# **SERVICES**

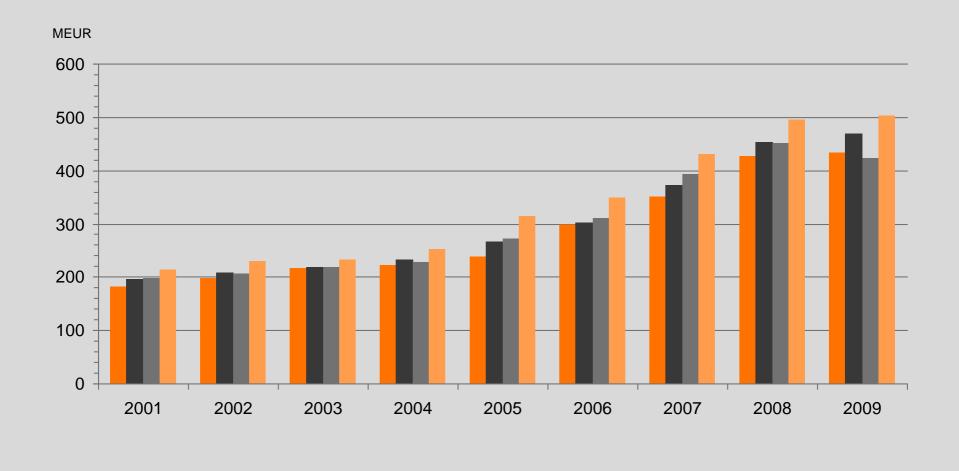
CHRISTOPH VITZTHUM

GROUP VICE PRESIDENT, WÄRTSILÄ SERVICES





## **Services – Net sales per quarter**





• Q1 • Q2 • Q3 • Q4

## **Fleet Development**

#### Anchored\* (Reported Navigation Status At Anchor)

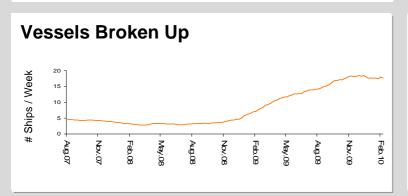
	# Ships			% Total Fleet		
	Current	1 M Ago	6 M Ago	Current 1 M Ago 6 M Ago		
Crude	493	470	466	23,6% 22,6% 22,1%		
Oil product	344	349	347	24,0% 24,3% 23,7%		
LNG	54	57	82	16,5% 17,2% 25,4%		
LPG	116	121	115	22,7% 23,7% 22,7%		
Chemical	64	70	70	18,8% 20,3% 20,3%		
Bulk	1113	1103	944	17,3% 17,3% 14,3%		
Ore	22	18	16	19,4% 16,7% 18,0%		
Vehicle	72	74	100	11,5% 11,9% 15,6%		
Gen Cargo	677	642	617	14,9% 14,1% 13,5%		
RO-RO	31	28	41	6,8% 6,1% 8,5%		
Container	606	583	623	13,6% 13,1% 14,0%		
Chem/oil	526	525	506	19,8% 19,8% 19,4%		
Passanger/Cruise	5	5	1	2,9% 3,4% 0,7%		

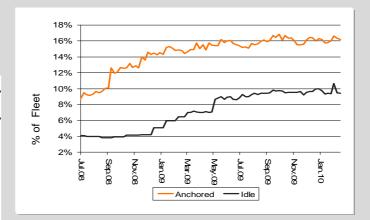
\*Source Bloomberg (AISLive). More than 25,000 vessels (>299 GT) required to report their positions under coverage.

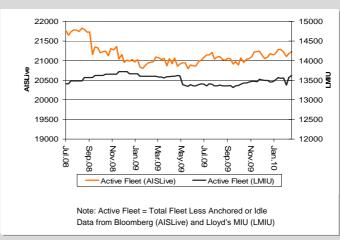
Idle\*\* (No Movement for 19 days for Containerships, others 35 days)

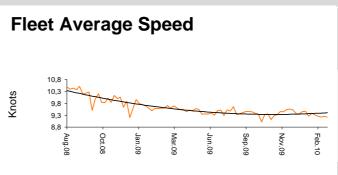
10110				- 1 - 7 7 - 7		
		# Ships		% Total Fleet		
	Current	1 M Ago	6 M Ago	Current 1 M Ago 6 M Ago		
Bulk	435	405	353	6,1% 5,7% 5,1%		
Car Carrier	90	103	108	12,1% 13,8% 14,6%		
Container	613	613	614	12,8% 12,8% 12,8%		
LNG Carrier	25	21	33	7,4% 6,2% 10,2%		
LPG Carrier	135	124	116	11,3% 10,4% 9,8%		
Reefer	118	126	165	14,4% 15,3% 19,6%		
Reefer	118	126	165	14,4% 15,3% 19,6%		

\*\*Source Loyd's MIU. Around 15,000 vessels (>299 GT) on line for the specified sectors.











#### **Market Trends**

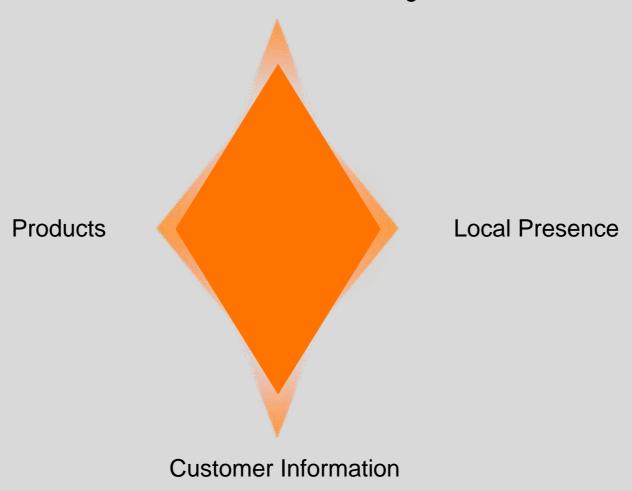
- Repair not maintenance
- Large conversion projects / upgrades on hold
- Shipping companies focusing on reducing costs
- Especially larger owners interested in partnerships
- Environmental concerns due to tightening legislation



### What it takes



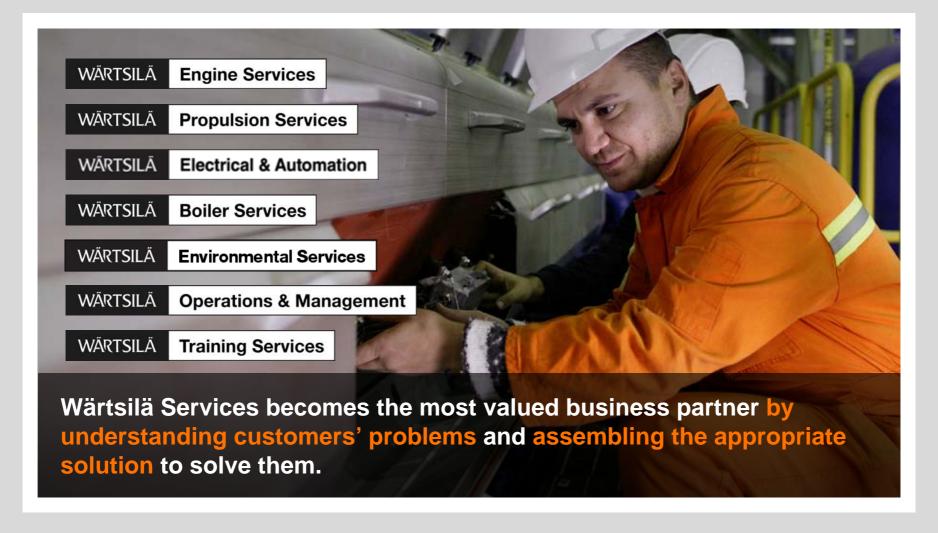
#### **Customer Understanding**





### Services offering portfolio







### Wärtsilä Services



70 countries • > 160 locations • > 11'000 people • > 7'000 field service forces

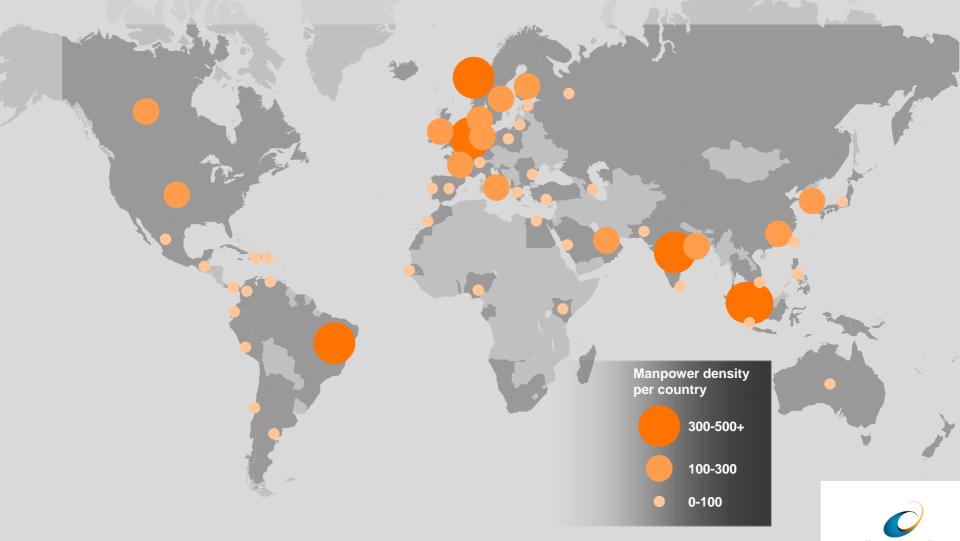




# **Current Field Manpower in Wärtsilä Services**



70 countries • > 160 locations • > 11'000 people • > 7'000 field service forces



## Offering adapted to customer's needs



Solution Complexity

We have experience in assembling the appropriate products and services in customised solutions.

2

1

2









# Basic Products and Services

- Spare Parts
- Field Services
- Technical Services

#### **Packages**

- Service Products
- Standard Packages

# Solutions & Agreements

- Advanced Packages
- Project & Contracting
- Service Agreements

# Partnerships & Integrations

- 'Trend setter'
- Integration into customers' value chain



#### Focus on the Customer and on Value



From technical to **COMMERCIAL ENGINEERING** 

From focus on CAPEX to FOCUS ON OPEX

From total cost of ownership to TOTAL PROFIT OF OWNERSHIP

Customers Value



# **Segmentation key starting point**

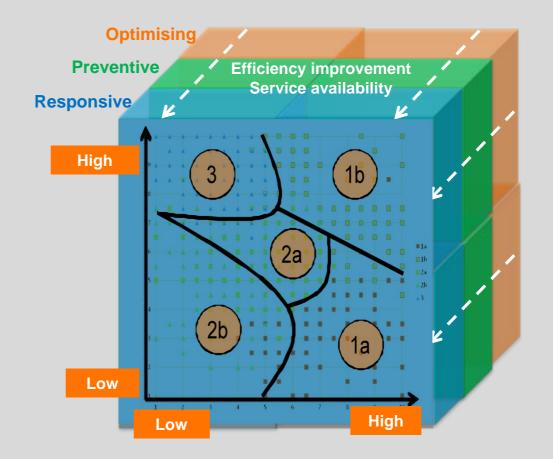
- Traditionally segmentation has been done based on geography, industry or product
- Shift towards segmentation based on customers' needs
- Few enough segments to enable standardisation / modularisation



## Grouping, packaging and commercialisation of offering



- Potential analysis by need segment
- Offering potential and gap analysis
- Grouping of services
- Development of services
- Commercialisation





## **Global Support** Wärtsilä's local resources • Field Manpower • Workshop Local expertise Wärtsilä's • 3<sup>rd</sup> party **Expertise** Central database Back-office experts -FILES Onboard expertise · Safety manning level onboard · chief & engineers • electrician automation/telecom Assistance from onshore · Warehouse / logistics fixed agreement



#### How does Wärtsilä do it?



When we can measure and analyse, we can optimise the operation and predict the maintenance need.

#### Data from equipment

Send the data to centralised database



#### **Operating Crew reporting**

Wise LT report Inventory Work done Unscheduled

Water, Fuel & Lube oil analysis



#### Measurements

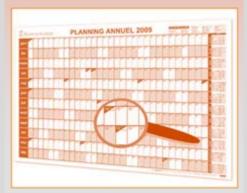
Execution of inspections according to schedule

Report findings



# Maintenance Planning

- Analysis from:
  - CBM reports
  - Measurements
- Based on analysis update
  - Work cards
  - Spares scheduling
  - Workforce scheduling
  - Logistics and coordination
- After updates report
  - Recommendations
  - Actions needed







Risk evaluation with Contract Manager and Customer

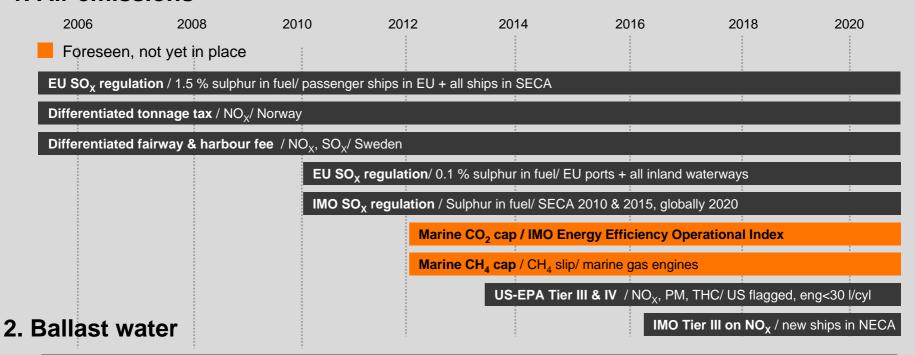




### **Legislation changes / Marine**



#### 1. Air emissions



2004-02 Convention for the Control and Management of Ships Ballast Water & Sediments was adopted by consensus at the IMO Diplomatic Conference (London, 13th February 2004).

2009-10 ratified by 18 countries representing 15 % world tonnage.

2010 The estimate year for ratification, after which a vast majority of ships will need to install Ballast Water Treatment system

#### 3. Oily water separation (OWS)

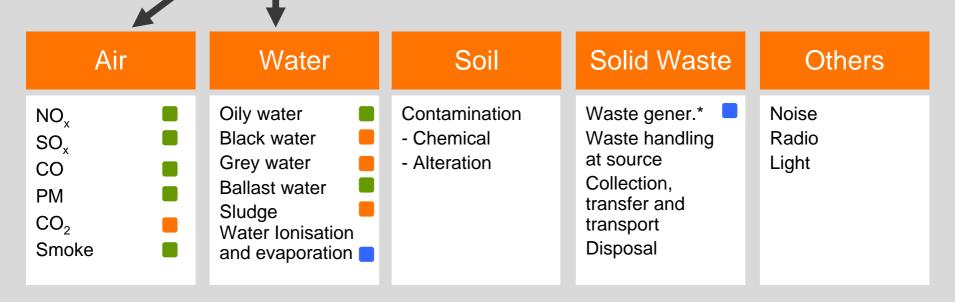
IMO Marpol Annex VI MPEC 107 (49): OWS required on all vessels > 400 GWT Oil content in discharged water less than 15 ppm



#### **Pollution streams**



## Opportunities and focus areas for Wärtsilä Services



Each of these pollutions have their remedies/technologies

Today's active areas of product/solution developments in Wärtsilä

CHRISTOPH VITZTHUM

- Immediate focus
- **Discovery**
- Follow-up



<sup>\*</sup> Incineration of waste from ship

