



# Wilhelmsen Ship Management (WSM)

Inventory of Hazardous Materials (IHM) /  
Green Passport

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## >: What is IHM ? (Green Passport)

- An Inventory of Hazardous Materials is a list of hazardous materials, waste, and stores, identifying their locations and approximate quantities on board the ship.
- The Ship Recycling Convention was adopted by the Hong Kong (HKG) International Convention for the Safe and Environmentally Sound Recycling of Ships, May 2009. Though not ratified yet, this is a **MUST** for all Green shipowners.
- The IHM along with the Green Recycling are WMS products listed under the ACT environmental concept.





## >: More about IHM...

- Once the ship recycling convention enters into force, any ships which is greater than 500 gt will be required to maintain an Inventory of Hazardous Materials (IHM). This inventory identifies, locates and lists out all hazardous and potentially hazardous materials onboard a vessel. Once the IHM has been reviewed by class, a Statement of Compliance (Green Passport) will be issued under the Hong Kong Convention.
- The development of the IHM will be a significant task for shipowners for both existing and new building ships once the convention is ratified and enters into force.
- In preparation for the expected rush, WSM has built an in-house expertise to develop the IHM for their managed fleet as well as for independent owners. This is carried out by our group of trained experts (**trained and certified by DNV**), sailing onboard for typically 2-3 days where records, manuals are consulted in detail and samples collected. After analysis results are received, the IHM is prepared and submitted to class for obtaining a Statement of Compliance (Green Passport).



## >: Do my ships need IHM ?

- **Yes**, if you are 'Green' shipowner. The Ship Recycling Convention when ratified will apply to existing ships as well as newly constructed ships.





## >: What if my ships **are not** going to be recycled?

- Once the convention enters into force, Part 1 of the IHM which is hazardous materials contained in ship structure or equipment list has to be developed within 5 years in the case of vessels being built before the convention comes into force.
- However, the 'Green' shipowner has the option to get the IHM ready, by an expert, for their existing ships, **as early as now**.
- After IHM is developed, Class will be approached for issuing a SoC. This will be done on an office based on an occasional survey of the vessel and of the IHM.
- Different Class societies have their own procedures for preparing the IHM, we are willing to engage with your class society for this.
- It is **Not** necessary that the Class issuing the SoC is same as the vessel's Class. Any Class is acceptable, eg Class DNV may issue for Class NK vessel, however, for sailing vessels, it will be advisable to use the Vessel Classification Society for easier future conversion to Certificate once the convention is ratified.

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## >: What if my ships **are** going to be recycled?

- All parts of the IHM (part 1, 2 and 3) need to be developed which are Hazardous materials contained
  - Part 1 - in ship structure or equipment
  - Part 2 – in Operationally generated wastes
  - Part 3 – in Stores
- Once IHM is developed, Class will be approached for issuing a SoC. This will be done on an office based review of the IHM. No need for an additional survey.
- It is **Not** necessary that the Class issuing the SoC is same as the vessel Class – any Class is acceptable, eg Class DNV may issue for Class NK vessel.
- Basis this IHM, the Green Re-Cycle Yard develops the ‘Recycle Plans’ towards safe and environmental friendly demolition.



## >: What is a SoC?

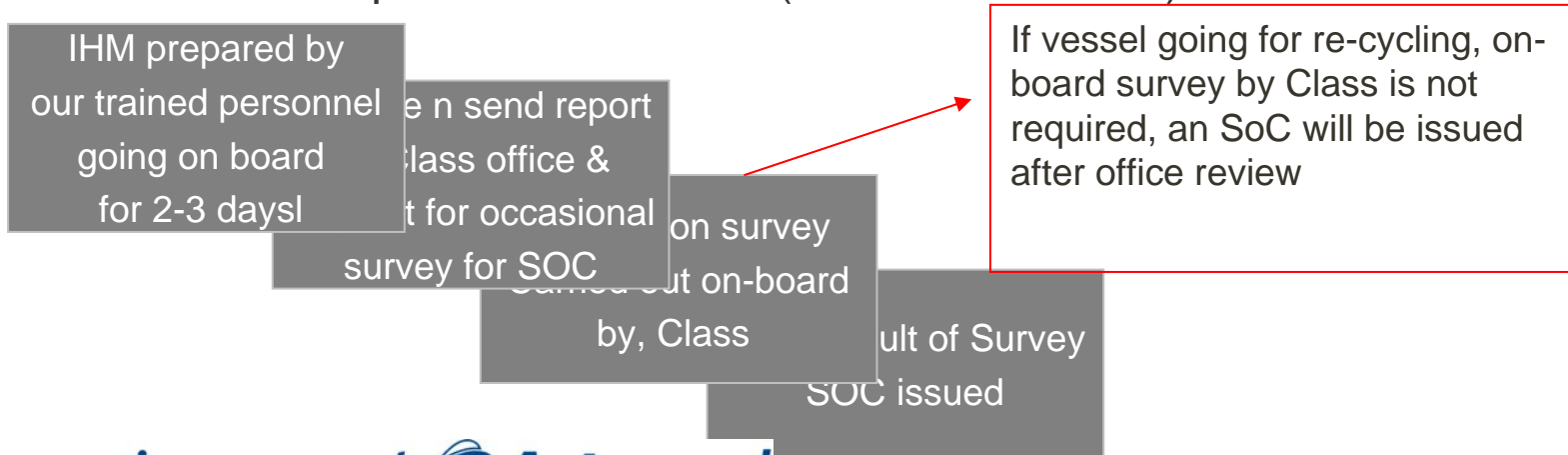
- SoC is Statement of Compliance. Once the IHM has been developed, it needs to be submitted to Class for obtaining a SOC which is also popularly known as a **Green Passport**.
- When the convention enters into force, the class will re-write the SOC as a conventional certificate.





## >: What is the IHM process?

- The preparation of IHM is the most tedious and time consuming process
- The occasional survey by class maybe done concurrently with other surveys. This is why, we recommend that this process is carried out now with our personnel who are trained and certified by Class and designated as Experts
- An overview of the process as follows (click on individual):-





## >: IHM process re-defined !

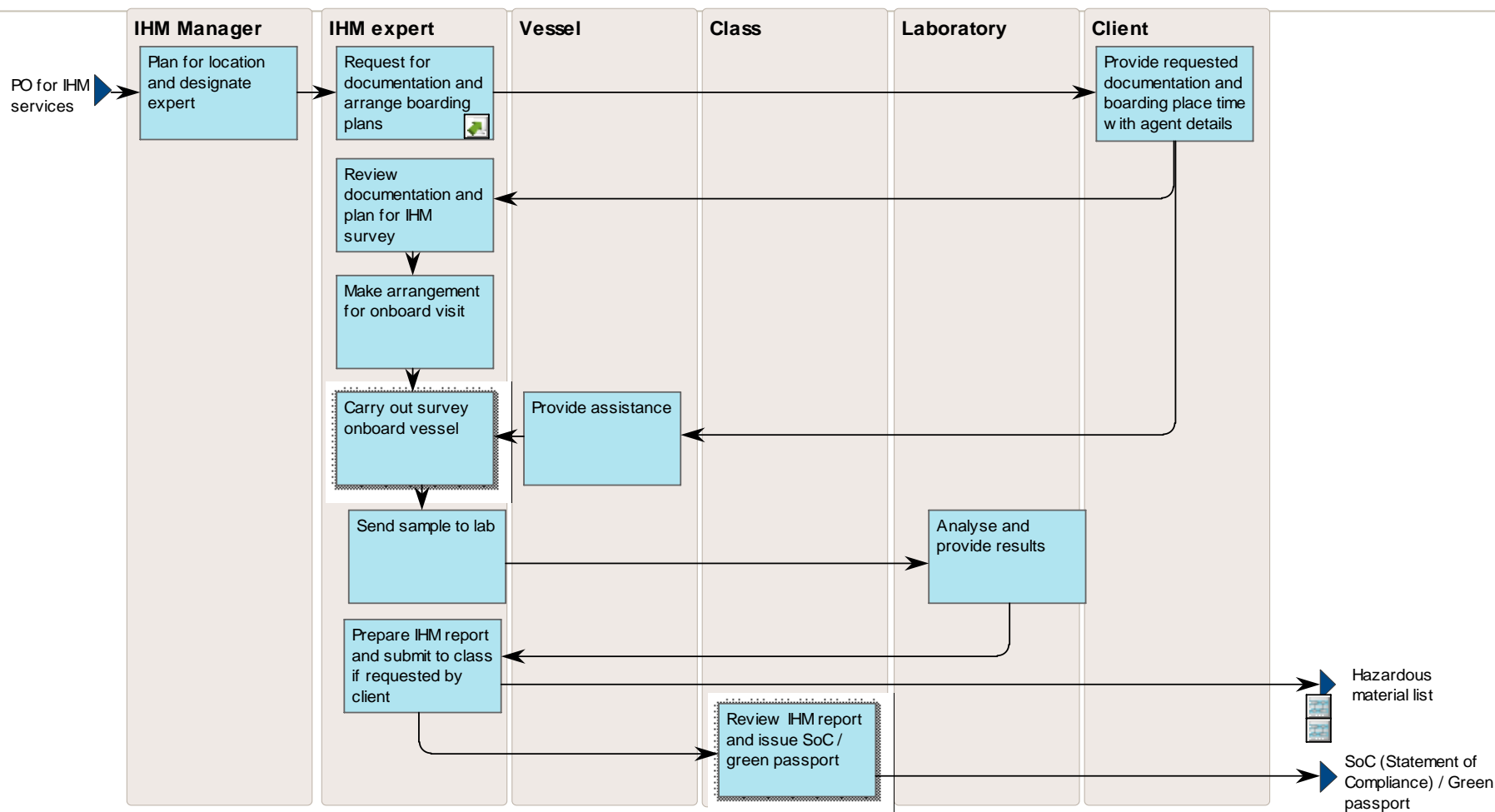


- If vessel going for re-cycling, then on-board survey by Class is not required, an SoC will be issued after office review

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## >: Our Process: Provide IHM (Inventory of Hazardous Materials)





## > Documents we will need prior on-board inspection

- Vessel particulars
- General arrangement drawings
- Material spec for ceilings, panels, deck coverings, doors and insulation (Asbestos)
- Insulation Plan (Hull and Machinery)
- Piping insulation specifications (Asbestos)
- Piping arrangement
- Accommodation Plan
- Fire Control Plan
- Fire Protection Plan
- MARPOL Annex VI compliance documentation (Ozone depleting substances)
- Refrigeration system specs (Ozone depleting substances)
- Anti-fouling Convention compliance documentation, TBT certificates etc.
- Results of previous visual/ sampling checks and other analysis (eg Green Passport)



## >: Why develop IHM now?

- Once the convention comes into force, demand for experts is expected to be high therefore, shipowners are recommended to begin this process as soon as possible. Also for Green Ship Owner, this IHM is a Must prior the vessel enters Green Recycling.

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## >: What does IHM / Green Passport cost?

USD

- Fixed cost: **9,500**
- Variable cost: **1,000 / day**  
(survey time is variable, depending on available documentation and type of vessel; we estimated two(2) days for on-board survey, additional travel time will apply)
- Lab. Charges: **estimated 5,000**  
(will be charged at cost depending on the no. of samples collected)
- Class charges : As per Class, but **indicative is USD 4,500** for Issuing of SoC (plus on-board survey costs if required)

We assure you that Our charges are very very competitive as we believe in providing a Green Service



Green Passport?  
Are you Green Owner?



## >: Why WSM ?

- Unlike many agencies, our Personnel are **trained and certified by Class** and designated as '**Experts**'.
- This implies **Quality** - a quality IHM is the most important input for a Green Re-Cycling
- Cost effective – you get '**value for money**'.
- WSM being a Green Ship Manager **understands** the needs and values being provided to the shipowner.

We strongly advocate IHM or Green Passport to be carried out on your vessels as soon as **NOW** !

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# Thank you for your attention

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