

# ***PrimeShip-INVENTORY***

**A software for development of Inventory of Hazardous Materials**

**17 November 2010**

**NIPPON KAIJI KYOKAI**

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- 1. Introduction of ClassNK**
- 2. Outline of Ship Recycling Convention**
- 3. What is IHM?**
- 4. Japan's action for implementation of the Convention with ClassNK**
- 5. What is PrimeShip-INVENTORY?**



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# ***Introduction of ClassNK***

## ***A World Classification Society***

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# Introduction of ClassNK

## A World Classification Society

- ◆ **Formal Name**      **NIPPON KAIJI KYOKAI**
- ◆ **Brand Name**      **ClassNK**
  
- ◆ **Status**      **Non-profit Organization**
- ◆ **History**      **Founded in 1899**
- ◆ **IACS**      **Founding Member**
  
- ◆ **Authorizations from Governments**
  - **Survey for ICLL, SOLAS, MARPOL & TM69:**  
101 Administrations
  - **Audit for ISM:**  
63 Administrations
  - **Audit for ISPS:**  
49 Administrations

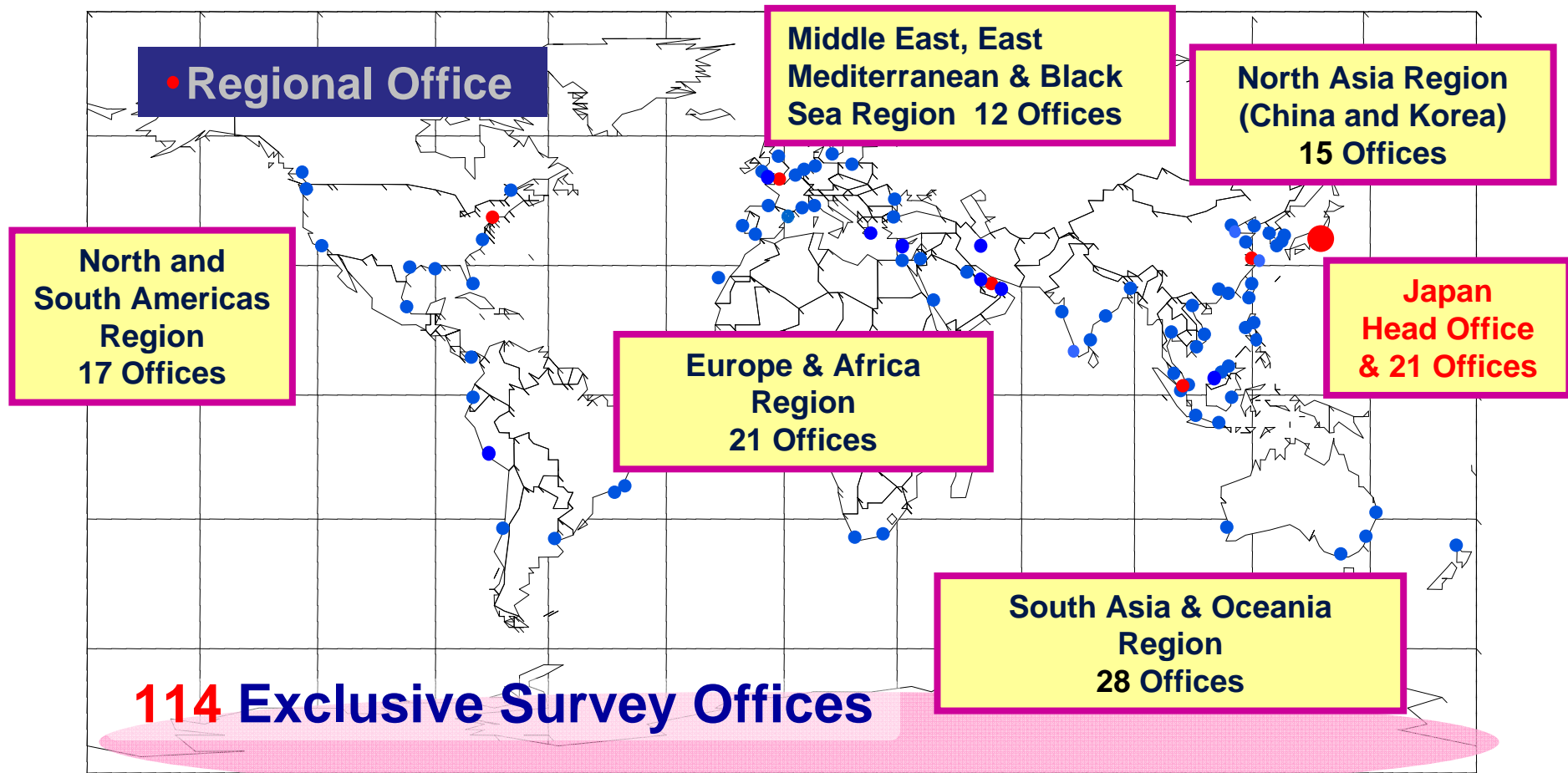


As of the end of Apr. 2010

# Introduction of ClassNK A World Classification Society

## ClassNK's Service Network

As of 1 October 2010



*“Our high quality survey services span the globe”*

## Introduction of ClassNK A World Classification Society

### ClassNK's Share of New-building in 2009

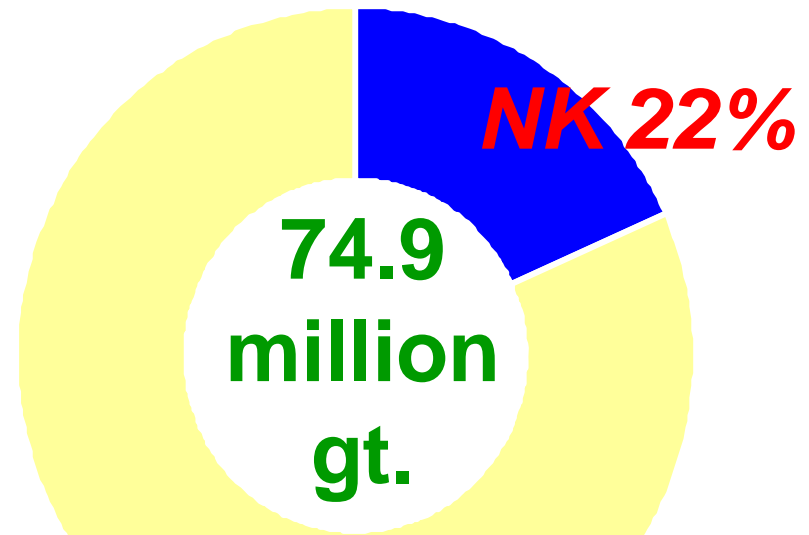
#### No. of Ships

- ClassNK 453 vessels



#### Gross Tonnage

- ClassNK 16.7 mil. GT



*Abt 20% of the world's tonnage classed with ClassNK (7000+ ships), making us the No. 1 class society in the world.*



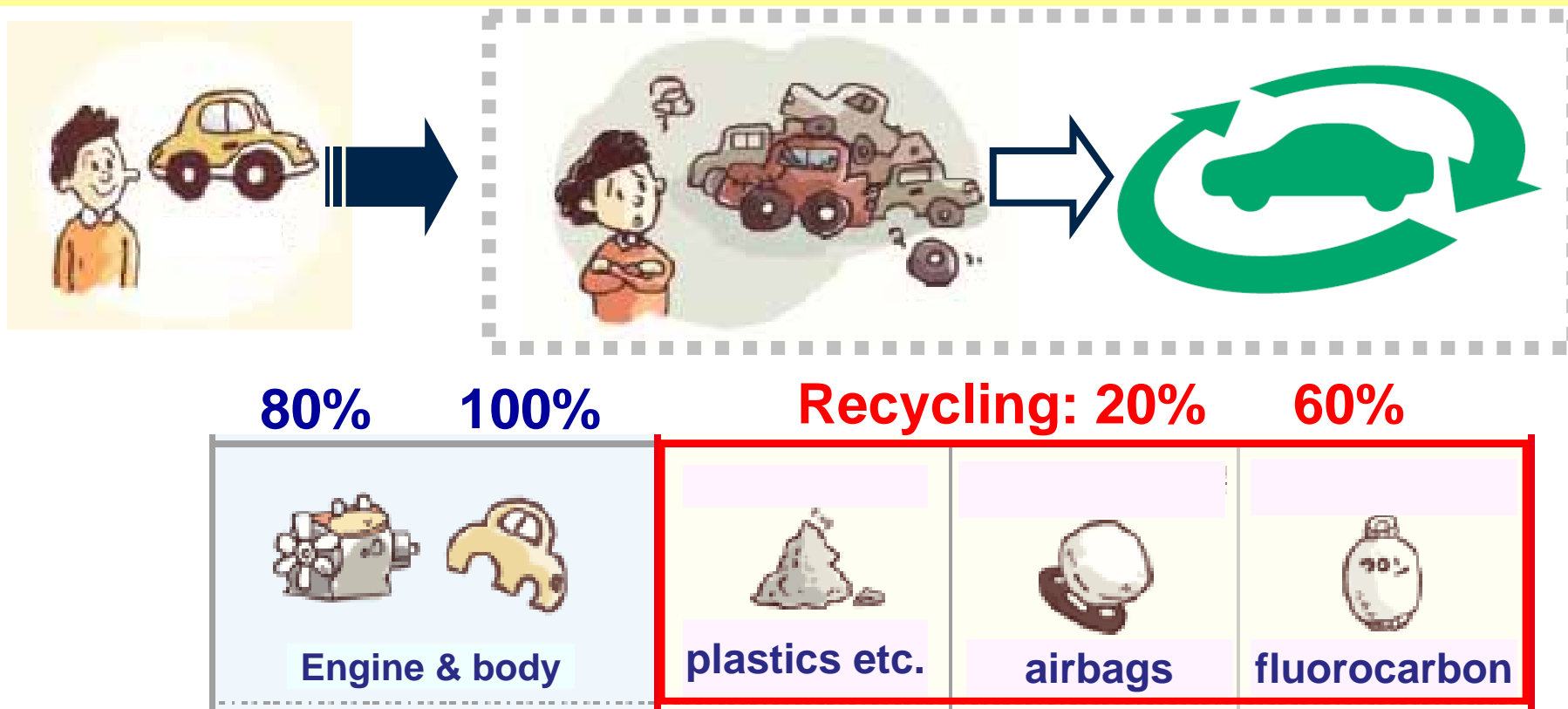
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# ***Outline of Ship Recycling Convention***

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# Outline of Ship Recycling Convention

***As an Example of Recycling Matters...  
What is the issue of Car Recycling ?***



***To produce resource more from cars than wastes.***

## Outline of Ship Recycling Convention

***What is the issue of Ship Recycling Matter ?***



Recycling  
**90-95%**



**Already Good  
Resource**

**Not much waste**

***Totally different from other Recycling Issues.***

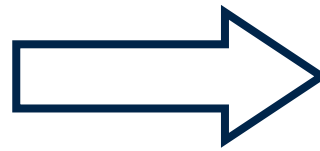
# Outline of Ship Recycling Convention

***What is the aim of Ship Recycling Matters?***

***But... Ships are too **Big** to be dismantled.***



**So, if no plan**



**Planned**



***To establish good manners to dismantle ships.***

## **The Convention proposes 3 Items as;**

- **Sufficient Technology**
  - > Environmental Friendly Technology to Ship Recycling Facility
- **Sufficient Information**
  - > Development and Maintenance of IHM
- **Sufficient Preparation**
  - > Producing of Ship Recycling Plan

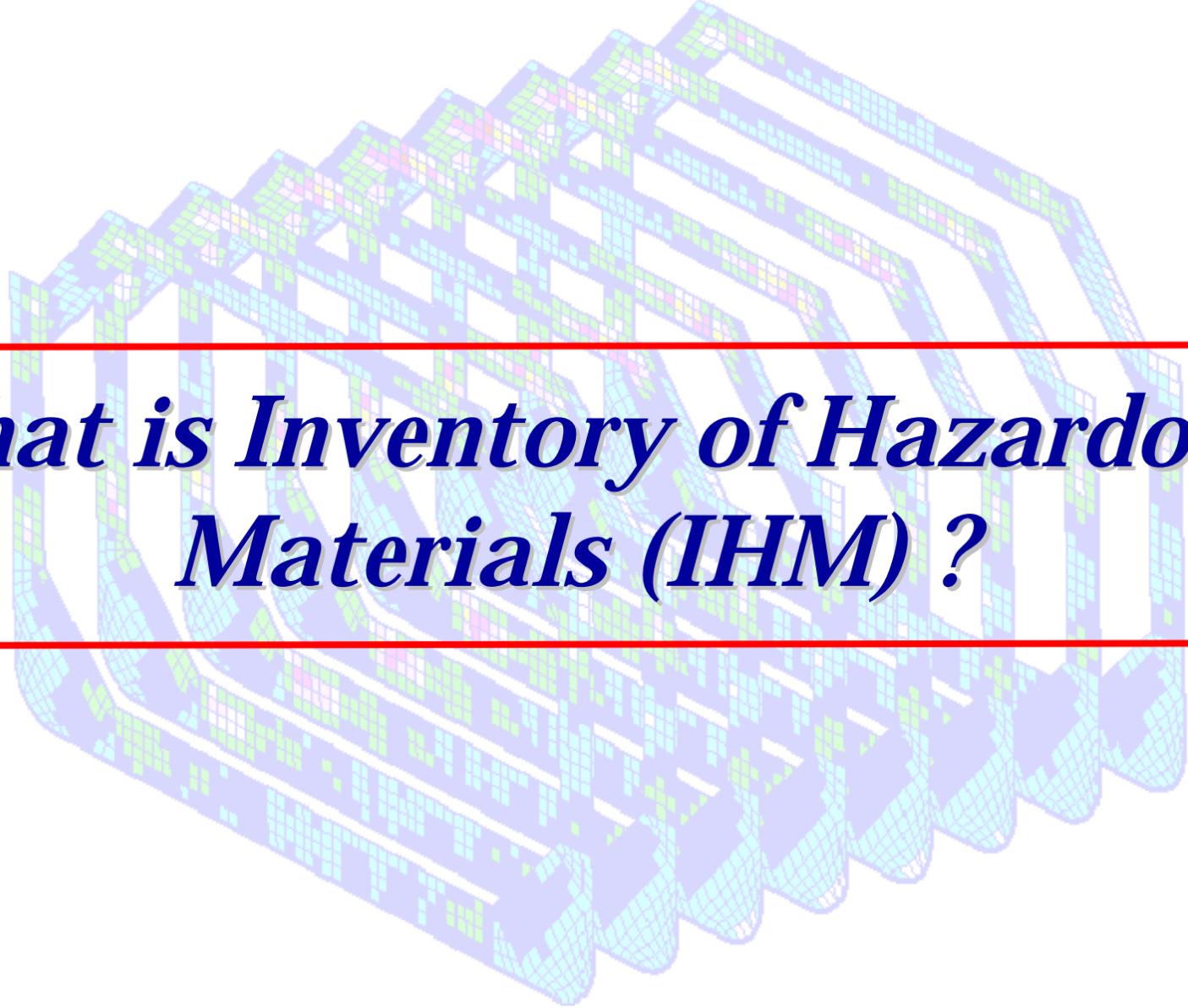
**for establishing Environmentally Sound Ship Recycling.**

# Outline of Ship Recycling Convention



## Ship Recycling Convention\* was adopted on 15 May 2009

\* Hong Kong International Convention for the Safe and Environmentally Sound Recycling of Ships, 2009



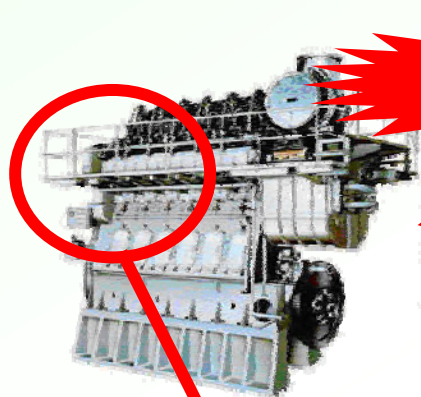
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***What is Inventory of Hazardous Materials (IHM) ?***

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## Role of IHM in the Convention

- IHM indicates Quantity & Location of actual Hazardous Materials on board the ship, Wastes, and Stores



*Location*



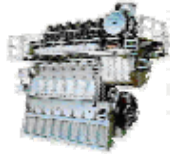

*Quantity*

**IHM**

Table B Materials Listed in Appendix 2 of the	Mercury and Mercury Compounds	1,000 mg/kg	Yes	10	g
	Polybrominated Biphenyl (PBBs)	1,000 mg/kg	No		

# Scope of the IHM

- The Inventory consists of 3 parts:

	Contents	Developed at
<b>Part 1</b>	Ship structure and equipments 	<b>Delivery of the ship</b> (to be maintained during her operation)
<b>Part 2</b>	Operationally generated wastes	<b>Just before the Recycling</b>
<b>Part 3</b>	Stores 	<b>Just before the Recycling</b>

# Materials to be listed in the IHM

■ Following materials are to be listed in the IHM

<b>Table A</b>	<b>Prohibited/Limited Materials (4)</b> Asbestos, PCBs, Ozone-depleting substances (e.g. Halon), Organotin compounds (e.g. TBT)	<b>Part 1</b>
<b>Table B</b>	<b>Harmful Materials (9)</b> Cadmium (compounds), Hexavalent Chromium (compounds), Lead (compounds), Mercury (compounds), PBBs, PBDEs, Polychlorinated naphthalenes (more than 3 chlorine atoms), Radioactive Substances, Certain Shortchain Chlorinated Paraffins (Alkanes, C10-C13 chloro)	<b>Part 1</b>
<b>Table C</b>	<b>Potentially Hazardous Items</b> Kerosene, Light oil, Lubricant, Antifreeze, Battery electrolyte, Paint, Acetylene, <b>etc.</b>	<b>Parts 2 &amp; 3</b>
<b>Table D</b>	<b>Regular consumable goods potentially containing Hazardous Materials</b> Computers, refrigerators, printers, scanners, television sets, radio sets, video cameras, video recorders, telephones, consumer batteries, <b>etc.</b>	<b>Part 3</b>

# Example of IHM

## (Standard Format of the Guideline for the Convention)

### Part 1

#### Part I HAZARDOUS MATERIALS CONTAINED IN THE SHIP'S STRUCTURE AND EQUIPMENT

##### I-1 Paints and coating systems containing materials listed in Table A and Table B of appendix 1 of the guidelines

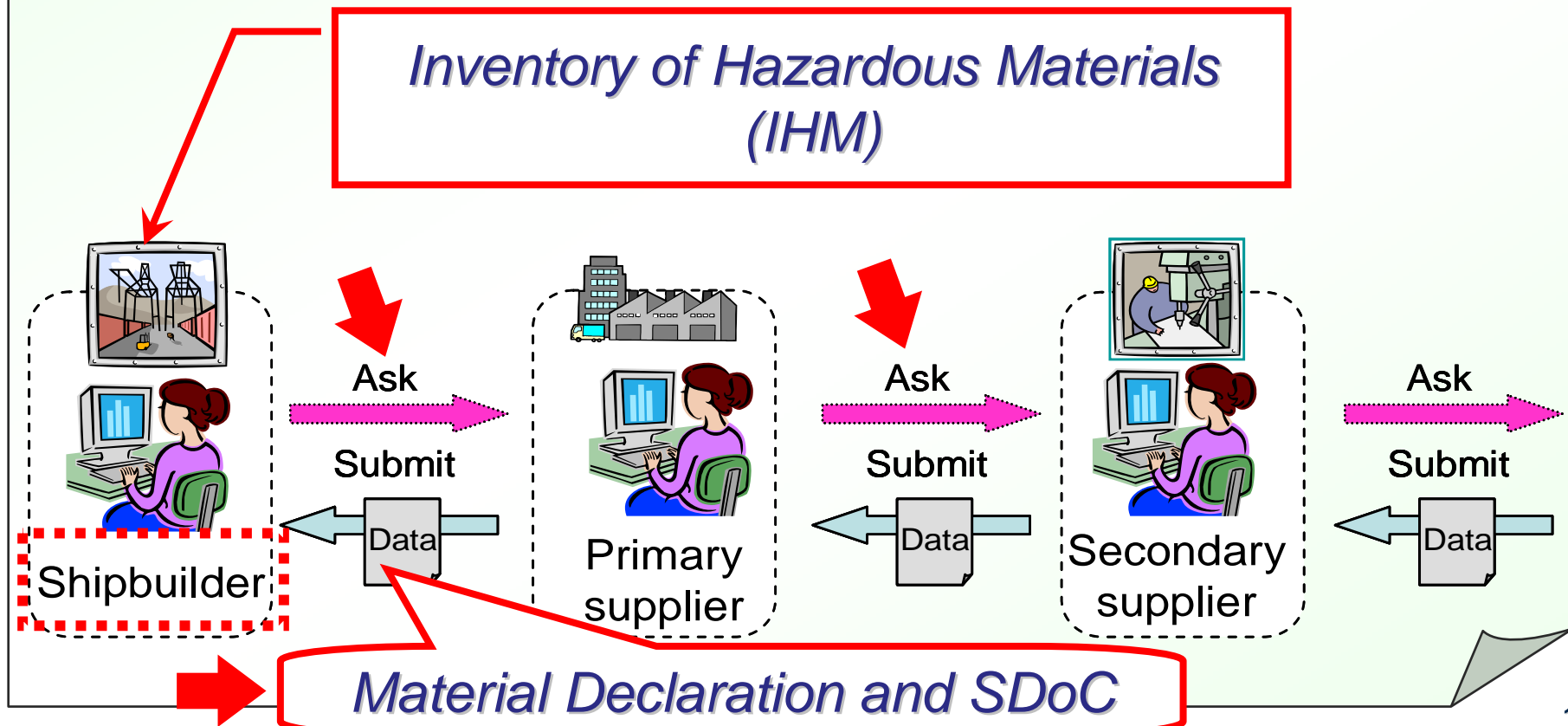
No.	Application of paint	Name of paint	Location	Materials (classification in appendix 1)	Approx. quantity	Remarks
1	Anti-drumming compound	Primer, xx Co., xx primer #300	Hull part	Lead	35.00 kg	
2	Anti-fouling	xx Co., xx coat #100	Underwater parts	TBT	120.00 kg	

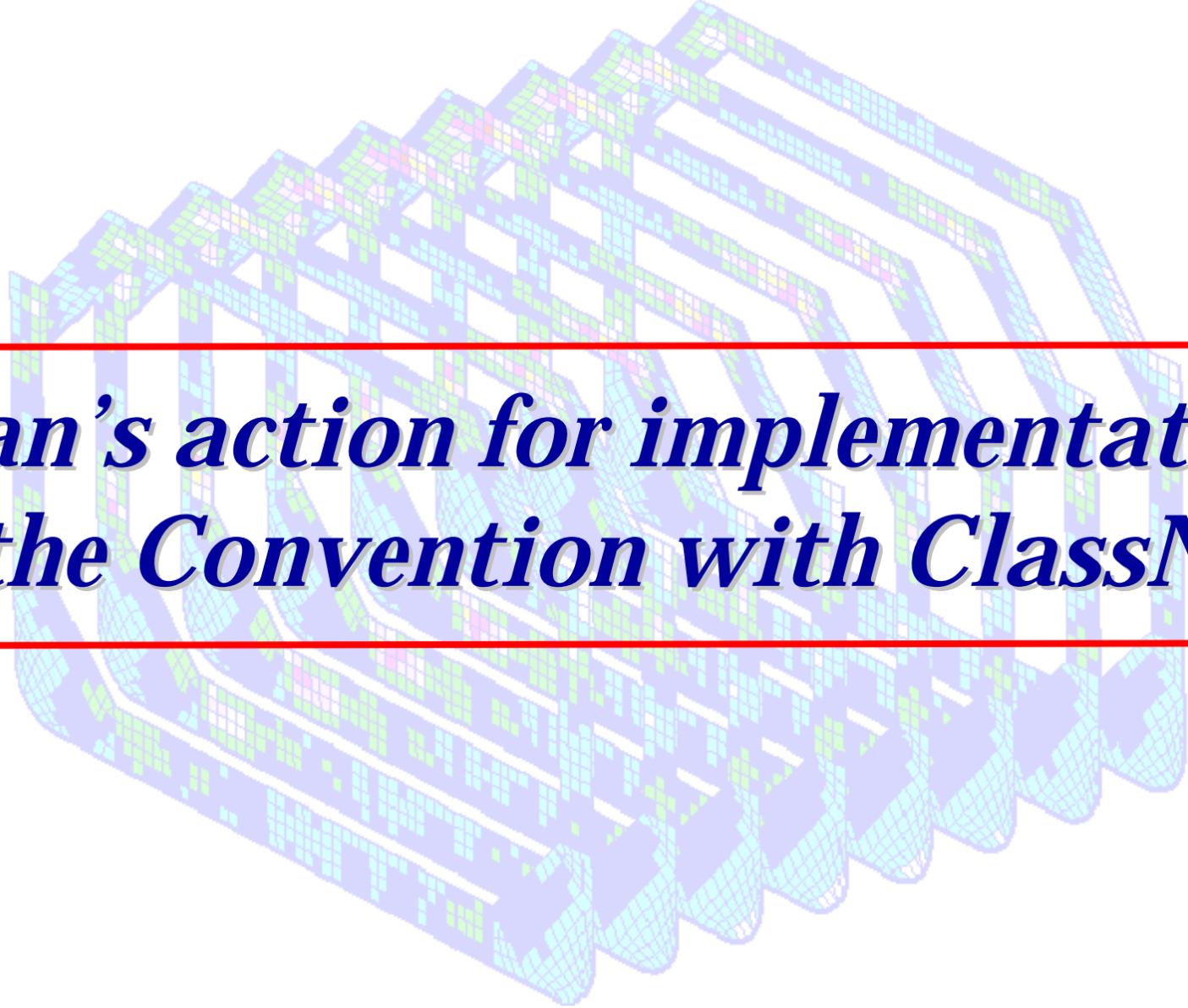
##### I-2 Equipment and machinery containing materials listed in Table A and Table B of appendix 1 of the guidelines

No.	Name of equipment and machinery	Location	Materials (classification in appendix 1)	Parts where used	Approx. quantity	Remarks
1	Switch board	Engine control room	Cadmium	Housing coating	0.02 kg	
			Mercury	Heat gauge	<0.01 kg	less than 0.01kg
2	Diesel engine, xx Co., xx #150	Engine room	Cadmium	Bearing	0.02 kg	
3	Diesel engine, xx Co., xx #200	Engine room	Cadmium	Bearing	0.01 kg	Revised by XXX on Oct. XX, 2008
4	Diesel generator (x 3)	Engine room	Lead	Ingredient of copper compounds	0.01 kg	

# How to develop IHM for New Ship

- Shipbuilder is requested to develop the IHM-Part 1\* for New Ships at the time of delivery.



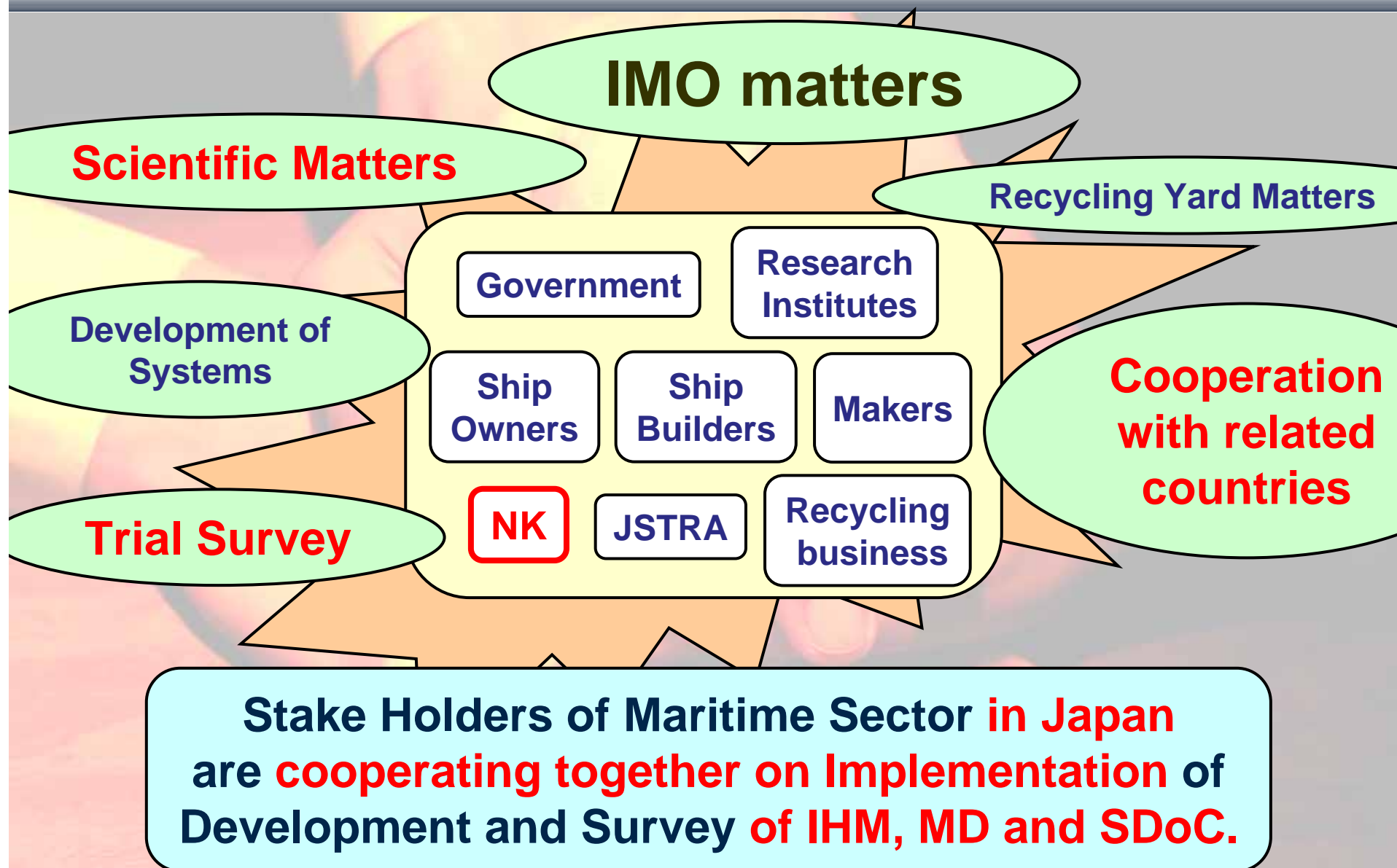


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***Japan's action for implementation  
of the Convention with ClassNK***

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# Cooperation in Japan



**ClassNK** is

cooperating with all the concerned parties (ship owners, shipbuilders, etc.) for necessary preparation to **ensure smooth implementation** of the Convention.

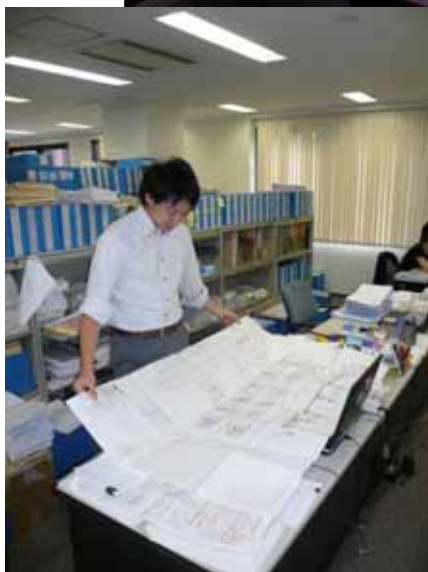
## **Activities in Japan for Ship Recycling (from 2008 to 2010)**

- ✓ Trial of IHM for Existing Ships (approx. 40 Ships)
- ✓ Trial of IHM for Newly Built Ships (approx. 20 Ships)
- ✓ Trial of Ship Recycling – Muroran Project
- ✓ Making a software for Development of IHM;

***ClassNK's PrimeShip-INVENTORY***

**NK**

A group of people are in a meeting room. A man in a suit is standing and presenting to a group of people seated around a large conference table. A screen displays a presentation slide. The room has large windows with blinds and a clock on the wall.

[illegible]

# Concept of PrimeShip-INVENTORY

**ClassNK decided to develop** a software;  
**PrimeShip-INVENTORY,**  
for the **smooth** development IHM, MD and SDoC  
for Newly-Built Ships.



**PrimeShip-INVENTORY**



**PrimeShip-INVENTORY is FREE OF CHARGE**

# Merits of PrimeShip-INVENTORY

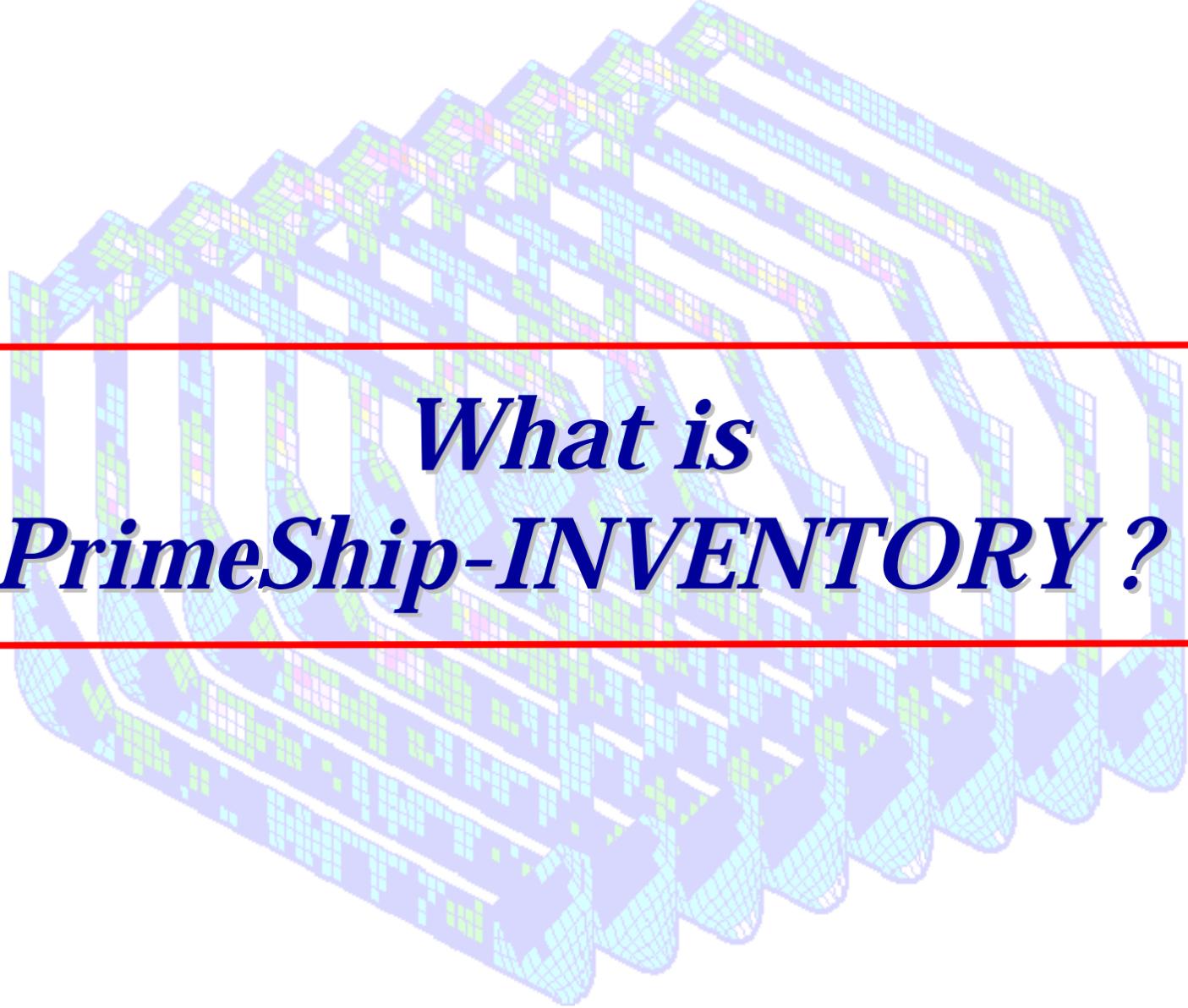
## **NO NEED**

- ✓ to record MD & SDoC one by one
- ✓ to screen MD containing Hazardous Materials
- ✓ to calculate the mass of Hazardous Materials at each location
- ✓ to prepare IHM by hand
- ✓ to submit and keep MD/SDoC in paper format



*No more paper works*

**Greatly reduces the Industry's work for developing IHM of new building ships**



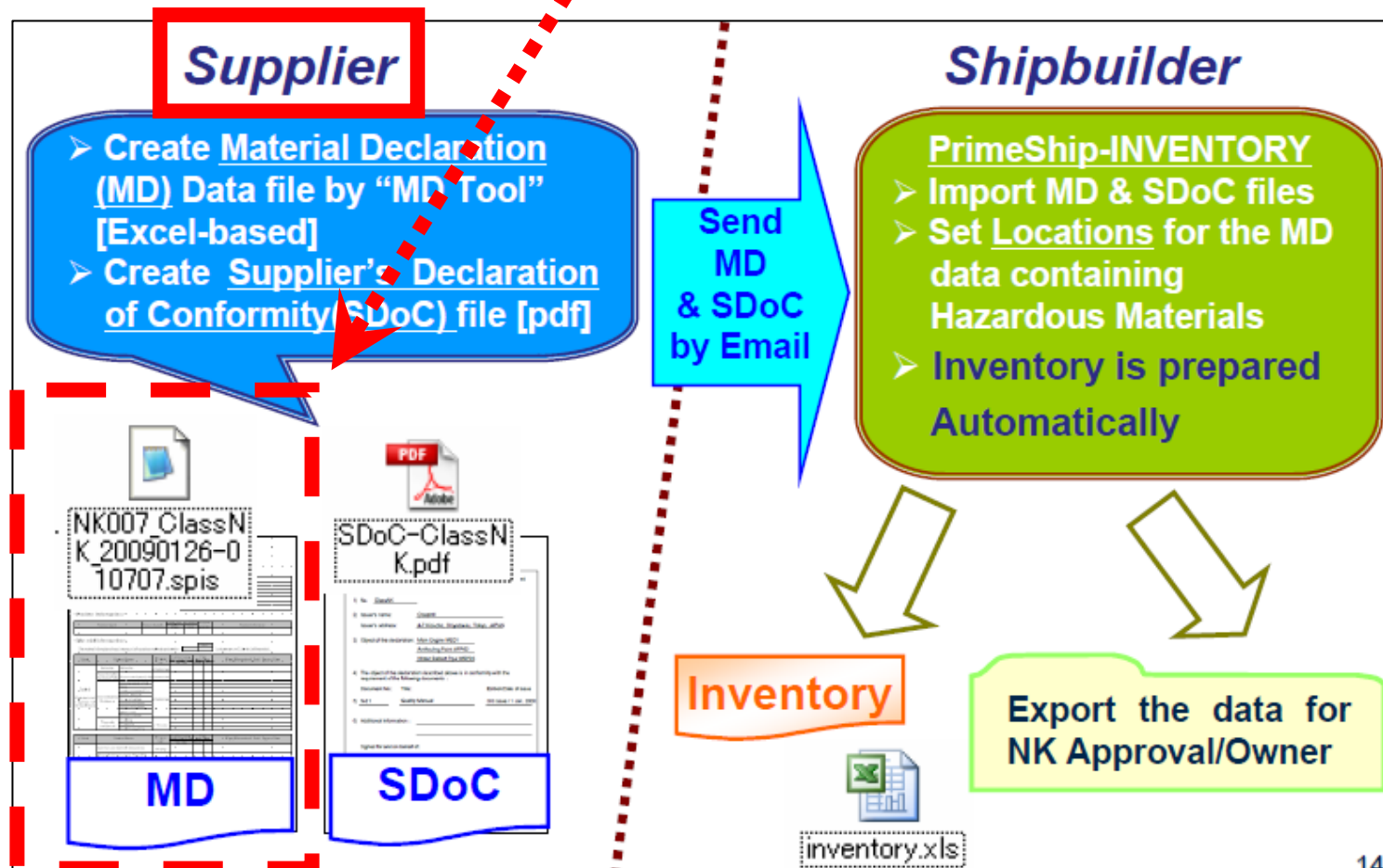
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***What is  
PrimeShip-INVENTORY ?***

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# MD Tool



14

Microsoft Excel - Aux\_Boiler.xls

ファイル(F) 編集(E) 表示(V) 挿入(I) 書式(O) ツール(T) データ(D) ウィンドウ(W) ヘルプ(H) Adobe PDF(B)

Arial Narrow 14 B I U

REQ\_MD\_ID MD\_NKTEC\_AUXBLR\_AB0001\_20100105

### Material Declaration

**<Date of declaration>**  
Date: 2010.01.05

**<MD ID number>**  
MD ID no.: MD\_NKTEC\_AUXBLR\_AB0001\_20100105

**<Other information>**  
Remark 1:   
Remark 2:   
Remark 3:

**Validation Required**  
Alphanumeric 40bytes

**<Supplier (respondent) information>**

Company name	NKTEC
Division name	Quality Assurance Dept.
Address	4-7 Kioi-cho, Chiyoda-ku, Tokyo, JAPAN
Contact person	Kajji, Jiro
Telephone number	+81-9999999999
Fax number	+81-9999999999
E-mail address	md@classnk.co.jp
SDoC ID no.	SD_NKTEC_20100102

**<Product information>**

Product name	Product number	Delivered unit		Product information
		Amount	Unit	
VERTICAL OIL-FIRED BOILER	AB0001	1	piece	

**<Materials information>**  
This materials information shows the amount of hazardous materials contained in 1 piece unit: piece, kg, mg, ml, m3 of the product.

Table	Material name	Threshold level	Present above threshold level		If yes, material mass		If yes, information on where it is used
			Yes / No	Mass	Unit(g)		
	Asbestos	no threshold level	No				
	Polychlorinated biphenyls (PCBs)	no threshold level	No				
	Chlorofluorocarbons (CFCs)		No				
	Hydrocarbons		No				
	Other fully halogenated CFCs		No				
	Ozone depleting substances		No				
	1,1,1-Trichloroethane (halo)	no threshold level	No				

**MD Tool can unify the Form of MD**

Output Data

Shipbuilder

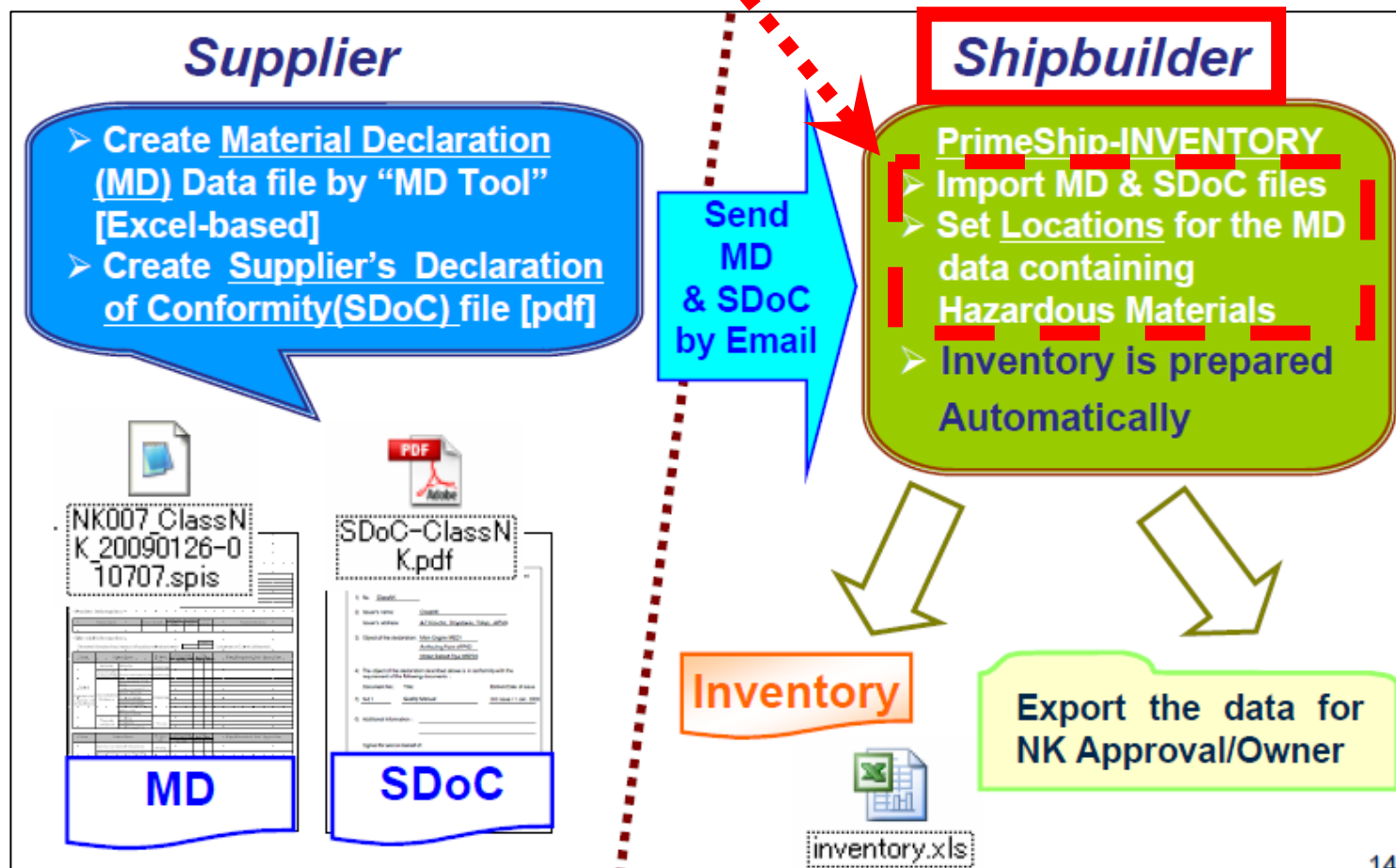
MD Data file



#MD\_NKTEC  
AUXBLR\_AB0  
001\_20100105\_  
220512.spis

Supplier

# Import MD



14

# MD Import

**MD Detail page**

MD ID no. MD\_NKTEC\_AUXBLR\_AB0001\_201001 Imported file name MD\_NKTEC\_AUXBLR\_AB0001\_201 Date of 2010/01/05

Other information Respondent Information

Remark1  
Remark2  
Remark3

Ship No. NK002

**VERTICAL OIL-FIRED BOILER**

Product

Ship No.	Product name	Product number	Contain HM (overall)	Inventory category	Sup. No.	Supplier name	Amount of Delivery
NK002	VERTICAL OIL-...	AB0001	Yes			NKTEC	1

**(4) MD Data is imported**

Table	Material group	Threshold level	Contain	Contained	Additional information
B	Cadmium and ca...	100 mg/kg	Yes	0.53	Magnetic switch(junction)
B	Hexavalent chro...	1000 mg/kg	No		
B	Lead and lead co...	1000 mg/kg	Yes	703.016	Disk Holder and spring case for safety valves(2sets),JTD920A, Delayrealy(s
B	Mercury and mer...	1000 mg/kg	No		
B	Polybrominated b...	1000 mg/kg	No		
B	Polybrominated d...	1000 mg/kg	No		
B	Polychlorinated n...	no threshold level	No		
B	Radioactive subs...	no threshold level	No		
B	Certain shortchai...	1%	No		

**If the product contains Hazardous Material, Location is to be set.**

Apply Back

Copyright (C) 2009 ClassNK PrimeShip-INVENTORY

# Set Location

**Product Detail page**

Ship No. NK002

**Product name** VERTICAL OIL-FIRED BOILER

Product number AB0001

Inventory category 1.2 Equipment and machinery

Coating type

Product

Supplier name NKTEC

Amount of 1

Unit of Delivery piece

Contain HM Yes

Tally by Tally by item

Code No.

Date of update

Unit for survey piece

Remark Input

**Location** Material Information

Add

Delete

Ship No.	Primary Classification	Secondary Classification	Name1	Name2	Amount
NK002	Machinery Part	Engine Room	3rd Deck	Port	1

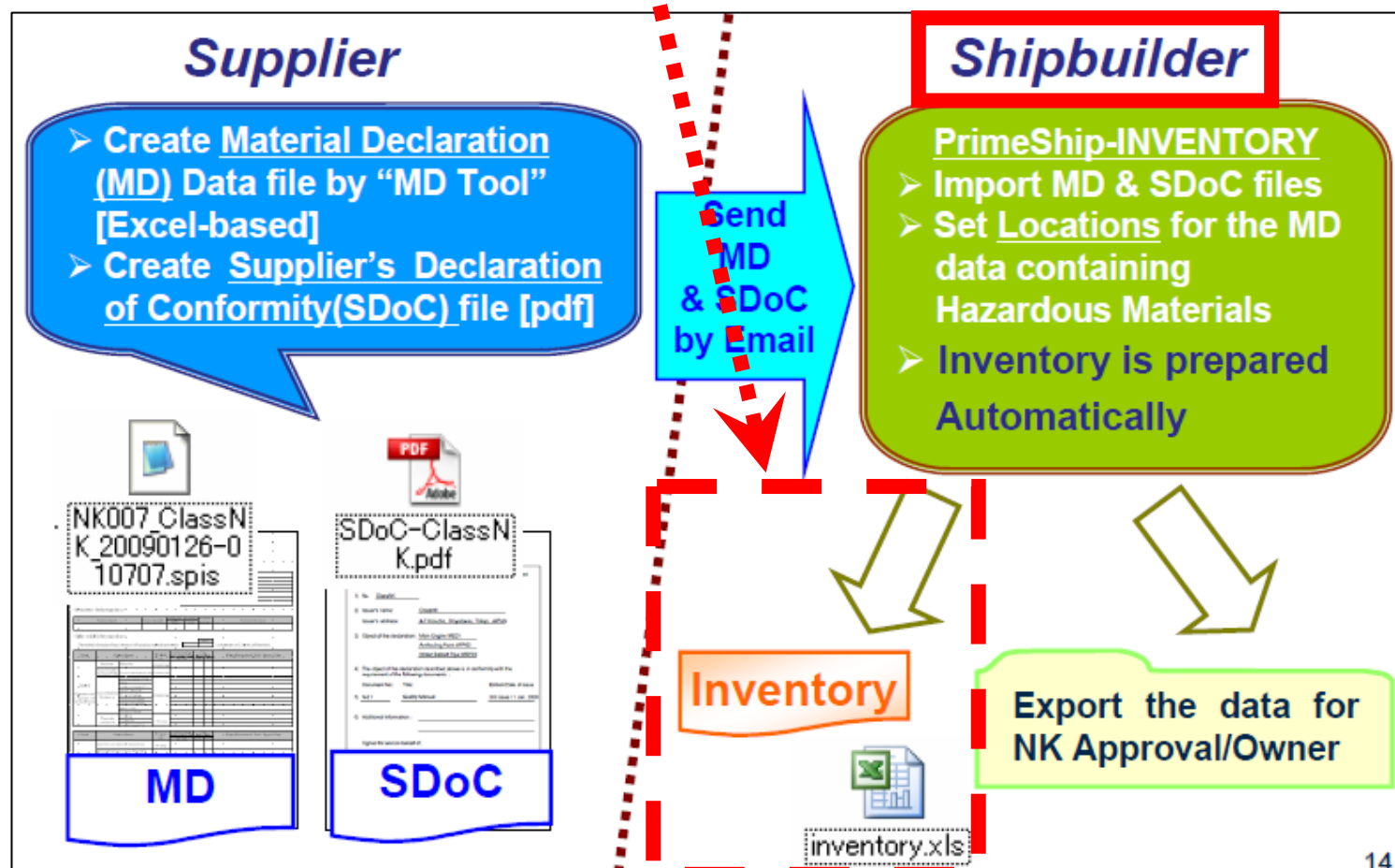
(8) Location is set

Back

Detail page

Location

# Output IHM Form



14

# PrimeShip-INVENTORY Output IHM Form

**(1) Open Ship page**

**(2) Click [Inventory Output]**

**(3) "Inventory" is generated**

PrimeShip-INVENTORY ver.2.1.0.0 [user]

Create Function

Ship

Purchase List

Ship Lookup

Lookup Add Modify Delete Location Information Document Information Inventory Edit Output Export Back

Max rows: 100

Ship No.:

Ship Name:

IMO No.:

Ship Type:

Shipowner name:

Date From:

Date To:

Shipbuilder name:

Ship No. Ship Name Flag

NK001

NK002

inventory.xls

Inventory Output

Material List Output

List of MD uncollected products Output

Purchase List Output

(Ref.) Inventory

Gross Tonnage

9000

Document

Displa	Ship No.	Document category	Attachment No	Document title	Document file name	Document creati
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# Output IHM Form

Microsoft Excel - Inventory\_NK002\_20100120.xls

ファイル(F) 編集(E) 表示(V) 挿入(I) 書式(O) ツール(T) データ(D) ウィンドウ(W) ヘルプ(H) Adobe PDF(O)

Arial Narrow 11 B I

M19

Inventory of Hazardous Materials Identification No.

## INVENTORY OF HAZARDOUS MATERIALS

ATTACHMENT TO THE INTERNATIONAL CERTIFICATE ON INVENTORY OF HAZARDOUS MATERIALS

Name of Ship	CLASSNK PRIME
Distinctive number or letters	NK002
IMO number	—
Port of Registry	—
Gross Tonnage	40,000
Shipowner	—
Name	—
Address	—
IMO registered owner identification number	—
IMO company identification number	—
Date of Construction	—

Completion date of survey on which this document is based:

Issued at:

Date of Issue:

Microsoft Excel - Inventory\_NK002\_20100120.xls

ファイル(F) 編集(E) 表示(V) 挿入(I) 書式(O) ツール(T) データ(D) ウィンドウ(W) ヘルプ(H)

MS Pゴシック 11 B I

A2

No.	Location	Name of equipment and machinery	Materials (classification in appendix 1)	Parts where used	Approx. quantity	Remarks
1	Machinery Part / Engine Room / 3rd Deck / Port	VERTICAL OIL-FIRED BOILER (x1) [NKTEC : AB0001]	Cadmium and cadmium compounds	Magnetic switch(junction)	<0.01 kg	
			Lead and lead compounds	Disk Holder and spring case for safety valves(2sets),JTD920A, Delay relay(solder),Programmable controller,Pressure gauge,	0.71 kg	
2		EXHAUST GAS ECONOMIZER (x1) [NKTEC : EGE03]	Cadmium and cadmium compounds	Magnetic switch in SB panel (15sets)	<0.01 kg	
			Hexavalent chromium and hexavalent chromium compounds	Pressure switch(2sets)	<0.01 kg	
			Lead and lead compounds	Solder for pressure switch(2sets)	<0.01 kg	
			Mercury and mercury compounds	Thermometer for E.G.E (Total 3sets)	<0.01 kg	



**Coming Soon !**

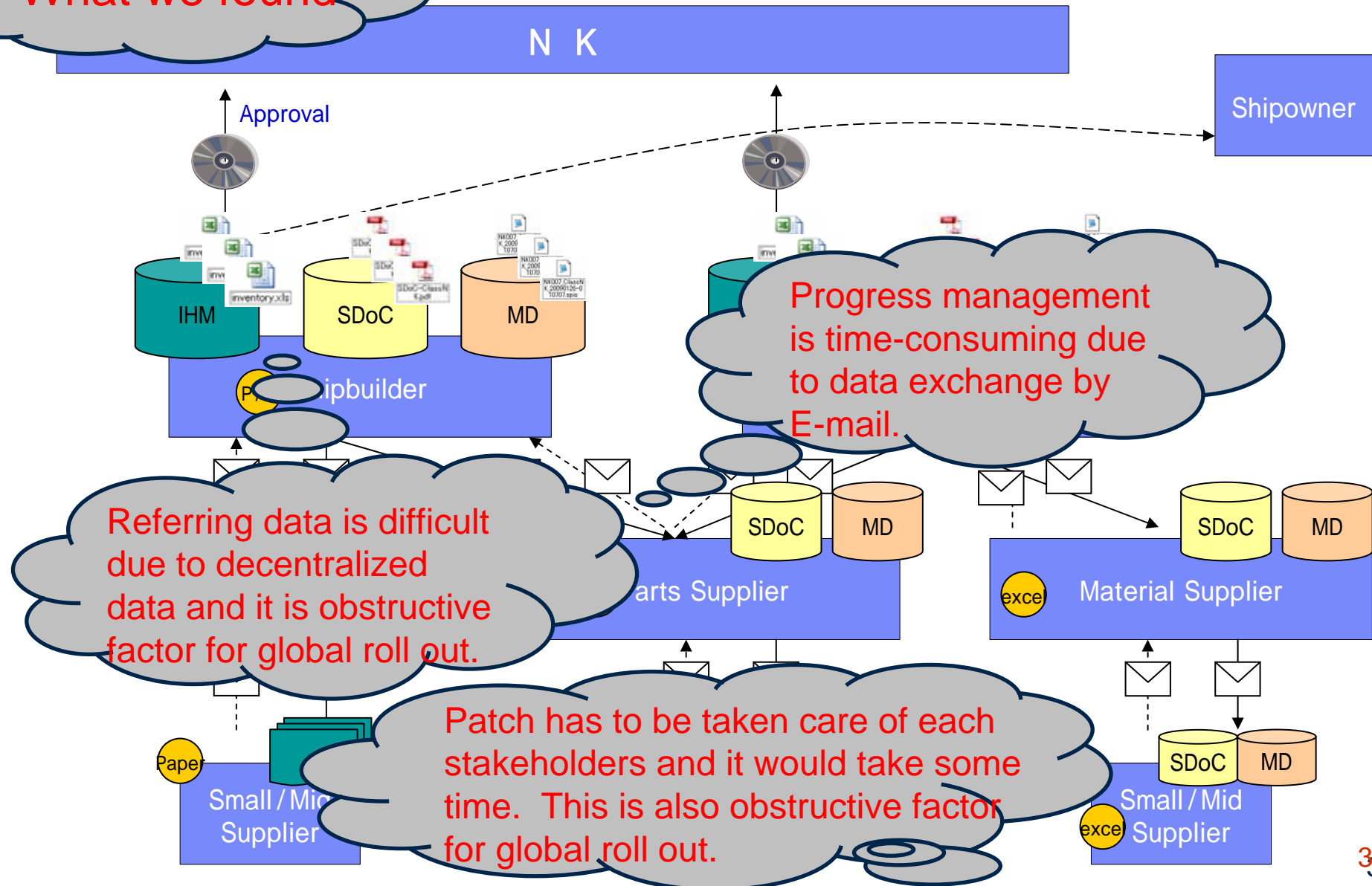
## Requests from shipbuilders and manufactures in Asian Region:

- Exchanging MD and SDOC by E-mail is troublesome.
- Wanting to upload them through Web!
- ClassNK started to develop Web software with IBM.

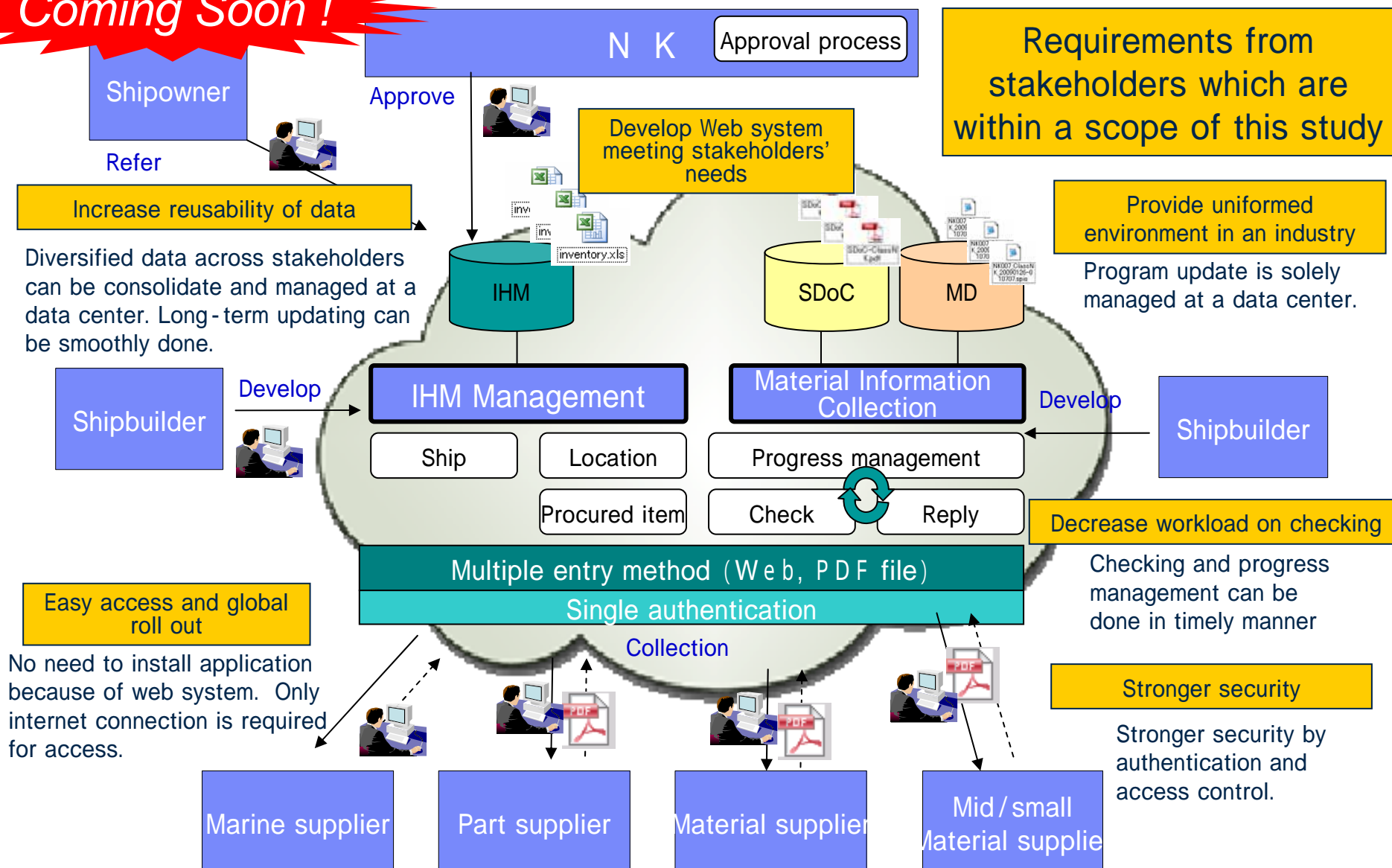


# Current Status on PrimeShip-INVENTORY

What we found...



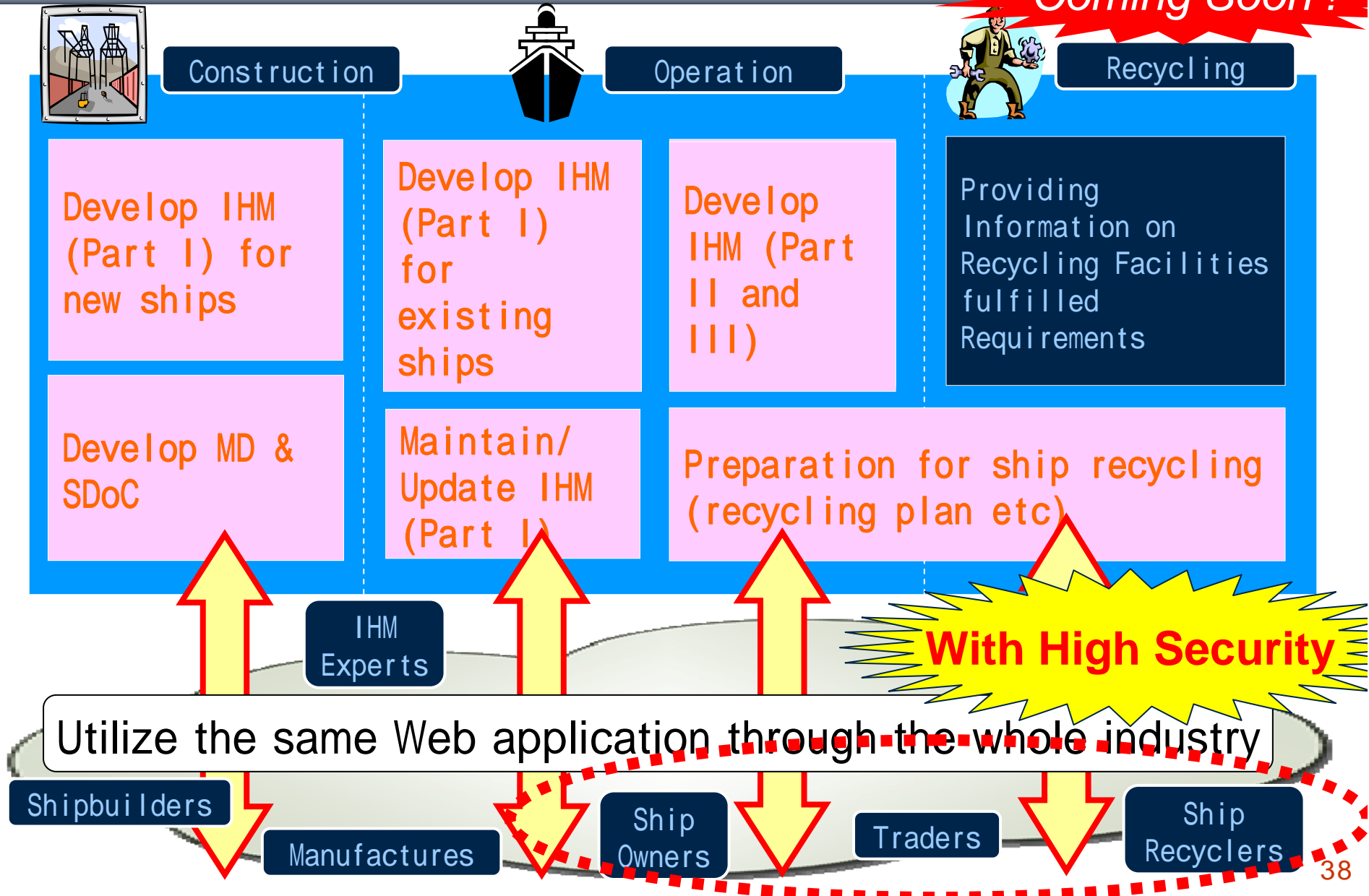
*Coming Soon !*



# PrimeShip-INVENTORY on Web

## Image for Next Development

**Coming Soon !**



## Statement of Fact for IHM

- ✓ **ClassNK issues Statement of Fact (SOF) for the IHM developed before the convention comes into force.**
  - ✓ **Shipowners are able to proceed to the early preparation since SOF is rewritten to the conventional certificate after the convention comes into force.**
  - ✓ **ClassNK has already issued SOF.**
- ```
graph LR; A[Statement of Fact] --> B[Statement of Fact]
```

Inventory of Hazardous Materials Identification No. \_\_\_\_\_

## INVENTORY OF HAZARDOUS MATERIALS

ATTACHMENT TO THE INTERNATIONAL CERTIFICATE ON INVENTORY OF HAZARDOUS MATERIALS

|                                            |                |
|--------------------------------------------|----------------|
| Name of Ship                               | CLASSIFICATION |
| Distinctive number or letters              | IMO NO.        |
| IMO number                                 | —              |
| Port of Registry                           | —              |
| Gross Tonnage                              | 40,000         |
| Shipowner                                  | Name           |
|                                            | Address        |
| IMO registered owner identification number | —              |
| IMO company identification number          | —              |
| Date of Construction                       | —              |

Completion date of survey on which this document is based: \_\_\_\_\_

ISSUED AT: \_\_\_\_\_

Date of Issue: \_\_\_\_\_



Signature of duly authorized official issuing the certificate: \_\_\_\_\_  
 (Seal or stamp of the authority, if any)

This inventory was developed in accordance with the Guidelines for the development of the Inventory of Hazardous Materials.

|                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div style="font-size: 48pt; font-weight: bold; margin-bottom: 10px;">SOF.</div> <div style="font-size: 14pt; margin-bottom: 10px;">No. KC 09N2-XXXX</div> | <div style="font-size: 24pt; font-weight: bold; margin-bottom: 20px;">Statement of Fact</div> <div style="margin-bottom: 20px;">Date: _____</div> <div style="margin-bottom: 20px;">THIS IS TO CERTIFY that the undersigned Surveyor did, at the request of ---, examine the report of "Inventory of Hazardous Materials" of the following vessel:</div> <div style="margin-bottom: 20px;"> <div style="text-align: right; margin-right: 20px;">MV "----"</div> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> Flag :<br/> Port of Registry :<br/> Signal Letters :<br/> IMO Number :<br/> Type of Vessel :<br/> Gross Tonnage :<br/> Shipbuilder : </div> <div style="width: 5%; text-align: center;">:</div> <div style="width: 50%; border-bottom: 1px solid black; min-height: 1.2em;"></div> </div> </div> <div style="margin-bottom: 20px;">Name of Owners : _____</div> <div style="margin-bottom: 20px;"> in accordance with "MEPC 58/3/2, Draft Guidelines for the Development of the Inventory of Hazardous Materials", and found satisfactory, excluding the materials listed in the remaining list of "Material declaration" and "Supplier's declaration of conformity" attached hereto. </div> <div style="text-align: center; margin-top: 20px;"> <div style="border-top: 1px solid black; width: 100px; margin: 0 auto; margin-bottom: 5px;"></div> <div style="display: flex; justify-content: center; align-items: center; gap: 10px;"> <span style="font-size: 24pt;">(</span> <span style="font-size: 24pt;">)</span> </div> <div style="margin-top: 5px;"> Nippon Kaiji Kyokai,<br/> Marine &amp; Industrial Service Department </div> </div> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Please visit the Ship Recycling page  
of ClassNK website at <http://www.classnk.or.jp>

Providing various information

Posting “Material Declaration Tool” for free download

The screenshot shows the ClassNK website interface. The top navigation bar includes links for AboutNK, Products & Services, Information Services, e-Library, Links, and Site Map. A search bar with a Google logo is also present. The main content area is divided into three columns: Products & Services, Information Services, and e-Library. In the Information Services column, the 'Ship Recycling Convention' link is highlighted with a red box. A red arrow points from this link to a detailed page on the right. This page, titled 'Ship Recycling Convention', provides information about the 2009 SHIP Recycling Convention, including its purpose, implementation, and a list of ClassNK's actions. A link for the 'Material Declaration Tool' is prominently displayed.

**Products & Services**

- Ship Classification
- Statutory Certification
- Technical Services
  - ISO 9000 & ISO 14000
  - PrimeShip
  - Common Structural Rules
  - Research & Development
  - Training
  - International Activities
  - IACS Commitments
  - Cooperation with Industries
  - Material Testing Machine

**Information Services**

- Web Service Portal
- Service Directory
- Technical Information
- IHO International Convention Calendar
- IACS Unified Requirement and Unified Interpretation
- Port State Control
- Classification Related
- ISM Code Related
- ISPS Code Related
- IMO MSC 2009 related
- Ship Recycling Convention**
- Ballast Water Management Convention

**e-Library**

- Publications
  - Rules and Guidances
  - Register of Ships
  - Free Publications
  - PDF Publications
  - Online Ordering
- Downloads
  - Application Forms
  - ISM Application Forms
  - ISPS Application Forms
  - Software

**Ship Recycling Convention**

ClassNK Action for Ship Recycling Convention

\*The Hong Kong International Convention for the Safe and Environmentally Sound Recycling of Ships, 2009 (SHIP Recycling Convention)\* was adopted in May 2009. After the convention enters into force, development and maintenance of an inventory of hazardous materials is required for all the ships over 500GT.

For both of existing Ships and New Ships, the development of the inventory will be the significant task. ClassNK provides to our members so that member parties (including shipowners, shipbuilders, and suppliers) are able to implement the convention smoothly.

Activities for development of Part I of inventory (IMO)

1. Finding ship introducing and providing an Report for the inventory (IMO development)
2. New ship development and providing the software "ShipShip-MS/NT/OT" for the inventory (IMO development, which requires the burden of shipbuilders and suppliers)

Proactive implementation by Statement of Fact

Issuing implementation of an action for the inventory (IMO development) between the convention enters into force and according to the conventional certificate afterwards, which results in smooth implementation.

For details of the convention and ClassNK Action, please refer to the following document

[ClassNK Solutions of Ship Recycling Convention](#)

**Inventory Development for New Ship**

Shipbuilders having an inventory by the following steps:

- Step 1: Record submitted Material Declaration (MD) and Supplier's Declaration of Contents (SDC) for all procured products.
- Step 2: Screen all products containing Hazardous Materials above the threshold limits.
- Step 3: Identify the location of these products and calculate the amounts of Hazardous Materials at each location.
- Step 4: Prepare standardized Inventory (IMO).

Providing INVENTOTY makes it easy for ship suppliers to electronically submit completed MDs and SDCs, and makes it inventory development a smooth and simple process for shipbuilders. For inventory (IMO) development by Providing INVENTOTY, please use the following INVENTOTY format

[Material Declaration \(MD\) Tool](#)

\*The tool includes the function to prepare SDC.

**For Suppliers**

Best based "Material Declaration (MD) Tool" enables suppliers to ensure accurate Material Declaration amounts, and provides error-check capabilities for Material Declarations. (Based on the IMO SP.220/2002/2003 is required for MD Tools).

**For Shipbuilders**

Providing INVENTOTY allows shipbuilders to develop inventory (IMO) by importing INVENTOTY data and coding locations for MDs containing Hazardous Materials. Providing INVENTOTY eliminates the need to cost MD data and automatically calculates the amounts of hazardous Materials at each location.

Inventory of Hazardous Materials Identification No. \_\_\_\_\_

**INVENTORY OF HAZARDOUS MATERIALS**  
ATTACHMENT TO THE INTERNATIONAL CERTIFICATE ON INVENTORY OF HAZARDOUS MATERIALS

|                                            |                |
|--------------------------------------------|----------------|
| Name of Ship                               | CLASSNK PRIME  |
| Distinctive number or letters              | NK002          |
| IMO number                                 | ---            |
| Port of Registry                           | ---            |
| Gross Tonnage                              | 40,000         |
| Shipowner                                  | Name<br>---    |
|                                            | Address<br>--- |
| IMO registered owner identification number | ---            |
| IMO company identification number          | ---            |
| Date of Construction                       | ---            |

Completion date of survey on which this document is based: \_\_\_\_\_

Issued at: \_\_\_\_\_

Date of Issued: \_\_\_\_\_

(signature of duly authorized official issuing the certificate)  
(Seal or stamp of the authority for appointment)  
**APPROVED**  
28 JAN 2011  
NIPPON KAIJI KYOKAI

This inventory was developed in accordance with the Guidelines for the development of the Inventory of Hazardous Materials.



***Thank you for your attention!***