



## Cyprus Fleet Port State Control Performance 2022-2024



A Strategic Vision for CY Shipping

**Sustainable . Extrovert . Adaptable**

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## Introduction

The Cyprus Shipping Deputy Ministry (SDM) has been proactive in analyzing Port State Control data to enhance fleet performance.

This report provides a comprehensive analysis of Port State Control (PSC) inspection data for the years 2022-2024, highlighting key trends and areas for improvement.

The analysis underscores the importance of targeted interventions to enhance the safety and compliance of Cyprus-flagged vessels. Shipowners and managers are encouraged to focus on the identified areas of concern, particularly regarding vessel age, type, and common deficiency categories. By addressing these issues proactively, the Cyprus fleet can improve its PSC performance and uphold its commitment to maritime safety and quality. This report provides a comprehensive analysis of Port State Control inspection data, highlighting key trends and areas for improvement.

## Methodology

The data for the statistical presentations that follow, are mainly derived from the Port State Control Inspections in USA and the MoUs.

All Port State Control inspections of ships flying the Cyprus flag are required to be communicated to the SDM, irrespective of whether the PSC has issued a decision of prohibition of sailing (detention), pursuant to section 8 of Law 48(I)/2012 which is in line with the EU Directive 2009/21/EC, imposing a specific obligation to the owners/operators of Cyprus ships (SDM Cir.32/2024).

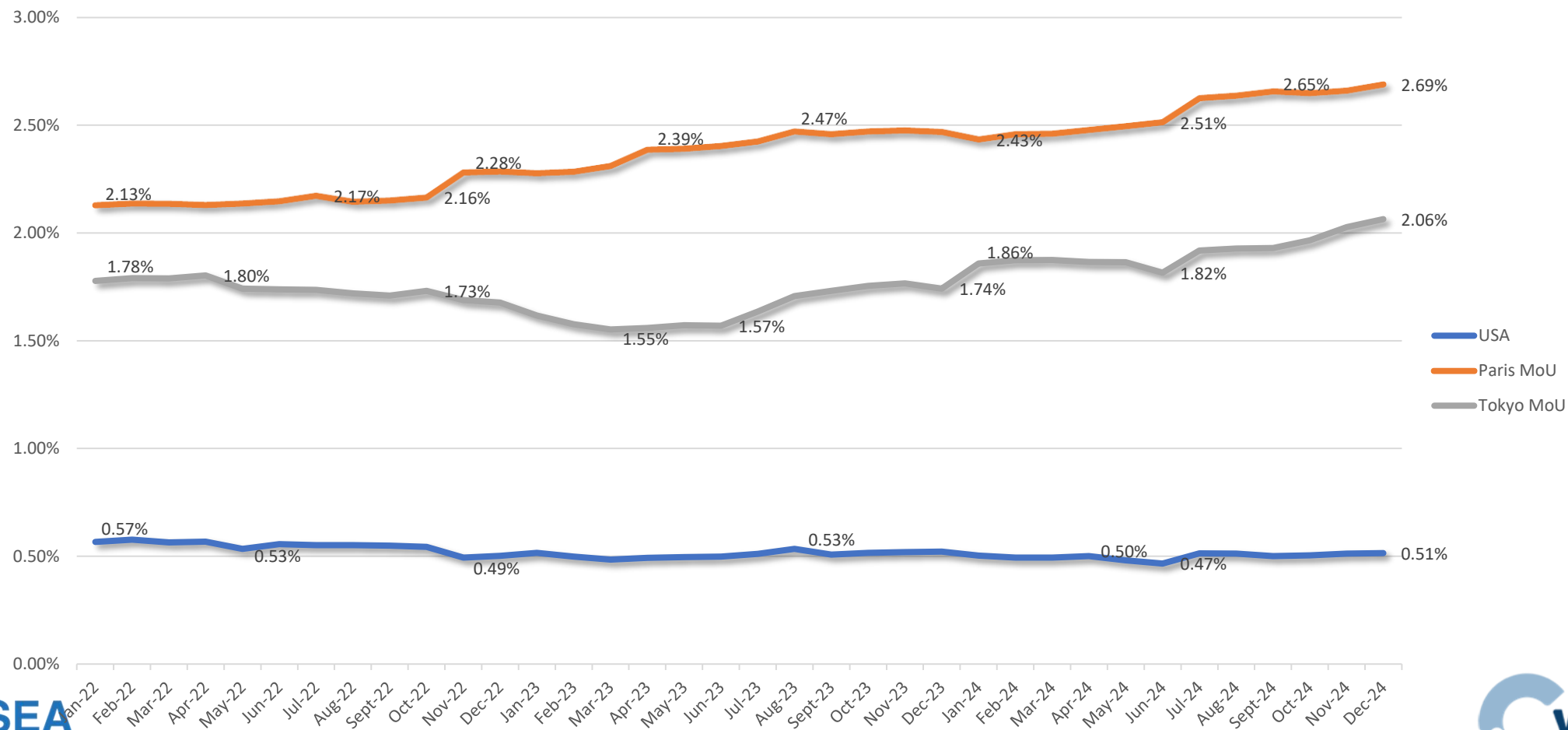
Furthermore, when a ship flying the Cyprus Flag is detained, the master of the ship and or the Company managing the ship are obliged to immediately notify the Shipping Deputy Ministry (SDM), communicating among others, the full copy of the PSC report (Form A and B), pursuant to SDM Cir.26/2016.

A Visualization Technique is used for the representation of information and data collected, in order to allow easily understand of patterns, trends, or outliers in a data set.



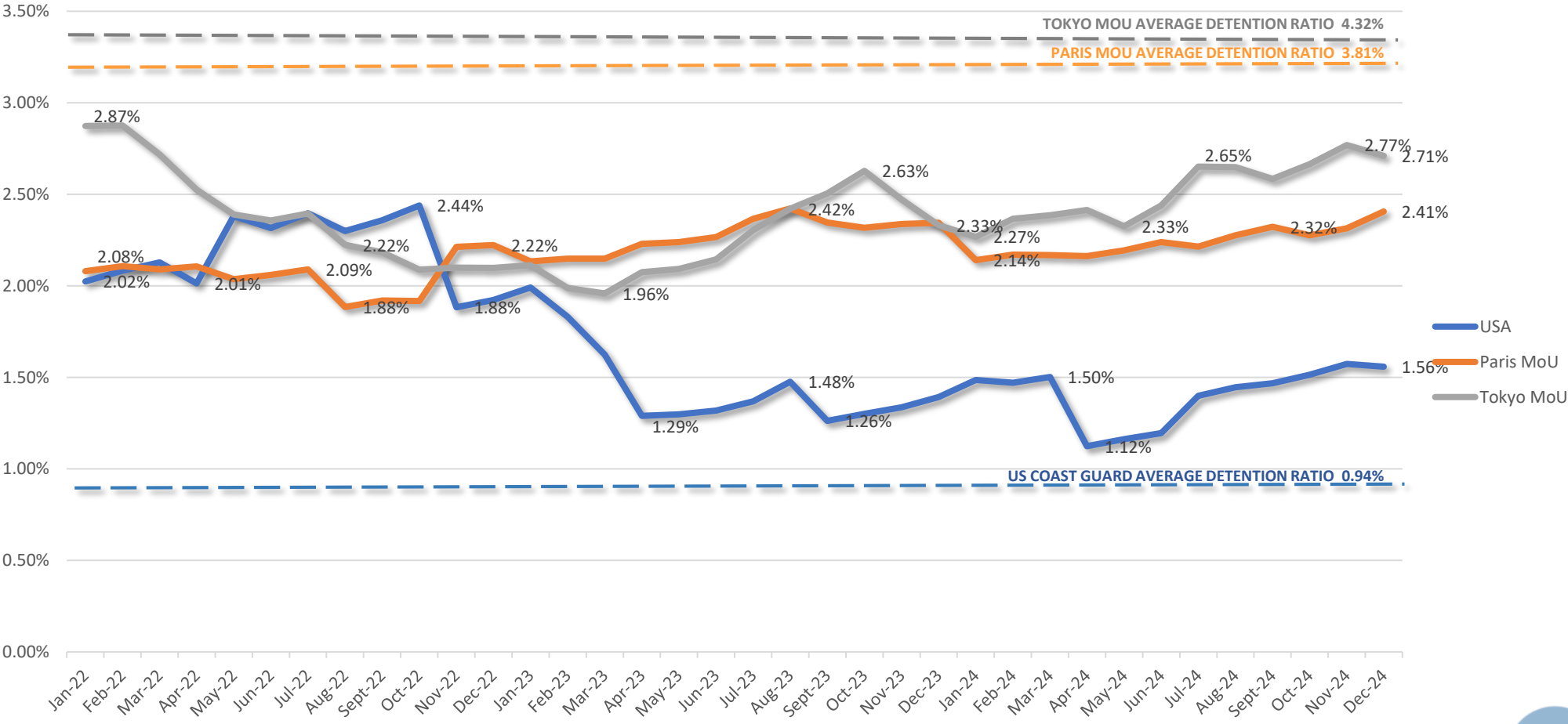
## Statistical Data Analysis

### Deficiency Ratio over 3 Consecutive Years by Month 2022-2024

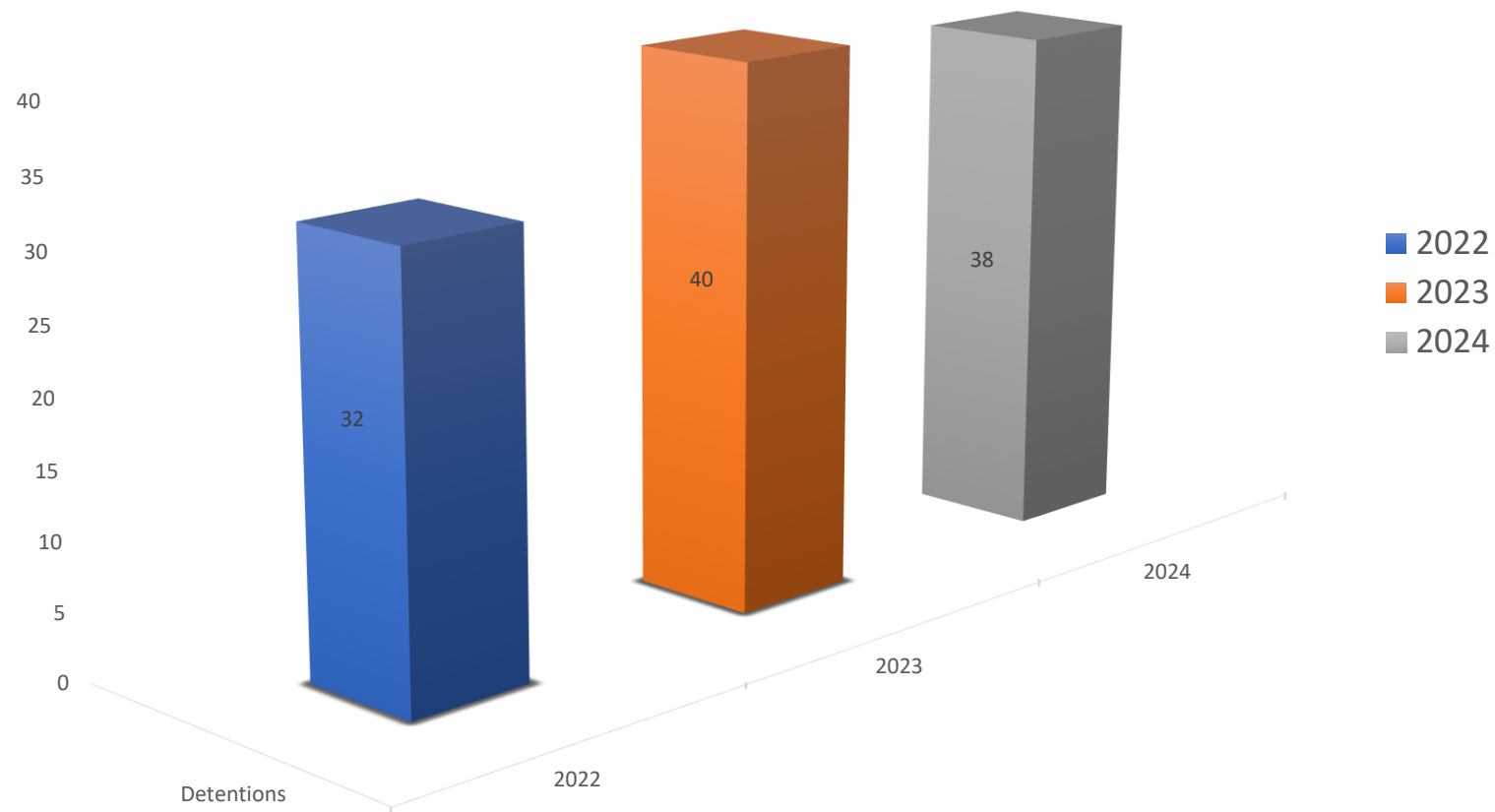




# Detention Ratio over 3 Consecutive Years by Month 2022-2024

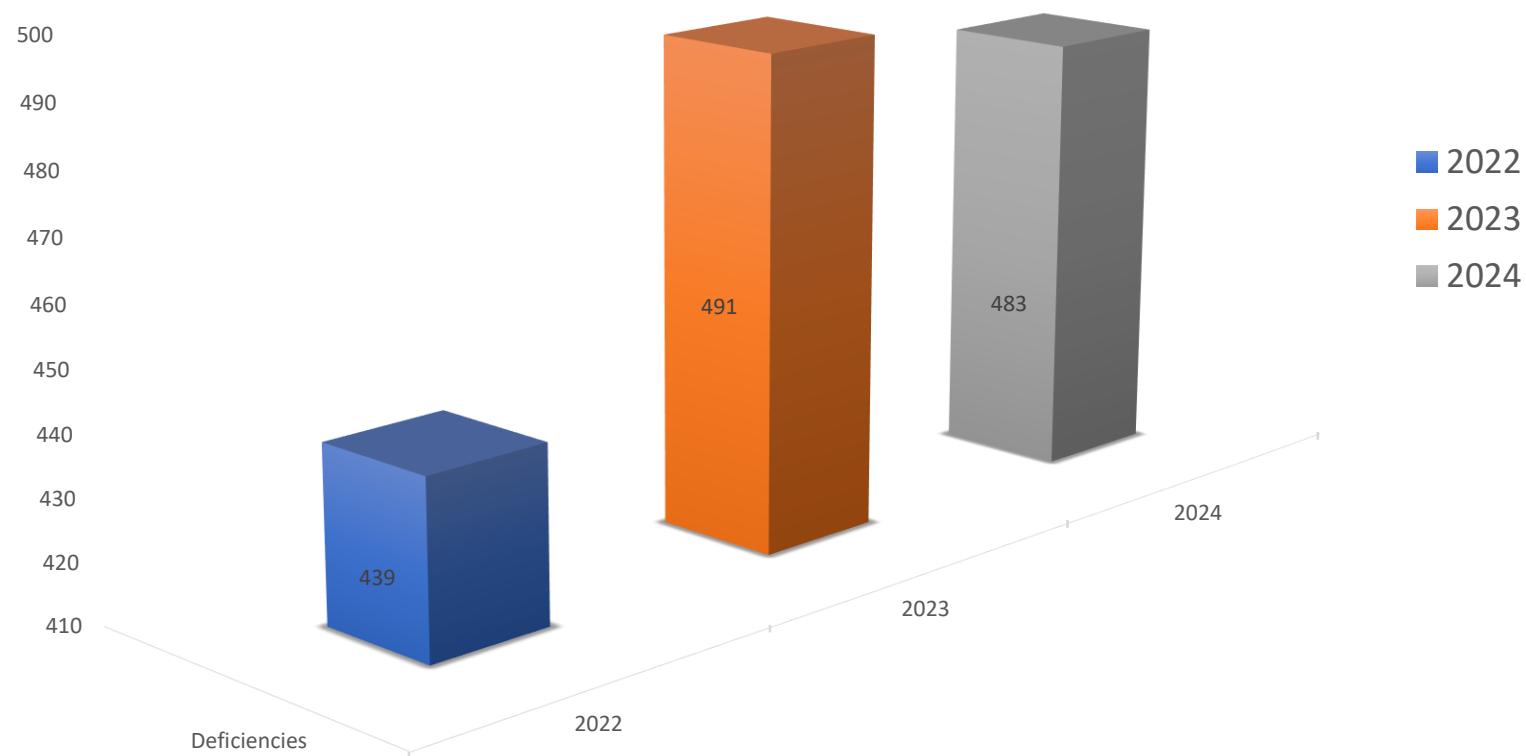


## Detention Distribution by Year 2022-2024

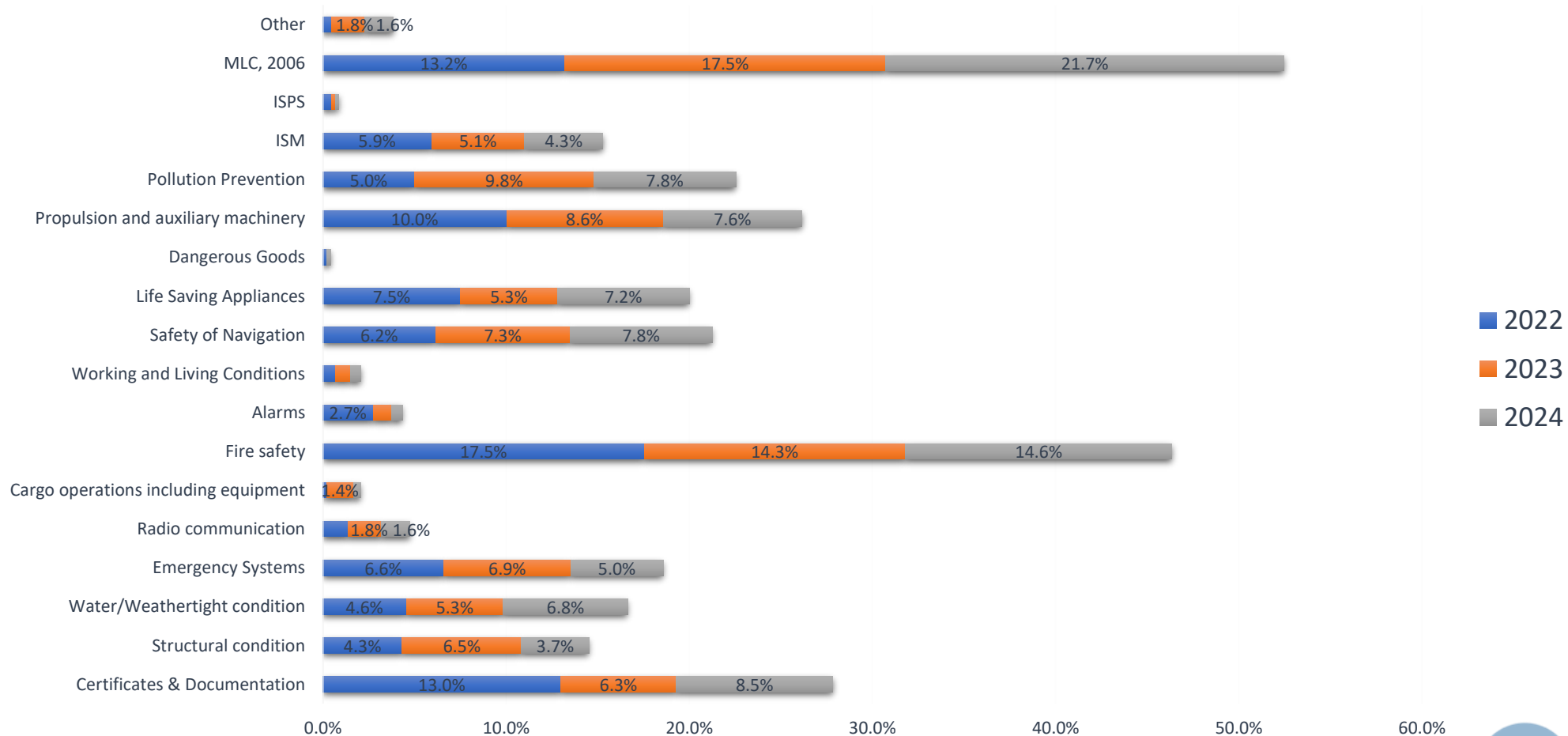




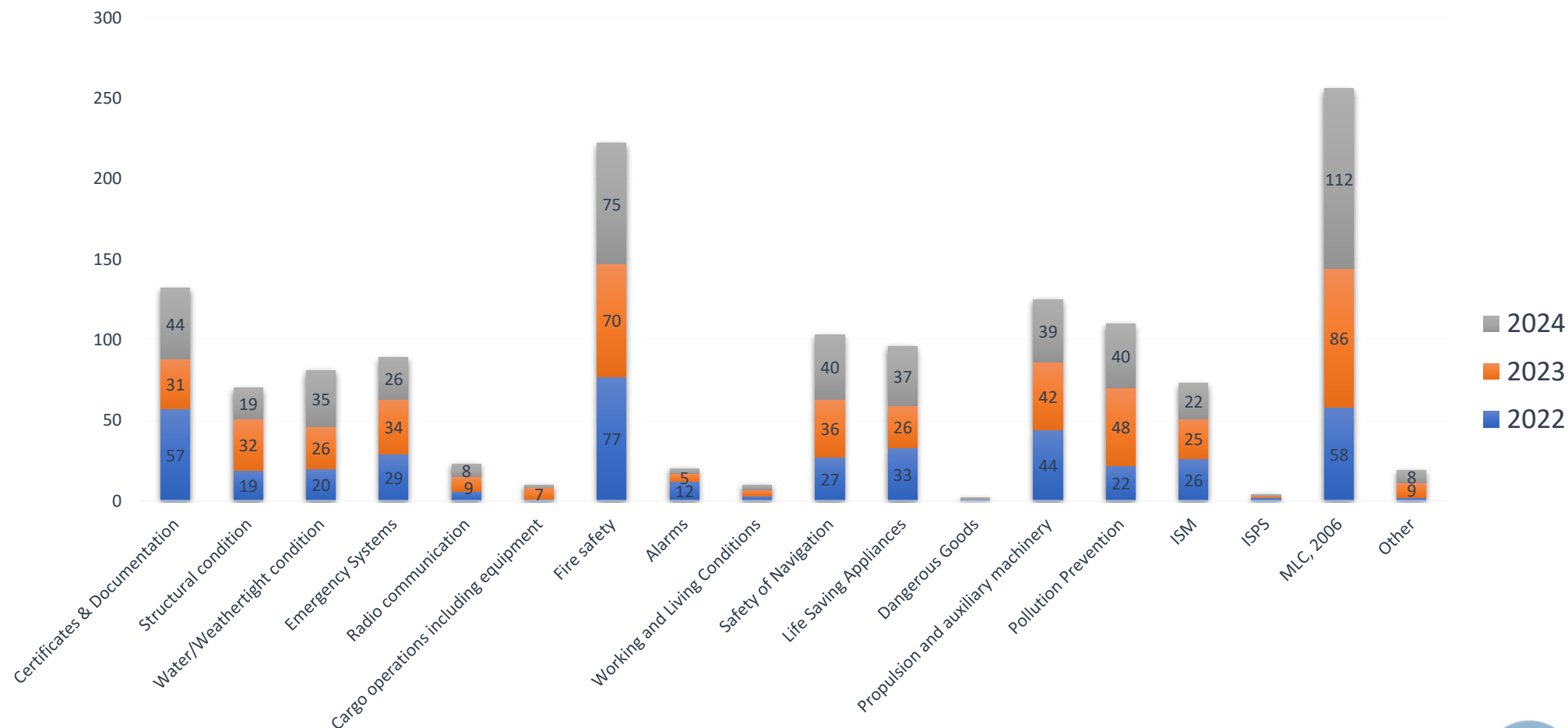
## Detention Deficiencies Distribution by Year 2022-2024



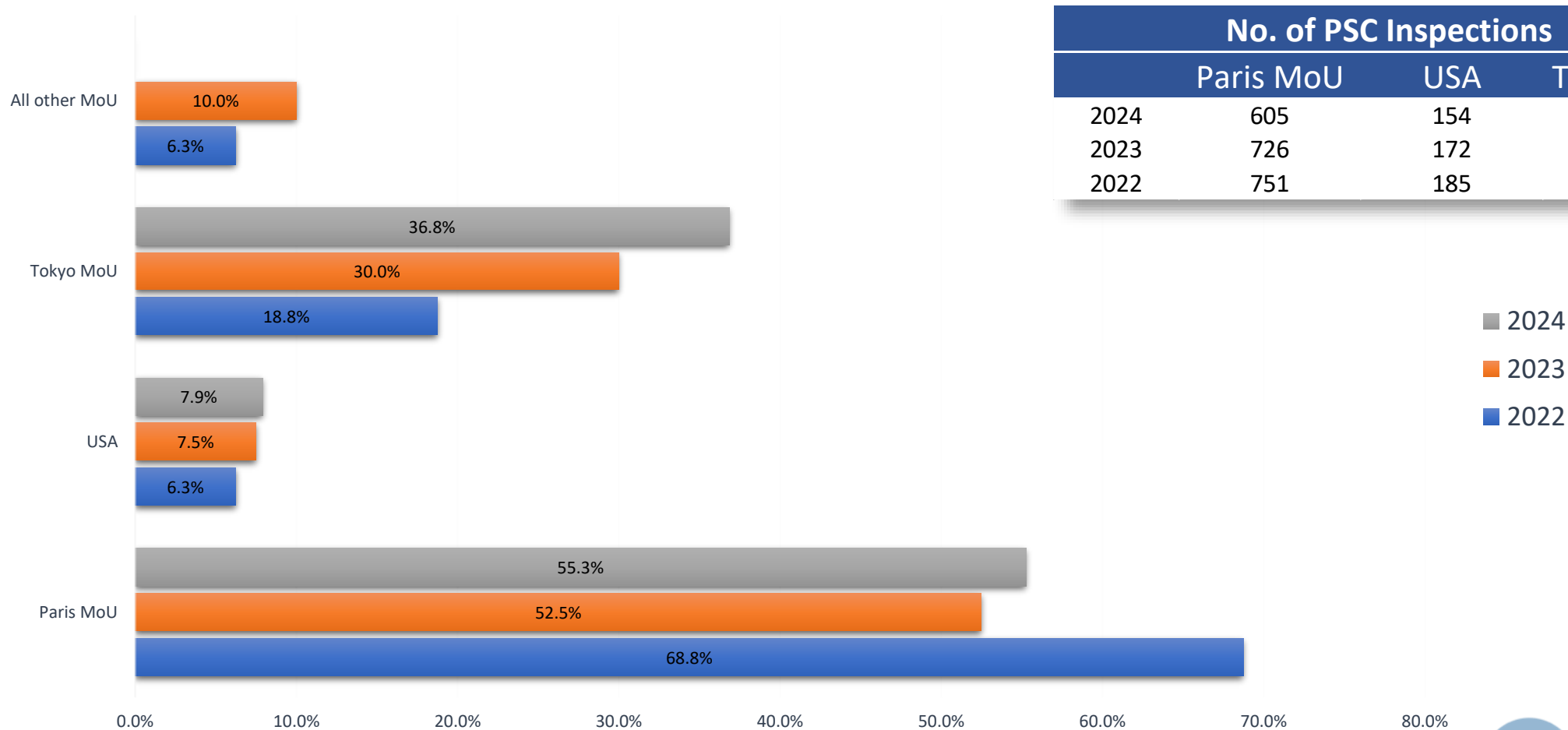
## Detention Deficiencies Share by Category 2022-2024



## Detention Deficiencies Distribution by Category 2022-2024



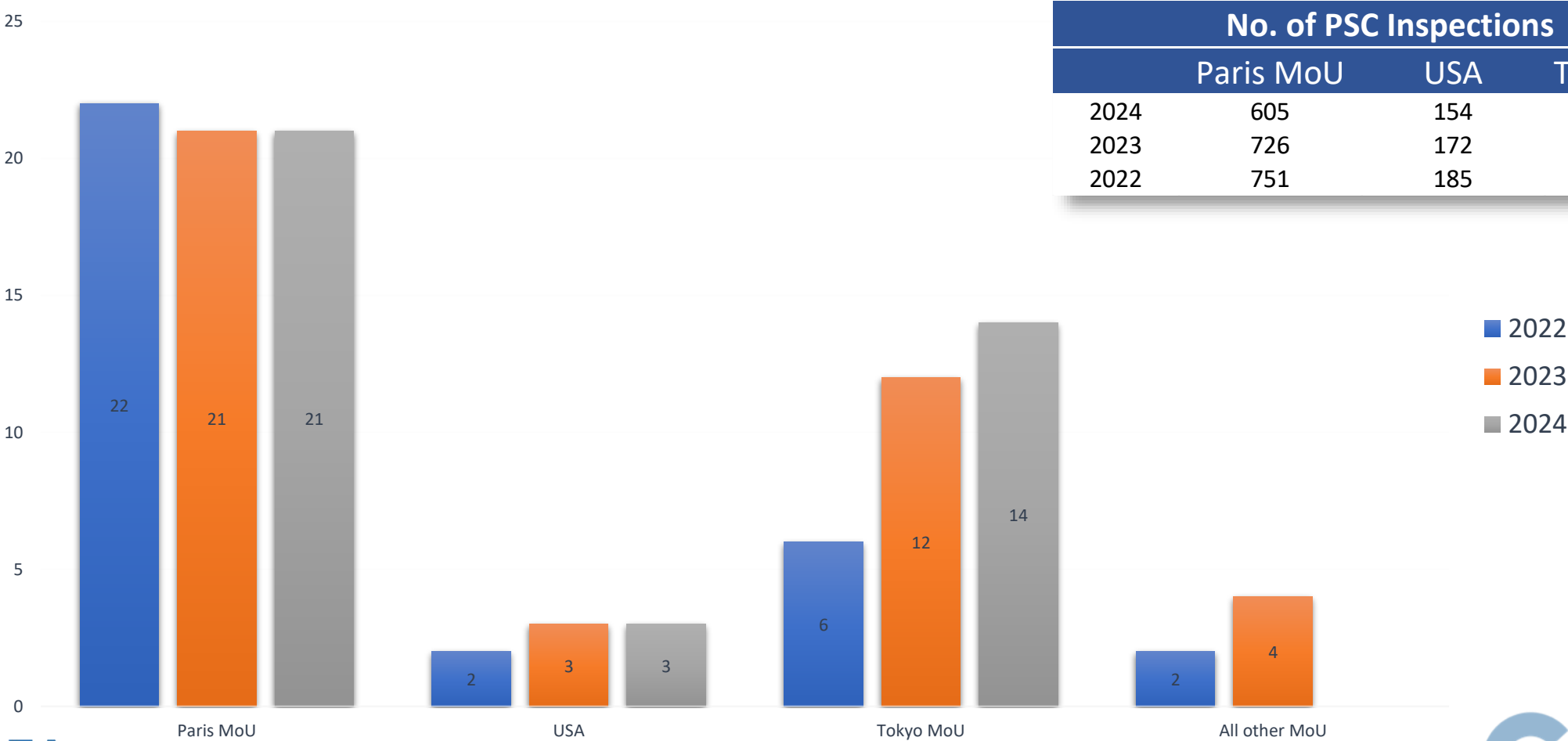
## Detention Share by MoU 2022-2024



| No. of PSC Inspections |           |     |           |
|------------------------|-----------|-----|-----------|
|                        | Paris MoU | USA | Tokyo MoU |
| 2024                   | 605       | 154 | 371       |
| 2023                   | 726       | 172 | 415       |
| 2022                   | 751       | 185 | 357       |

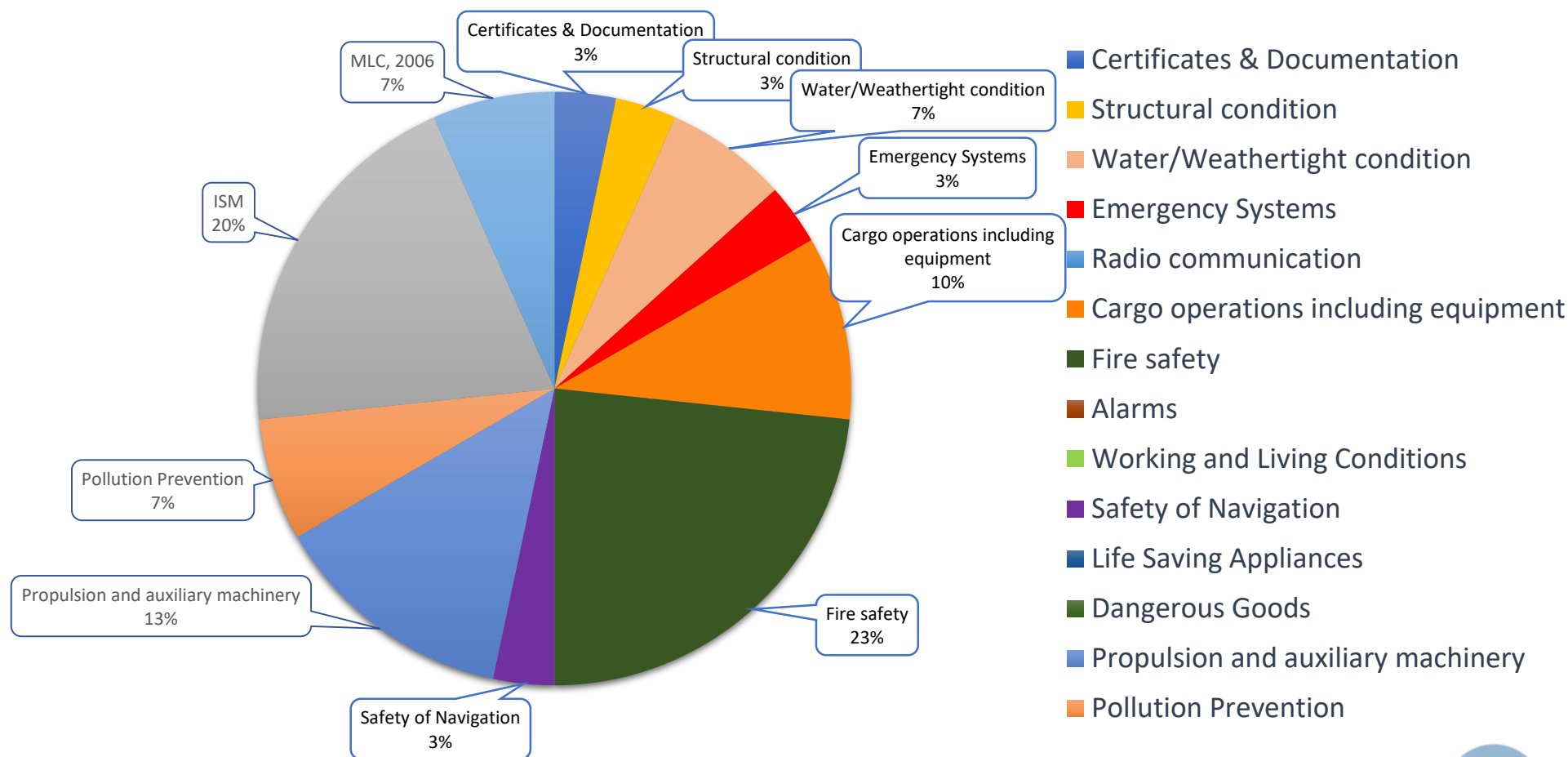


# Detention Distribution by MoU 2022-2024



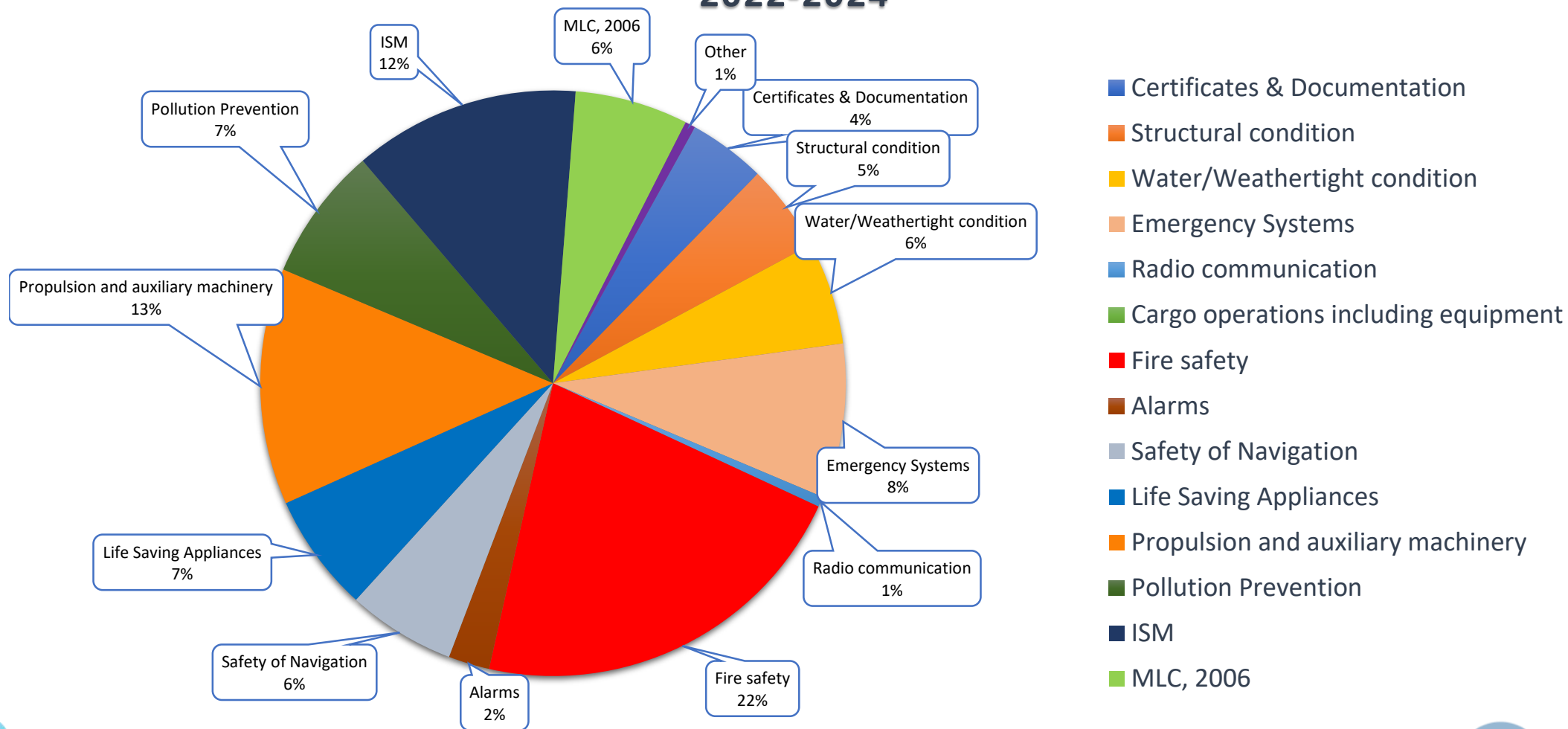
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## Detainable Deficiencies Breakdown in USA 2022-2024



| Detainable Deficiencies by Category in USA 2022-2024      |                                                                                                                                    |                                                                                                                                                                                                                                                                             |
|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Certificates & Documentation                              | Structural Condition                                                                                                               | Water/Weathertight condition                                                                                                                                                                                                                                                |
| Load Lines (including Exemption)                          | Steering gear                                                                                                                      | Doors<br>Ventilators, air pipes, casings                                                                                                                                                                                                                                    |
| Emergency Systems                                         | Cargo operations including equipment                                                                                               | Fire safety                                                                                                                                                                                                                                                                 |
| Emergency source of power - Emergency generator           | Atmosphere testing instrument<br>Other cargo/timber/deck/construction<br>Lashing material                                          | Evaluation of crew performance (fire drills)<br>Fire fighting equipment and appliances<br>Maintenance of Fire protection systems<br>Oil accumulation in engine room<br>Fire control plan<br>Fire detection and alarm system<br>Ready availability of the fighting equipment |
| Safety of Navigation                                      | Propulsion and auxiliary machinery                                                                                                 | Pollution Prevention                                                                                                                                                                                                                                                        |
| Lights, shapes, sound-signals                             | Auxiliary engine<br>Operation of machinery<br>Propulsion main engine                                                               | Oil filtering equipment<br>Alternative arrangements (SOx)                                                                                                                                                                                                                   |
| Pollution Prevention                                      | ISM                                                                                                                                | MLC, 2006                                                                                                                                                                                                                                                                   |
| Oil filtering equipment<br>Alternative arrangements (SOx) | Maintenance of the ship and equipment<br>Shipboard operations<br>Company responsibility and authority<br>ISM, related deficiencies | Sanitary Facilities<br>Steam pipes, pressure pipes, wires (insulation)                                                                                                                                                                                                      |

## Detainable Deficiencies Breakdown in Paris MoU 2022-2024



## Detainable Deficiencies by Category in Paris MoU 2022-2024 (1/4)

| Certificates & Documentation                      | Structural condition                             | Water/Weathertight condition                         |
|---------------------------------------------------|--------------------------------------------------|------------------------------------------------------|
| International Oil Pollution Prevention (IOPP)     | Electrical installations in general              | Covers (hatchway-, portable-, tarpaulins, etc.)      |
| International Air Pollution Cert.                 | Ballast, fuel and other tanks                    | Scuppers, inlets and discharges                      |
| Load Lines (including Exemption)                  | Closing devices/watertight doors                 | Doors                                                |
| Cargo Ship Safety Equipment (including exemption) | Bulk carriers Add.safety measures                | Machinery space openings                             |
| Cargo Ship Safety Radio (including exemption)     | Hull - cracking                                  | Cargo ports and other similar openings               |
| Seafarers' employment agreement (SEA)             | Air intakes machinery and control station spaces | Overloading                                          |
| Number/composition (manning)                      | Steering gear                                    | Manholes/flush scuttles                              |
| Endorsement by flagstate                          | Hull damage impairing seaworthiness              | Railing, gangway, walkway and means for safe passage |
| Certificates for master and officers              | Other (Structural conditions)                    | Ventilators, air pipes, casings                      |
| Shipboard working arrangements                    | Bulkhead-corrosion                               | Windows, sidescuttles and deadlights                 |
| Stability Information Booklet                     |                                                  | Freeboard marks                                      |
| SAR Co-operation plan for pass.ships trad on fixe |                                                  | Cargo & other hatchways                              |
| Emergency Systems                                 | Radio communication                              | Fire safety                                          |
| Fire drills                                       | Operation/maintenance                            | Fire prevention structural integrity                 |
| Emergency towing arrangements and procedures      | Satellite EPIRB 406MHz/1.6GHz                    | Fire pumps and its pipes                             |
| Emergency source of power - Emergency generator   |                                                  | Division - decks,bulkheads and penetrations          |
| Abandon ship drills                               |                                                  | Fixed fire extinguishing installation                |
| Public address system                             |                                                  | Fire doors/openings in fire-resisting divisions      |
| Emergency, lighting,batteries and switches        |                                                  | Ready availability of fire fighting equipment        |
| Enclosed space entry and rescue drills            |                                                  | Fire fighting equipment and appliances               |
| Enclosed space entry and rescue drills            |                                                  | Fire-dampers remote control etc.                     |
|                                                   |                                                  | Jacketed high pressure lines and oil leakage alarm   |

## Detainable Deficiencies by Category in Paris MoU 2022-2024 (2/4)

### Emergency Systems

Crew familiarization with Emergency Systems  
Water level indicator

### Fire safety

Means of escape  
Fixed fire extinguishing installation  
Personal equipment for fire safety  
Evaluation of crew performance (fire drills)  
Remote Means of control (opening,pumps, -  
- ventilation,etc.) Machinery spaces  
Other (fire safety)  
Doors within main

### Alarms

Fire alarm  
Machinery controls alarm  
General alarm  
UMS - alarms

### Working and Living Conditions

Fitness for duty - intoxication

### Safety of Navigation

Gyro compass  
Magnetic compass  
Voyage data recorder (VDR) / Simplified Voyage -  
- data recorder (S-VDR)  
Lights, shapes, sound-signals  
Record of drills and steering gear tests  
Charts  
Nautical publications  
Signalling lamp  
Voyage or passage plan  
Echo sounder  
Bridge operation  
Rudder angle indicator



### Detainable Deficiencies by Category in Paris MoU 2022-2024 (3/4)

| Life Saving Appliances                                                                                                                                                                                                                                                                    | Propulsion and auxiliary machinery                                                                                                                                                                                                                                     | Pollution Prevention                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Maintenance of Life Saving Appliances<br>Lifeboats<br>Rescue boats<br>Immersion suits<br>On board training and instructions<br>Inflatable liferafts<br>Rescue boat inventory<br>Fast Rescue Boats<br>Launching arrangements for rescue boats<br>Launching arrangements for survival craft | Auxiliary engine<br>Bilge pumping arrangements<br>UMS - Ship<br>Operation of machinery<br>Insulation wetted through (oil)<br>Other (machinery)<br>Gauges, thermometers, etc<br>Propulsion main engine                                                                  | 15 PPM Alarm arrangements.<br>Oil filtering equipment<br>Control of discharge<br>Sewage treatment plant<br>Garbage management plan<br>Alternative arrangements (SOx)<br>Sulphur content of fuel used<br>Ballast Water Management System<br>Ballast water discharge violation in port<br>Other (Marpol annex I)<br>Other (Marpol annex IV)<br>Record book of engine parameters |
| ISM                                                                                                                                                                                                                                                                                       | MLC, 2006                                                                                                                                                                                                                                                              | Other                                                                                                                                                                                                                                                                                                                                                                         |
| ISM, related deficiencies                                                                                                                                                                                                                                                                 | Non-payment of wages<br>Wages<br>Provisions quality and nutritional value<br>Sanitary Facilities<br>Cleanliness<br>Cleanliness of engine room<br>Steam pipes, pressure pipes, wires (insulation)<br>Gas instruments<br>Medical Equipment, medical chest, medical guide | Other safety in general                                                                                                                                                                                                                                                                                                                                                       |



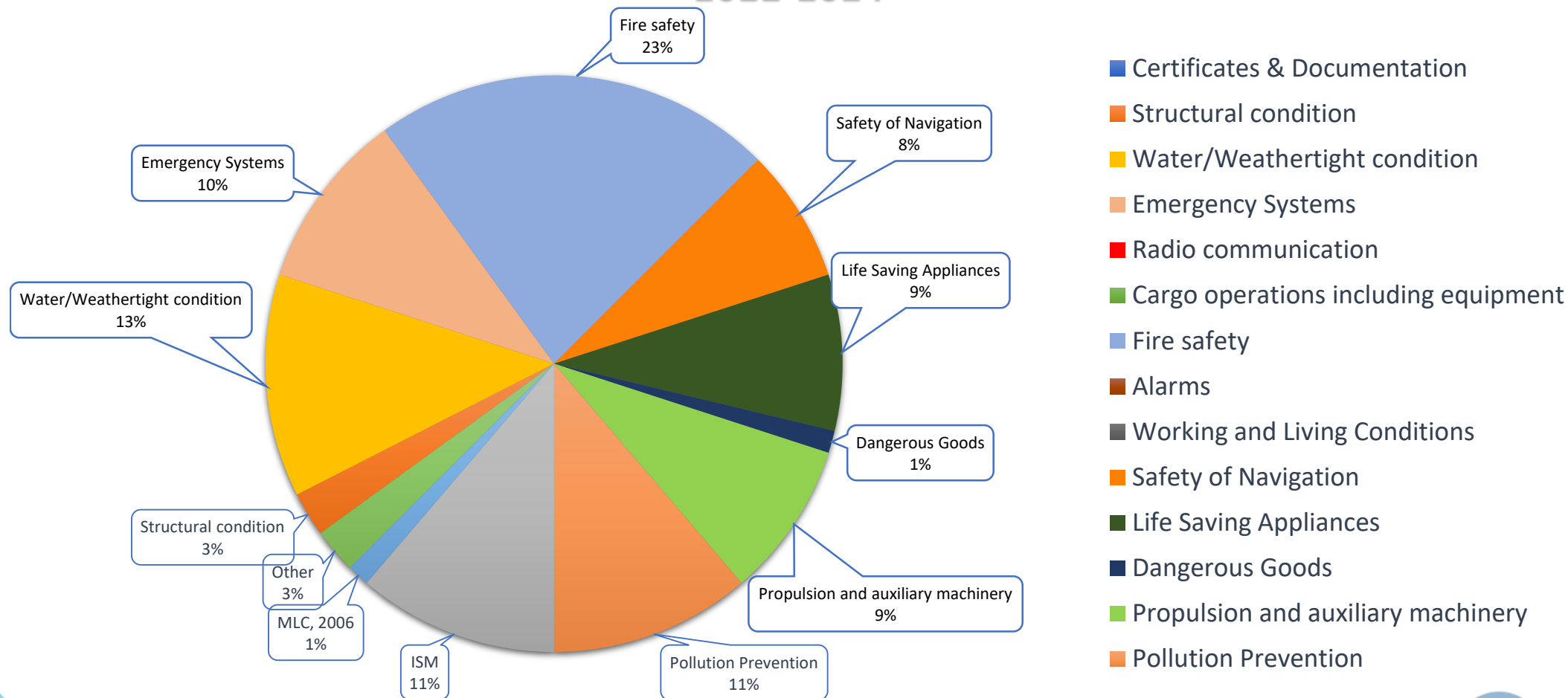
## Detainable Deficiencies by Category in Paris MoU 2022-2024 (4/4)

### MLC, 2006

Anchoring devices  
Dangerous areas  
Fitness for duty-work and rest hours  
Food temperature  
Messroom and recreational facilities  
Electrical

## Detainable Deficiencies Breakdown in Tokyo MoU

2022-2024



**Detainable Deficiencies by Category in Tokyo MoU 2022-2024 (1/2)**

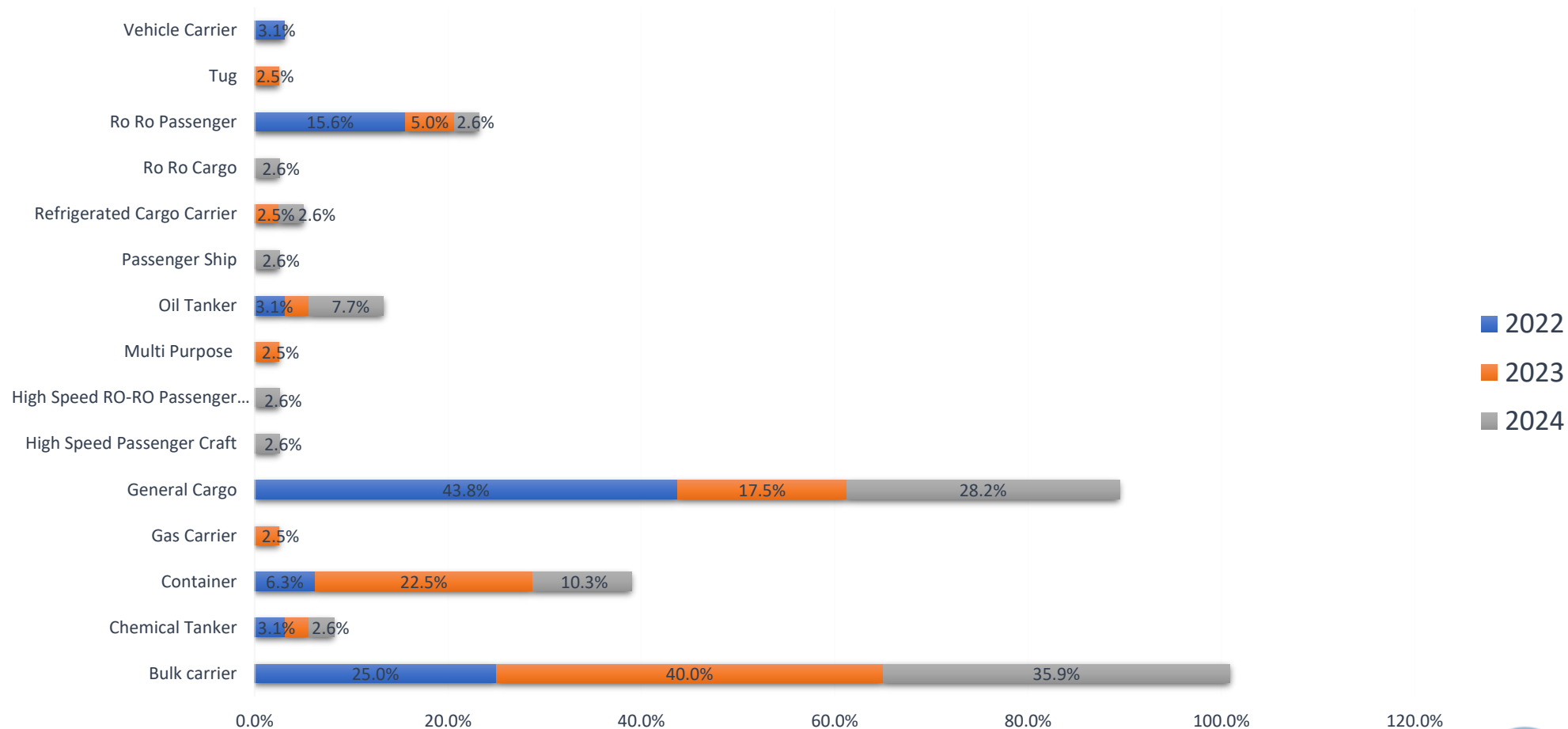
| Structural condition                                                                                                                                                                                                                                                                                                           | Water/Weathertight condition                                                                                                                                                 | Emergency Systems                                                                                                                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Other (Structural conditions)<br>Steering gear                                                                                                                                                                                                                                                                                 | Ventilators, air pipes, casings<br>Scuppers, inlets and discharges<br>Covers (hatchway-, portable-, tarpaulins, etc.)<br>Machinery space openings<br>Cargo & other hatchways | Emergency fire pump and its pipes<br>Crew familiarization with Emergency Systems<br>Emergency source of power - Emergency generator<br>Emergency towing arrangements and procedures<br>Water level indicator |
| Fire safety                                                                                                                                                                                                                                                                                                                    | Safety of Navigation                                                                                                                                                         | Life Saving Appliances                                                                                                                                                                                       |
| Jacketed high pressure lines and oil leakage alarm<br>Fire-dampers<br>Ventilation<br>Fixed fire extinguishing installation<br>Means of escape<br>Fire prevention structural integrity<br>Fire doors/openings in fire-resisting divisions<br>Fire detection and alarm system<br>Fire pumps and its pipes<br>Other (fire safety) | Lights, shapes, sound-signals<br>Electronic charts (ECDIS)<br>Radar<br>Other (navigation)                                                                                    | Launching arrangements for rescue boats<br>Embarkation arrangement survival craft<br>Operational readiness of lifesaving appliances<br>Lifeboats                                                             |

### Detainable Deficiencies by Category in Tokyo MoU 2022-2024 (2/2)

| Dangerous Goods                                                                                                                 | Propulsion and auxiliary machinery                                                                    | Pollution Prevention                                                                                                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Instrumentation                                                                                                                 | Propulsion main engine<br>Auxiliary engine<br>Gauges, thermometers, etc<br>Bilge pumping arrangements | 15 PPM Alarm arrangements.<br>Oil filtering equipment<br>Other (Marpol annex I)<br>Sewage treatment plant<br>Ballast Water Management System<br>Sewage comminuting and disinfecting system |
| ISM                                                                                                                             | MLC, 2006                                                                                             | Other                                                                                                                                                                                      |
| Documentation-ISM<br>ISM, related deficiencies<br>Maintenance of the ship and equipment<br>Company responsibility and authority | Other (Health protection, medical care)                                                               | Other (SOLAS operational)                                                                                                                                                                  |

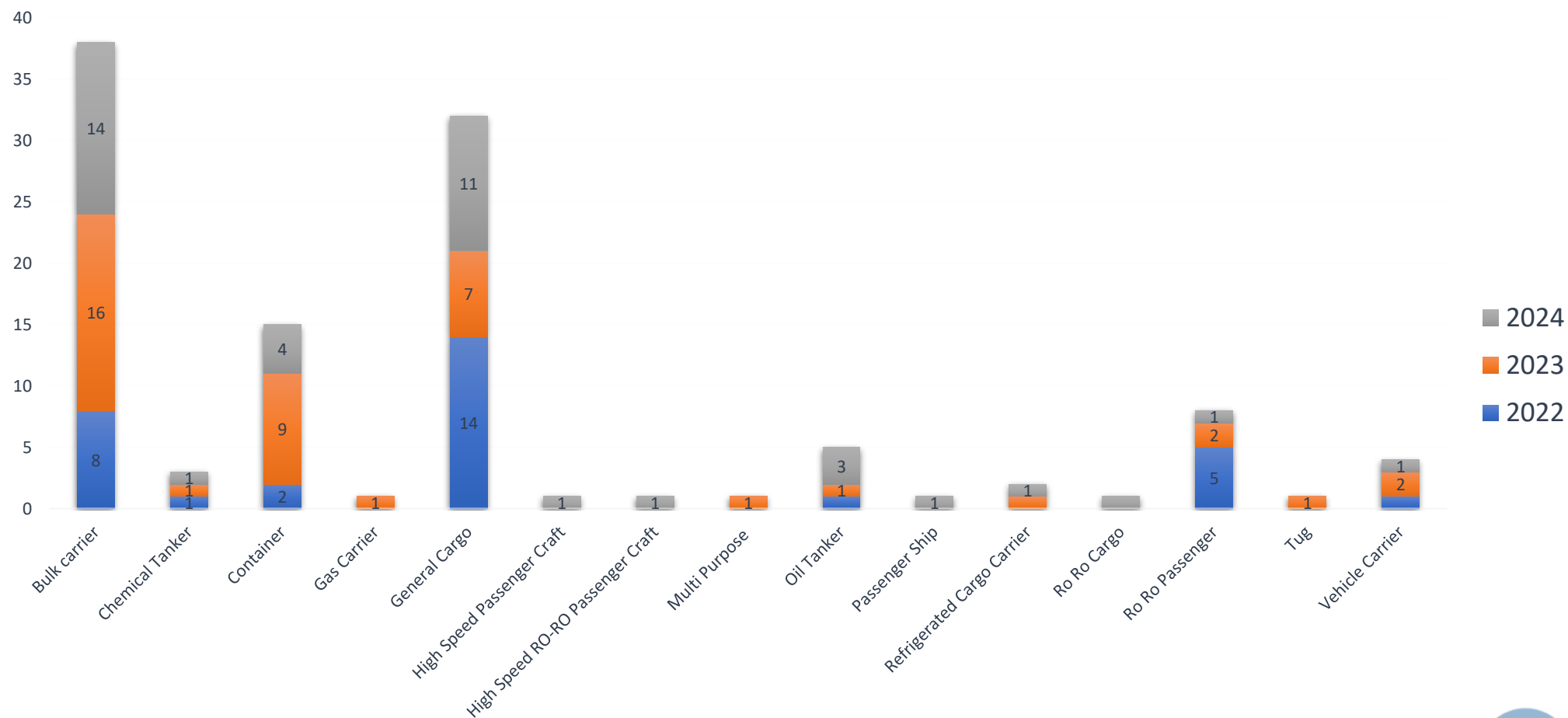


## Detention Share by Ship Type 2022-2024



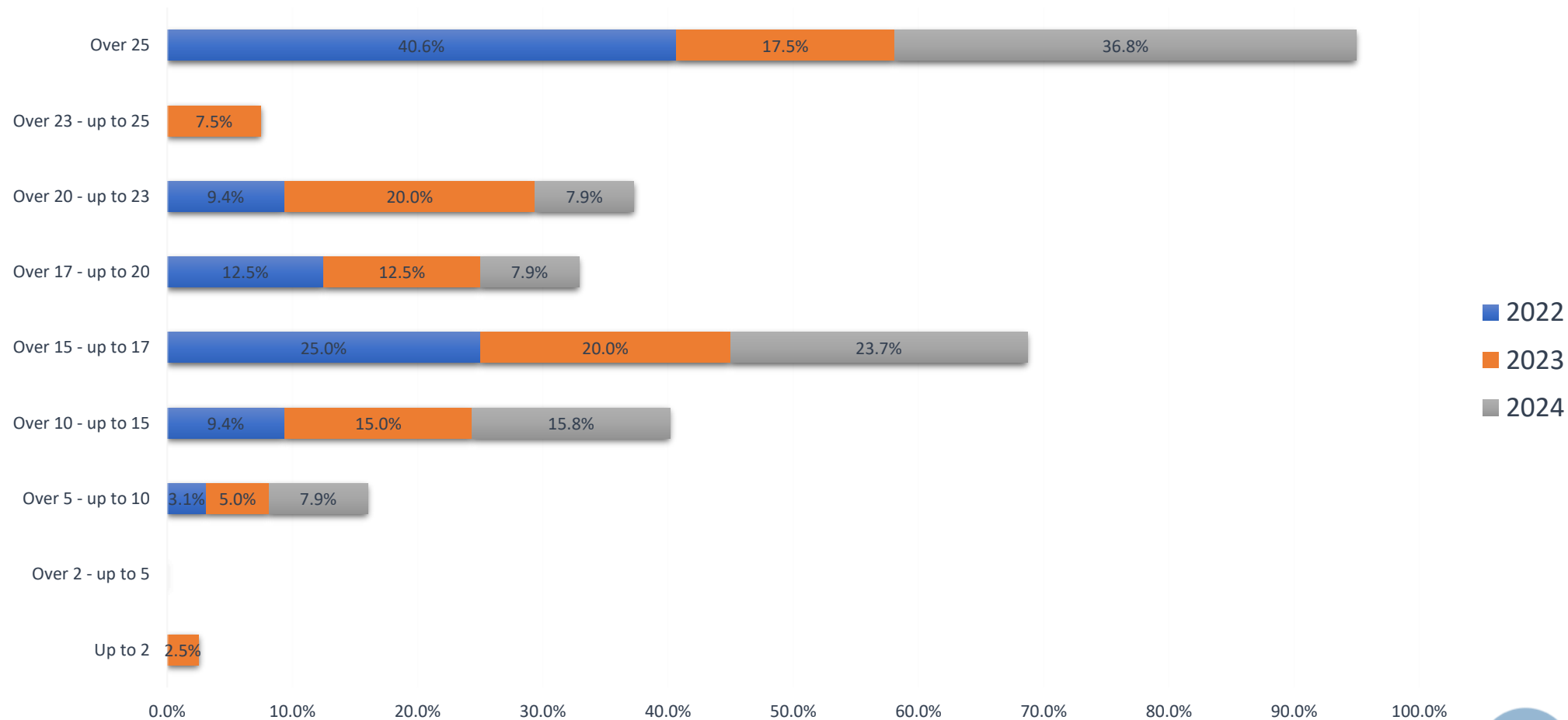


## Detention Distribution by Ship Type 2022-2024



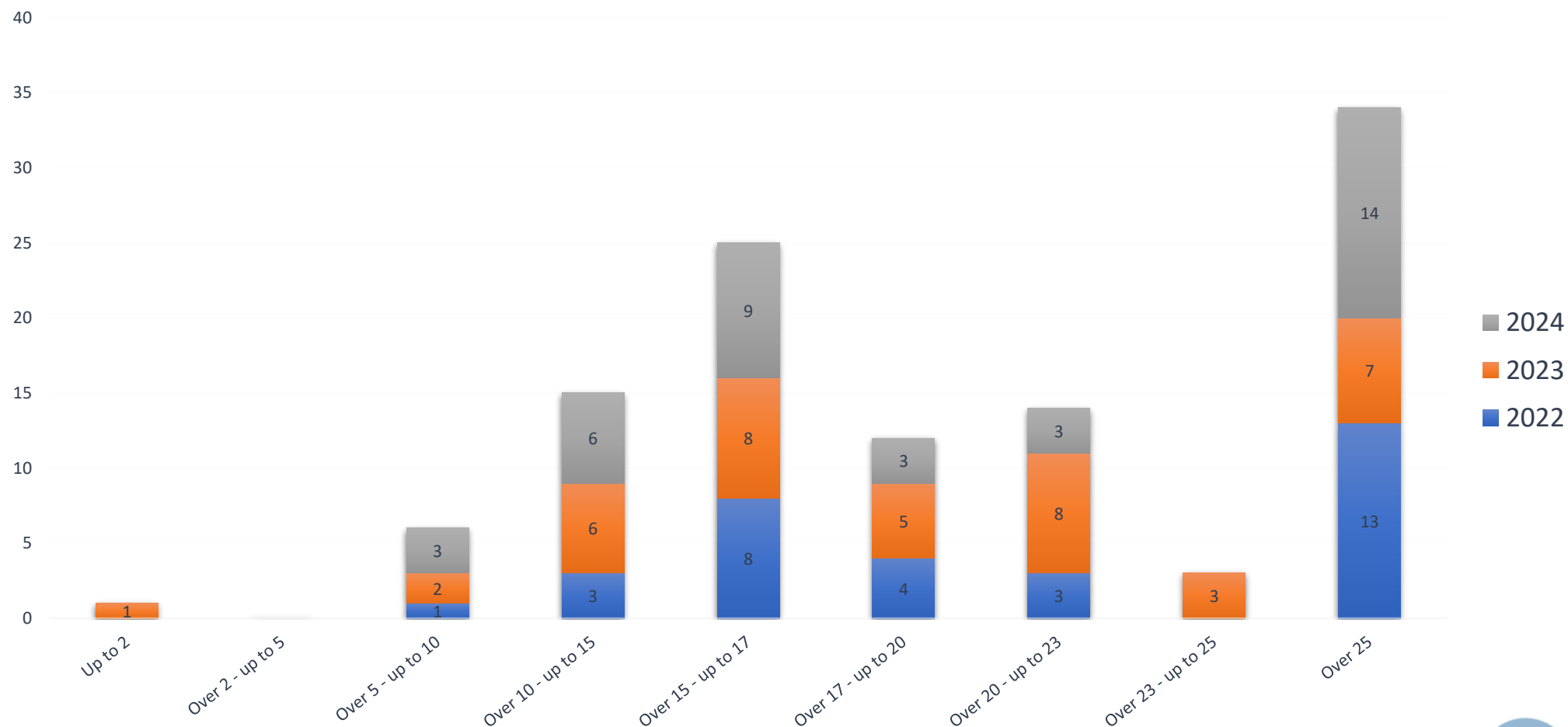


## Detension Share by Ship Age 2022-2024



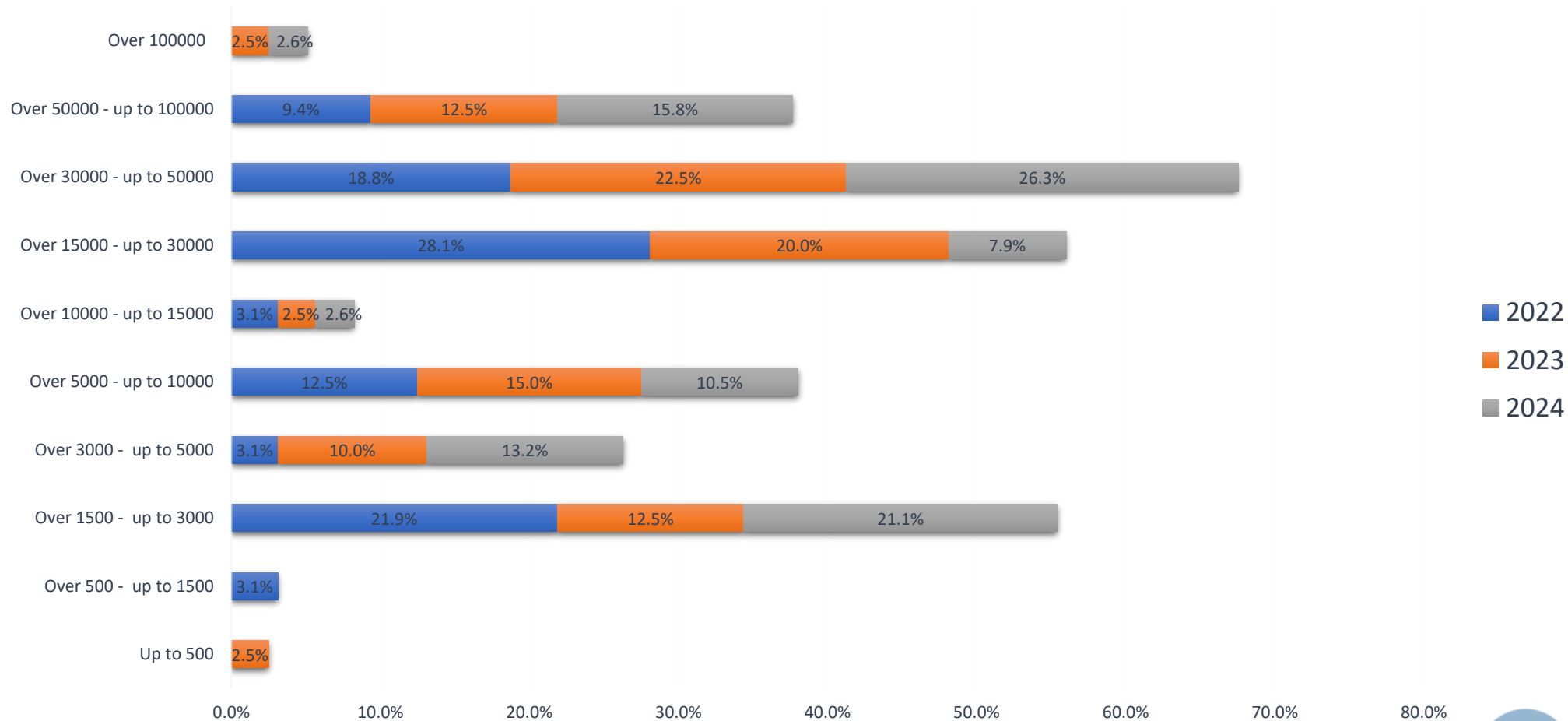


## Detention Distribution by Ship Age 2022-2024



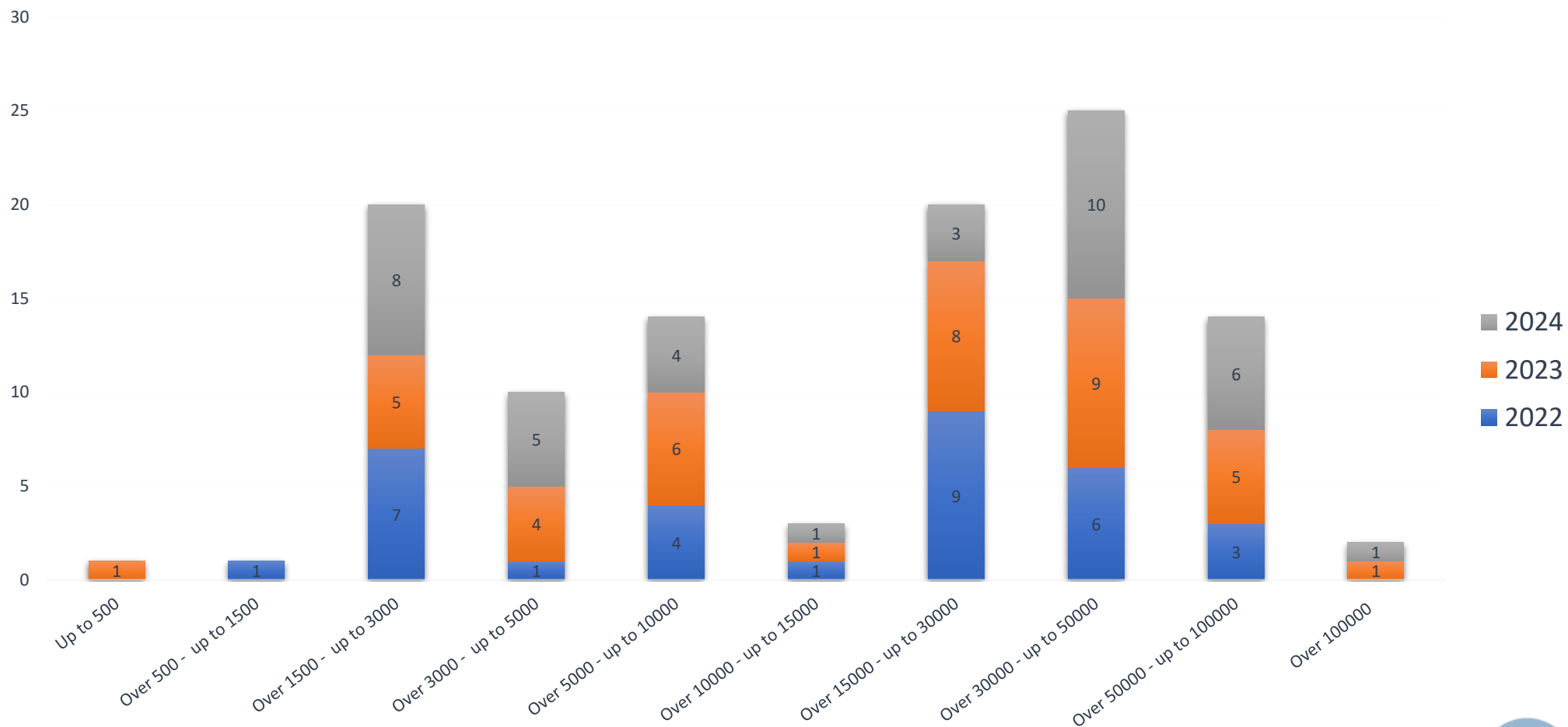


## Detention Share by Size (Gross Tonnage) 2022-2024

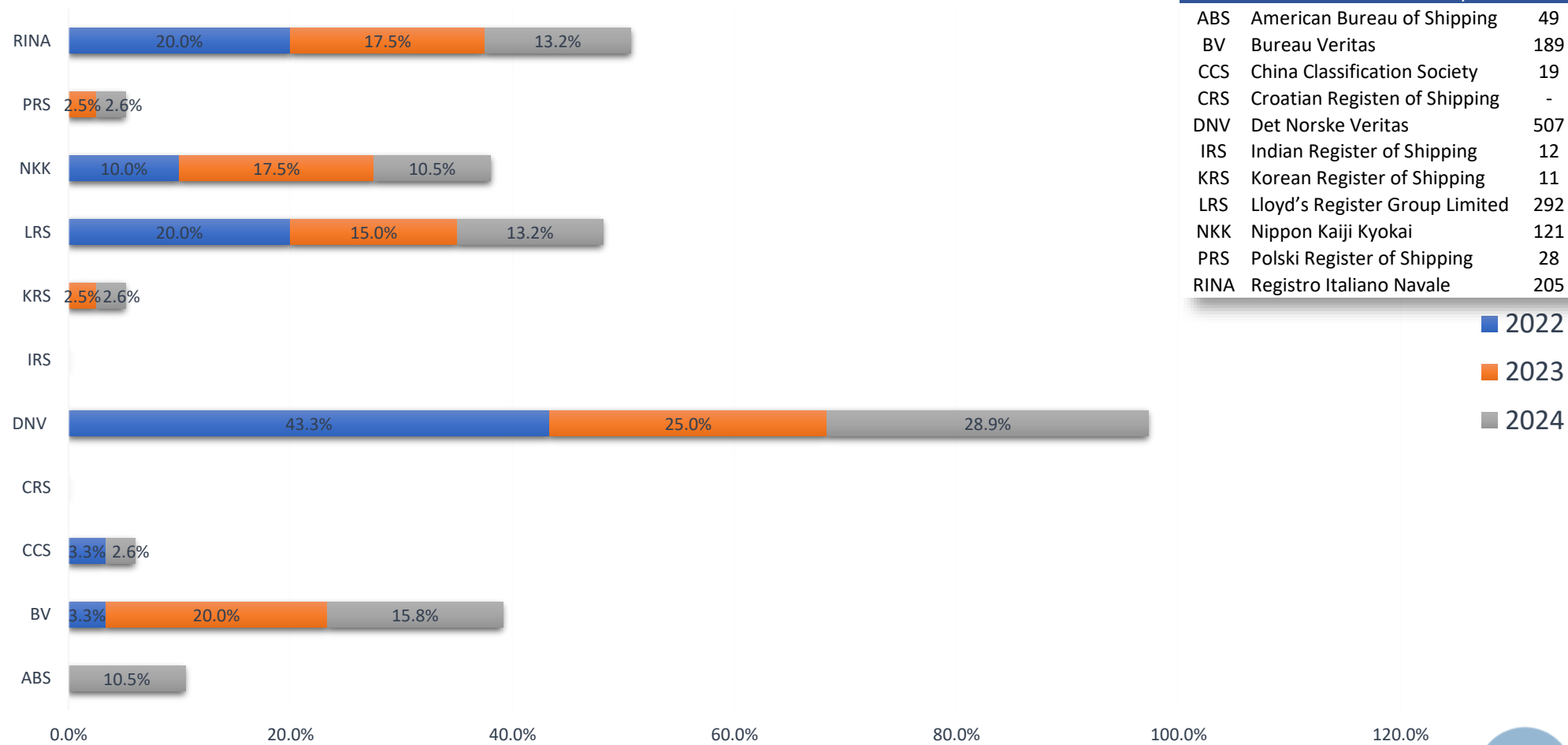




## Detentions Distribution by Size (Gross Tonnage) 2022-2024



## Detention Share by Classification Society 2022-2024



| No. of PSC Inspections by Class. Society |                                |      |      |      |
|------------------------------------------|--------------------------------|------|------|------|
| Abbrev.                                  | Classification Society         | 2022 | 2023 | 2024 |
| ABS                                      | American Bureau of Shipping    | 49   | 51   | 68   |
| BV                                       | Bureau Veritas                 | 189  | 253  | 259  |
| CCS                                      | China Classification Society   | 19   | 21   | 26   |
| CRS                                      | Croatian Register of Shipping  | -    | -    | -    |
| DNV                                      | Det Norske Veritas             | 507  | 564  | 505  |
| IRS                                      | Indian Register of Shipping    | 12   | 2    | 3    |
| KRS                                      | Korean Register of Shipping    | 11   | 12   | 16   |
| LRS                                      | Lloyd's Register Group Limited | 292  | 323  | 306  |
| NKK                                      | Nippon Kaiji Kyokai            | 121  | 171  | 150  |
| PRS                                      | Polski Register of Shipping    | 28   | 32   | 32   |
| RINA                                     | Registro Italiano Navale       | 205  | 234  | 218  |

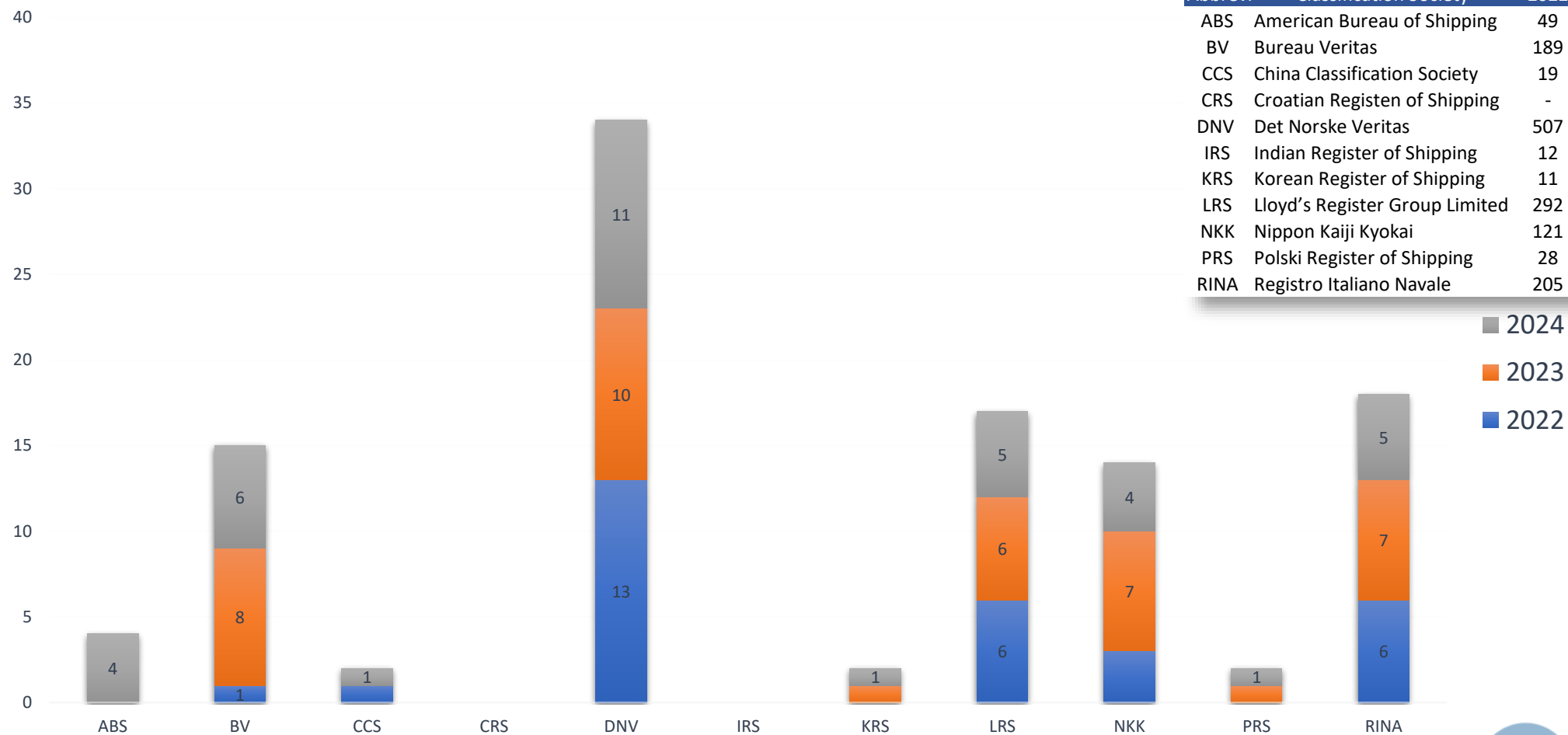
2022

2023

2024

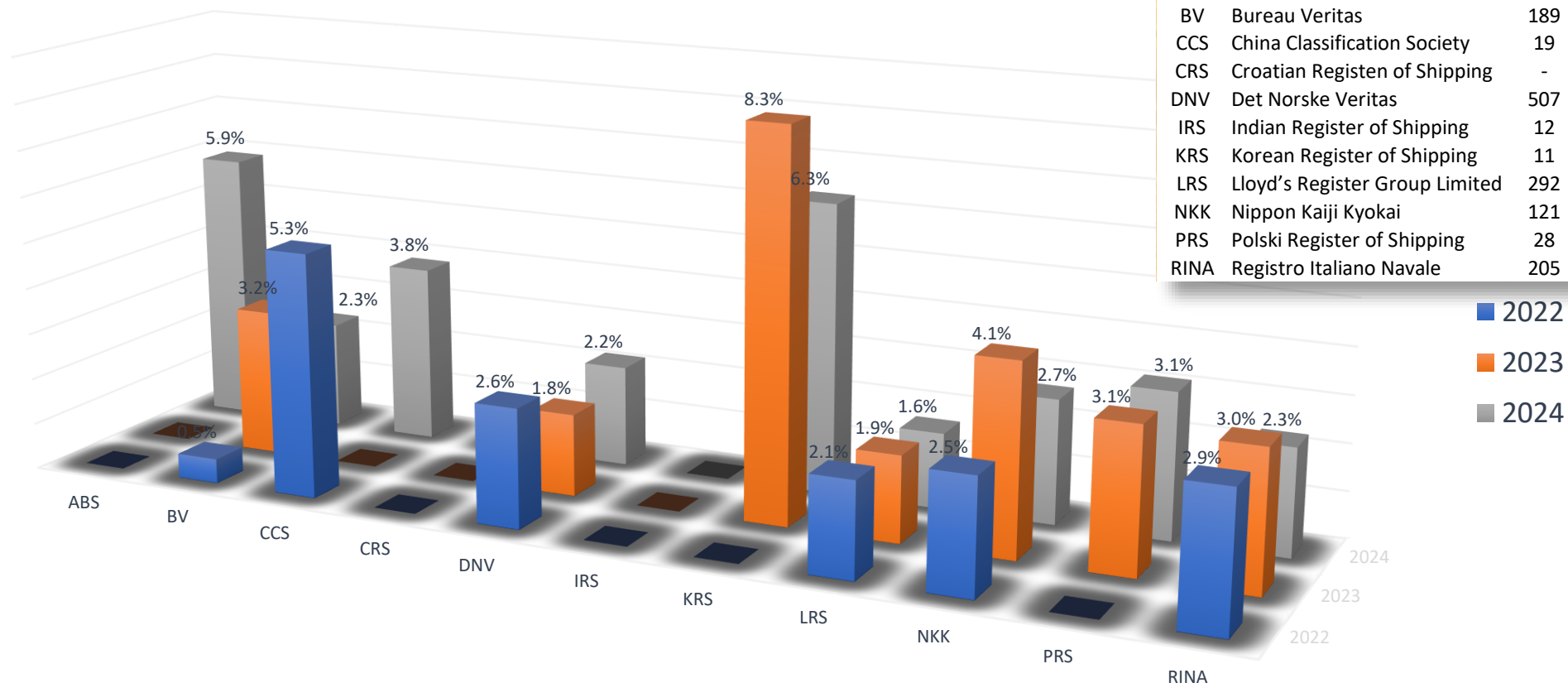


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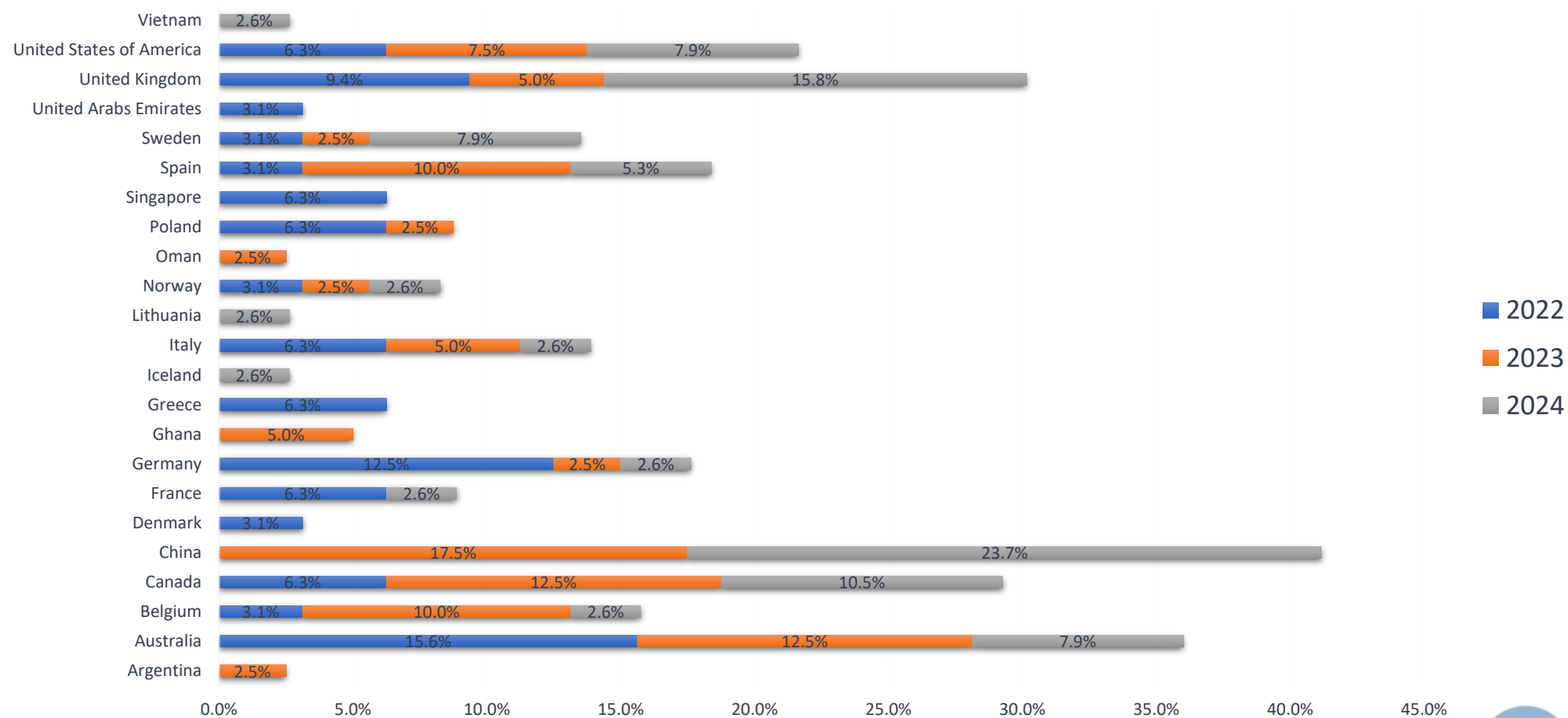
## Detention Ratio by Classification Society 2022-2024



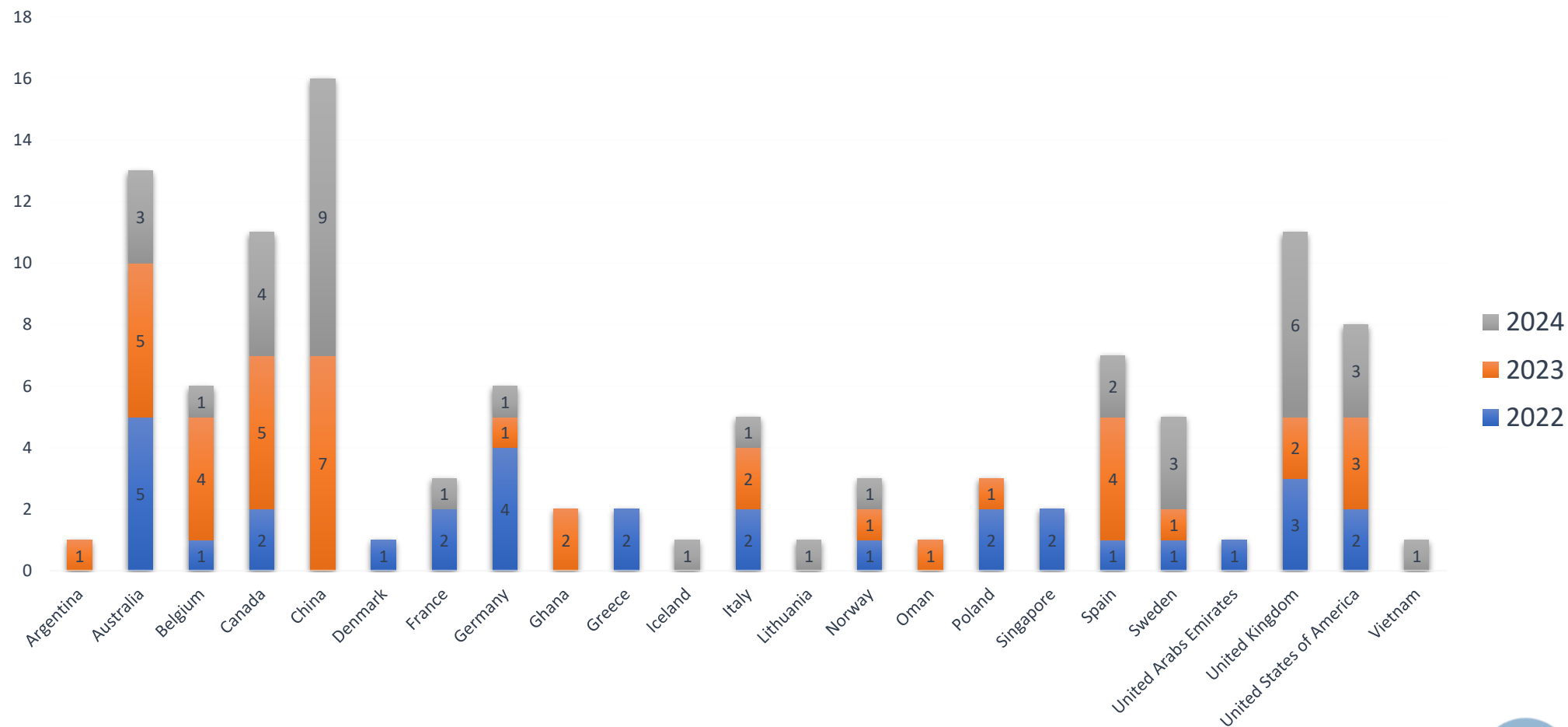
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| RINA                                     | Registro Italiano Navale       | 205  | 234  | 218  |



## Detention Share by Country 2022-2024

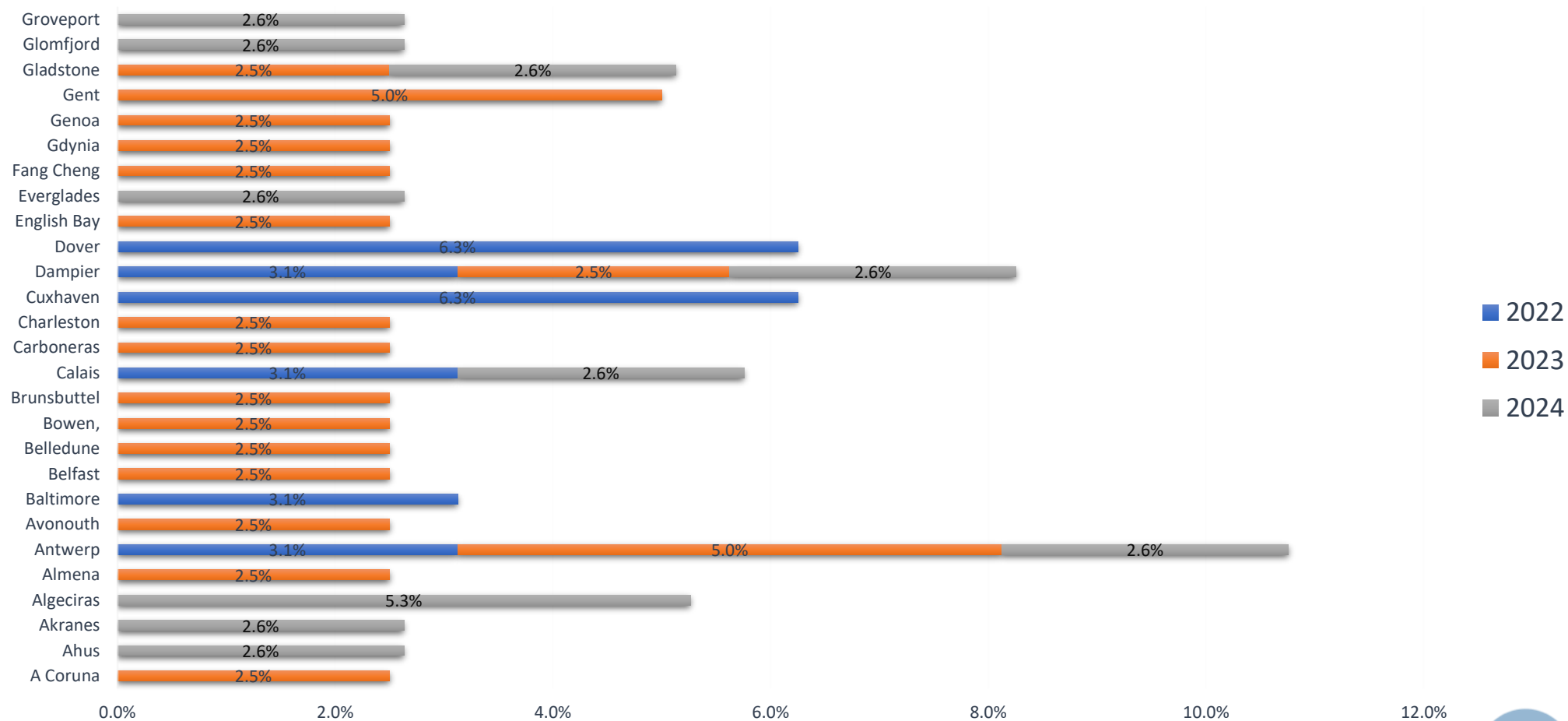


## Detention Distribution by Country 2022-2024



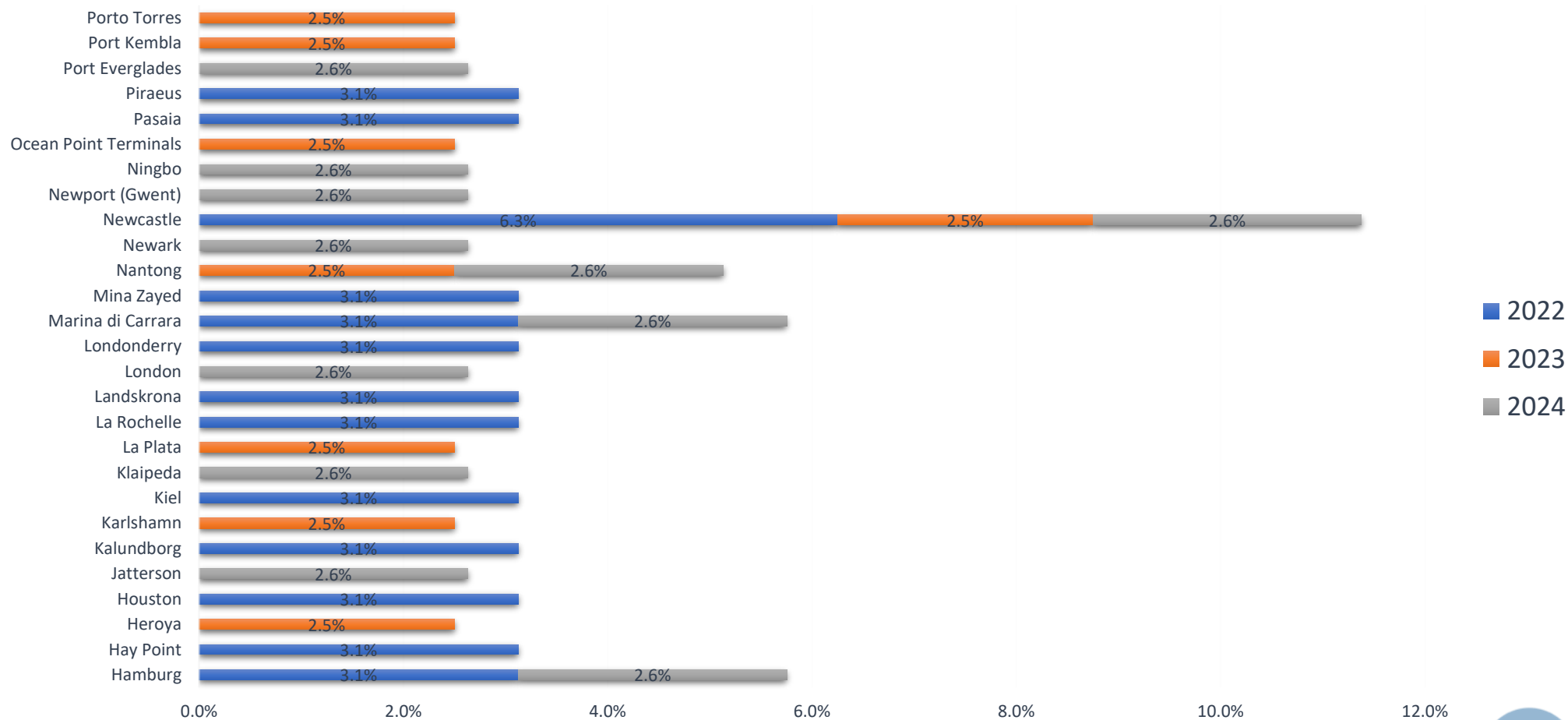


## Detention Share by Port (1/3) 2022-2024



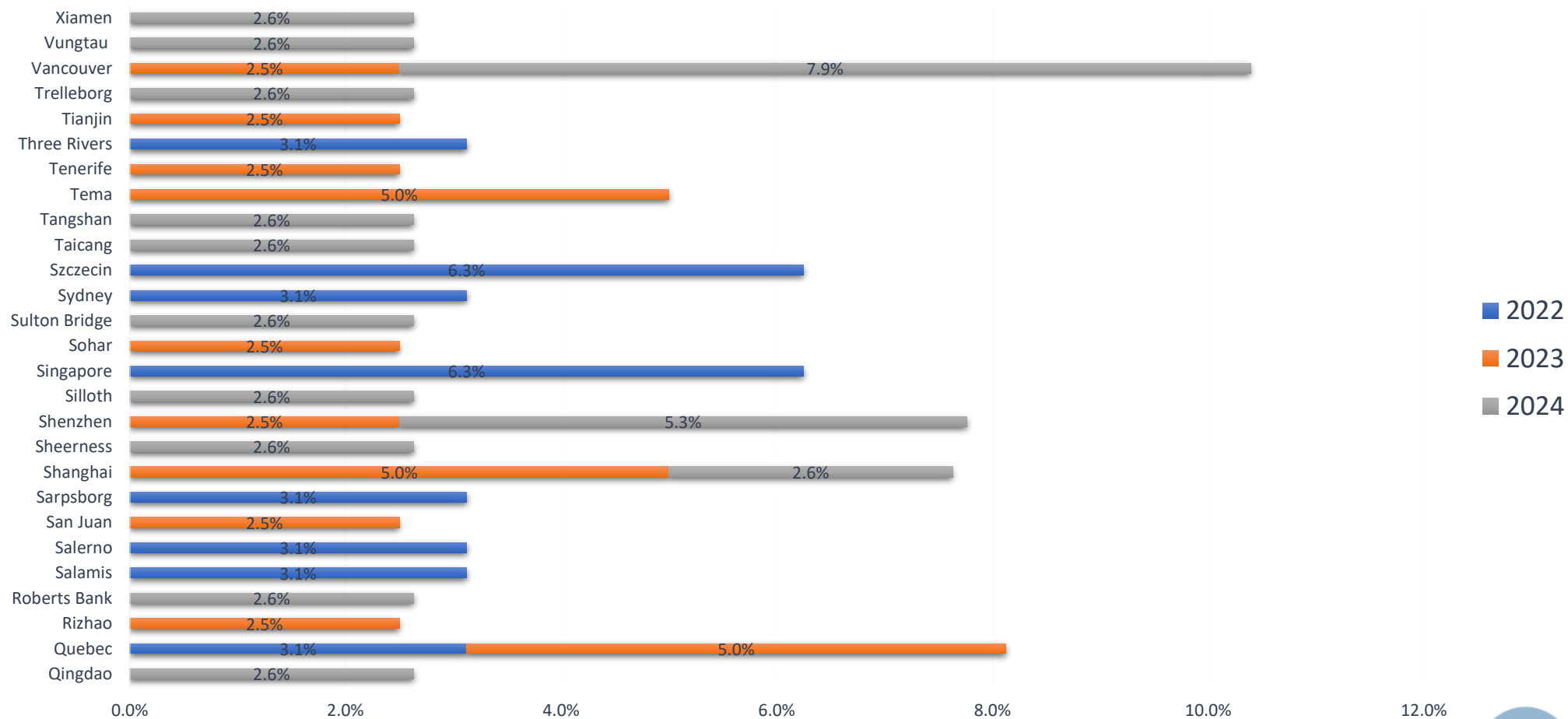


## Detention Share by Port (2/3) 2022-2024



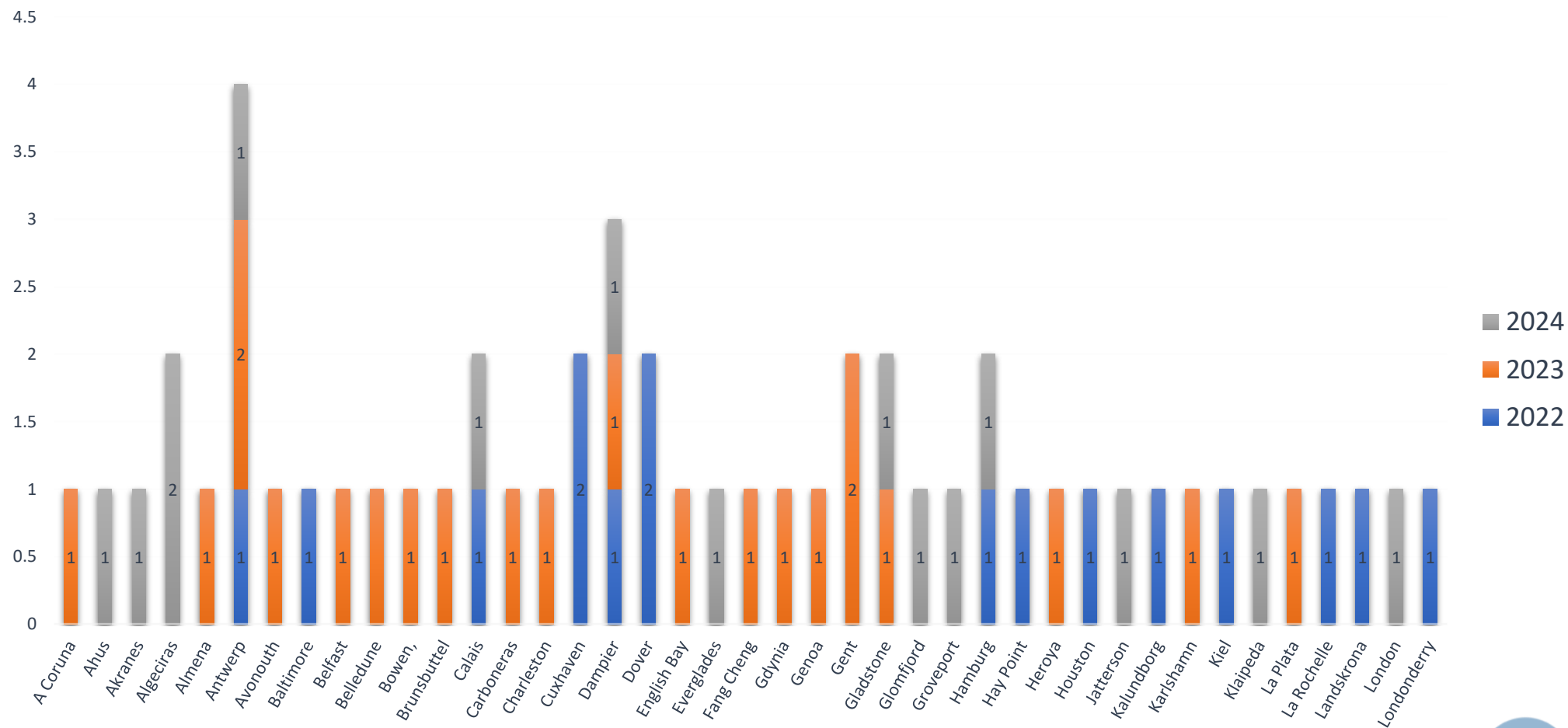


## Detention Share by Port (3/3) 2022-2024



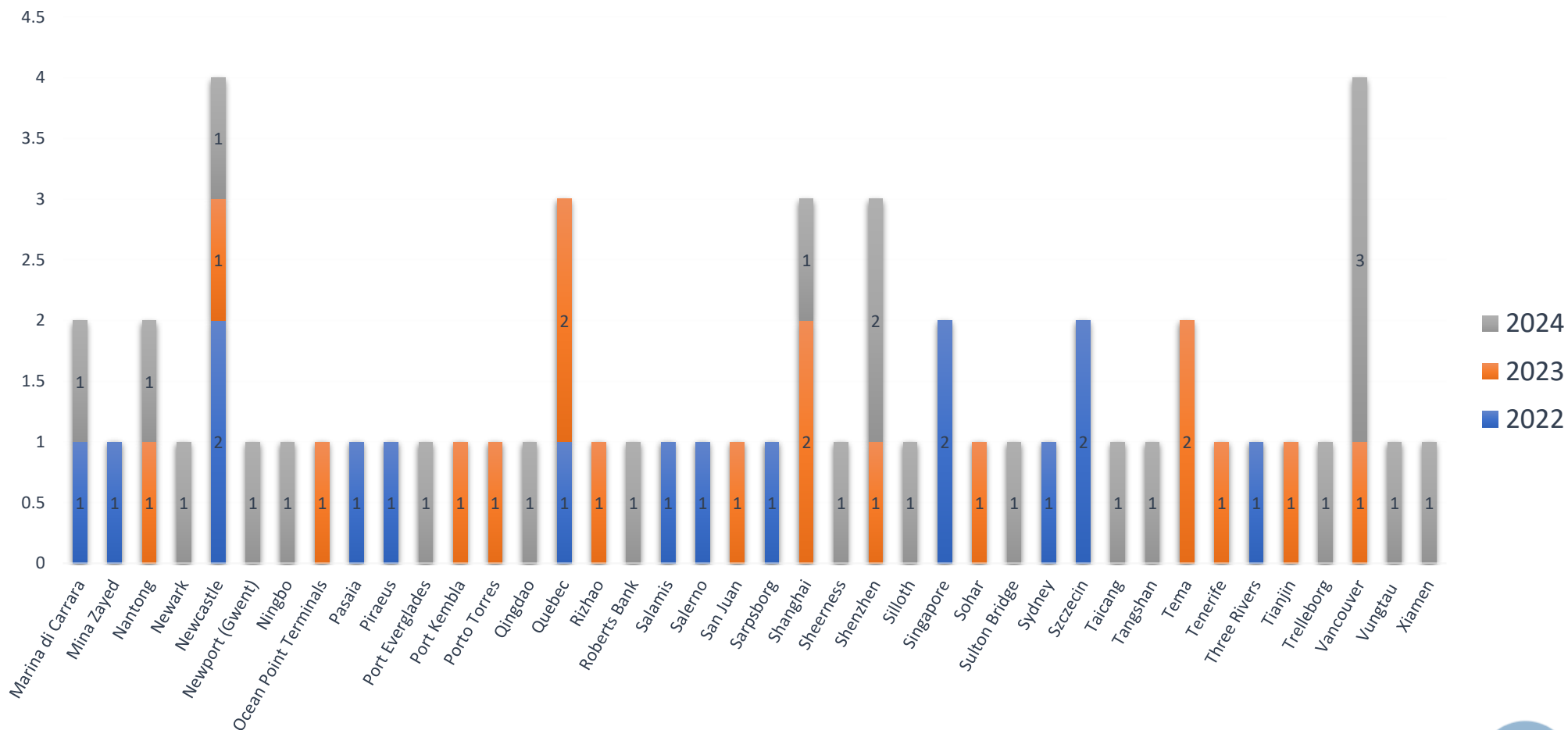
## Detention Distribution by Port (1/2)

### 2022-2024



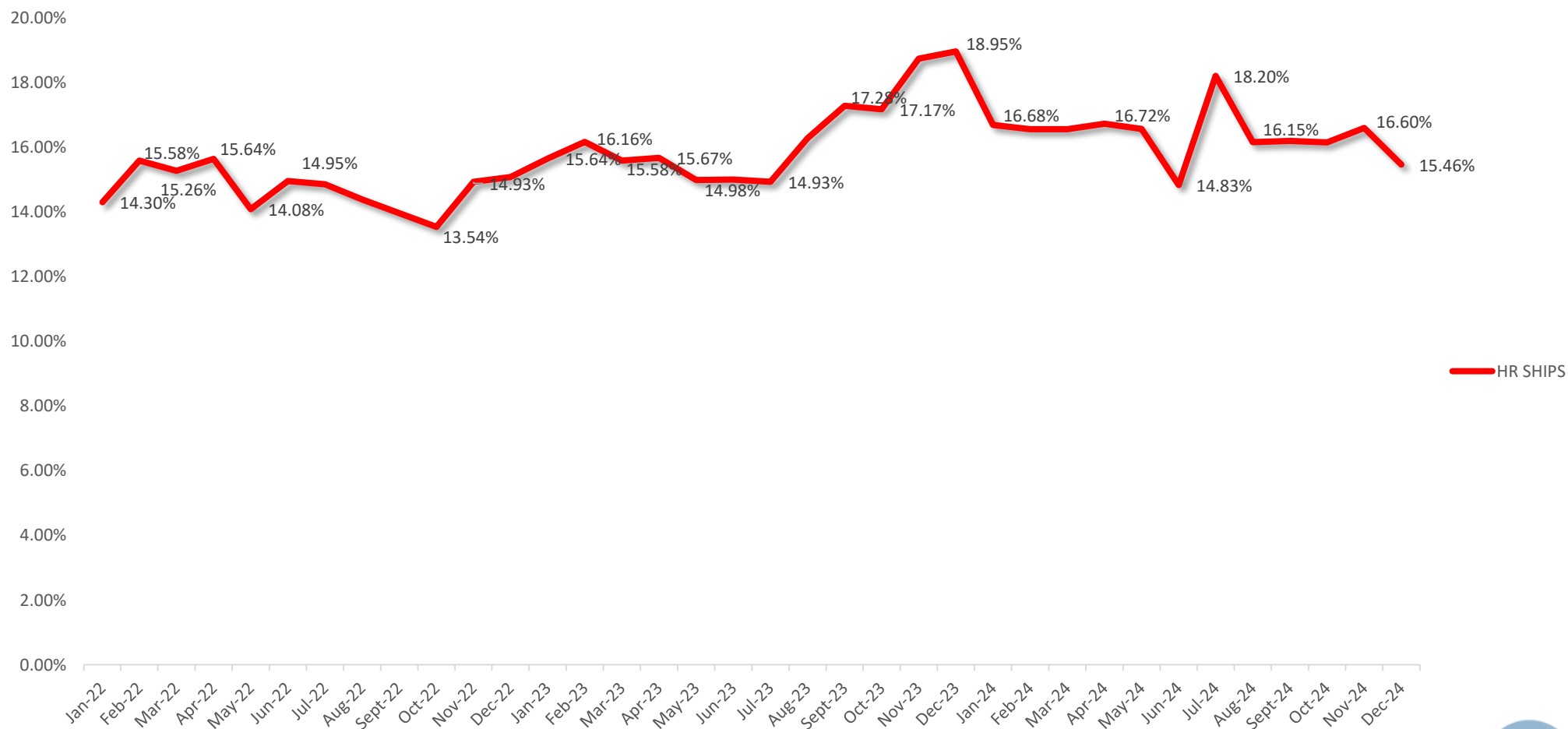


## Detention Distribution by Port (2/2) 2022-2024





## High Risk Ships Share within CY Fleet over 3 Consec. Yrs by Month 2022-2024



## Key Statistical Findings

- ❑ In USA the number of detentions occurred is significantly lower than in Paris or Tokyo MoU. However the detention ratio is above average due to the small number of Port State Control Inspections on Cyprus flagged Ships;
- ❑ The majority of the detentions occurred in Paris MoU. The number of ships inspected in Paris MoU is higher than in any other MoU. As a result the detention ratio is lower than the average in this region;
- ❑ The detainable deficiencies breakdown in USA, Paris & Tokyo MoU can put down that the majority of detentions arose, are due to lack of maintenance. This shows failure or lack of effectiveness of the implementation of the ships Safety Management System (SMS) which includes the relevant procedures for ship and equipment maintenance;
- ❑ When serious or multiple deficiencies related to safety, security, or environmental protection are identified during Port State Control (PSC) inspection, it may be the case that the ship's Safety Management System (SMS) is not being effectively implemented, raising concerns about non-compliance with the ISM Code that may require an additional internal or external audit for SMS implementation or may result in the ship being detained;

- ❑ Fire Safety related deficiencies have a combined share of up to 23%;
- ❑ Most detentions occurred in China followed by Australia, United Kingdom, Canada, and USA;
- ❑ Ships aged between 10 to 15 years and over 25 years are more vulnerable to detention;
- ❑ Bulk Carriers and General Cargo Ships are more vulnerable to detention;
- ❑ The most challenging ports for the 2024 were the Algeciras(Spain), Vancouver(Canada) and Shenzhen(China).

## Conclusion and Recommendation

The SDM emphasizes the importance of a proactive quality culture among Cyprus flagged ships to prevent future detentions. This includes Systematic Information, providing shipowners and managers with information on PSC concentrated inspection campaigns, and Deficiency Analysis, regularly analyzing reported deficiencies and non-conformities to identify trends and areas requiring attention.

By addressing these areas, the SDM aims to enhance the safety and compliance standards of the Cyprus fleet, thereby reducing the likelihood of future detentions.

Furthermore to SDM advises that the only effective way of appealing deficiencies would be the direct approach by the Management Company to the Port State Control authority involved. The SDM also advises that the first line of defence against recording a deficiency is the master and crew of the ship and therefore master and crew should be appropriately trained and educated to deal with PSC officers.

The SDM, in an effort to assist Companies, offers support in these cases where a deficiency objectively could not be justified against conventional or legal requirements by the PSC officer.

The SDM would not assist in appeals where the deficiency was challenged on subjective ground, i.e. challenging the judgment of the PSC officer.

The Shipping Deputy Ministry in an effort to safeguard further the Cyprus ships against detentions, is now using a Ship Risk Profile Assessment Tool in order to identify the High Risk Ships.

The Ship Risk Profile Assessment Tool is based on generic and historic parameters. Each parameter's influence on the overall risk of the ship is reflected through certain weighting criteria which are the Ship Type, the Ship Age, the Ship RO, the Ship Detentions (last 3 years) and the Management Company's Performance. High Risk Ships are ships which meet criteria to a total value of 5 or more weighting points out of total 8 points. The High Risk Ships are defined as Priority 1 Ships for flag Inspections.

In 2023 Port State Control Annual report of the Paris Memorandum of Understanding and Tokyo Memorandum of Understanding on Port State Control, Cyprus is ranked high on White List which recognizes flags with consistently low ship detention records. This achievement underscores Cyprus commitment to maintaining high standards of safety and quality for its flagged vessels.

## Statistical Data Sources - References

- ☐ Shipping Deputy Ministry records;
- ☐ 2021-2023 Port State Control detention reports;
- ☐ <https://www.parismou.org>;
- ☐ <https://www.uscg.mil>;
- ☐ <http://www.tokyo-mou.org>;
- ☐ [www.medmou.org/home.aspx](http://www.medmou.org/home.aspx);
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