



# *Bringing Plant Management and Maintenance Management together Using Maximo*

***M.M.M.E. (Marc) Boer***

Manager Fleet Management Support

# Introduction Boskalis



# OUR CLIENTS

## ENERGY

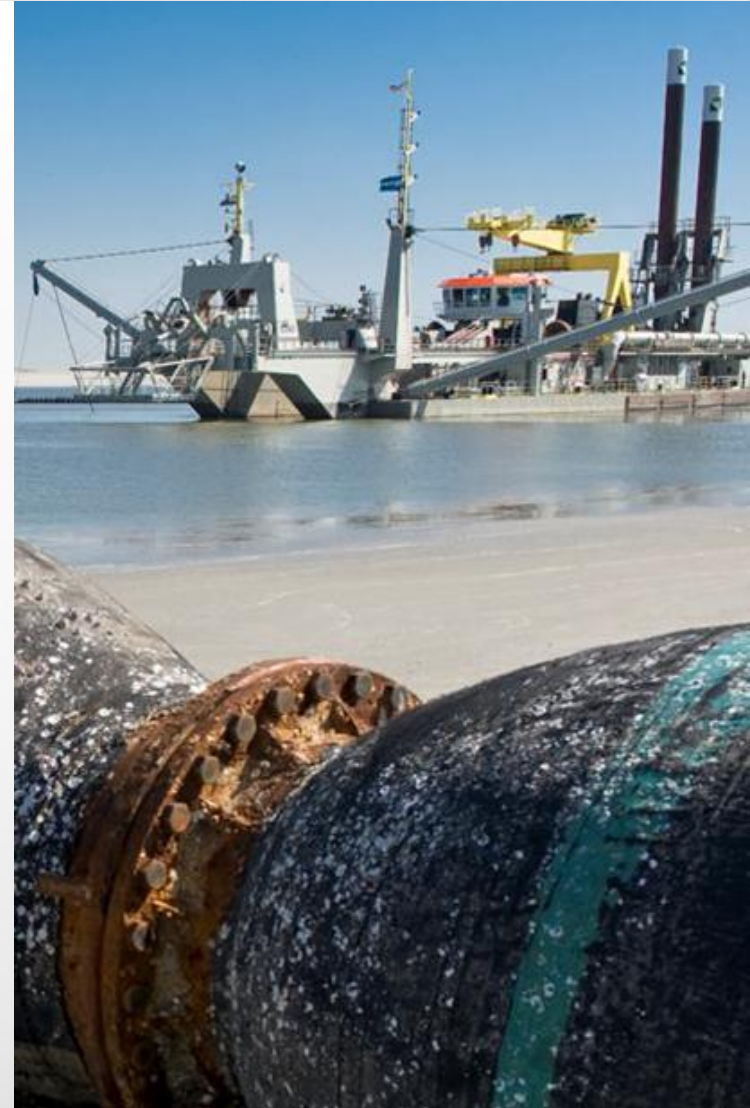
- EPC Contractors, O&G companies, O&G construction companies, National Oil Companies

## PORTS

- Terminal operators, private and independent port authorities, Government owned port authorities, shipping companies & agents

## INFRA

- Innovative government agencies, government owned project developers, traditional government agencies



# KEY FIGURES

EUR mln	2012	2011	2010	2009
Revenue	3,081	2,801	2,674	2,175
Order book	4,106	3,489	3,248	2,875
EBITDA	568	591	622	445
EBIT	337	354	402	249
Net profit	250	254	311	228
Return on equity	13.8%	15.4%	21.7%	21.1%
Solvency	39.2%	37.4%	37.1%	46.5%



# OUR ACTIVITIES

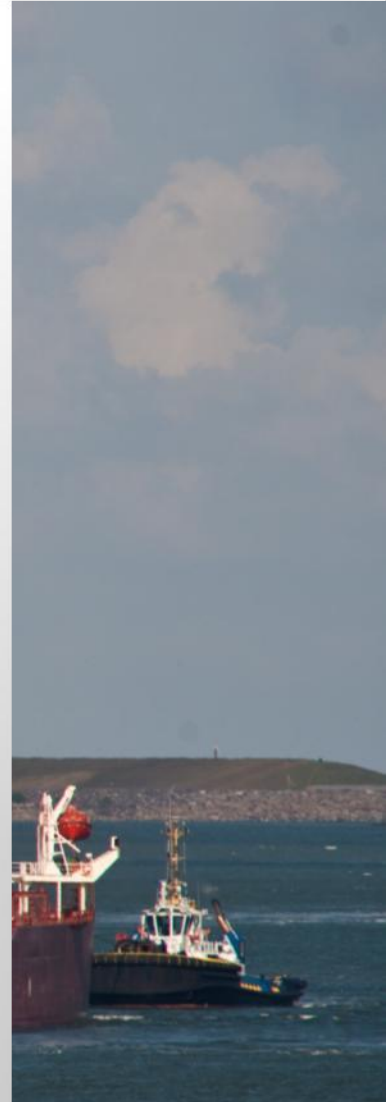


# HARBOUR TOWAGE

- Berthing & unberthing of seagoing vessels
- Assistance special objects
- Standby services
- Port services: Pilotage, Launches, Line handling, Fire fighting, Maintenance, Beacons

## CLIENTS & LOCATIONS

- PORTS: International shipping companies, shipping agents
- Rotterdam, Belgium, Brazil, Liverpool, Canada, Panama, South Africa, Singapore, Malaysia



# TRANSPORT, HEAVY LIFT & SUBSEA

- Transport: AHTS/PSV fleet, transport heavy / unusual loads,
- Heavy lift: lifting, decommissioning, maritime projects, marine support
- Subsea: IRM with saturation & air diving and ROVs

## CLIENTS & RECENT PROJECTS

- Oil & gas industry, windfarms, civil construction companies, salvage projects
- Locations: Rotterdam, Vancouver, Cape Town, Singapore, Brazil



# SALVAGE

- Emergency response, Wreck removal & Environmental protection
- Global coverage from Rotterdam, Houston, Cape Town & Singapore

## CLIENTS & RECENT PROJECTS

- Ship owners, governments and insurance companies (P&I Clubs)
- Recent high profile projects
  - Successful refloat in Mumbai (India 2010/11)
  - Vessel removal of Hyundai 105 (Indonesia 2010 - ongoing)
  - Co-salvager for the Rena (New Zealand 2011 - ongoing)
  - Costa Concordia oil removal contract (Italy 2012)
  - Kulluk Shell Platform (USA, Alaska 2012)





# DREDGING

- Construction and maintenance of ports and waterways
- Land Reclamation
- Coastal defense and riverbank protection
- Offshore services for oil & gas industry
- Underwater rock fragmentation

## RECENT AND CURRENT CLIENTS

- PORTS: Port of Rotterdam; Port of Melbourne; Abu Dhabi Ports Company
- ENERGY: Chevron; SAIPEM; Qatar Petroleum
- INFRA: Dutch Ministry of Transport; Environmental agency



# A LARGE , VERSATILE FLEET

*State of the art hoppers*



*Queen of the Netherlands*

*35,500 m<sup>3</sup>*

*A wide variety of cutters*



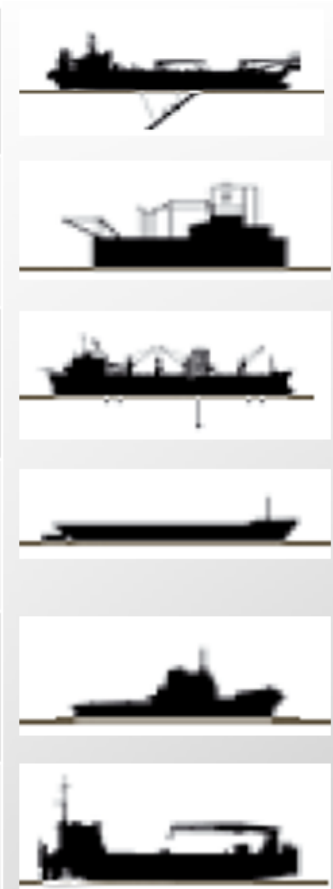
*Phoenix - 15,800 kW*

# JOINT FLEET: >1,000 VESSELS



Tugs	237
Floating Sheerlegs	9
Multiple support vessels	7
Barges	91
Other	64
<b>Total</b>	<b>408</b>

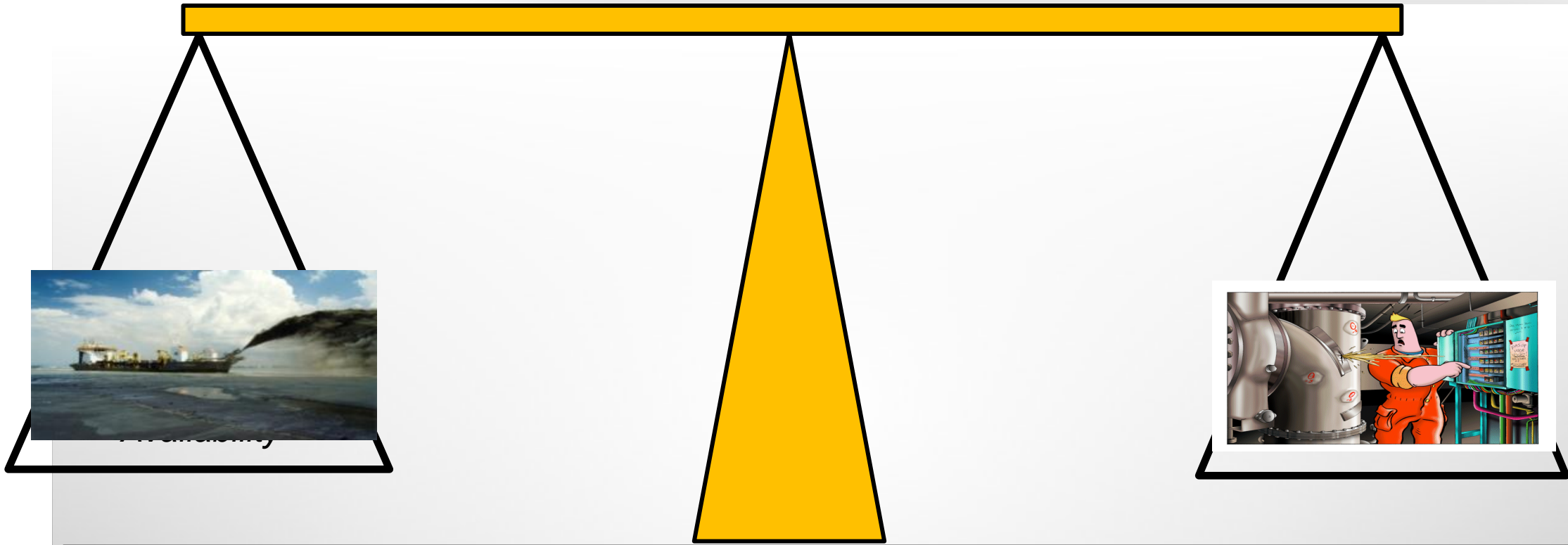
Dredgers	112
Rock dumping vessels	4
Dredge Support Equipment	77
Barges	156
Tugs, launches and other	286
Workboats	54
<b>Total</b>	<b>689</b>



# POSITION FLEET MANAGEMENT BOSKALIS

- FLEET MANAGEMENT DEPARTMENT → “SHIPPING COMPANY”
- BOSKALIS INTERNATIONAL (BKI) → CONTRACTOR.
- CHARTER AGREEMENT (SLA BETWEEN FLEET MANAGEMENT AND BKI)

# POSITION FLEET MANAGEMENT BOSKALIS



*The core activity of Fleet Management is to make vessels and equipment available for the execution of projects of Boskalis. The goal is to make the vessels and equipment available on time and in the most effective, efficient and safe manner.*

# INTRODUCTION & BACKGROUND

## 1999 – 2004: STANDARDIZE IT & PROCESSES

Implementation / Roll-out Maximo 4.1 / BaaN-ERP

## 2004 – 2007 : STANDARDIZE DATA & ORGANISATION

Item catalogue

Equipment / Location Structure “Esmeralda”

Preventive maintenance / Critical Equipment

## 2007 – 2011 : OPTIMIZE MAINTENANCE PERFORMANCE AND COST CONTROL

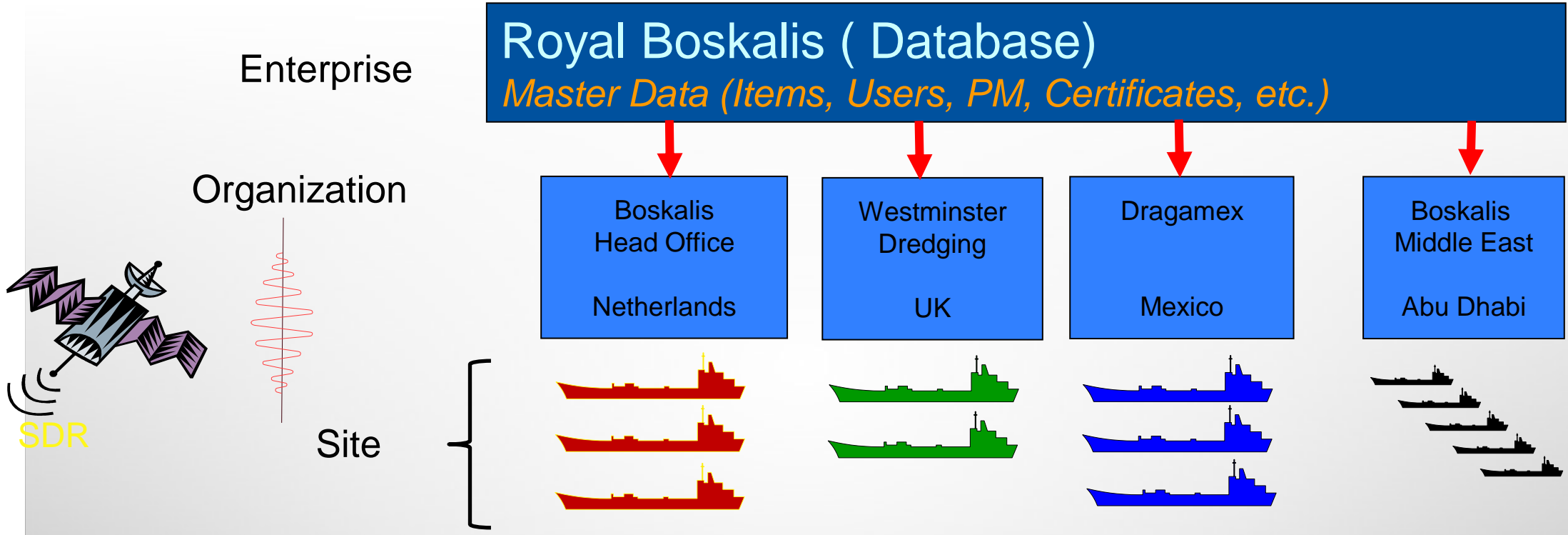
Pilot Measure performance 5 vessels MX4.

Upgrade Maximo 4.1.1 → 7.1 (EAM) Multisite

Measure performance all MX7 vessels.

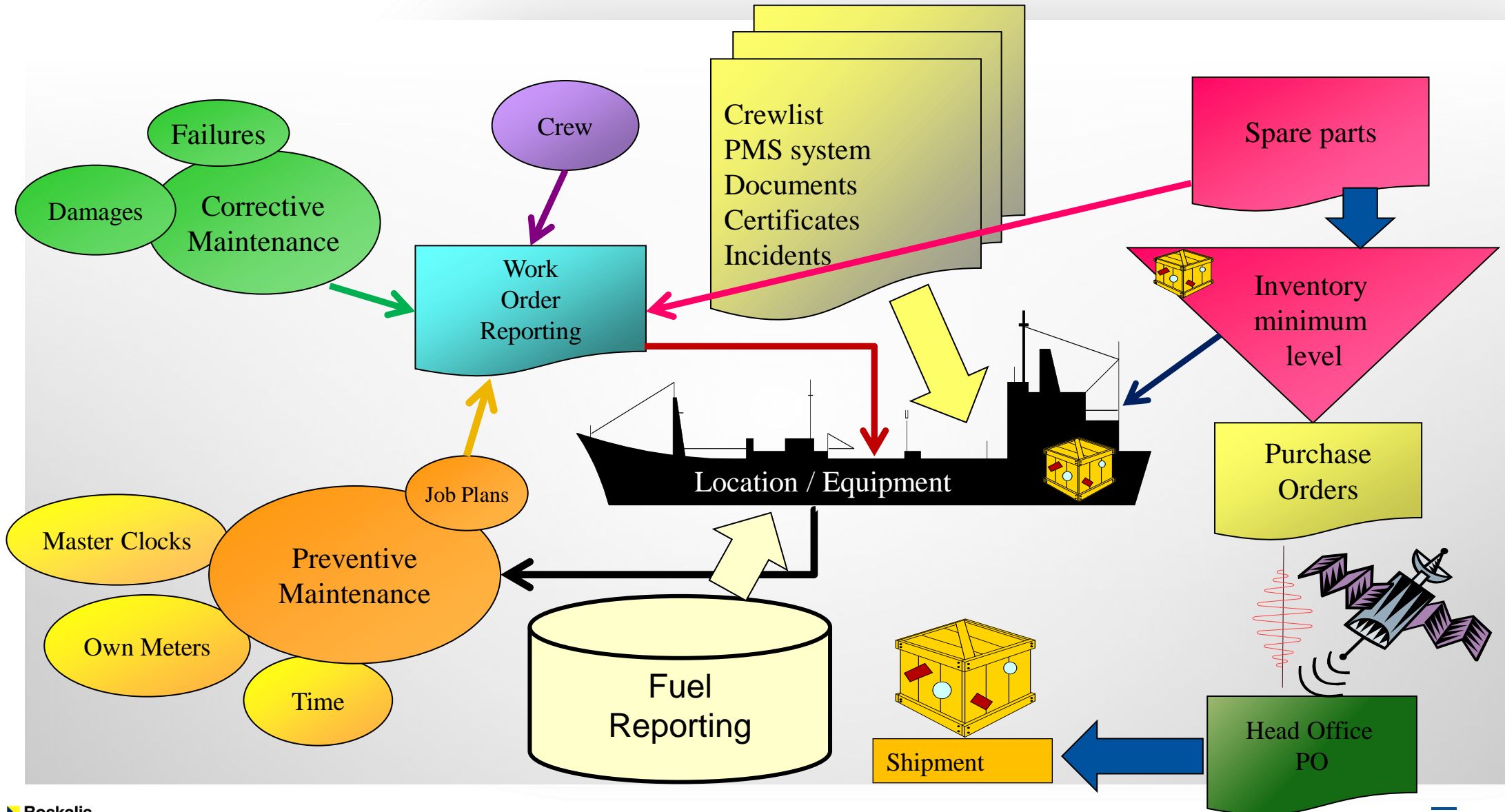
## 2012 – 2014: BACK TO BUSINESS ( MAIN TOPICS )

# MAXIMO 7 MULTI SITE SOLUTION



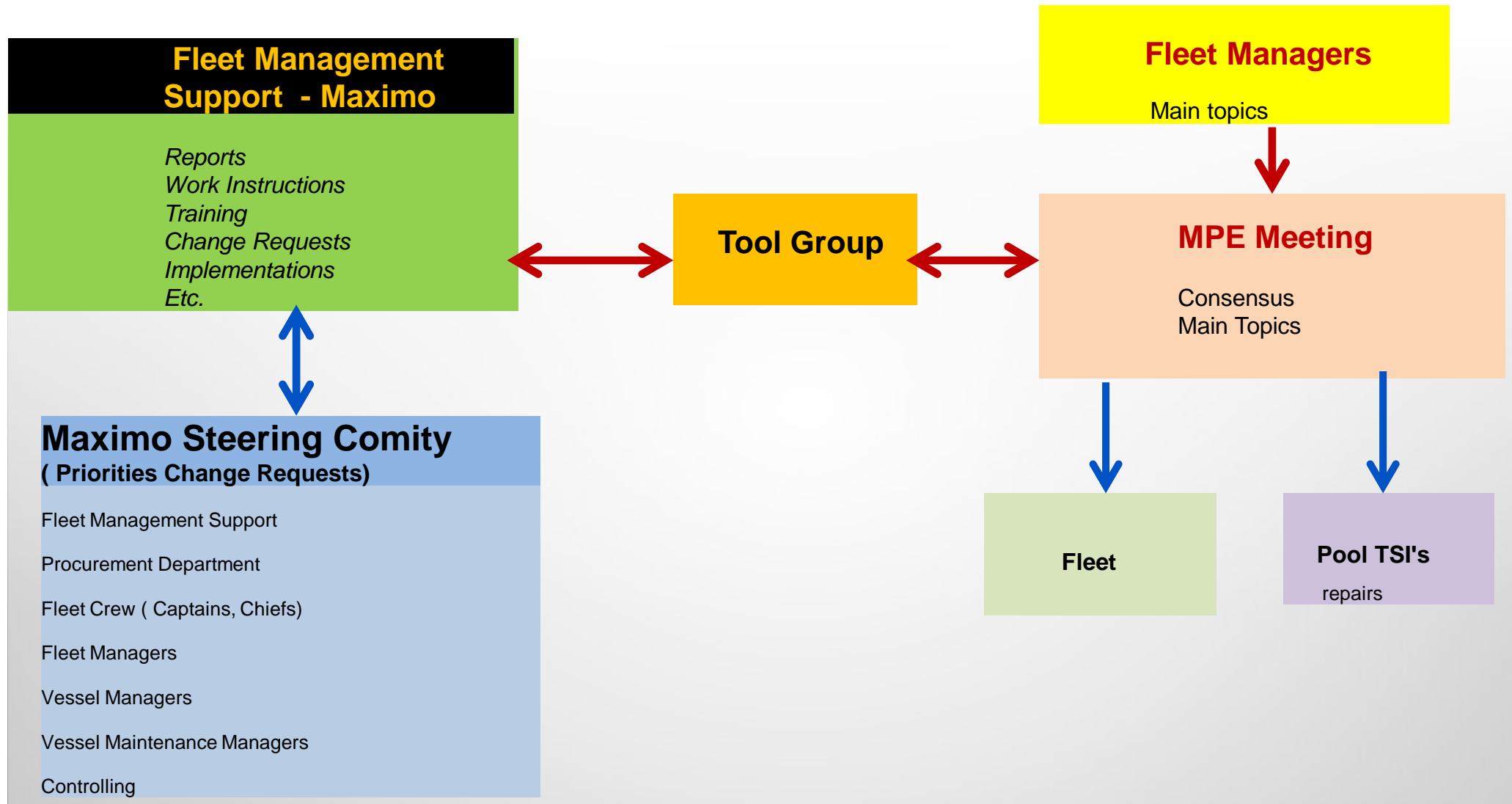
- One set of Master Data “Boskalis wide”.
- Standardization Preventive Maintenance
- Multi Currency (reporting).
- Steerable by authorizations.

# PROCESSES





# RESPONSIBILITIES & COMMUNICATION LINES

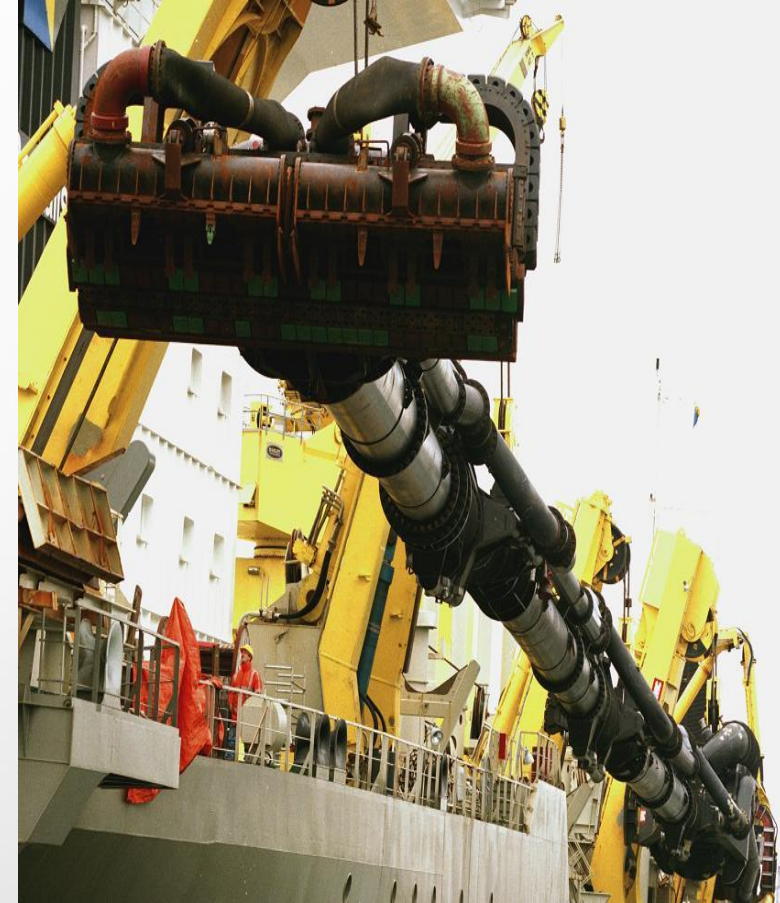


# BACK TO BUSINESS - ESSENCE FLEET MANAGEMENT

**OWNERSHIP MAINTENANCE  
MANAGEMENT SYSTEM BACK TO  
BUSINESS**

**CLEAR RESPONSIBILITIES AND  
COMMUNICATION LINES**

**MAIN TOPICS DETERMINED BY  
FLEET MANAGEMENT**



# ESSENCE FLEET MANAGEMENT

## MAIN TOPICS

1 : SAFETY PERFORMANCE / CULTURE.

2 : EFFICIENCY / TECHNICAL AVAILABILITY.

3 : REPAIR / MAINTENANCE / COSTS.



# SAFETY PERFORMANCE ACCIDENT / INCIDENT REPORTING



[ABOUT NINA](#)

[NINA 1 YEAR](#)

[NINA AT WORK](#)

[TRAINING](#)

[CONTACT](#)



## Safety at Boskalis

Our people are our most valuable assets, making safety a core value. Our goal is: **NO INJURIES NO ACCIDENTS (NINA)**. This is embedded in our company's culture and supported through Values and Rules.

### NINA Safety Program Movie



### Safety Program



### Experiences of NINA at work



# SAFETY PERFORMANCE



## SAFETY STATEMENT

Our people are our most valuable assets, making safety a core value. Our goal is: No Injuries No Accidents. This is embedded in our company's culture and supported through Values and Rules. All employees, including our sub-contractors, are expected to take these values and rules to heart.

### VALUES

- I AM RESPONSIBLE FOR MY OWN SAFETY**
- I APPROACH OTHERS ABOUT WORKING SAFELY**
- I TAKE ACTION IN CASE OF UNSAFE OPERATIONS. IF NECESSARY, I WILL STOP THE WORK**
- I ACCEPT FEEDBACK ABOUT MY SAFETY BEHAVIOUR REGARDLESS OF RANK AND POSITION**
- I REPORT ALL INCIDENTS, INCLUDING NEAR-MISSES, TO INFORM OTHERS AND BUILD ON LESSONS LEARNED**

### RULES

- PREPARE A RISK ASSESSMENT FOR EACH PROJECT, VESSEL OR LOCATION**
- OBTAIN A PERMIT TO WORK FOR DEFINED HIGH-RISK ACTIVITIES**
- MAKE A JOB HAZARD ANALYSIS FOR HAZARDOUS NON-ROUTINE ACTIVITIES**
- BE INFORMED ABOUT RISK & CONTROL MEASURES**
- BE FIT FOR DUTY AND WEAR THE PPE REQUIRED**

# SAFETY PERFORMANCE

## INCIDENT, ACCIDENT & NEAR MISSES

### Corporate System

Near Miss Bulletins: (0) Go To Reports Start Center Profile Sign Out Help IBM.

Find:  Select Action

List Accident Report Root Cause Analysis Log

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Event ID: 1010007 Description: Grenade in Draghead and Hopper Reported By: P.A. ZEVENBER Changed Date: 27/02/2013 14:58:05  
Sirenumber: 6 Event date: 08/02/2013 20:06:26 Report Date: 08/02/2013 20:05:55 Changed By: 150781  
Event type: NEAR MISS Reported E-mail: Attachments  
Event status: NEW Impact rating: 05. Moderate impact Function: CAPTAIN

---

Site and Project

Site: 10120.0003 Captain / Skipper: P.A. ZEVENBER Charter no.: 528-13325 Project location: Rotterdam  
Crestway Chief Engineer: H.T.J. MEUER Project: Maasvlakte 2 Country: The Netherlands  
Site type: Project Manager: Herman Benning  
Flag: Project in joint venture?   
Operational unit plant: Baggermij Boskalis bv Operational Unit Project: Baggermij Boskalis bv

Third Party

Third party involved?   
Object: Bomb  
Owner: Government  
Contact details: -

---

Event

Event: What could have happened? 1 - 2: Loss Grenade in Draghead and Hopper Activity: What were you doing: B1 Hopper dredging on a project Extent: 5. Serious  
Object: What could have been damaged? 1 - 2: Trailing pipe/Draghead Operational unit responsible for event: Baggermij Boskalis bv Likelihood (within Boskalis): 5. Vrij hoog  
Cause: How could it happen? 1 - 2: Unknown Hours after start shift: 3.00 Witness: OED bomb removers  
Where did it happen: On water



**BUREAU**  
**VERITAS**

## Planned Maintenance System Attestation

Issued within the scope of the Bureau Veritas Marine Branch General Conditions.  
Deliver dans le cadre des Conditions Generales de la Branche Maritime du Bureau Veritas

**Manager** : Boskalis Baggermaatschappij B.V.  
**PMS system name** : IBM Maximo  
**Version** : 7.1.1.5

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The undersigned , H.H. Spilker , Marine Manager to the Bureau Veritas at Rotterdam, acting within the scope of the General Conditions of the Bureau Veritas Marine Branch, which regulate the interventions of this society,

Herewith confirms ,

That the Boskalis Baggermaatschappij B.V. Computerized Maintenance System IBM Maximo version 7.1.1.5 has been reviewed satisfactory according the requirements of Bureau Veritas Rules for the Classification of Steel Ships Part A, Chapter 2 Appendix 1 -.§ 2.1.1 and Rule Note NR 496 DTM R01E. The system is considered to be used on board the vessels with Bureau Veritas Class. The ISM certified vessels are subject to 2 ½ yearly check on the system with regard to preventive maintenance and the identification of critical equipment.

This attestation is valid for the mentioned computerized framework. For obtaining the PMS survey system for an individual ship a list of class affecting components and corresponding intervals is to be reviewed and an implementation survey of the Maintenance System is to be carried out in line with Bureau Veritas Rules for the Classification of steel ships Part A Chapter 2 Appendix 1 -.§ 5.

This attestation is valid until cancelled, in writing, by the Society or owners.  
Cancellation can be given by the society with immediate effect if the conditions of the review are no longer adhered to.



# (International Safety Management (ISM) Code),

## Overview Certificates Survey Status

Site: 10072.0003 - Coastway

Certificate Id	Rev.	Description	Issued By	Last Survey Date	Next Survey Date	Start Surv. Range	End Surv. Date	Due Workorder
4152 (0900.011)	0	Disposable Hydrostatic Release Unit HAMMAR H20 (6x)						
	<b>Surveys:</b>	Renewal Hydrostatic Release Unit (50229)		01-04-12	01-04-14	01-01-14	01-04-14	
4153 (0900.019)	0	Disposable Hydrostatic Release Unit HAMMAR H20 No. M056370 (EPIRB)						
	<b>Surveys:</b>	Renewal Hydrostatic Release Unit (50268)			31-03-13	31-12-12	31-03-13	
4154 (0900.021)	0	EC Certificate Conformity Rescue Boat FASSMER No. 00/2/2551	FASSMER & CO					

Rev.	Description	Issued By	Last Survey Date	Next Survey Date	Start Surv. Range	End Surv. Date	Due Workorder
0	Cert. of Inspection Rescue boat Davit SEC-DAVITS No. 00105-B1						
<b>Surveys:</b>	Five-yearly Inspection Rescue boat Davit System (50679)		01-04-12	01-04-17	01-01-17	01-04-17	
	Annual Inspection Lifeboat & Launching Appliance (50759)		31-03-11	<b>20-04-12</b>	<b>21-01-12</b>	<b>20-04-12</b>	<b>30541</b>
<b>Surveys:</b>	Five-yearly Inspection Liferaft Davit System (50692)		01-04-12	01-04-17	01-01-17	01-04-17	
	Annual Inspection Rescue boat & Launching Appliance (50893)			<b>20-04-12</b>	<b>21-01-12</b>	<b>20-04-12</b>	<b>30543</b>
4157 (0900.031)	0	Certificate of (Re-)Inspection Fire Extinguishers					
<b>Surveys:</b>	Annual Inspection Fire Extinguishers (50331)		27-04-12	27-04-13	27-01-13	27-04-13	
4158 (0900.033)	0	Certificate of (Re-)Inspection CO <sup>2</sup> Installation					
<b>Surveys:</b>	Annual Inspection CO <sup>2</sup> Installation (50332)		27-07-11	<b>27-07-12</b>	<b>28-04-12</b>	<b>27-07-12</b>	<b>30716</b>
4159 (0900.037)	0	Certificate of (Re-)Inspection Breathing Apparatus					
<b>Surveys:</b>	Annual Inspection Breathing Apparatus (50334)		27-04-12	27-04-13	27-01-13	27-04-13	
4160 (0900.041)	0	Certificate of (Re-)Inspection Medical Outfit					
<b>Surveys:</b>	Annual Inspection Medical Outfit (50335)		17-05-11	<b>17-05-12</b>	<b>17-02-12</b>	<b>17-05-12</b>	<b>29228</b>



# SAFETY PERFORMANCE

- JOB HAZARDOUS ANALYSES
- QUALITY OF SAFETY DRILLS
- PERMITS TO WORK.

513.C8: Hot works, cutting and grinding								
1. Identify hazards and consequences	2. Implement Standard control & reduction measures		3. Rate Risk with Standard measures (Risk = Likelihood x Impact)					
			Personnel		Equipment		Environment	
L	I	R	I	R	I	R		
Fire and/or explosion	2	4	8	4	8	3	6	
Poisoning gasses/fumes	1	3	3	1	1	1	1	
Lack of visibility	1	3	3	1	1	1	1	
Electrocution	1	3	3	1	1	1	1	
Other hazards	0	0	0	0	0	0	0	
Other hazards	0	0	0	0	0	0	0	
Other hazards	0	0	0	0	0	0	0	



# EFFICIENCY / TECHNICAL AVAILABILITY

- **TECHNICAL DELAY REPORTING**
  - *PER ASSET*
  - *PROJECT*
  - *ROUTE CAUSE*



# EFFICIENCY / TECHNICAL AVAILABILITY

## GENERIC - MAINTENANCE

View Work Details

Asset: 101059 Main Engine, PS

Include Children?

Include Ancestors?

**Refresh**

Work Preventive Maintenance Routes Collections

Work Filter 1 - 10 of 228 Download

Record	Class	Status	Reported Date	Target Start Date	Description	Priority	History	Is Task
<input type="checkbox"/> 1685	WORKORDER	CLOSE	25/03/2010 00:06:27	25/03/2010 00:00:00	ENGR:3000 Run.Hr.Maint. PS W38		<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> 1043	WORKORDER	CLOSE	04/03/2010 15:10:36	03/03/2010 15:25:58	ER submit a separate foundation for WECS cabinet SB M.ENG		<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> 1700	WORKORDER	CLOSE	25/03/2010 00:06:38	25/03/2010 00:00:00	ENGR:6000 Run.Hr.Maint. PS W38		<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> 1708	WORKORDER	CLOSE	25/03/2010 00:06:45	25/03/2010 00:00:00	ENGR:12000 Run.Hr.Maint. (Top) PS W38		<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> 1718	WORKORDER	CLOSE	25/03/2010 00:06:53	25/03/2010 00:00:00	ENGR:18000 Run.Hr.Maint. PS W38		<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> 1214	WORKORDER	CLOSE	17/03/2010 05:39:40		ER: replace waste gate & air filter reducer ME PS		<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> 1290	WORKORDER	CLOSE	21/03/2010 20:50:06		ER: Change charge air cooler A-bank ME PS		<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> 1297	WORKORDER	CLOSE	21/03/2010 21:49:39		ER: Change charge air cooler B-bank ME PS		<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> 1304	WORKORDER	CLOSE	22/03/2010 01:20:26		ER: replace o-rings of cw pipe HT pump ME PS		<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> 1306	WORKORDER	CLOSE	22/03/2010 01:50:40		ER: replace o-rings of cw pipe LT pump ME PS		<input checked="" type="checkbox"/>	<input type="checkbox"/>

**OK**

# Boskalis Westminster Dredging bv

## Purchase Order List

Site: 10074.0003 - Oranje

Open Purchase Orders (Status=PRINT and Receipts complete = N)

PO	Line	Vendor	Item	Item Description	SENT	PRINT	Required Date	Order PPD	Exp. Rec. PPD	Receipt PPD	Exp. Rec. Vessel	Receipt Vessel	Ord. Qty.	Rec. Qty.	Transp date	Transp code
25035	(0)	90	V0003	6.700.498	SI006, Dredgeline,L=1480mm Fedur90	23-04-10	27-05-10	11-11-11	01-06-10	14-09-10	12-07-10	27-07-10	1.00	0.00		H3661
25035	(0)	100	V0003	6.700.500	SI008, Bend appr.46°, R=2000, Fedur90	23-04-10	27-05-10	11-11-11	01-06-10	14-09-10	13-07-10	05-10-11	1.00	0.00	27-09-11	41856
25035	(0)	110	V0003	6.700.502	SI010, Branch Pipe, Fitpipe, Fedur90	23-04-10	27-05-10	11-11-11	01-06-10	23-07-11		27-07-10	1.00	0.00		H3661
25035	(0)	120	V0003	6.700.504	SI012, Branch Pipe, Fedur90	23-04-10	27-05-10	11-11-11	01-06-10	14-09-10	06-09-10	27-07-10	1.00	0.00		H3661
25037	(0)	160	V0003	6.700.530	D011, Dredgeline, Fitpipe, Fedur90	23-04-10	27-05-10	11-11-11	01-06-10	23-07-11		27-07-10	1.00	0.00		H3661
25037	(0)	170	V0003	6.700.532	D017, Dredgeline,L=1150mm Fedur90	23-04-10	27-05-10	11-11-11	01-06-10	14-09-10	18-06-10	27-07-10	1.00	0.00		H3661
25037	(0)	180	V0003	6.700.534	D019, Bend 90° R=1500, Deck Penetration, Fedur90	23-04-10	27-05-10	11-11-11	01-06-10	14-09-10	20-09-10	01-10-10	1.00	0.00	01-10-10	H3692
25037	(0)	190	V0003	6.700.536	D021, Dredgeline,L=1000mm Fedur90	23-04-10	27-05-10	11-11-11	01-06-10	14-09-10	30-06-10	27-07-10	1.00	0.00		H3661
25101	(0)	10	V0003	6.108.803	Radio Active Density Transmitter With Fedur Liner,	02-06-10	08-06-10		15-06-10	14-09-10	13-07-10		2.00	0.00		
25156	(0)	10	V0003	6.999.999	For Purchase Orders from Baan with unknown item	12-07-10	24-08-10		02-09-10	01-10-10			1.00	0.00		
25156	(0)	20	V0003	0.950.700	General return for repair	12-07-10	24-08-10		02-09-10	24-09-10			-1.00	0.00		
25229	(0)	10	V0003	6.400.640	Impeller, 4 Bids, Hard, ø2220/2220, CCW, P634043,	11-09-10	30-09-10				26-10-10		2.00	0.00	26-10-10	H3702

# EFFICIENCY / SPARE PARTS DATA

Item Master Bulletins: (0) Go To Reports Start Center Profile Sign Out Help IBM


BOKALOGUS Find: Select Action

List Item Storerooms Vendors Specifications

Item 6.000.336 Adhesive, nutlock 243 50ml ATTACHMENTS Click to see image in its actual size

http://portal.boskalis.net/team/T000480/Document%20Library/ATTACHMENTS/general/MSDS6.000.336.pdf

1 / 6 120%



**Safety Data Sheet according to (EC) No 1907/2006 - ISO 11014-1**

Page 1 of 6

Loctite 243 (Old) sds no.: 153494 V003.0  
Revision: 17.05.2010  
printing date: 24.08.2010


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**1. Identification of the substance/preparation and of the company/undertaking**

**Trade name:**  
Loctite 243 (Old)

**Intended use:**  
Adhesive

**Company name:**  
Henkel Limited  
2 Bishop Square Business Park  
AT.109FY Herfordshire Hatfield



Download ?

Rotating

New Row

# REPAIR / MAINTENANCE / COSTS

## STANDARDIZATION – BENCHMARK

### *ESMERALDA*



- 0000:Oranje
  - + 1000:Health, Safety and Environment (HSE)
  - + 2000:Casco and Superstructure
  - + 3000:Production Support Systems
  - + 4000:Technical Support Systems
  - + 5000:Propulsion and Rudder
  - + 6000:Electrical, Navigation and Communication Equipment
  - 7000:ISM, Routine and Adjustment Jobs
  - YARD:Yard Top Equipment

# REPAIR / MAINTENANCE / COSTS EQUIPMENT HIERARCHY

## **5200 Propulsion and Rudder SB**

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### 5210.000 Propeller SB (139959)

5210.010 Hub Propeller SB (139960)

5210.020 Blades Propeller SB (139961)

### 5220.000 CPP Installation SB (139962)

5220.100 CPP Hydraulic Pumps, SB (139963)

5220.101 Pump 1, CPP Installation SB (139964)

4400.201 Coupling, Pump 1, CPP Installation SB (139966)

6115.000 E - Motor, Pump 1, CPP Installation SB (139968)

5220.101 Pump 2, CPP Installation SB (139965)

4400.201 Coupling, Pump 2, CPP Installation SB (139967)

6115.000 E - Motor, Pump 2, CPP Installation SB (139969)

5220.700 Filters CPP Installation SB (139970)

4400.701 Filter, CPP Installation PS (139971)

5220.800 Pipes, Valves & Appendages CPP Installation SB (139972)

4400.810 Pipes CPP Installation SB (139973)

4400.820 Valves CPP Installation SB (139974)

4400.830 Fittings and Appendages CPP Installation SB (139975)

### 5230.000 Propeller Shaft, SB (139976)

5230.010 Seal, Inner, Propeller Shaft SB (139977)

5230.020 Seal, Outer, Propeller Shaft SB (139978)

### 5240.000 Rudder, SB (139979)

### 5250.000 Rudder Stock, SB (139980)

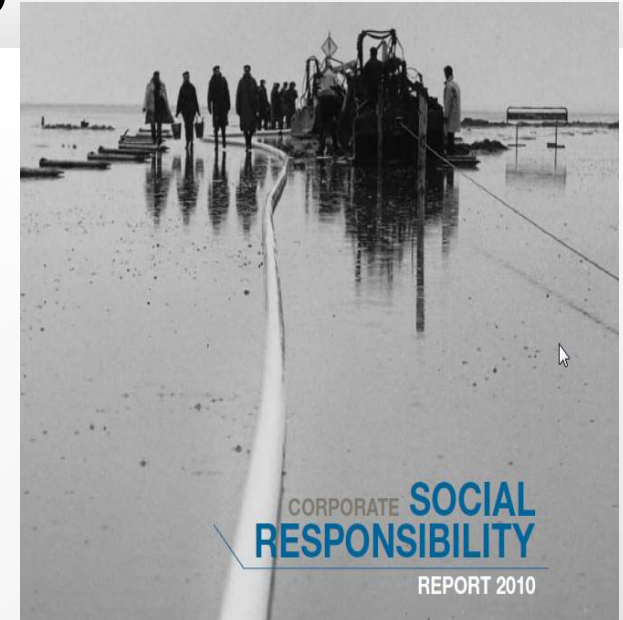
# REPAIR / MAINTENANCE / COSTS

CONSUMPTION OF FUEL, LUBRICANTS,  
GREASE & OIL (FLGO).

Charging to the Project ( JV )

CSR

CO2 Emission reporting



CORPORATE SOCIAL  
RESPONSIBILITY  
REPORT 2010

FLGO Reporting

Find: [ ] Select Action [ ]

FLGO Reporting

FLGO Report: 28335    FGLO Report Week 45 Fremantle 2010    Measure Date: 13/11/2010 23:59:59    Site: 12033.0003

Location: 7000    ISM, Routine and Adjustment Jobs    GL Account: VF~CH-12033-0-03610070-460    Reported By: G.H. HEDEKAMP

Equipment: FLGO    Equipment for Fuel, Lubricant, Grease and Othi    Asset: 126779    Reported Date: 14/11/2010 06:00:07

FLGO	Description	Storeroom	Bin	Current Balance	Transaction Type	Unit of Measure	Total Usage	Qty Used Others	Qty own consumption	Qty Measured	Measure Date
6.210.927	HFO 380 cSt,	MAIN	MAXIMO7	340.00	ISSUE	M3	5.00	0.00	5.00	335.00	13/11/2010 23:59:59
6.225.947	Mobil Rarus 827,	MAIN	MAXIMO7	70.00	ISSUE	L	1.00	0.00	1.00	69.00	13/11/2010 23:59:59
6.210.924	Fuel MGO,	MAIN	MAXIMO7	70.00	ISSUE	M3	30.00	0.00	30.00	40.00	13/11/2010 23:59:59
6.225.947	Mobil Rarus 827,	MAIN	MAXIMO7	69.00	RETURN	L	1.00	0.00	1.00	70.00	13/11/2010 23:59:59

Select FLGO



# Boskalis Westminster Dredging bv

## FLGO CSR Consumption Report

Site : 12122.0003 - Orion

Period from : 01-03-2013 00:00:00

To : 01-04-2013 23:59:59.999

Remark :

Item	Description	Unit	Current Balance	Qty Received	Used Vessel	Used Other	Stock Adjustm.	Used on WO's	Qty End Period
6.195.219	Mobilarma 798	L	79.0	0.0	0.0	0.0	0.0	0.0	79.0
6.210.923	Potable/Drinkable Water	M3	17.0	0.0	41.0	0.0	37.0	0.0	13.0
<b>Used Vessel:</b>	Entered by	Wo Num			Quantity				
02-03-2013 23:59:59.627	105670	32042			12.0				
09-03-2013 23:59:59.860	105670	32101			11.0				
16-03-2013 23:59:59.620	105670	32156			6.0				
30-03-2013 23:29:29.023	101720	32399			12.0				
<b>Adjustments:</b>	Entered by	Transaction					Quantity		
01-03-2013 11:30:45.517	105670	CURBALADJ					15.0		
01-03-2013 13:25:51.253	105670	CURBALADJ					2.0		
13-03-2013 11:10:52.277	105670	CURBALADJ					10.0		
13-03-2013 22:10:28.700	105670	CURBALADJ					2.0		
23-03-2013 20:23:21.077	101720	CURBALADJ					-16.0		
23-03-2013 20:24:08.483	101720	CURBALADJ					24.0		

# KPI'S & STATUS REPORTS

Main Topics  
Fleet Management



# WEEKLY STATUS REPORT VESSELS

- *RUNNING HOURS*
- *TECHNICAL DELAY REPORTING*
- *WO'S CREATED*
- *PM STATUS*
- *CERTIFICATES ( DUE & OVERDUE )*
- *INCIDENTS /ACCIDENT / DAMAGES*
- *FLGO USE*
- *INVENTORY USE*
- *PO'S*
- *CREW CHANGES*

# NEXT STEPS

- UPGRADE 7.5
- HSE MODULE ?
- STORAGE AREAS
- EQUIPMENT MANAGEMENT SYSTEM
- SUBSEA / SURVEY
- DOCKWISE VESSELS?



# THANKS FOR YOUR ATTENTION / Q&A

