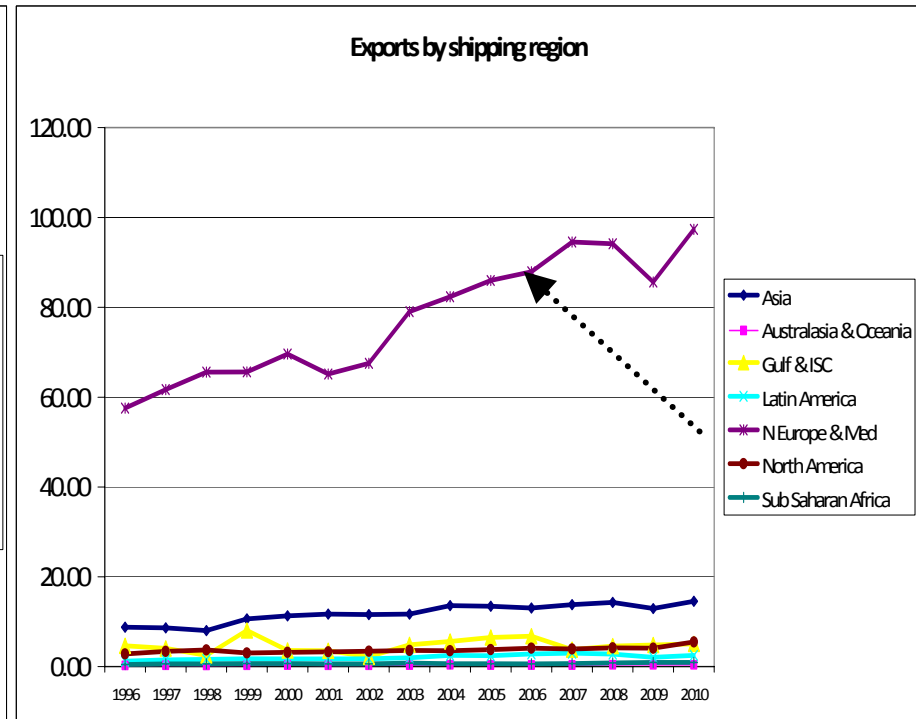
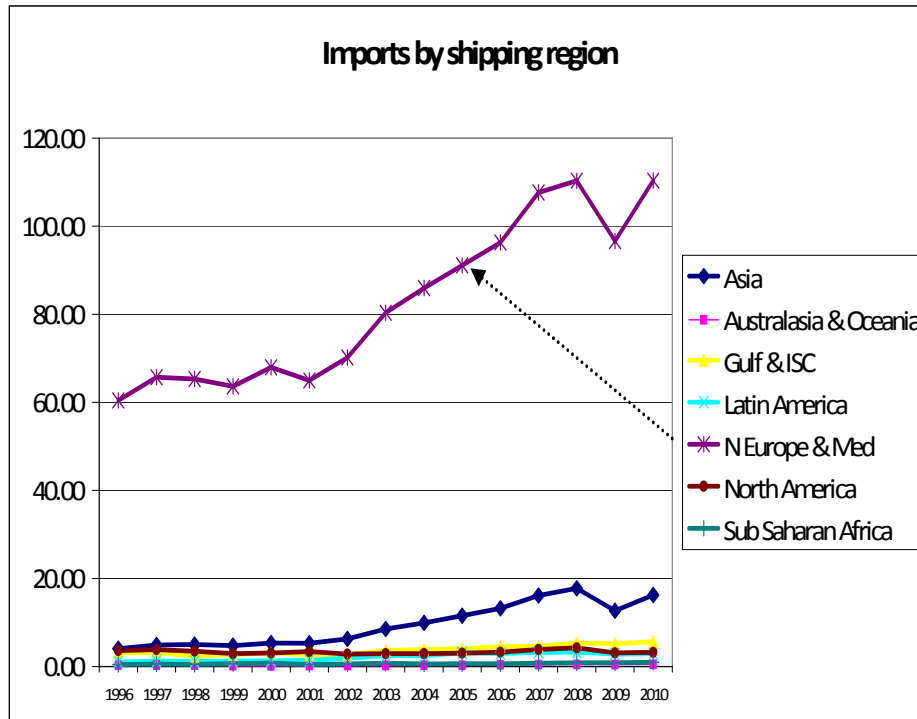


Goods index compared with GDP index

Sweden case study - exports



Unitised trade by region



- Intra European trade dominates the Baltic trades and will continue to do so,
- though import substitution from Asia increasing

Overall Intra European RoRo demand based on trade data

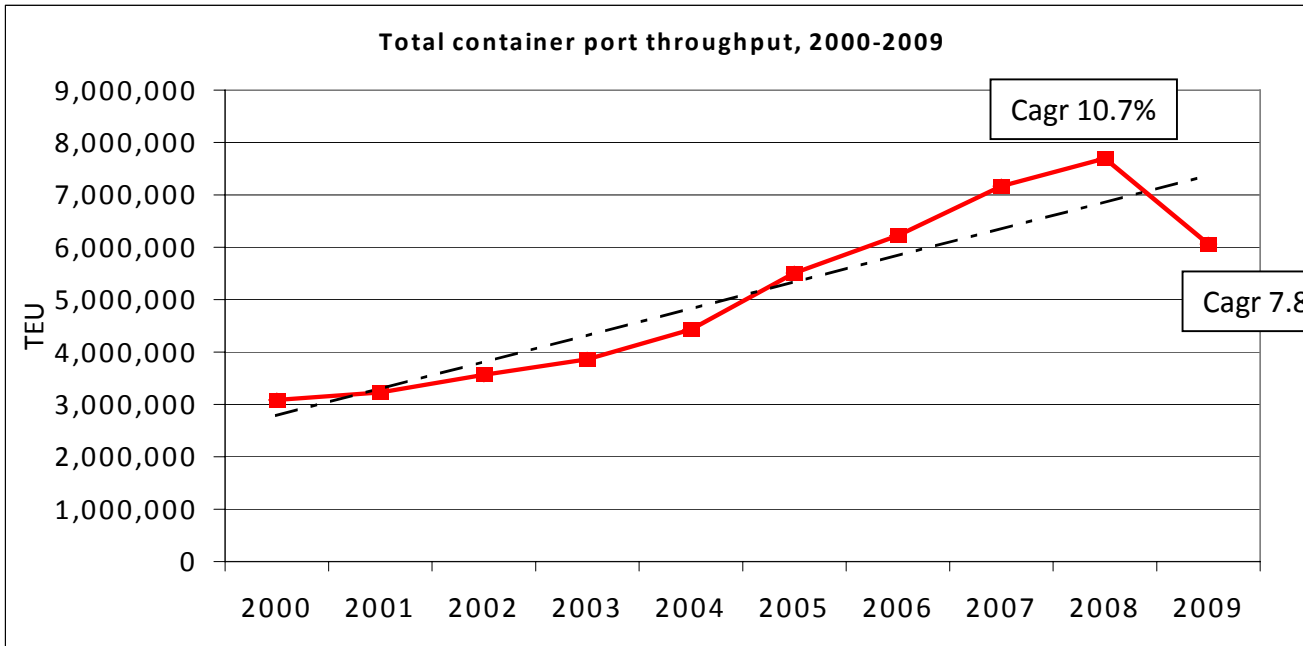
Growth indices by RoRo corridors (1996 = 100)

	2007	2008	2009	2010	<i>m tonnes 2010</i>
Intra Baltic	476	459	374	427	2.57
Baltic – N.Sea	223	223	193	236	6.02
Trans Kattegat/Skagerrak	143	142	130	142	9.09
Scandinavia – UK	93	89	80	86	5.82



- Evidence of recovery in underlying demand in 2010
- Scandinavia – UK still struggling

Scandinavia/Baltic Container port throughput



Total of 38 ports

Port traffic growing at a faster rate than trade

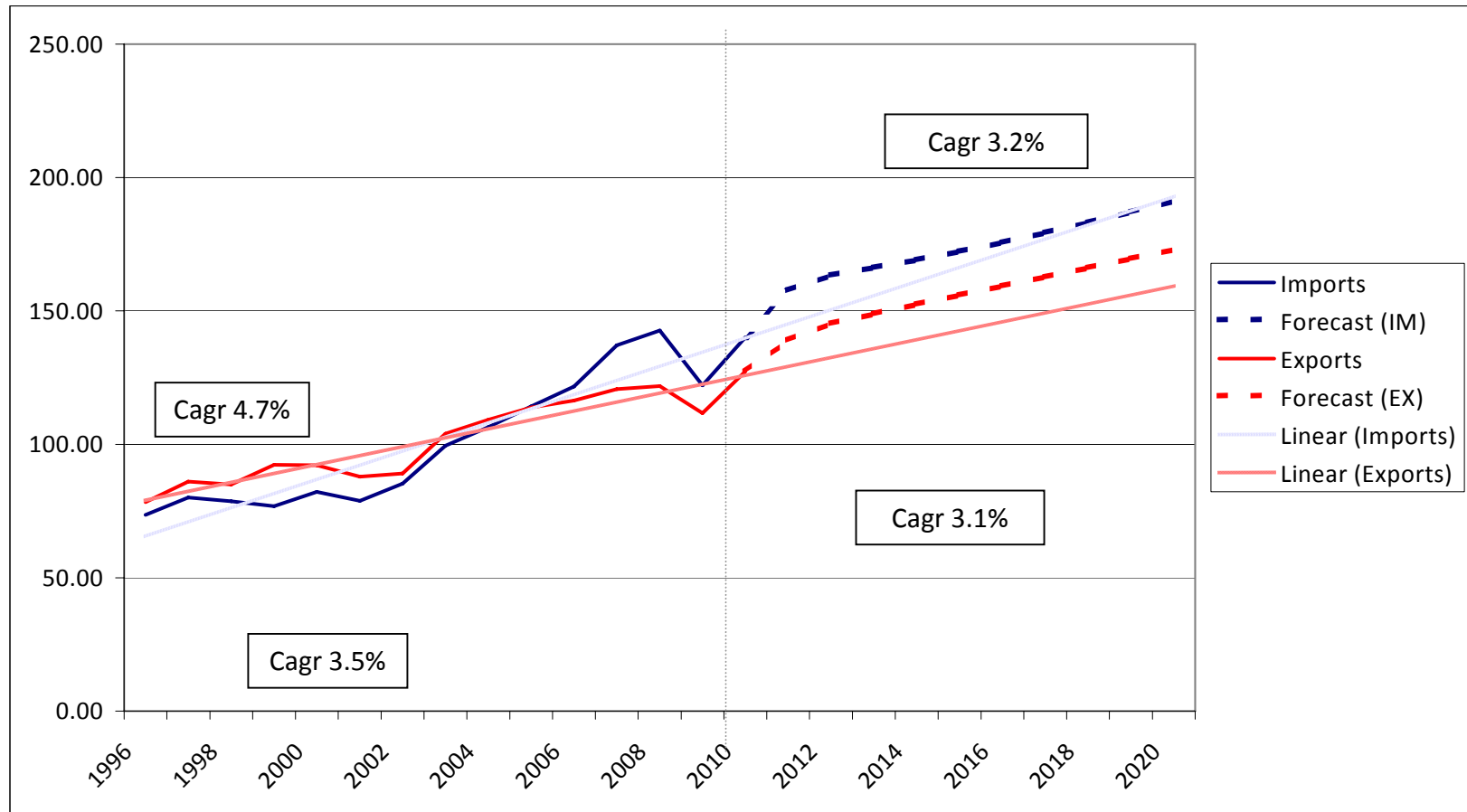
	2000	2007	2008	2009	2010	CAGR
ST PETERSBURG	195,601	1,697,720	1,983,110	1,341,850	1,931,000	25.7%
Gothenburg	685,000	840,550	862,595	817,616	880,000	2.0%
Gdansk	18,037	96,873	185,661	240,623	511,876	39.7%
Gdynia	188,272	614,373	610,767	378,340	485,255	9.9%
Helsinki	376,340	431,406	419,809	357,204	400,290	0.6%
Kotka	192,108	570,881	666,356	345,939	394,814	7.5%
Aarhus	293,000	504,000	458,000	385,000		3.1%
Helsingborg	77,900	240,000	250,000	260,500		14.4%
Klaipeda	39,955	321,432	373,263	247,982	295,000	22.1%
Copenhagen/Malmo	129,500	192,000	194,000		190,000	3.9%
Riga	84,818	211,840	207,122	182,980	254,475	11.6%
Tallinn	76,692	180,911	180,927	130,939	151,956	7.1%



“Tomorrow, and tomorrow, and tomorrow”

Macbeth, Act 5

Medium term forecasts



- Cagrs for 1996-2010 and 2010-2020
- Imports have become the headhaul trade flow
- = more empties?

Forecast imports by region of origin

	2010	2020	Absolute growth	% change 2010-2020	CAGR
	Million tonnes				
Asia	16.24	24.66	8.42	52%	4.3%
Australasia & Oceania	0.52	0.62	0.10	19%	1.8%
Gulf & ISC	5.67	7.29	1.62	29%	2.6%
Latin America	2.90	3.78	0.88	30%	2.7%
N Europe & Med	110.38	148.43	38.05	34%	3.0%
North America	3.24	4.84	1.61	50%	4.1%
Sub Saharan Africa	0.98	1.41	0.43	43%	3.7%
Total	140.12	191.40	51.28	37%	3.2%

- Main emphasis is in the short sea trades
- Growth in most deep sea markets is unremarkable, except from Asia
- Ports need to prepare for this demand on capacity
- Shipping lines think strategically about placement of tonnage

The GDP debate

- GDP describes, but does not explain trends
- Cause or effect?
- Overall trade volumes in unitised goods grows with GDP
 - but not necessarily at the same rate
 - growth lower where markets mature/economies small and saturated
 - short run fluctuations affected by credit conditions and even house prices (influencing consumer lending and borrowing)
- GDP forecasts are not totally reliable!



“On such a full sea are we now afloat”

Julius Caesar, Act 4

Global RoRo Fleet Deployment by Continent 2011

'000s lane metres

	N. Europe	Med	Far East	Other	Total
Freight & ro-pax	386	220	43	300	949
Passenger ferries	225	240	73	44	582
Total	611	460	116	344	1531

- 70% of deployment in Europe/Mediterranean
- 41% freight/ro-pax capacity in North Europe

European Freight Fleet Development: 2004 - 2011

'000s lane metres

	2004	2011	
North Europe	322	385	+20%
Mediterranean	183	219	+20%
	505	604	+20%

- Growth in freight vessel lane metre capacity +20%
 - growth in supply similar for N. Europe & Mediterranean

RoRo fleet deployment by trade lane

Million lane metres p.a.

	2004	2008	2011	% increase '04 – '11
Intra Scandinavia/Baltic	36.4	44.0	49.5	+36%
Scandinavia/Baltic – Continental mainland	29.1	34.4	30.2	+4%
Scandinavia/Baltic – British Isles	3.5	3.4	3.1	-9%

- **Capacity offered expanded to 2008 to meet demand**
 - increasing reliance on larger vessels to reduce unit costs
 - service frequencies remaining stable, some rationalisation/consolidation
- **Capacity fell in 2009 but now rising on intraregional routes**

Ship deployment – Baltic short sea lolo

	Services	Ships	Ave TEU	Annual TEU (000) deploy
2000				
NW Europe/Scand	29	44	229	386.6
NW Europe/Baltic	46	71	364	919.9
NW Europe/Scand & Baltic	1	1	174	9.0
	76	116		1315.5
2004				
NW Europe/Scand	29	41	305	554.9
NW Europe/Baltic	55	88	482	1461.7
NW Europe/Scand & Baltic	2	2	461	28.5
Scand/Baltic coastal	1	1	150	3.9
	87	132		2049.0
2008				
NW Europe/Scand	46	59	475	1372.3
NW Europe/Baltic	84	142	750	3601.6
NW Europe/Scand & Baltic	3	4	613	127.5
Scand/Baltic coastal	2	2	556	77.5
	135	207		5178.9
2011				
NW Europe/Scand	34	37	592	1062.4
NW Europe/Baltic	48	87	935	2179.9
NW Europe/Scand & Baltic	12	29	959	576.1
Scand/Baltic coastal	5	7	672	234.4
	99	160		4052.8

- a more balanced picture emerging post recession
- number of services including Scandinavia + Baltic rotations increasing

NW Europe - France, Belgium, Netherlands, Germany, UK, Ireland

Scandinavia - Denmark, Norway, Sweden

Baltic - Poland, Finland, Estonia, Latvia, Lithuania, Russia

Ship deployment – Baltic deep sea lolo

2000 – 5 services, 37 ships

Carrier/service	Frequency	Ships	Ave TEU	Annual TEU (000) deploy
a) Europe/Mediterranean				
MAERSK LINE - EUROMED	52	4	3004	156.2 Gothenburg, Aarhus
b) Europe/Far East				
MAERSK SEALAND - AE5	52	13	6400	332.8 Gothenburg
CHIPOLBROK	36	12	867	31.2 Gdynia
c) Europe/West Coast South America				
HAMBURG-SUD - MULTIPURPOSE	12	3	703	8.4 Gothenburg
d) Europe/East Coast North America				
ACL	52	5	3100	161.2 Gothenburg

Ship deployment – Baltic deep sea lolo

2008 – 4 services, 32 ships

Carrier/service	Frequency	Ships	Ave TEU	Annual TEU (000) deploy
a) Europe/Mediterranean				
MAERSK LINE/JMA - SCANMED/NORTH	52	4	2320	120.6 Gothenburg
b) Europe/Far East				
MAERSK SEALAND - AE1	45	9	6978	314.0 Gothenburg, Aarhus
CHIPOLBROK	48	14	1015	48.7 Gdynia
c) Europe/East Coast North America				
ACL	52	5	3100	161.2 Gothenburg

- Hamburg Sud dropped WCSA service

Ship deployment – Baltic deep sea lolo

2011 – 7 services, 53 ships

Carrier/service	Frequency	Ships	Ave TEU	Annual TEU (000) deploy
a) Europe/Mediterranean				
CMA-CGM - FEMEX	52	6	1760	91.5 Gothenburg, Helsingborg, Aarhus
MAERSK LINE - SCANMED	52	5	2502	130.1 Gothenburg, Aarhus
MAERSK LINE - MARUS EXPRESS	52	3	868	45.1 St Petersburg
TOTAL		14	1834	266.8
b) Europe/Far East				
MAERSK LINE - AE1/AE10	52	21	8132	422.9 Gdansk, Gothenburg, Aarhus
c) Europe/West Coast South America				
MAERSK LINE - ECUBEX	52	7	2555	132.9 St Petersburg
d) Europe/East Coast North America				
ACL	52	5	3100	161.2 Gothenburg
e) US Gulf Coast/Europe/Far East				
CHIPOLBROK - 1	12	6	1636	19.6 Gdynia

Changes ahead

- Currently Maersk Line is reorganising its Eur/FE service network. The AE1/AE10 butterfly service, using 21 x c 8000 TEU ships, will be disconnected into two separate strings.
- Ships currently deployed on the AE7 string will switch to AE10 - 10 ships consisting of 8 x E class (15500 TEU) plus 2 x 13090 TEU chartered newbuilds, covering Gdansk, Gothenburg and Aarhus, plus Rotterdam and Bremerhaven, to Ningbo, Shanghai, Yantian and Port Tanjung Pelepas only.
- The remaining 13090 TEU newbuilds will be deployed on the AE2 string with existing c 8000 TEU ships.

Maersk's new rotations

AE1	AE2	AE7	AE10
Felixstowe	Bremerhaven	Bremerhaven	Rotterdam
Rotterdam	Hamburg	Felixstowe	Bremerhaven
Bremerhaven	Rotterdam	Zeebrugge	Gdansk
	Felixstowe	Bremerhaven	Aarhus
Tanger Med	Antwerp		Gothenburg
		Malaga	Bremerhaven
Ningbo	Singapore		Rotterdam
Kobe	Busan	Ningbo	
Nagoya	Hakata	Shanghai	Hong Kong
Yokohama	Xingang	Xiamen	Ningbo
Ningbo	Dalian	Yantian	Shanghai
Shanghai	Qingdao	Tanjung Pelepas	Yantian
Hong Kong	Kwangyang		Tanjung Pelepas
Yantian	Shanghai	Algeciras	
Tanjung Pelepas			Rotterdam
	Bremerhaven	Bremerhaven	
Felixstowe			



*“There are more things in heaven and
earth...than are dreamt of in your
philosophy”*

Hamlet, Act 1

The 18,000 TEU ship

- The Malacca max 18,000 TEU ships planned by Daewoo report to be:
 - 470m loa,
 - 60m beam
 - 15.7m draught.
- The biggest ships at the moment, Maersk's "E" ships at 14,800+ TEU, are 398m loa, 56.4 beam, and 16m draught (and thus "Post New Panamax" 2014)
- Not sure about plans for the 18000 TEU newbuilds. Having decided to deploy the 15550 TEU ships in the Baltic, it is not much of a step to 18000 TEU ships, but Maersk may decide to deploy them on a more conventional rotation (including Felixstowe and Antwerp)

Challenges to face, Lessons to learn

- The market is dynamic!
- Forecasting should be by commodity AND industrial sector because
 - trades react differently
 - level of market penetration (and scope for growth) varies by commodity
- Demand likely to grow by 3% p.a. in medium term (+ any conversions from bulk sector) – growth will continue to reflect long term decisions on industrial location and investments
- Port traffic grows at a faster rate than GDP and trade, but falls harder too!

Thank you

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