

THETIS-EU

Business Rules on support of 2000/59/EC

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Department B: Port State Control

Lisbon / 18-19 March 2015



***Agree on a set of **Business Rules** for developing the
THETIS module in support of Directive 2000/59/EC***

- What is a Business Rule?
- What do we mean by “Agree”?
- What do we expect from the group?
- What should the group expect from EMSA?

- 1** **Draft of Business Rules (BRs)**
Build by EMSA with MS input
- 2** **Expert Group Meeting**
To assess Prototypes and agreement on BRs
- 3** **Contract Changes**
Involvement of the THETIS contractor

*Enhance THETIS-S to cater for other
EU inspection regimes such as PRF inspections*

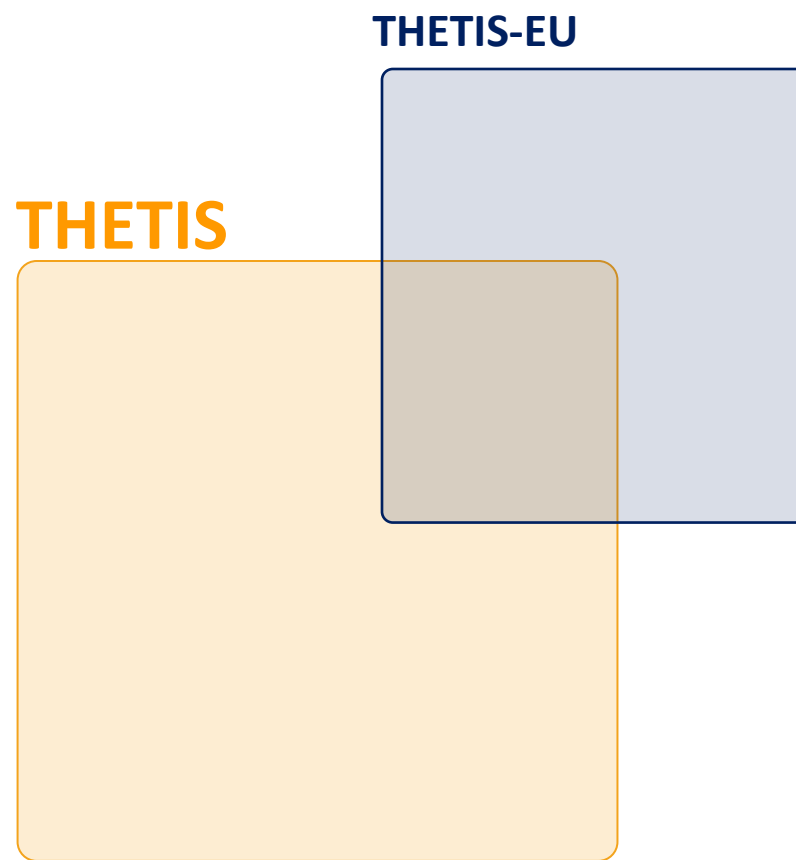
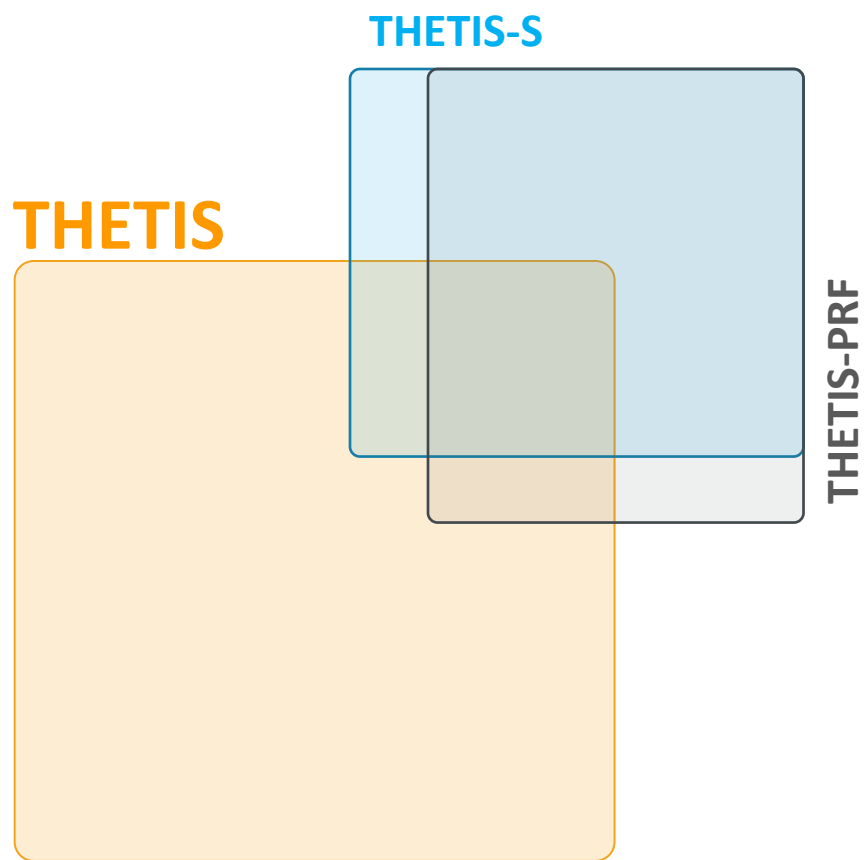
ON SHIPS!

Sharing of information where it makes sense

PortCall information, Ship details, PSC inspection activities status, etc...

Restrictions according to user privileges

PRF inspectors not qualified as PSCO or Sulphur Inspectors



| | | SSN | THETIS | | | |
|-----------|-----------------------------|--------------|--------|---------|-----|--|
| | | | PSC | Sulphur | PRF | |
| Flag | Foreign | | | | | |
| | Flag State | | | | | |
| GT | < 300 | Dang. Goods | | | | |
| | > 300 | | | | | |
| Voyages | International | | | | | |
| | Domestic | | | | | |
| Ship type | Fishing | < 45 m | | | | |
| | | > 45 m | | | | |
| | Warships | | | | | |
| | Naval Auxiliaries | | | | | |
| | Wooden of primitive build | | | | | |
| | Governmental Non-commercial | | | | | |
| | Pleasure yachts | Not in Trade | > 45 m | | | |
| | | In Trade | > 45 m | | | |
| | Bunkers < 1 000 GT | | | | | |



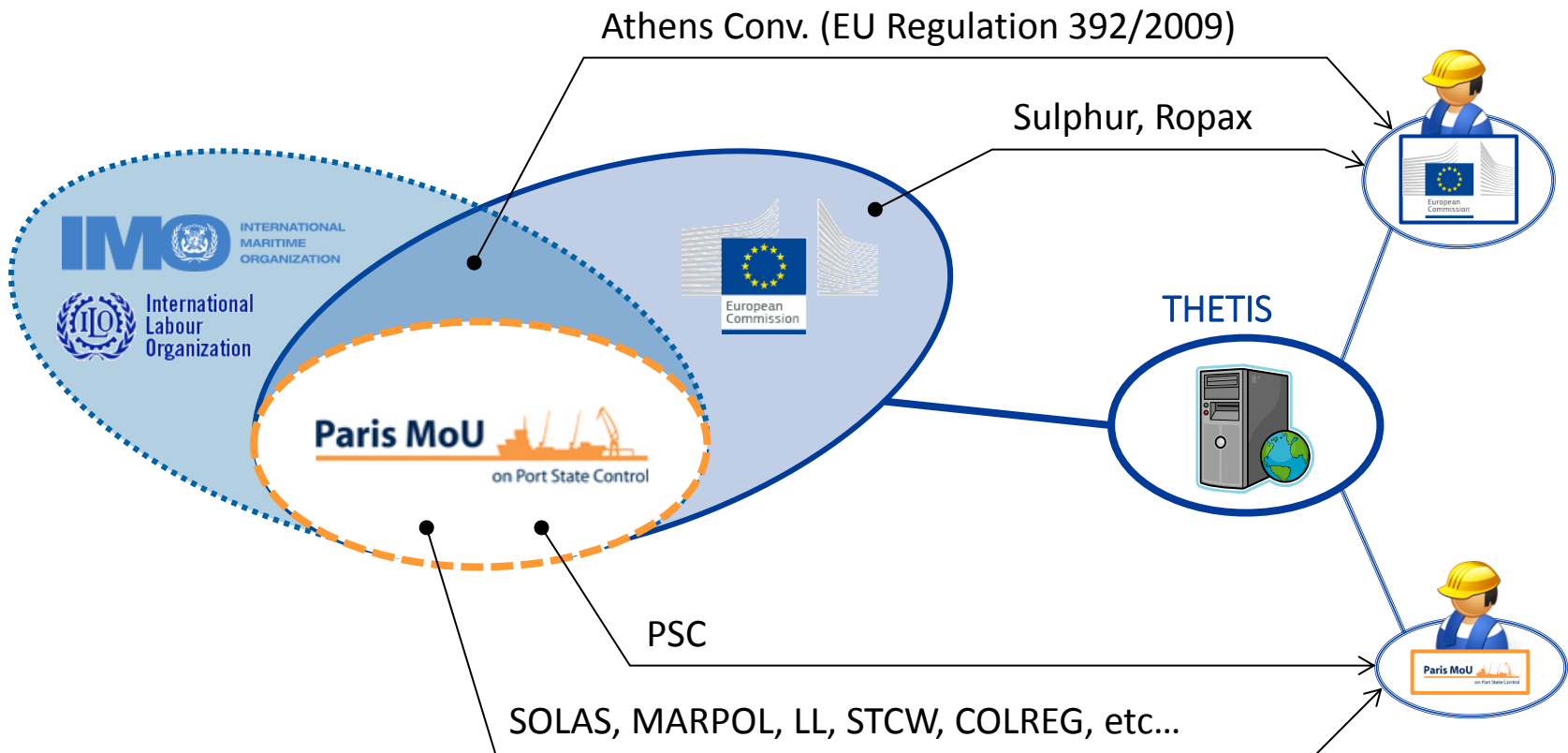
EU Legislation

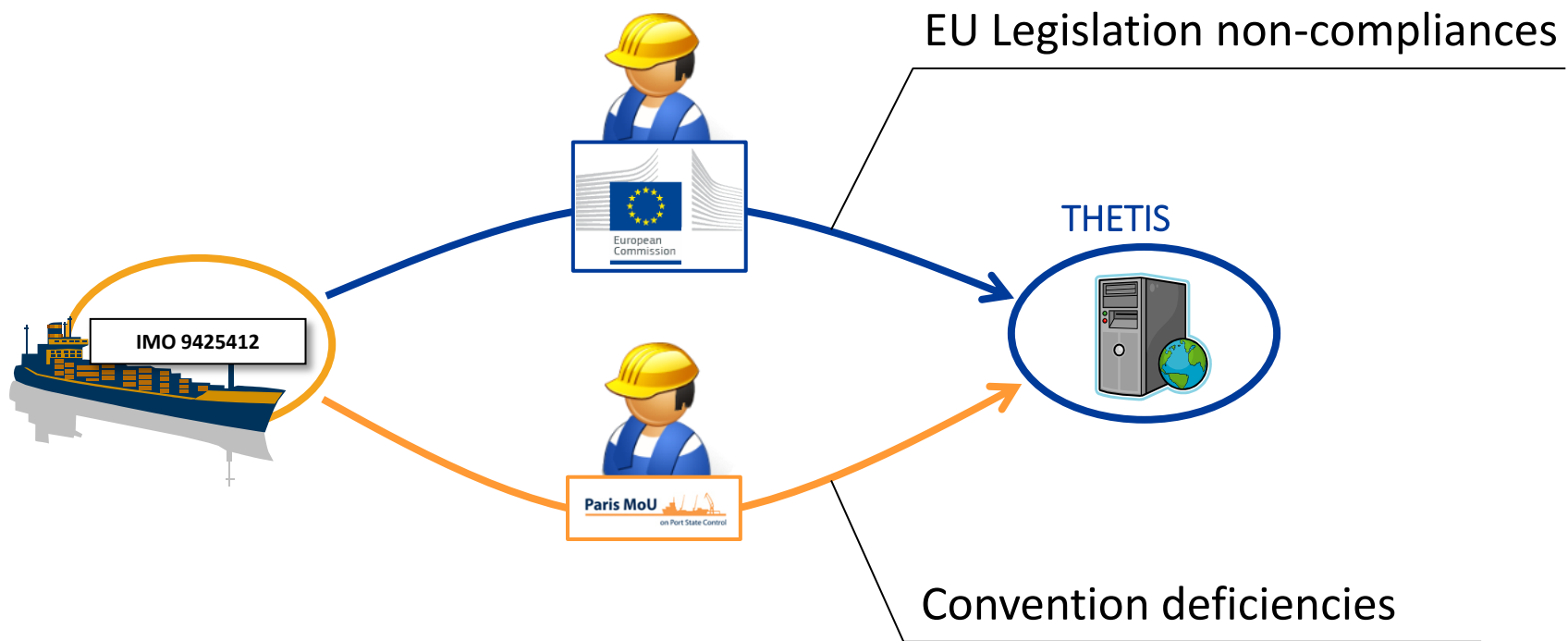


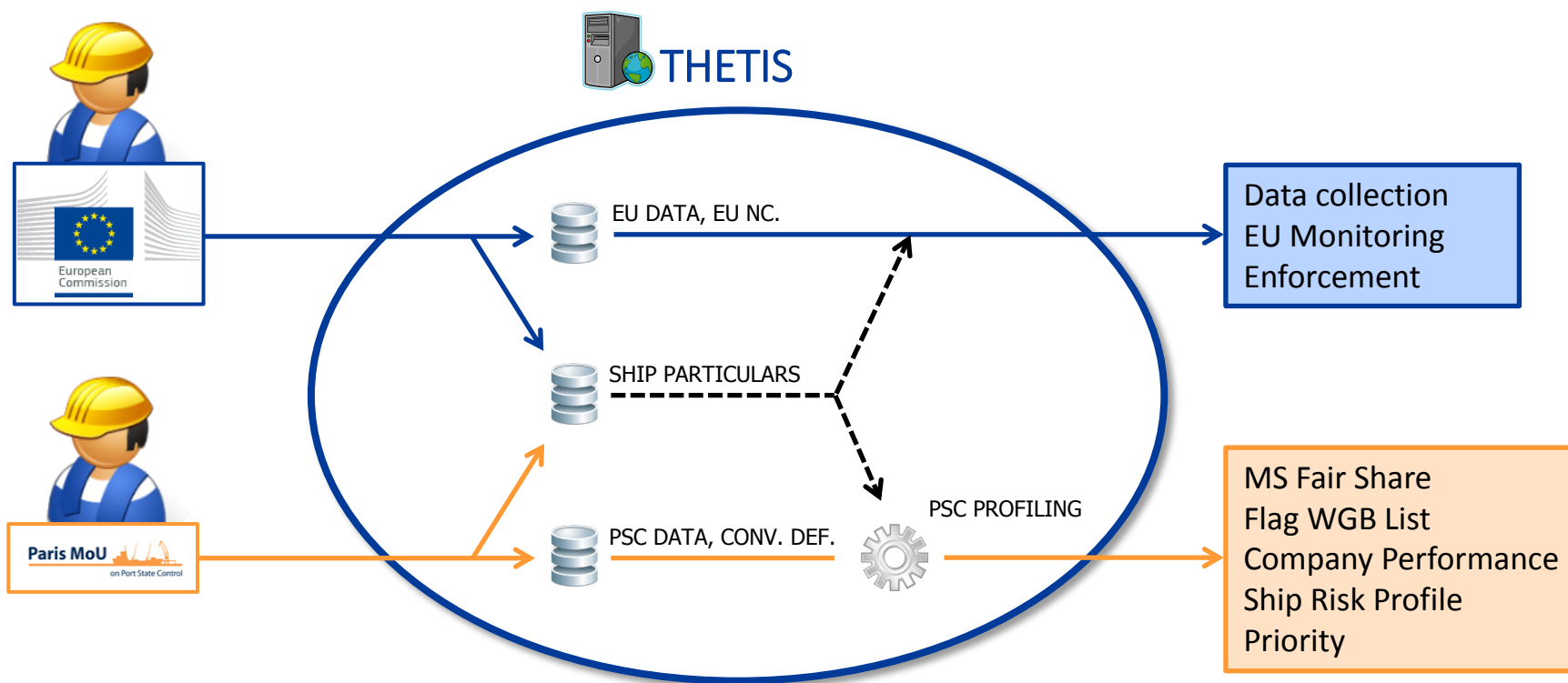
EU Legislation
and International
Conventions



International
Conventions









Reader

- Consult



Inspector

- Consult
- Inspect
- Report



National Administrator

- Consult
- Edit
- Manage users (Inspectors)



System Administrator

- Consult
- Manage system (Background tables)
- Manage National Administrators

“ Assigned roles define user permissions in the system ”

| | | |
|-----------|-----------------|--|
| THETIS-EU | n/a | Sulphur Reader / PRF Reader Sulphur Inspector / PRF Inspector Sulphur Nat. Admin. / PRF Nat Admin. |
| THETIS | Office specific | PSC Reader PSC Allocator PSC Inspector PSC Supervisor PSC National Administrator |
| Common | n/a | System Administrator |

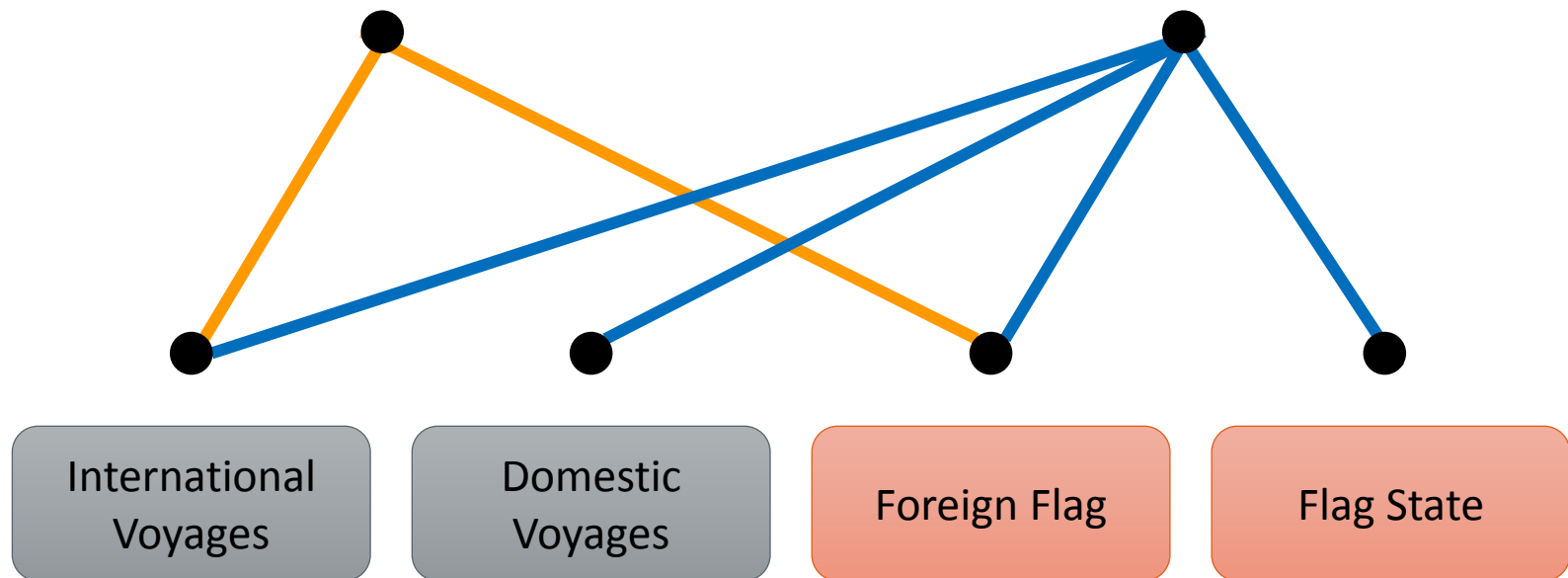


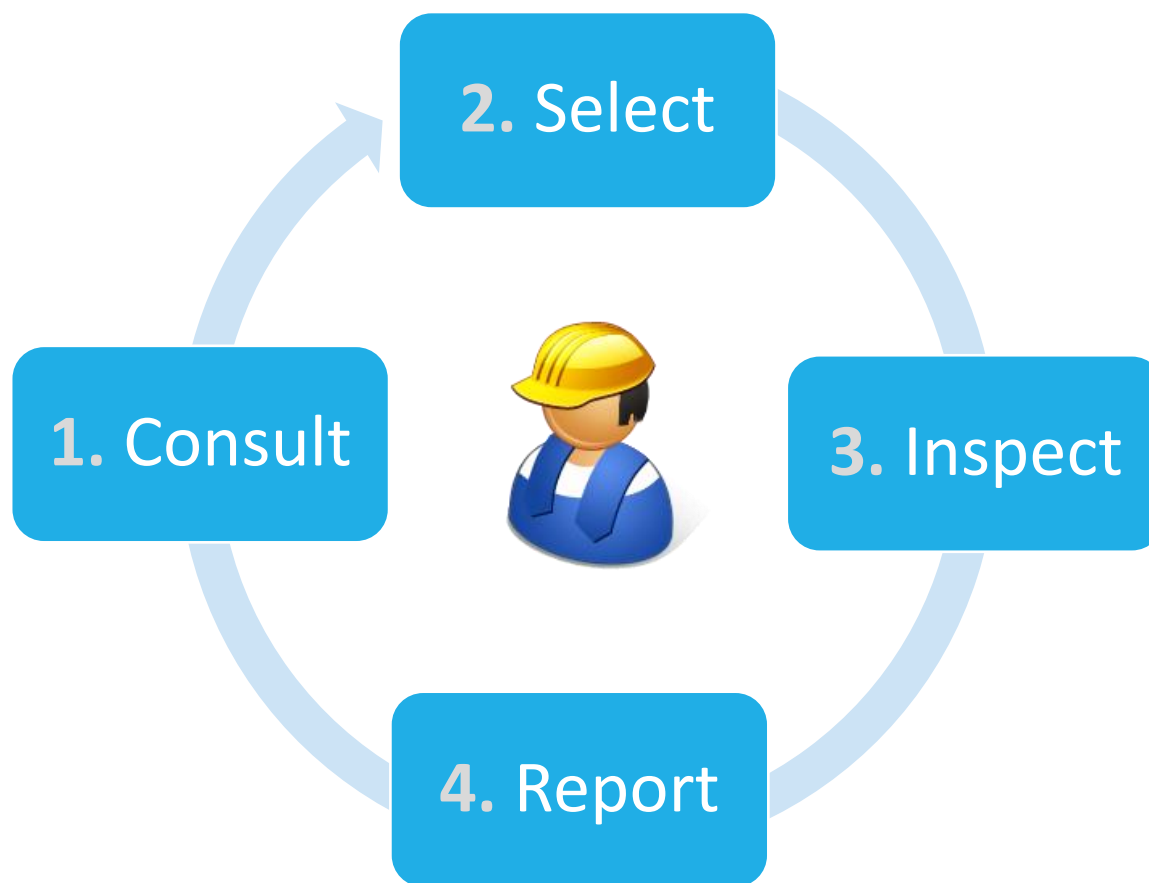


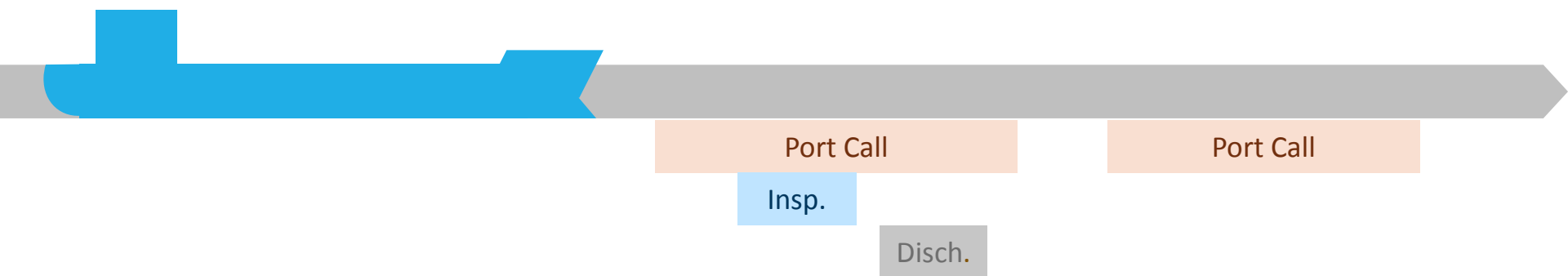
PSC Inspector

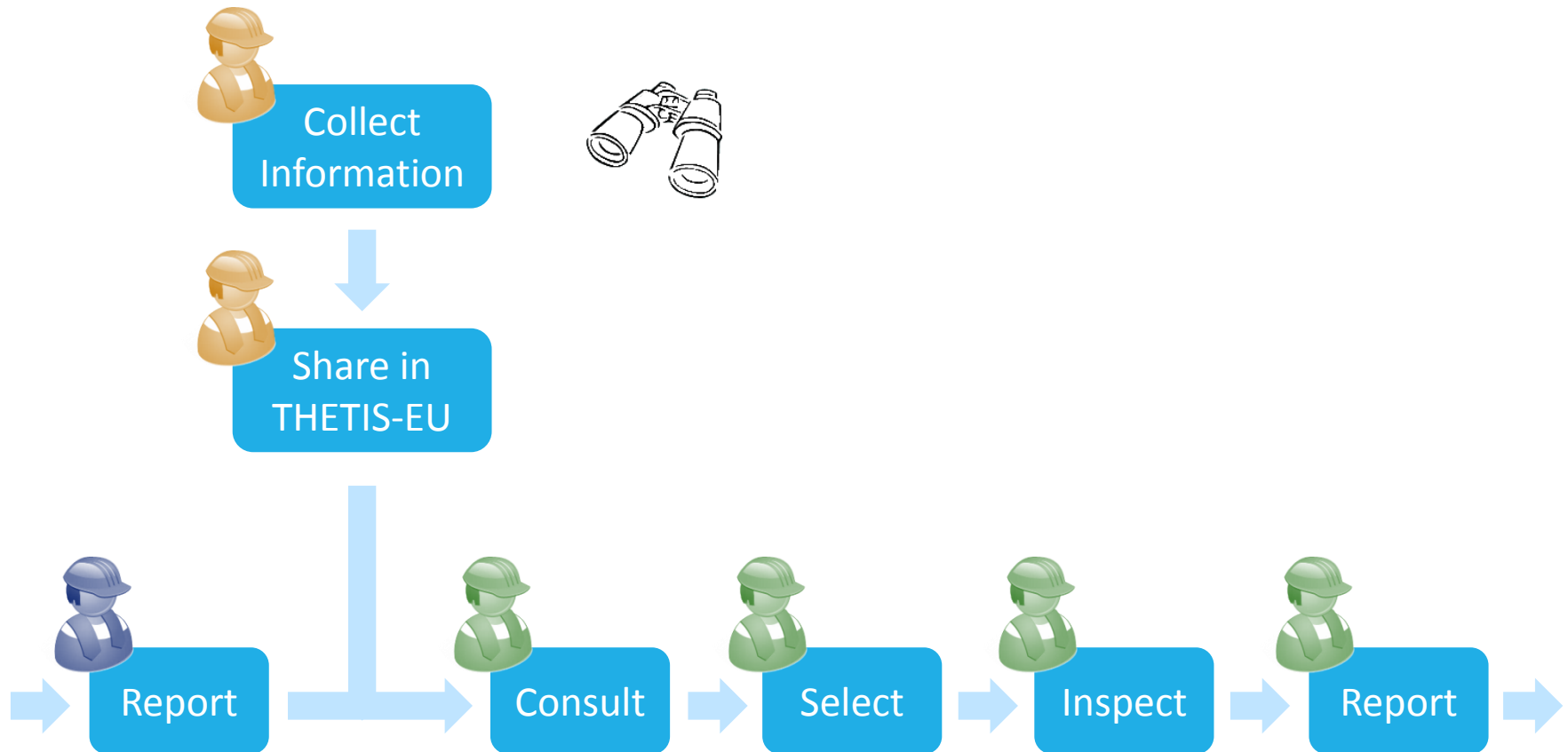


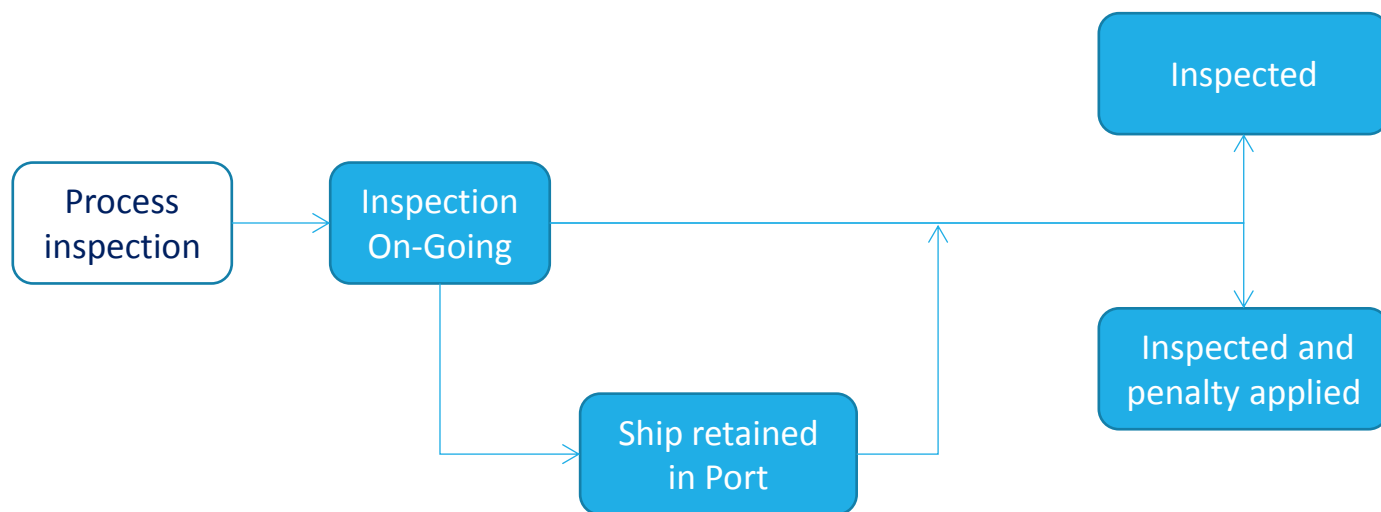
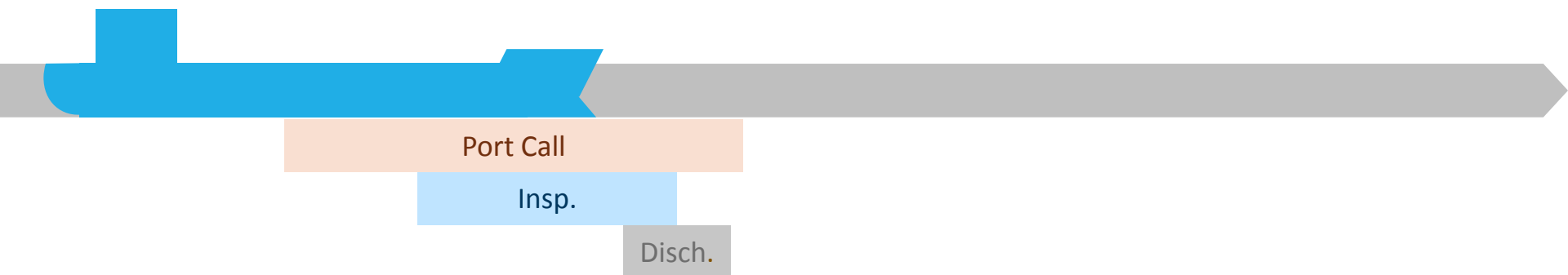
PRF Inspector



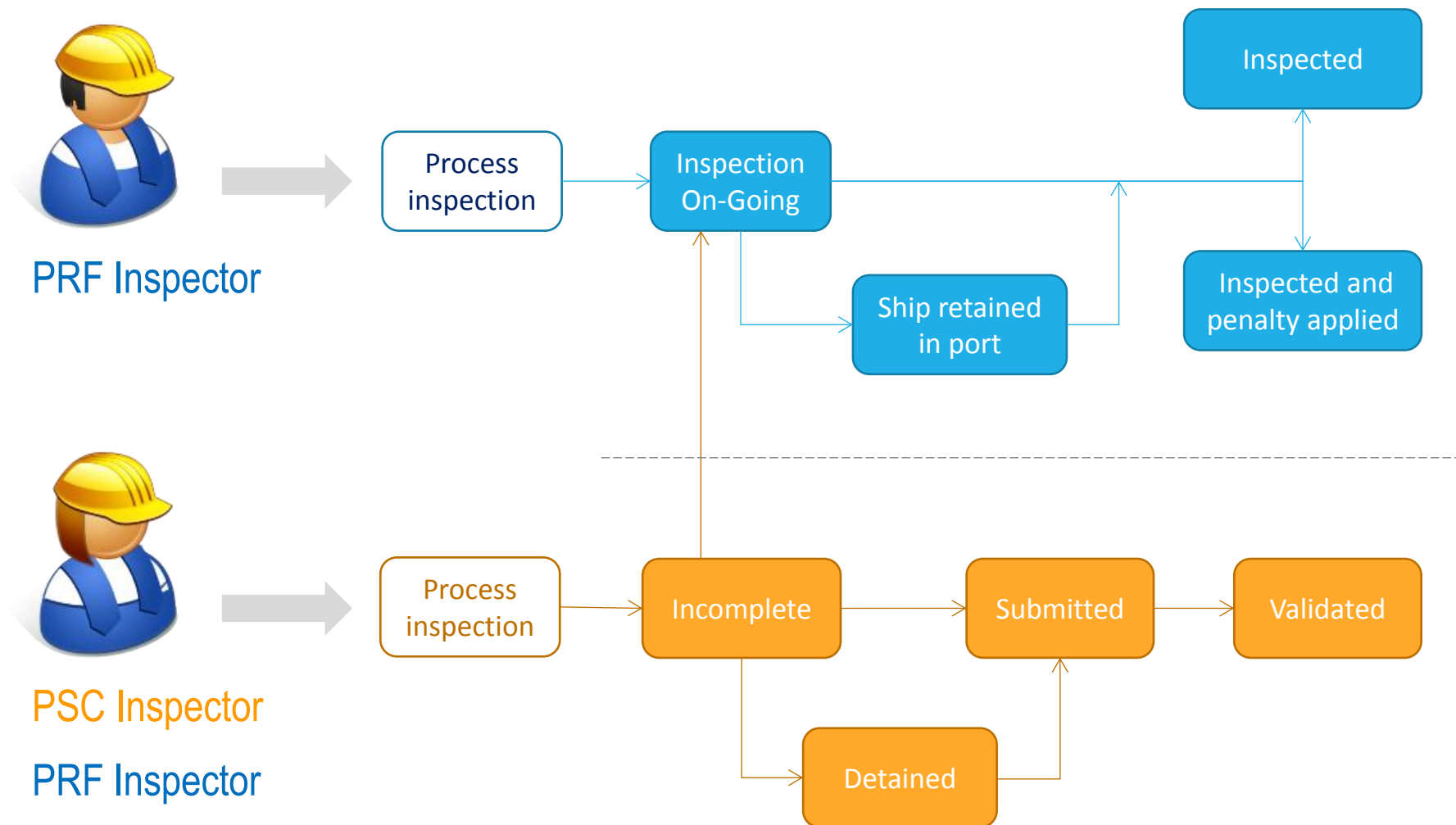






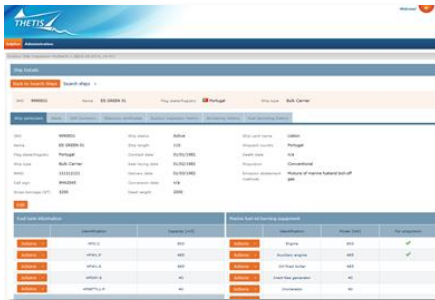


Possible combination of Roles

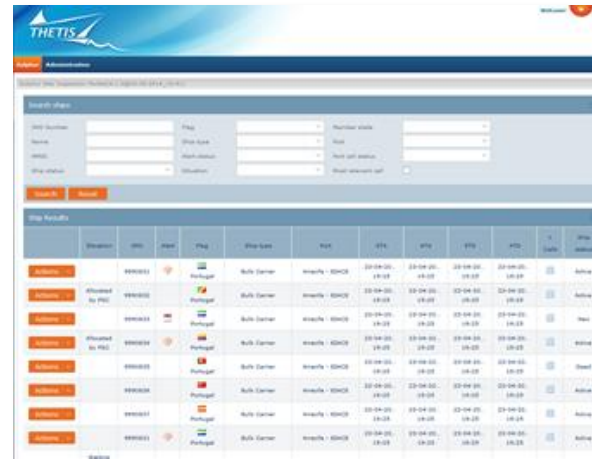


Main Screen

Ship Details

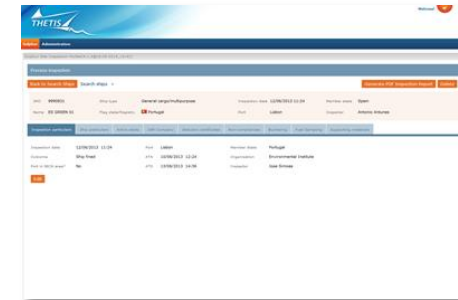


| Ship Name | Ship Type | Status | Other Details |
|-----------|-------------|--------|---------------|
| SHIP 1 | SHIP TYPE 1 | Active | Details 1 |
| SHIP 2 | SHIP TYPE 2 | Active | Details 2 |
| SHIP 3 | SHIP TYPE 3 | Active | Details 3 |
| SHIP 4 | SHIP TYPE 4 | Active | Details 4 |
| SHIP 5 | SHIP TYPE 5 | Active | Details 5 |



| Ship Name | Ship Type | Status | Other Details |
|-----------|-------------|--------|---------------|
| SHIP 1 | SHIP TYPE 1 | Active | Details 1 |
| SHIP 2 | SHIP TYPE 2 | Active | Details 2 |
| SHIP 3 | SHIP TYPE 3 | Active | Details 3 |
| SHIP 4 | SHIP TYPE 4 | Active | Details 4 |
| SHIP 5 | SHIP TYPE 5 | Active | Details 5 |

Process Inspection



| Ship Name | Ship Type | Status | Other Details |
|-----------|-------------|--------|---------------|
| SHIP 1 | SHIP TYPE 1 | Active | Details 1 |
| SHIP 2 | SHIP TYPE 2 | Active | Details 2 |
| SHIP 3 | SHIP TYPE 3 | Active | Details 3 |
| SHIP 4 | SHIP TYPE 4 | Active | Details 4 |
| SHIP 5 | SHIP TYPE 5 | Active | Details 5 |

Consult

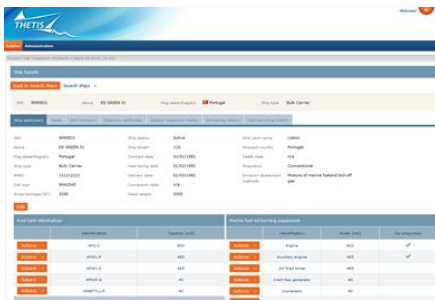
Select

Inspect

Report

Main Screen

Ship Details



C R [Ship Particulars](#)

C R [Alerts](#)

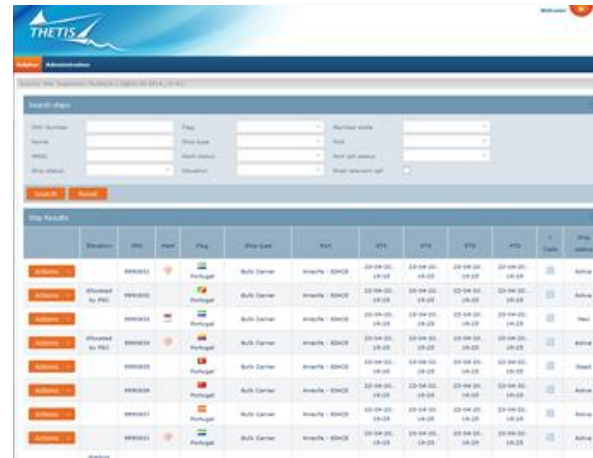
C [ISM Company](#)

C [Statutory Certificates](#)

C [Sulphur Inspection History](#)

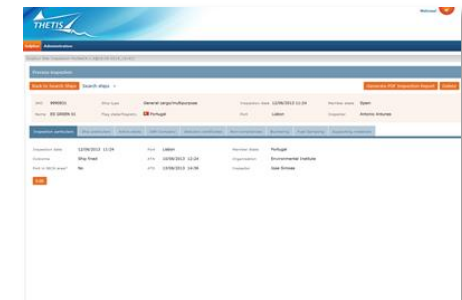
C [Bunkering History](#)

C [Fuel Sampling History](#)



Consult & Record
possibilities

Process Inspection



R [Inspection particulars](#)

R [Ship particulars](#)

R [Active alerts](#)

R [ISM Company](#)

R [Statutory Certificates](#)

R [Non-compliances](#)

R [Bunkering](#)

R [Fuel Sampling](#)

R [Supporting Material](#)



Sulphur Site Inspection Portlet(1.0.10@27.01.2015_10:09)

Search ships



| | | | | | |
|-------------|----------------------|--------------|----------------------|--------------------|---|
| IMO Number | <input type="text"/> | Flag | <input type="text"/> | Member state | <input type="text" value="Portugal"/> |
| Name | <input type="text"/> | Ship type | <input type="text"/> | Port | <input type="text"/> |
| MMSI | <input type="text"/> | Alert status | <input type="text"/> | Port call status | <input type="text" value="Arrived, Expected to arriv"/> |
| Ship status | <input type="text"/> | Situation | <input type="text"/> | Most relevant call | <input checked="" type="checkbox"/> |























Search

Filter

Reset

Ship Results




| | Situation | IMO | Alert | Name | Flag | Ship type | Port | ETA | ATA | ETD | ATD | Calls | Ship status |
|---------|-----------|---------|---|--------------------------|--|----------------------------|---------------------|------------------|------------------|------------------|-----|---|-------------|
| Actions | | 9614036 |  | BALTANCA |  Bermuda, UK | Passenger ship | Ponta Delgada PTPDL | 20-03-2017 08:00 | | 20-03-2017 18:00 | |  | New |
| Actions | | 9650420 |  | PINCANTERI 6237 |  Malta | | Leixoes PTLEI | 03-10-2016 09:00 | | 03-10-2016 17:00 | | | New |
| Actions | | 9692557 |  | KONINGSDAAR |  Bermuda, UK | | Leixoes PTLEI | 23-09-2016 09:00 | | 23-09-2016 17:00 | |  | New |
| Actions | | 9704130 |  | LE LYRIAL |  France | | Ponta Delgada PTPDL | 10-04-2016 08:00 | | 10-04-2016 17:00 | | | New |
| Actions | | 9610382 |  | ATLANT |  Russian Federation | Fish factory | Setubal PTSET | 20-12-2015 00:00 | | 22-12-2015 13:22 | |  | Unknown |
| Actions | | 9269928 |  | PETENGEZ |  Turkey | Chemical tanker | Leixoes PTLEI | 02-02-2015 11:00 | 02-02-2015 13:50 | 03-02-2015 13:00 | |  | Active |
| Actions | | 9681344 |  | ARKONIA |  Marshall Islands | General cargo/multipurpose | Leixoes PTLEI | 02-02-2015 16:00 | 02-02-2015 13:15 | 03-02-2015 22:00 | |  | Active |
| Actions | | 9377696 |  | VENTO DE TRANCONTINENTAL |  Liberia | Container | Lisbon PTLIS | 02-02-2015 15:00 | 02-02-2015 13:00 | 05-02-2015 08:00 | |  | Active |

Sulphur Site Inspection Portlet(1.0.10@27.01.2015_10:09)

Ship Details

[Back to Search Ships](#)

| | | | | | | | |
|-----|---------|------|----------------|---------------------|--|-----------|----------------------------|
| IMO | 9208214 | Name | REALTIC SHALON | Flag state/Registry |  Belize | Ship type | General cargo/multipurpose |
|-----|---------|------|----------------|---------------------|--|-----------|----------------------------|

| | | | | | | | | | |
|------------------|------------|----------------------|------------|-------------|------------------------|----------------------------|-------------------|-----------------------|------------------|
| Ship particulars | Fuel tanks | Combustion machinery | Alerts (0) | ISM Company | Statutory certificates | Sulphur inspection history | Bunkering history | Fuel sampling history | PortCall history |
|------------------|------------|----------------------|------------|-------------|------------------------|----------------------------|-------------------|-----------------------|------------------|


| | | | | | |
|---------------------|----------------------------|------------------|------------|----------------------------|--------------|
| IMO | 9208214 | Ship status | Active | Ship yard name | |
| Name | REALTIC SHALON | Ship length | 78.5 | Shipyard country | |
| Flag state/Registry | Belize | Contract date | | Death date | |
| Ship type | General cargo/multipurpose | Keel laying date | 14/10/1996 | Propulsion | Conventional |
| MMSI | 220100000 | Delivery date | | Emission abatement methods | |
| Call sign | 20000 | Conversion date | | | |
| Gross tonnage (GT) | 2280 | Dead weight | 3110 | | |

[Edit](#)

Sulphur Site Inspection Portlet(1.0.10@27.01.2015_10:09)

Edit Inspection

Back to Search Ships Generate PDF Inspection Report Save Delete

| | | | | | | | |
|------|---------|---------------------|---|-----------------|------------------|--------------|----------------|
| IMO | 8221468 | Ship type | Chemical tanker | Inspection date | 30/01/2015 00:10 | Member state | Portugal |
| Name | HECRA | Flag state/Registry |  Italy | Port | Sines | Inspector | Wguel Portugal |

[Inspection particulars](#)
[Ship particulars](#)
[Fuel tanks](#)
[Combustion machinery](#)
[Active alerts \(0\)](#)
[ISM Company](#)
[Statutory certificates](#)
[Non-compliances](#)
[Bunkering](#)
[Fuel Sampling](#)
[Support](#)

| | | | | | |
|--------------------|------------------|------|------------------|--------------|----------------|
| Inspection date | 30/01/2015 00:10 | Port | Sines | Member State | Portugal |
| Outcome | Inspected | ATA | 30/01/2015 09:09 | Organization | Wguel Portugal |
| Port in SECA area? | No | ATD | | Inspector | Wguel Portugal |

Edit

Node: qwls11.emsa.local

Questionnaire

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Department B: Port State Control

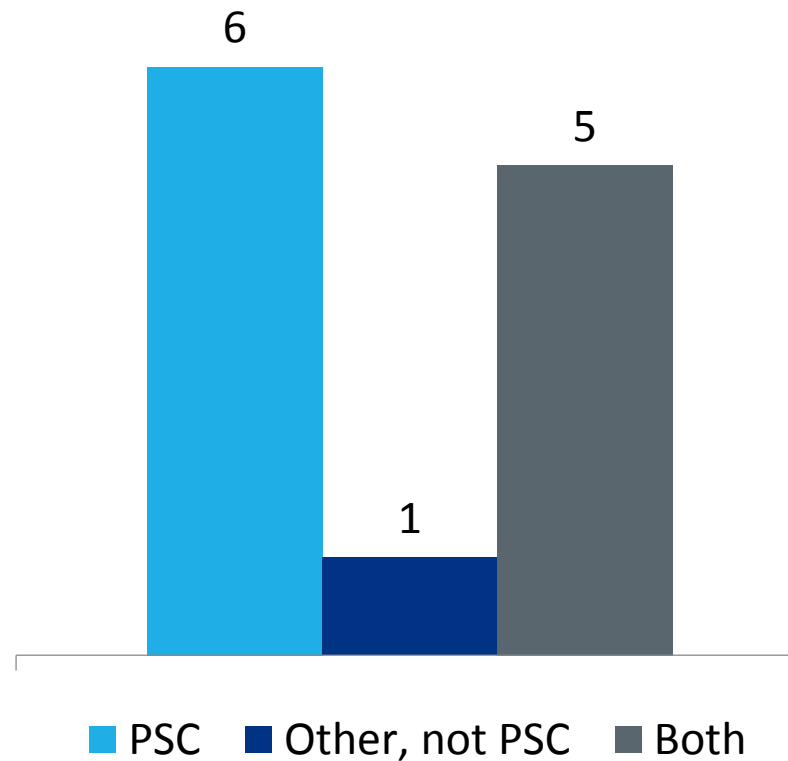
Lisbon / 18-19 March 2015



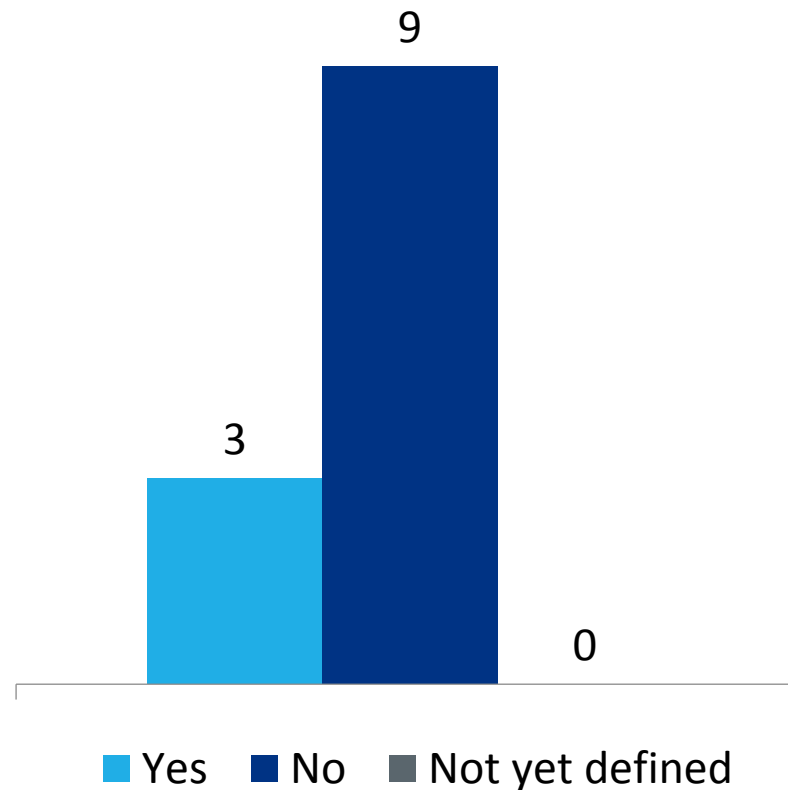
1. Participants feedback, not MS!
2. Clarification on possible approaches
3. Lighten the discussion
4. Note concerns to be addressed

*“we cannot change the policy but
we can make it easier to deal with it”*

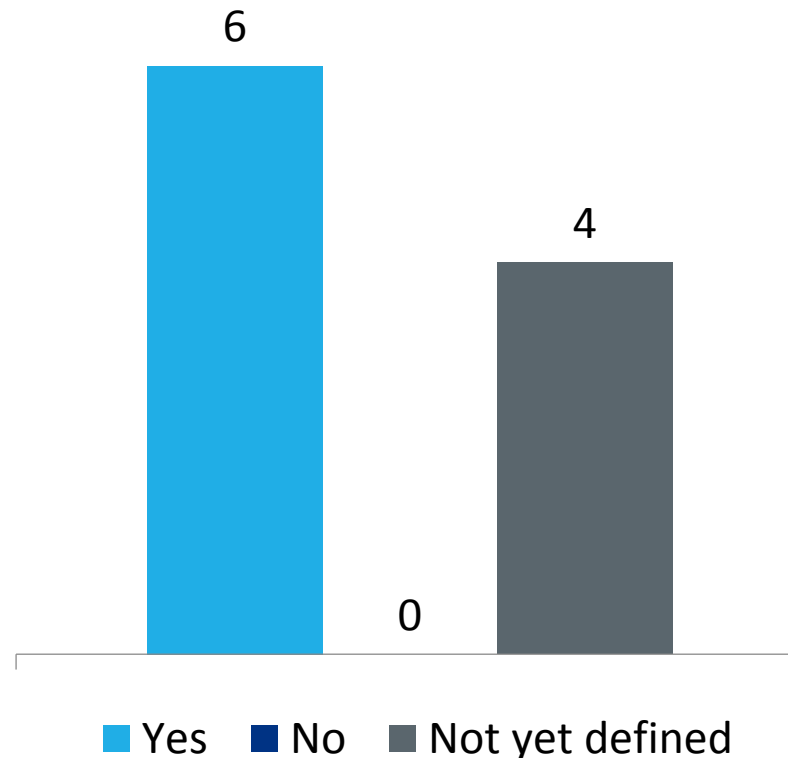
1. Who dose PRF ship inspection in your MS?



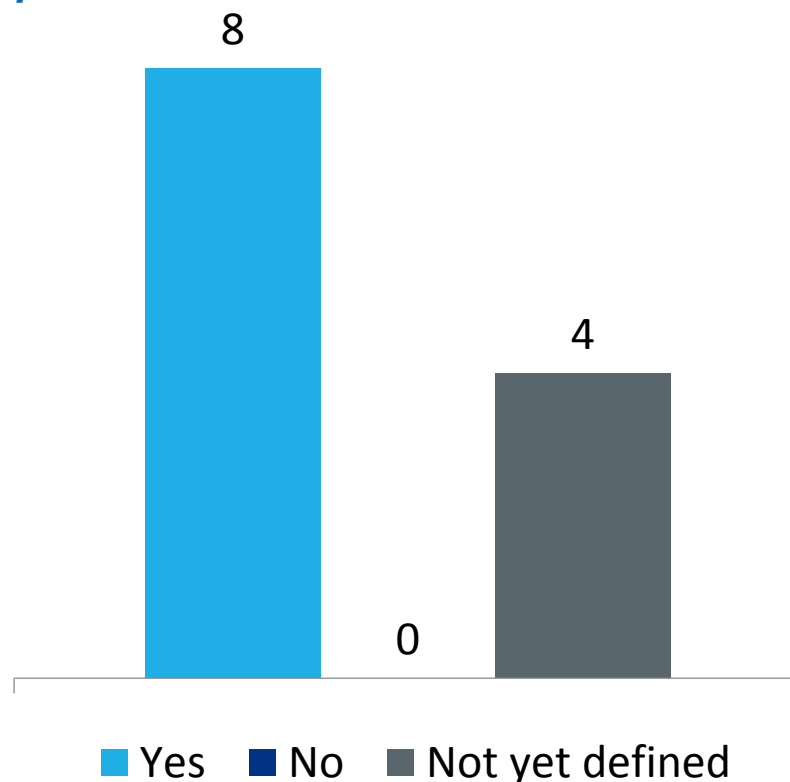
2. Do you have more than one national entity dealing with ship inspections under the PRF Directive?



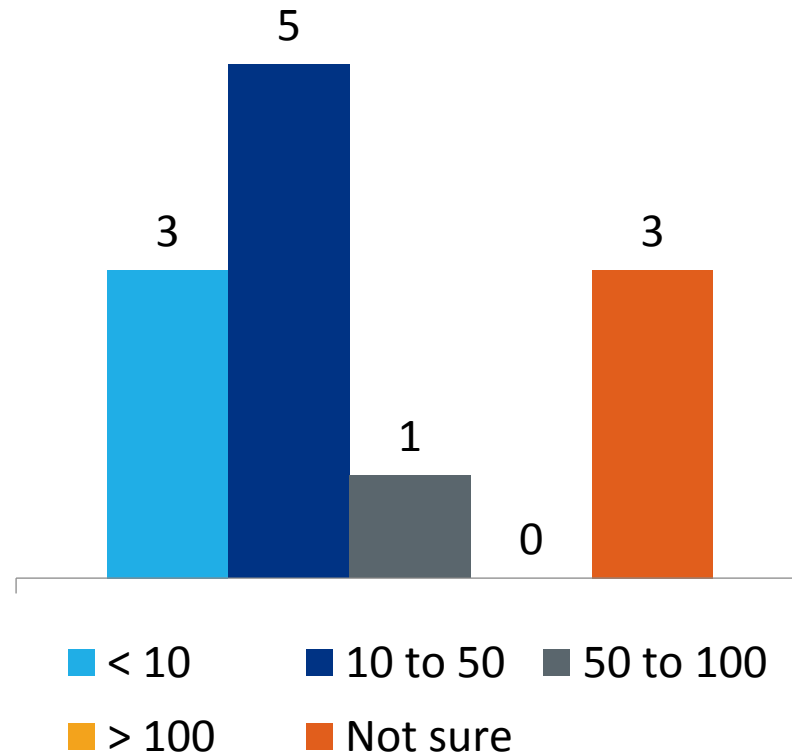
3. *Do PRF ship inspectors also have the competence to carry out Sulphur inspections?*



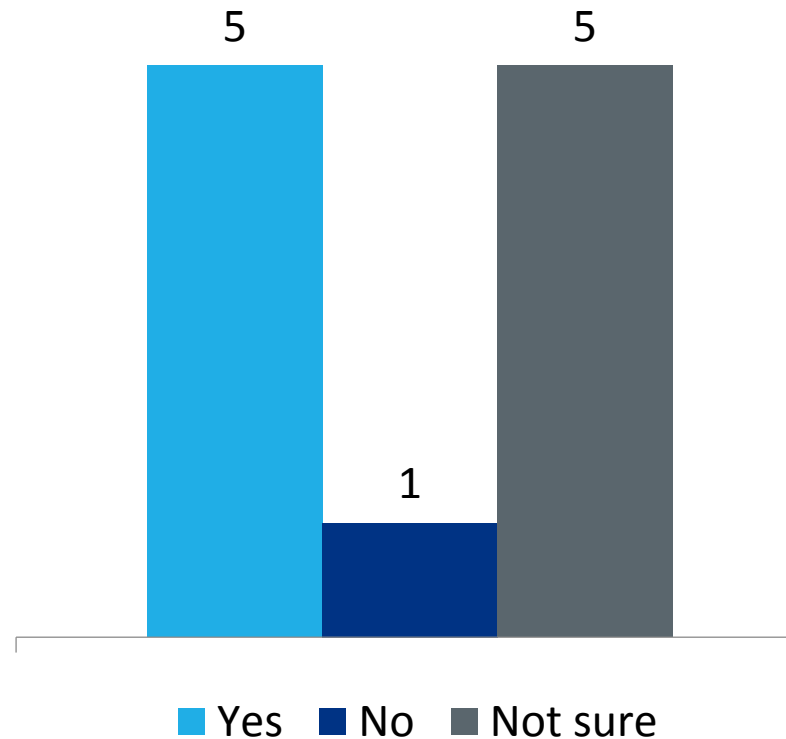
4. Do you foresee that ship inspections under the PRF Directive and the Sulphur Directive can happen during the same ship visit?



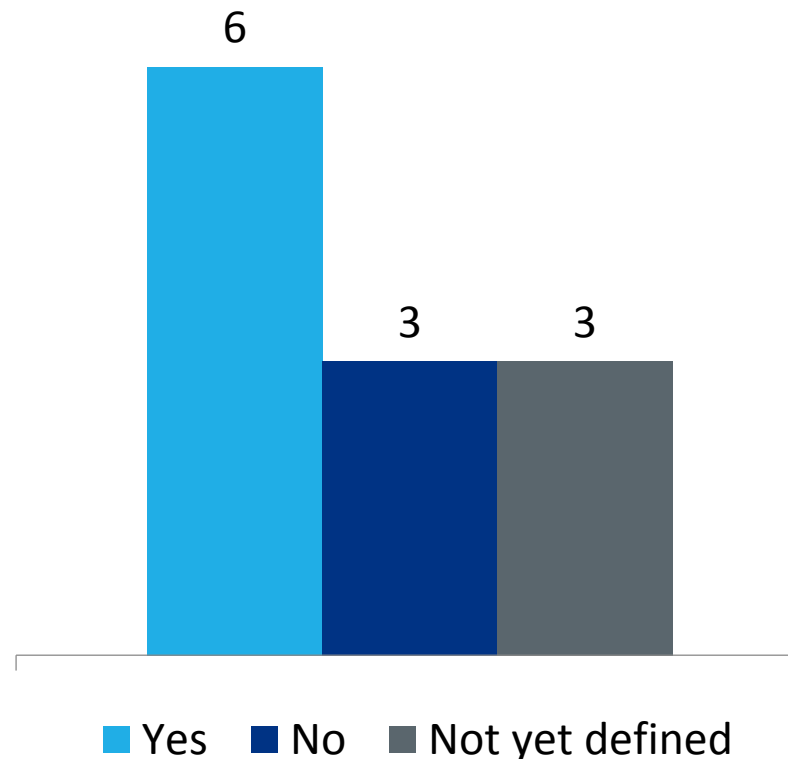
5. How many PRF Inspectors do you foresee will use the THETIS PRF module?



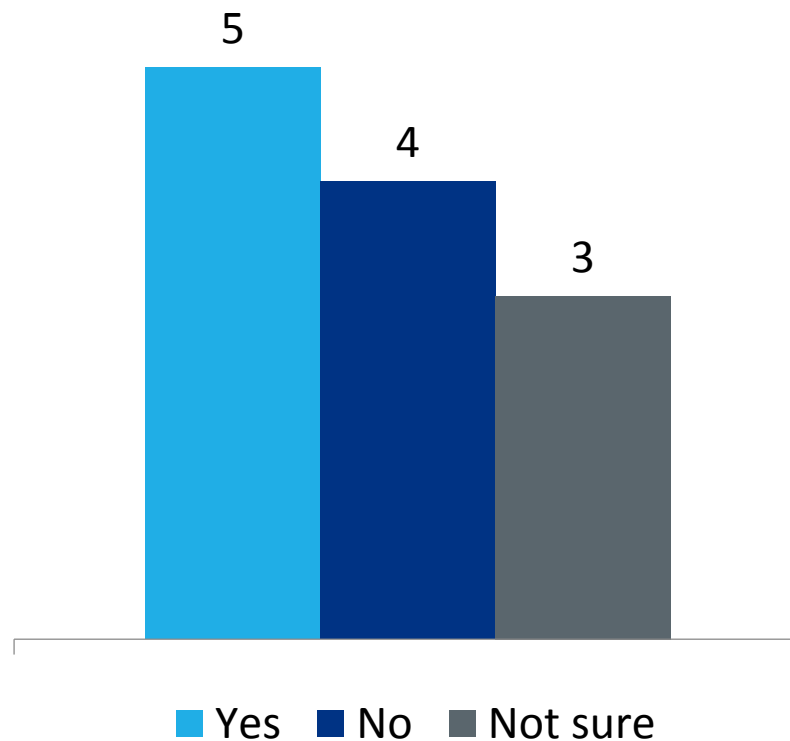
6. Do you consider it important to disclose Inspector identification for registered users?



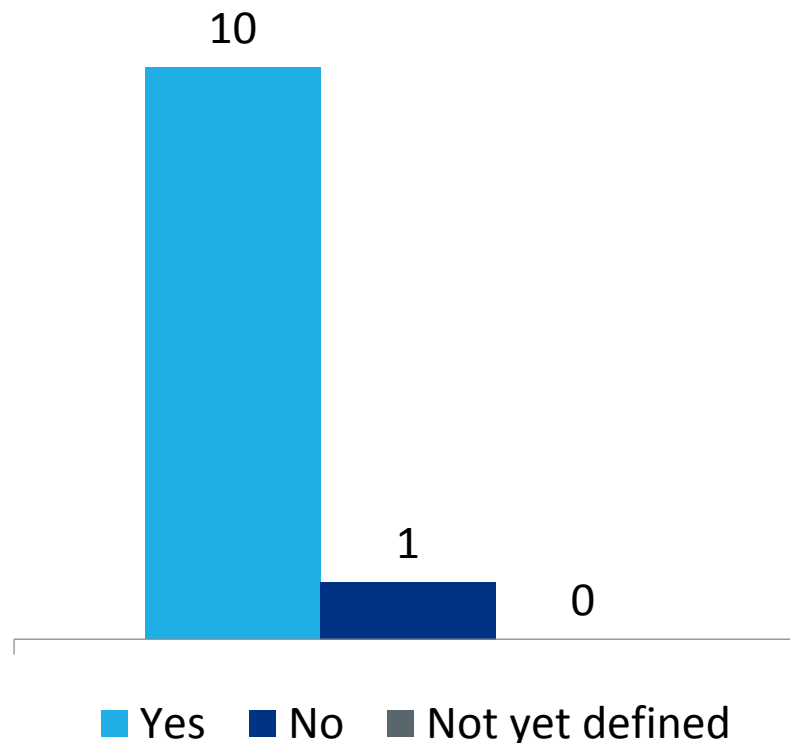
7. Is it required to leave an inspection report on board the ship following a ship inspection under the PRF Directive?



8. *Can you compile a list of Reception Facilities Providers in your ports?*



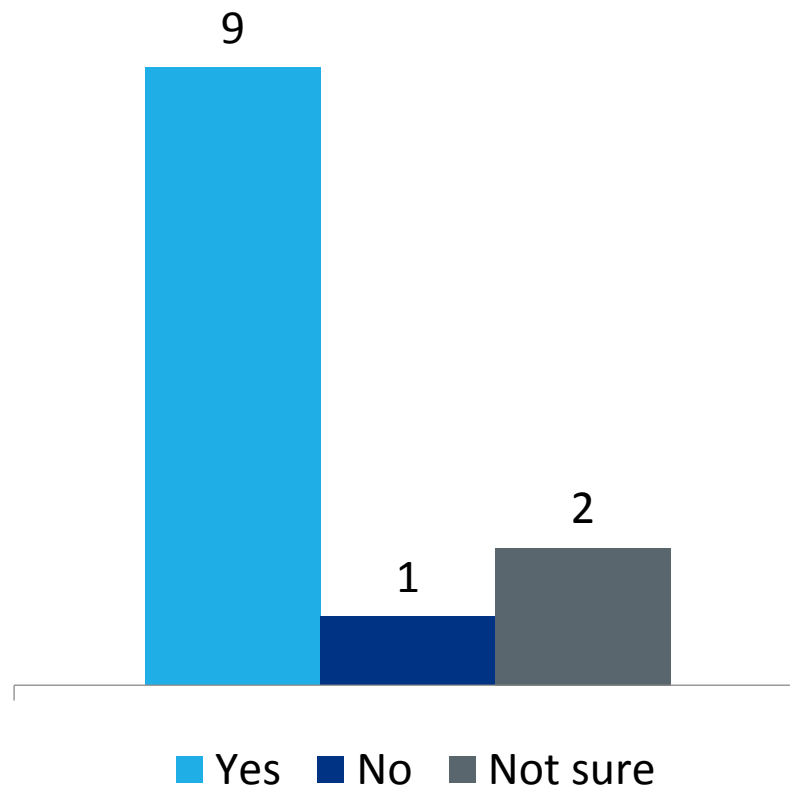
9. Do Reception Facilities Providers require accreditation or authorization in your country?



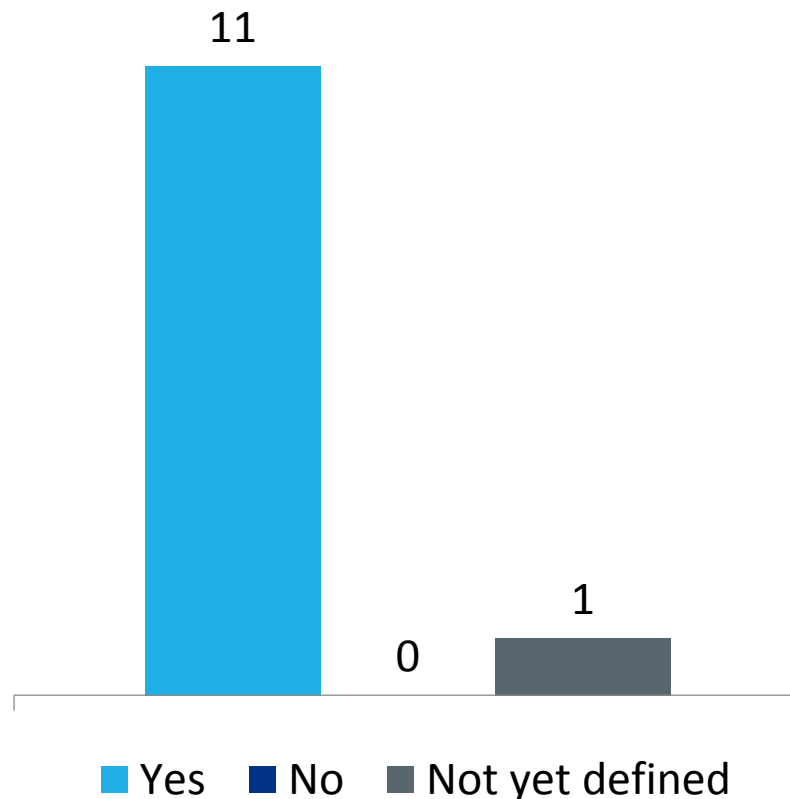
10. How do you target ships for ship inspections under the PRF Directive?

- According to PSC Targeting (4)
- Through National system (3)
- No targeting for PRF inspection (2)
- According to the Directive (1)

11. Have you ever issued an exemption according to Article 9?



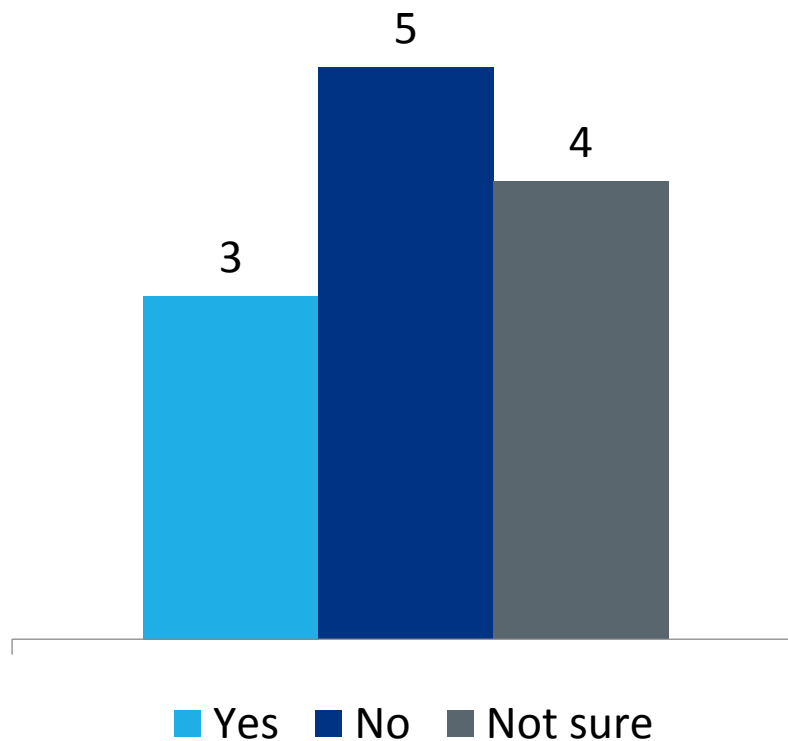
12. Do you have any penalties foresee for ship not complying with PRF requirements?



13. If so, what penalties do you apply?

- Fine (4)
- Prosecution by Minister (1)
- Fine proportional to ship size (1)
- Misdemeanour procedure (1)
- According to national act (1)
- Prison up to 6 months (1)
- Mandatory delivery (1)
- SSN Notification (1)
- Official warning (1)

14. Do you find relevant to be able to inspect your flagged vessels in other MSs ports?



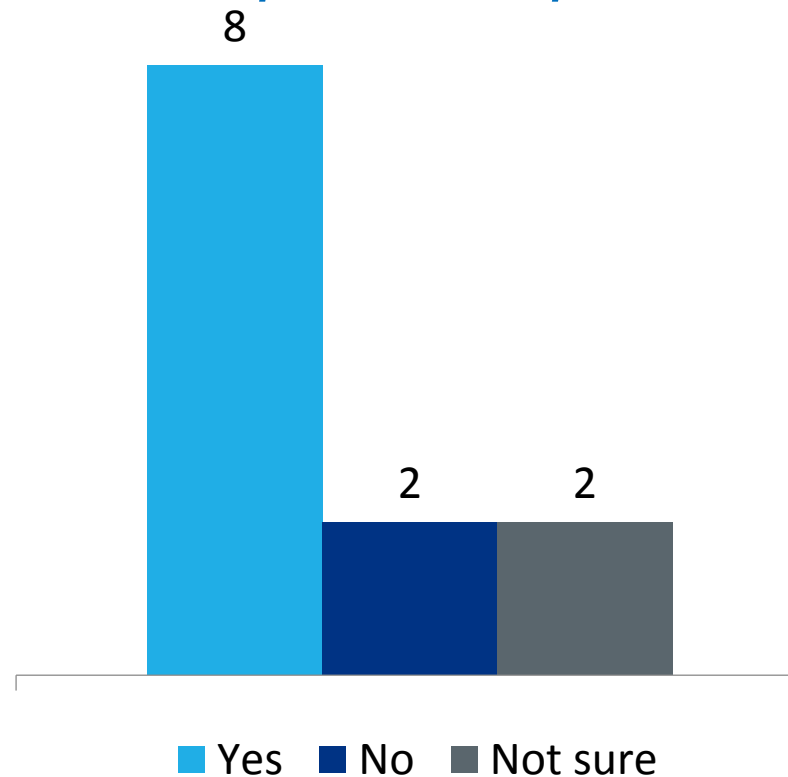
15. What is the most relevant information to be collected during ship inspections under the PRF Directive?

- Storage capacity (5)
- Garbage Record Book (4)
- Waste delivery receipt (3)
- Waste delivered (3)
- Pre-arrival notification (2)
- Amount and type of waste generated (1)
- Ship and Inspection particulars (1)
- Exemption status (1)
- Previous deliveries (1)
- Document control (1)
- Storage systems (1)
- Information of cargo residues (1)

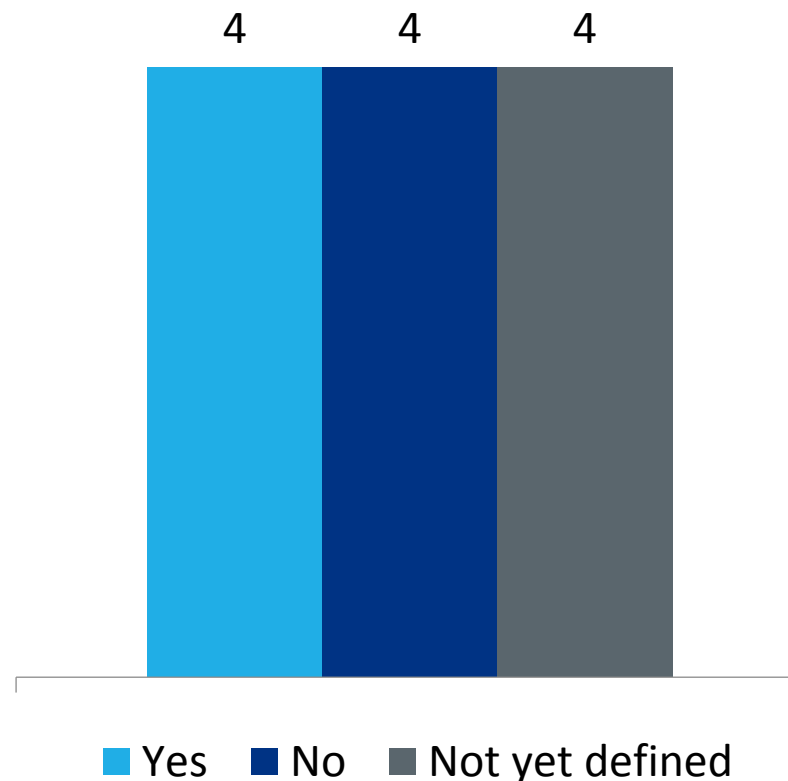
16. What is the most relevant information to be collected related to waste delivery?

- Quantities and categories of waste (4)
- *Refer to Question 15* (4)
- Waste receipt (2)
- Details of last delivery (1)

17. Do you find useful for inspectors to have in the system an easy way to consult Waste Reception and Handling Plans for the current port of inspection?



18. Are you required to produce periodically any report on ship inspections under the PRF Directive?



19. What information from THETIS would be beneficial for your national reports on ship inspections under the PRF Directive?

- Number of inspections (2)
- Ships (2)
- Deficiencies (1)
- PortCall (1)
- Quantities and types of waste (1)
- Agents name (1)
- Waste information (1)

20. Observations

- Need and added value for a THETIS module (1)
- THETIS reporting may increase burden (1)
- How to deal with discharge following inspection? (2)
- Non existence of receipt in some countries (1)
- Lack of responsibility for the PRF in MA

Short term:

1. Compile and process input from the meeting
2. Revise BR's accordingly
3. Draft system specification
4. Initiate developments

Medium term:

5. Call for a validation session *...after summer break*

Business Rules

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Department B: Port State Control

Lisbon / 18-19 March 2015



| # | Rule | Legal Basis | Comment |
|----|--|-------------|---------|
| 8 | PRF information may be collected for any type of ships of any flag, even the flag State, except warships, naval auxiliaries or state owned/operated on government non-commercial service | Art 3 | |
| 10 | THETIS-EU enhancement for PRF inspection does not cover inspection on Ports, just on ships | | |
| 11 | Ships other than Fishing vessels or pleasure yacht (<=12pax) are oblige to report Waste notification trough SSN in 24 Hours (or before departure if voyage is less than 24H) | Art 6 | |

| # | Rule | Legal Basis | Comment |
|----|---|-------------|---------|
| 2 | In these BRs "Waste" means ship-generated waste or cargo residues as per Directive definition | Art 2 | |
| 3 | In these BRs "Regime" refers to a legal framework regulated by EU legislation on which an inspection on board a ships may be required | | |
| 28 | "Reception facility provider" is an entity responsible for the receiving waste | | |
| 29 | "Ship Garbage Record Book" shall be checked during a PRF inspection | | |
| 64 | List of relevant fields to be displayed in the PRF context (Ship and Inspection): - TBD - ... | | |
| 65 | List of relevant fields to be collected and recorded for Waste deliver: - TBD - ... | | |

| # | Rule | Legal Basis | Comment |
|----|--|-------------|---|
| 67 | <p>There are several types of Waste:</p> <p>1) Waste oils:</p> <p>Oily bilge water</p> <p>Oily residues (Sludge)</p> <p>Oily tank washings</p> <p>Others</p> <p>2) Garbage:</p> <p>Plastic</p> <p>Food waste</p> <p>Domestic wastes</p> <p>Incinerator ashes</p> <p>Operations wastes</p> <p>Other</p> <p>3) Sewage</p> <p>4) Cargo residues</p> | | List to be maintained in the Administration |
| 74 | SGW may be recorded in Volume or Weight | | Conversion table shall be available |

| # | Rule | Legal Basis | Comment |
|----|--|-------------|---------|
| 76 | System shall allow to record a list of ships waste management equipment of the following types: - Incinerators - Boilers - Compactors - Sewage treatment plants - ... | | |
| 79 | Waste Reception and Handling Plans can be linked to one or more Ports in a MSs | | |
| 80 | Active Approval report is a document to be provide to the ship stating that the ship has enough capacity to leave the port with SGW on board | | |

| # | Rule | Legal Basis | Comment |
|----|---|-------------|--|
| 4 | Different Regimes may have specific screens but search and selection of ships for inspection should be common to all | | |
| 5 | PRF requirements will be implemented by enhancing THETIS-S. The system shall be renamed to THETIS-EU | | The name of the system should cater for any possible inspection on board ships within the EU legal framework |
| 6 | THETIS-EU should be ready to cater for future Inspection Regimes, other than Sulphur and PRF. | | |
| 7 | In THETIS-EU, ship details tabs and Inspection tabs should be included or not depending on the inspection regime. Configuration is done in the Administration with assignment of Roles. | | configuration does not cater for the fields inside the tab. Just the availability. |
| 14 | Ship particulars and PortCall information in THETIS-EU are fetched from THETIS | | |
| 26 | System records audit information of actions performed by users | | |
| 37 | SRP and Priority shall not be affected by inspections processed in THETIS-EU | | |
| 61 | System shall present a graphical information on level of filling of different waste types through a timeline | | |
| 62 | Waste delivery receipt may be voluntarily manually recorded in the system. System maintains the historical waste receipts | | |
| 63 | System shall display an historical view on waste notifications and receipts from SSN and manually recorded | | |

| # | Rule | Legal Basis | Comment |
|----|--|-------------|---|
| 1 | PRF Inspection is an inspection carried out on board the ship, not necessary related to PSC activities. | | |
| 9 | PRF information may be collected by PSC Officer or non-PSC Officers | | |
| 23 | Each MS can configure different organizations for users | | |
| 25 | New Roles to be introduced for PRF enhancements: -THETISPRFInspector -THETISPRFNationalAdministrator -THETISPRFReader | | New regimes will always require the creation of new Roles for that specific new regime |
| 38 | THETIS-EU will have to cater for additional [600] users as defined by the competent authorities in Member States | | |
| 56 | Sulphur Alerts can only be recorded by users with Sulphur Roles and PRF Alerts with users with PRF Roles | | |
| 66 | When reporting a PSC inspection, if user has PRF Inspector Role, THETIS shall present a button to process/edit PRF inspection on the same call | | To be done for all regimes. May require rethink the actual concept of the button included for Sulphur |

| # | Rule | Legal Basis | Comment |
|----|---|-------------|--|
| 24 | Organizations shall be linked to the inspection Regime to which they are responsible | | |
| 27 | System shall maintain a list of Reception facility provider. Fields should include Code, Name, Address, City, Country and Number | | To be maintained in the system in the same way as ISM companies or Bunker Suppliers or laboratories |
| 30 | Waste delivery shall be linked to a Port Location | | |
| 31 | Different type of inspection shall be configured: 1. Sulphur Inspection 2. PRF Inspection | | Each new regime may cater for at least one new type of inspection |
| 32 | THETIS-EU Type of inspections can be configure in the system, independently of specific Business Logics that may need further development | | |
| 33 | THETIS-EU Type of inspections are linked to a legal text | | |
| 68 | Each type of waste may be configure to allow for further free text clarification | | |
| 77 | All repots/forms generated by the system may be configured for/by each MS by the National and System Administrators. Predefined placeholders shall be established for each report/form | | |
| 78 | System shall allow PRF National and System Administrators to record the following information on Waste Reception and Handling Plans: - free text information for a brief description - URL for further external information - Attach document with size limited - ... | | This will allow users to consult easily WRHP for the current port of inspection TBD how this information can be consulted and by whom |

| # | Rule | Legal Basis | Comment |
|----|--|-------------|---|
| 12 | All the particulars of waste notification delivered by SSN should be consulted in THETIS (All registered users) and in THETIS-EU (PRF Roles) | | Particulars defined in Annex II of Directive 2000/59/EC |
| 13 | Waste notifications may be managed manually in THETIS-EU | | |
| 52 | THETIS Reporting Obligation tab shall include non-compliance of Waste notification | | To be confirmed. Ships with Exemptions are not require to Notify |
| 53 | System shall alert the user in case the waste notification was not received in due time (24 hours OR before previous departure) | | Ships with Exemptions are not require to Notify |
| 81 | System shall make use of Incident Report Message from SSN | | Subject to agreement with Dep C |

| # | Rule | Legal Basis | Comment |
|----|--|--------------------------------------|---|
| 51 | System shall allow to record Alerts for ships under the scope of PRF directive | | |
| 54 | Alerts shall be linked to each inspection regime. Users only get the alerts if they have roles in the inspection regime linked to that alert | | |
| 55 | PRF Alerts messages can be typified as follows: - Fail to comply with RPF reporting obligations - Possible non compliance with PRF directive - Ship sailed without complying with waste delivery - (...) | Art 6 Art 11 Art 12 General | |
| 82 | Alerts shall be triggerd automaticlay for Waste incidents reported trough SSN | | Depending on BR81 TBD what to do with each type of Alert |

| # | Rule | Legal Basis | Comment |
|----|---|-------------|-------------------|
| 39 | Ships may be exempted from the requirements of the PRF directive due if Ship is engage in schedule frequent and regular traffic | Art 9 | |
| 40 | Exemptions for schedule frequent and regular traffic are issued by MSs of the route Ports. One MS exemption does not apply to other MSs | Art 9 | |
| 41 | It is not possible to exempt Ships where the route includes ports outside the EU | | |
| 42 | Ships exempted in a MS shall not be selected for inspection in that port | | |
| 43 | Any ships may be marked as exempted to any regime. A set of predefine options should be available and the historical of changes (who, when , what) should be kept | | |
| 44 | Ships may be marked as exempted by a MS to a ports. | | |
| 46 | System shall be able to generate the Exemption Application Form | | Annex 1 to Part 2 |
| 47 | System shall be able to generate the Exemption Certificate | | Annex 4 to Part 2 |
| 48 | Exemptions have a validation date | | |
| 50 | System shall allow to list all Exemptions granted by MS | Art 9(2) | |

| # | Rule | Legal Basis | Comment |
|----|--|-------------|---|
| 34 | One inspection in THETIS-EU may have more than one type of inspection, depending on how many legal texts the inspection will cover (and the user Roles) | | Needs to be further assessed on the relevance of this requirement |
| 35 | Each type of inspection Regime may have different possible outcomes | | Outcomes are to be managed in the Administration to each Regime |
| 36 | For PRF inspection, the inspection outcomes are: - Inspected - Ship retained in Port (National detention) - ... | Art 11 | |
| 57 | System shall allow to record Waste storage arrangement with indication of capacity and level of filling | | |
| 58 | System shall allow to record quantities and type of waste delivered to Reception facility provider in a specified port. This shall include discharges into the sea | | |
| 59 | System shall easily allow the user to compare the actual delivery with the reported intentions | | |
| 60 | System shall record in the system if all waste has been deliver to port of inspection OR if storage capacity can handle next voyage | Art 7 | |

| # | Rule | Legal Basis | Comment |
|----|--|-------------|---|
| 15 | New set of EU non-compliances, nature of defect, actions and legal references should be available for THETIS-EU regarding the PRF directive. | | |
| 16 | Non-compliances are linked to one or more legal reference (Directive, Regulation etc.). Legal references are managed in the Administration | | This is the equivalent of the field "As referred to in" available in THETIS |
| 17 | Legal references are linked to Inspection Regimes | | |
| 18 | For each non-compliance, the system shall allow to assign the Article of the EU legal text. | | |
| 19 | Each MS can configure their own legal acts AND assign their national legislation articles to each non-compliance | | |

| # | Rule | Legal Basis | Comment |
|----|---|-------------|---------|
| 20 | System shall produce Inspection Reports customized individually to each MS | | |
| 21 | Inspection report may be generated independently of PSC inspection report in case user has both roles | | |
| 22 | Each inspection Regime may have specific Inspection Reports. Configuration of each report is done in the Administration menu | | |

| # | Rule | Legal Basis | Comment |
|----|---|-------------|--|
| 49 | Ships not complying with waste notification shall be identified in the list of selection for inspection (Targeting) | Art 11 | Since SSN v3 notification comes with indication if Waste notification was delivered (WasteDeliveyStatus) |

| # | Rule | Legal Basis | Comment |
|----|--|-------------|---|
| 70 | Mobile Client adaptation to THETIS-EU inspection regimes | | TBD depending on the possible rebuild of the system in a better technology. BR could be limited to the investigation of the best solution and not to develop the solution itself |

| # | Rule | Legal Basis | Comment |
|----|--|-------------|---------|
| 69 | PRF information will be available in a new Jasper domain. Existing Inspection Domain will be enriched with the relevant PRF information (for statistical analysis) | | |

| # | Rule | Legal Basis | Comment |
|----|--|-------------|---|
| 71 | <p>System shall include a calculator for Ship Generated Waste (SGW) for the following categories:</p> <ul style="list-style-type: none"> - Oil Waste - Bilge water quantities - Garbage - Sewage | | This should be something similar to the company performance calculator. Filed are entered/selected in an HTML form and a simple JavaScript formula triggers the result. |
| 72 | Each Ship Generated Waste Calculator (SGWC) will have parameters to be selected/entered in the screen | | To be in line with Guidelines (Annex I to Part 1) |
| 73 | <p>SGWC will indicate the amount of waste generated per day combining with the following information:</p> <ul style="list-style-type: none"> - Storage capacity - Next port of call | | To be assessed the possibility to have information of average days of voyage between ports. To be investigated where this information may be consulted and how. |

Thank you!

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