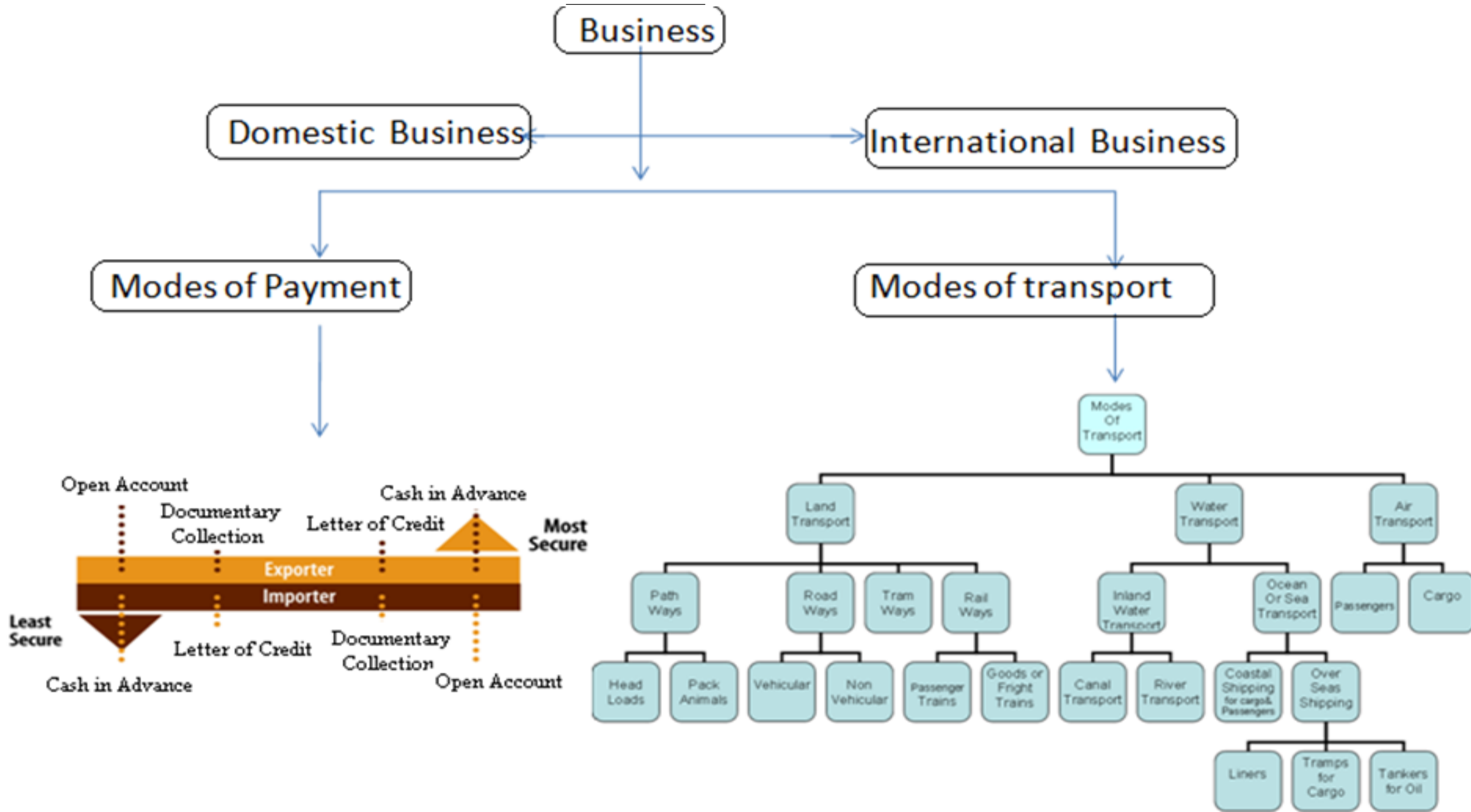


Business means: A company transacts business activities through the production of a good, or offering of a service or retailing of already manufactured products.

In contrast, **trade** refers only to the buying and selling activities, which form a part of **business** activities. So trading activities involve of buying, selling, or exchanging goods or services between people, firms, or countries.

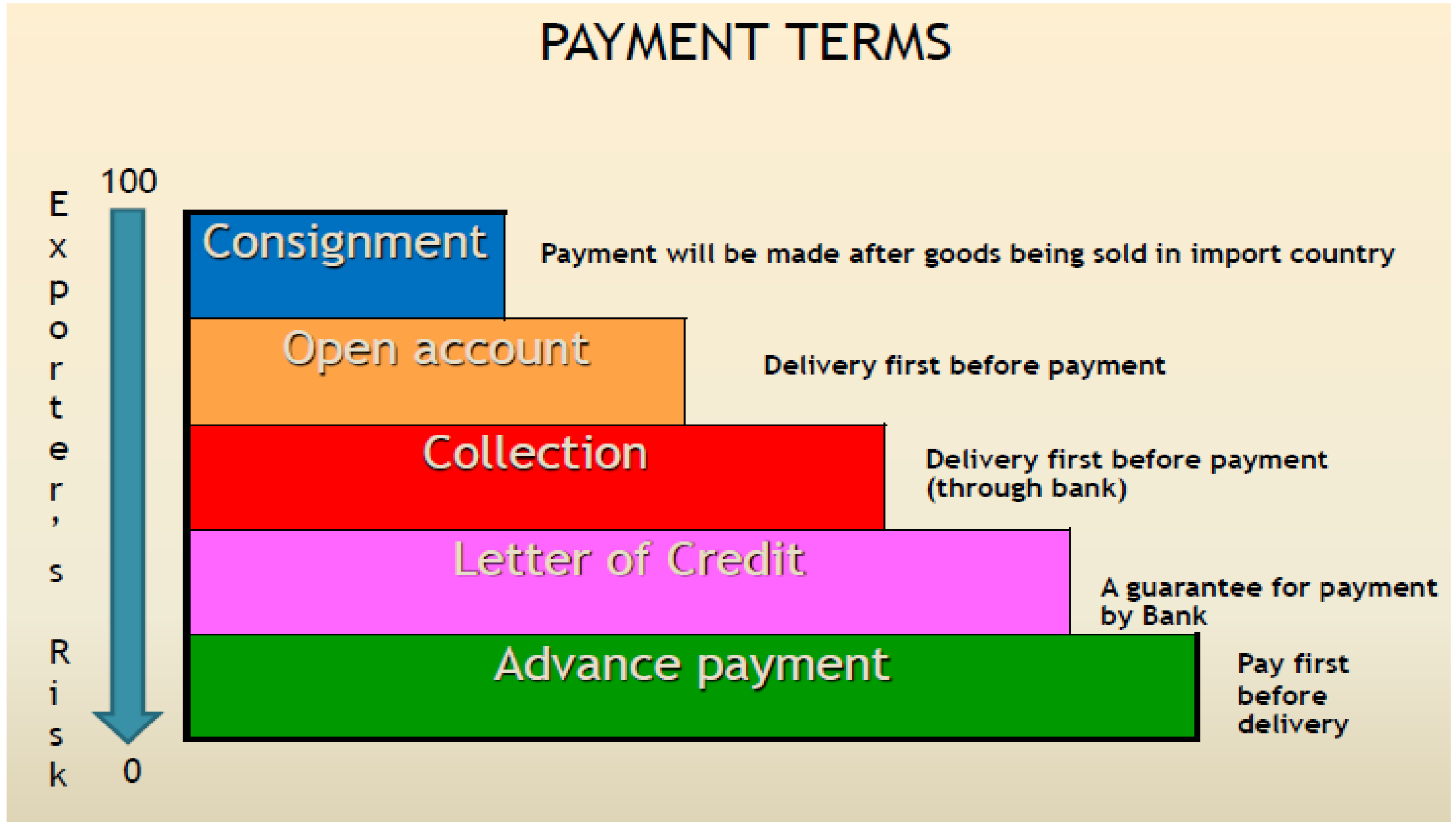
BUSINESS STRUCTURE



INCO Terms, mode of transport & trade contract responsibility

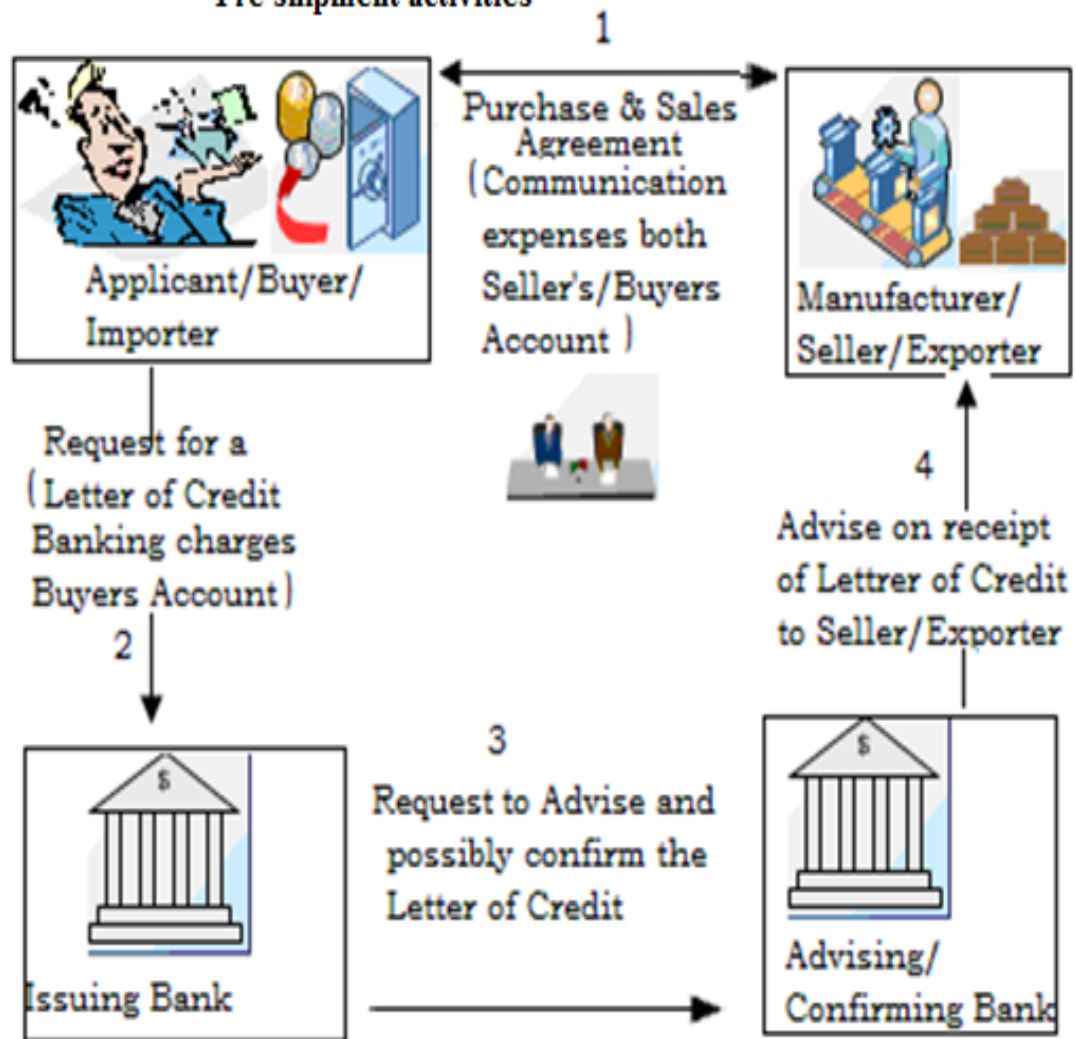
[illegible]

Mode of payment in international business



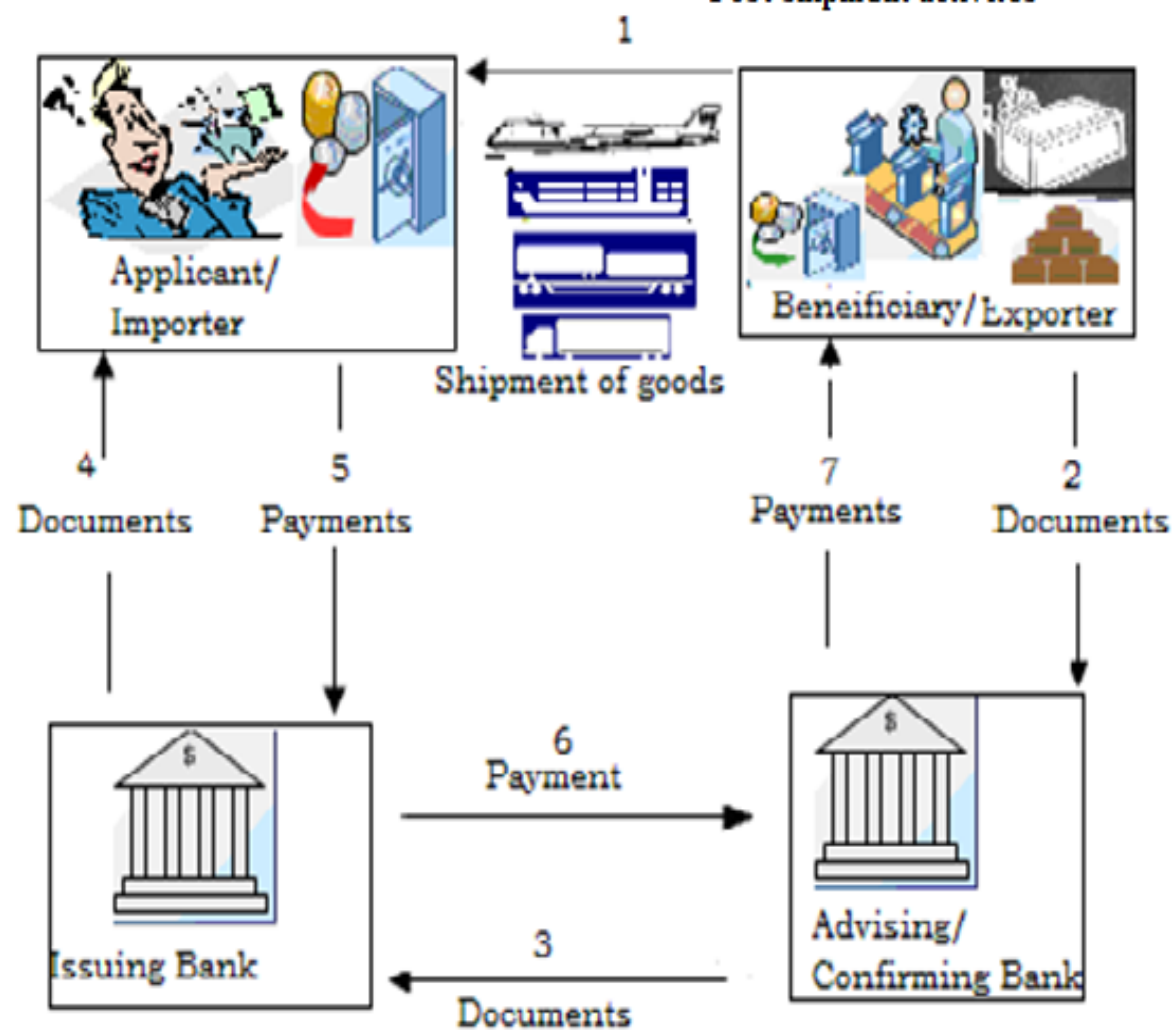
Letter of Credit operating mechanism

Pre shipment activities

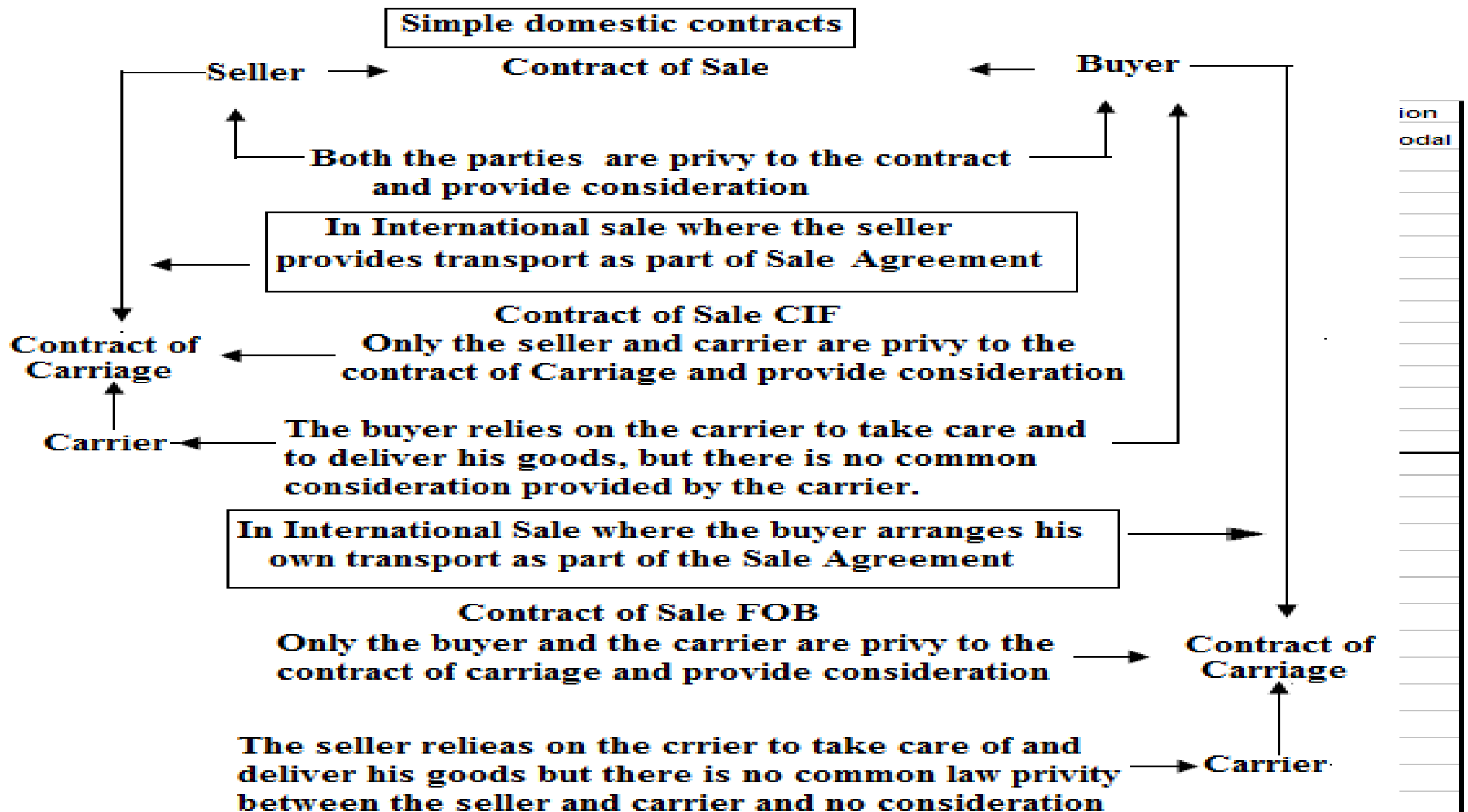


1) Signing of Sale Contract between Buyer & Seller 2) Importer or Buyer opening Letter of Credit 3) Issuing Bank informs Advising Bank 4) Advising Bank informs Exporters/Shipper receipt of Letter of Credit

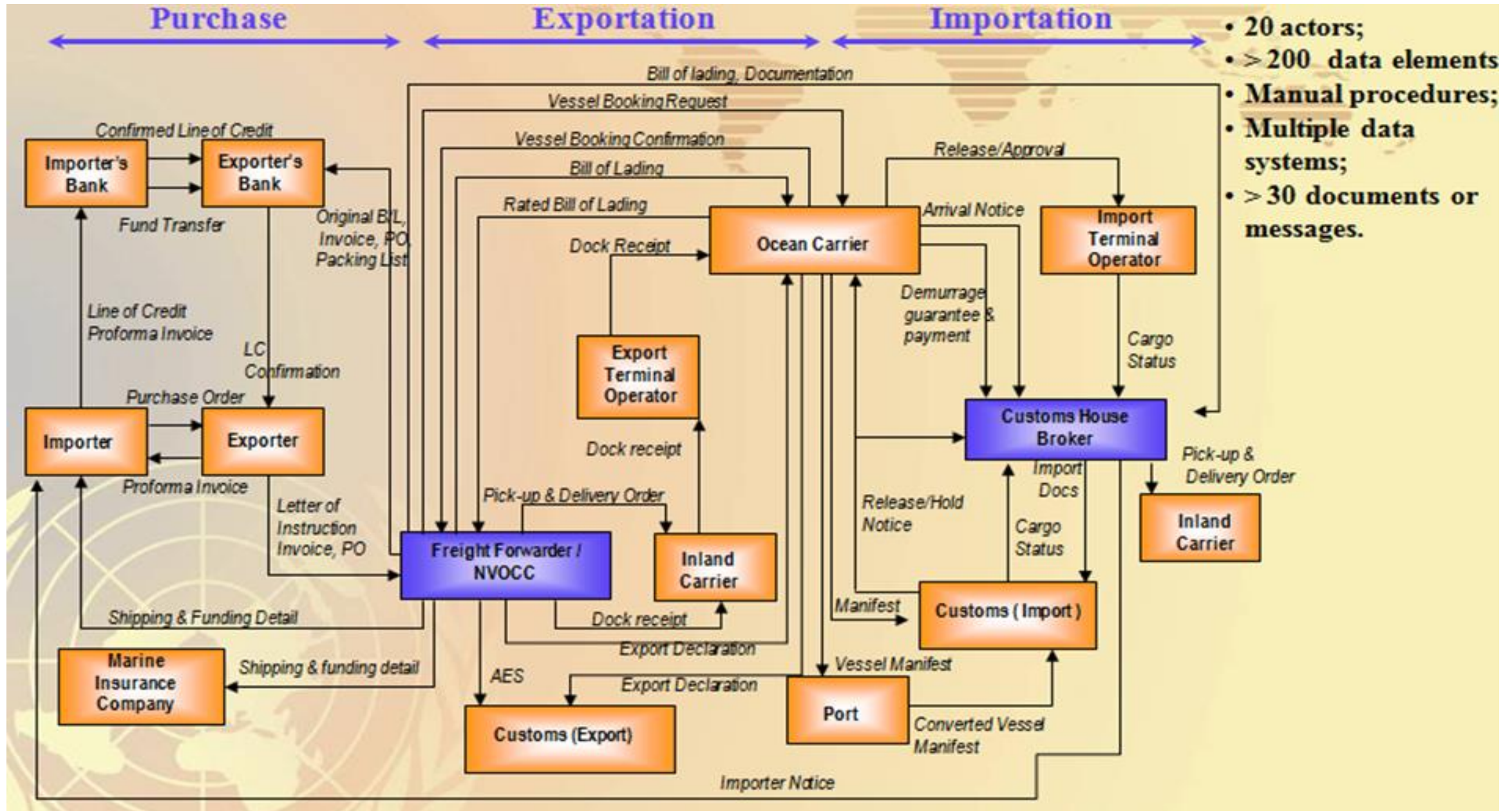
Post shipment activities



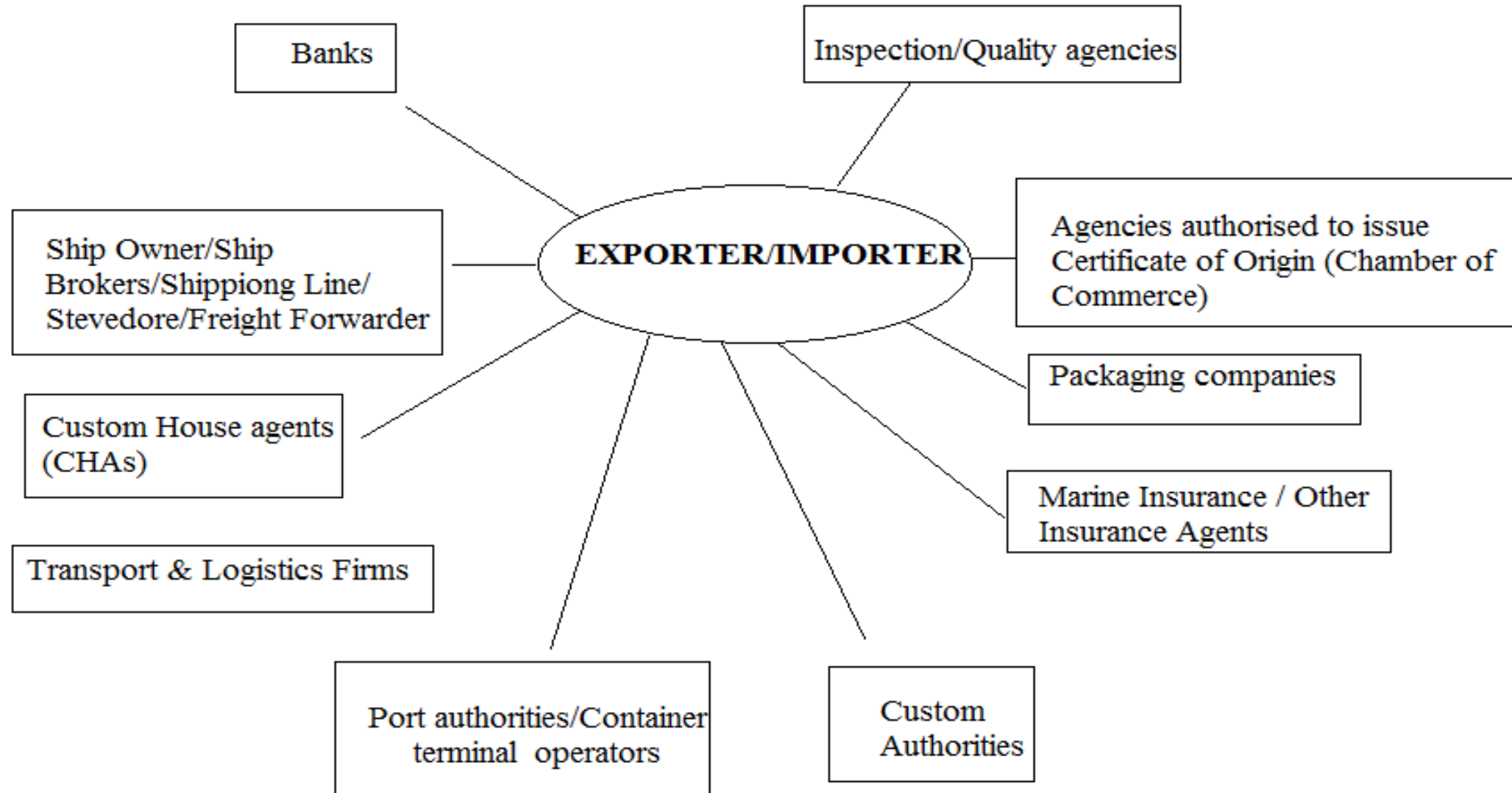
1) On receipt of L/C advise from his advising Bank, exporter make arrangement of shipment and advise shipping instructions to importer 2) Submit shipment documents to his bankers 3) Advising bank forward shipment documents to issuing bank 4) Issuing bank informs importer to remit L/C amount 5) Importer make payment of L/C and receives Document 6) Issuing Bank remits sale proceedings to Advising Bank 7) Advising bank credit Exporters account



DATA EXCHANGE IN INTERNATIONAL TRADE



Actors involved in Import & Export Trade





LD-8

(Equivalent to IATA Type 6A)

Internal Capacity

243 cu ft/6.9 cu m

Maximum Gross Weight:

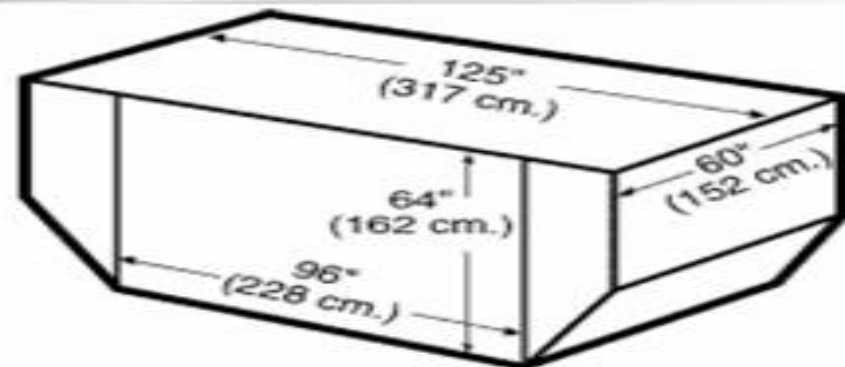
5,400 lb/2,450 kg

External Dimensions:

(L x W x H)

96" x 60" x 64"

228 cm x 152 cm x 162 cm



LD-4

(Equivalent to IATA Type 7A)

Internal Capacity

194 cu ft/5 cu m

Maximum Gross Weight:

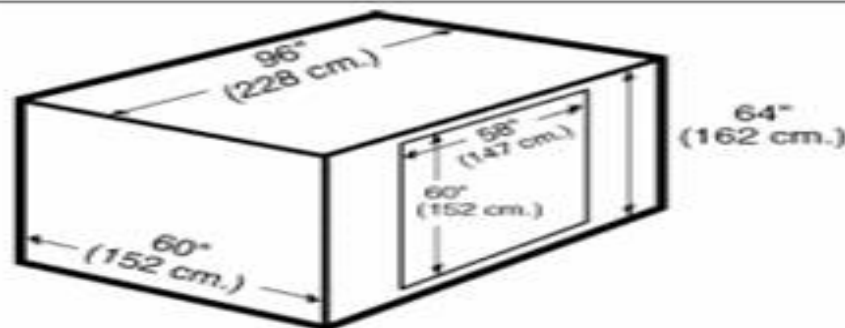
5,400 lb/2,450 kg

External Dimensions:

(L x W x H)

96" x 60" x 64"

228 cm x 152 cm x 162 cm



Aircraft chartering

Aircraft are chartered for a number of reasons:

- **Cargo** may be unexpectedly delayed, or stranded in a particular location.
- Scheduled flights may be fully booked

Chartering of an aircraft is an expensive exercise and it is an option which requires careful consideration. The following are major concerns:

- **Finding** an aircraft with adequate capacity and flight range
- **Obtaining** traffic and landing rights to ensure passage to the desired destination.
- Charterer having to pay for both legs of the journey, because of the lack of cargo for the return journey.

In such cases it is recommended that you avail of the services of an experienced air cargo agent or airfreight forwarder to ensure you are using the right equipment, at the lowest available price, for the job.

Port is the place where (such as airport or seaport) used for loading and unloading of Cargo and a place to manage all the imports, exports of goods between one country to another.

Harbours are just vast spacing places, where ships, cargo container loaders and vessels are anchored for safety purposes from bad climate or weather conditions.

1. Free Ports, ports where international trade can be conducted with less strict Customs regulations, so saving time on paperwork and bottom line costs. Very useful if looking to transship cargo through a regional hub port. For that reason many regional hubs tend to have Free Port Zones.
2. Closed Ports, ports where foreign trade vessels are barred and only national coastal traffic is handled.

Port model	Description
Public service port	A public port authority owning and operating all equipment (port authority <u>and</u> port operations)
Tool port	A public port authority owns all equipment which is operated by labor employed by private firms (port authority + ownership of equipment required for port operations)
Landlord port	Separation between public port authority (not involved in port operations) <u>and</u> private operators (generally concessionaires)
Private service port	Private port authority owning and operating all equipment (private port authority <u>and</u> port operations) (in some case – not always - port infrastructures are financed / built / owned by the private sector)

Overview of Port



Docks are places where ships, vessels are designed and repaired.

Dry Dock means under no water stream conditions, desinging and repairing of ships is done. In this particularly, engine repairs of Ship are done in most cases. Where as in a **Wet Dock**, upper parts of ship (which is as in if a Ship is on Sea, the half that we can see upon water) are repaired or remodelled there.

Jetty may be called temporary asylum for Small Ships, that or those which cannot enter Harbours. It is just for extra spacing parking for such smaller ships.

Quay is the space at the Harbour or Shore, where all the ships can moor nearby.

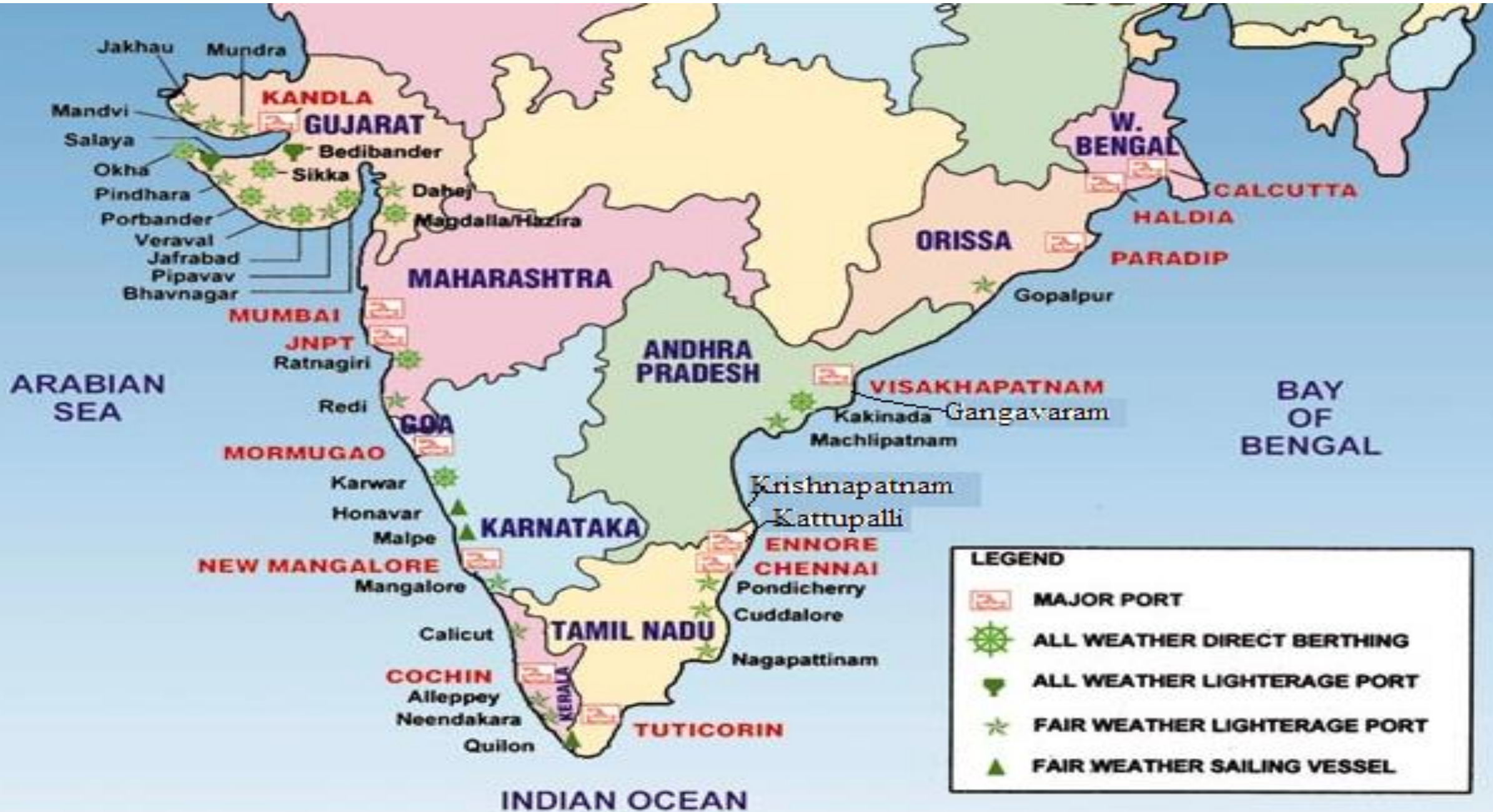
Wharf is less substitutive than a quay, and may be on the bank of a river or a of a Big Lake.

	BUILT ON PILES	BUILT ON FILLING
PARALLEL TO SHORE	WHARF	QUAY
EXTENDING OUT FROM SHORE	PIER	JETTY

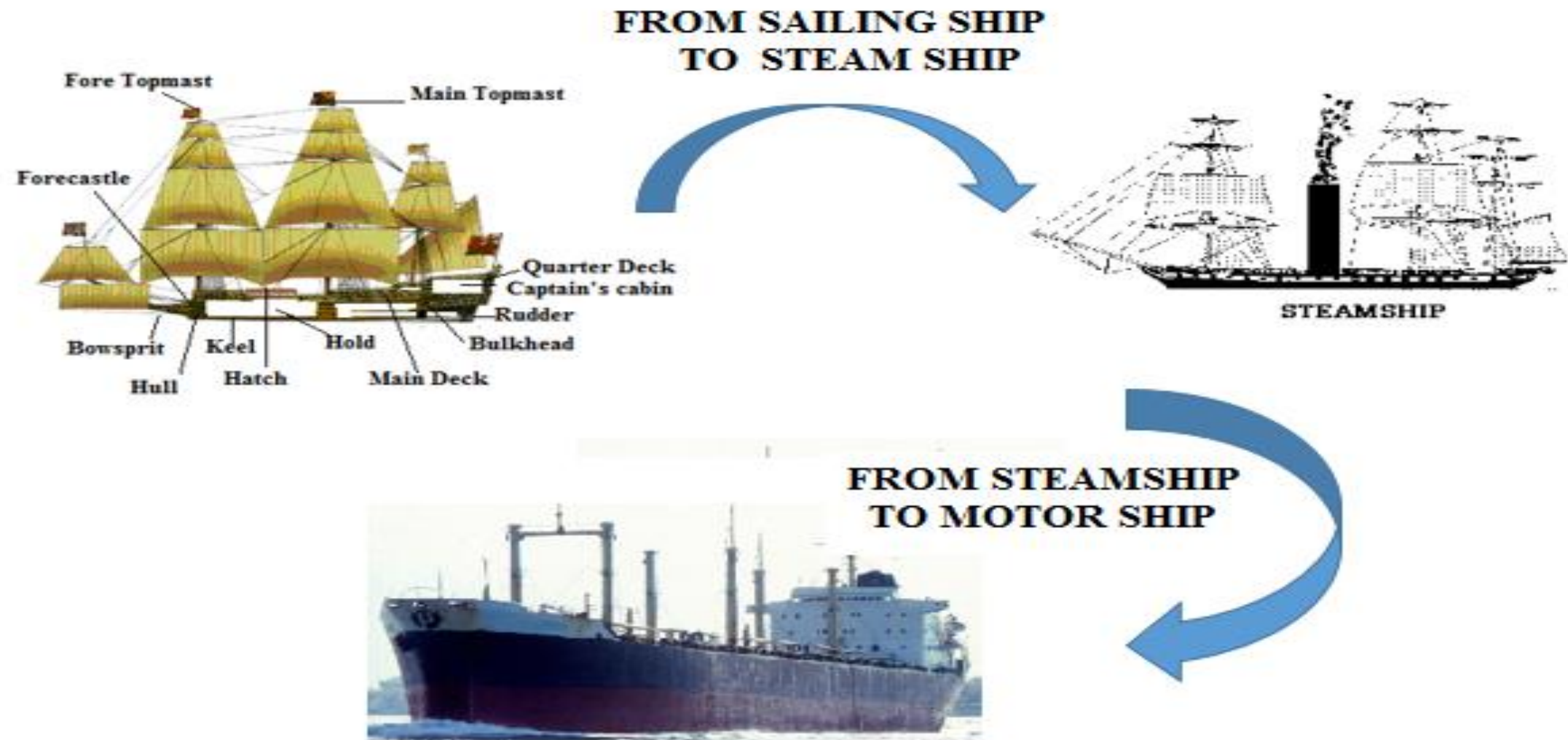
Port tariff

Service group	Component/ type of service	Charging system			
		Basis	Units	Payer	Recipient
Navigation	Port dues	Size of ship	GRT	Shipping line	Port
	Pilotage	Size of ship Time	GRT Hours	Shipping line	Port/Pilotage Association
	Tug services	Tug time involved Size of ship	Number GRT	Shipping line	Port/ Tug owner
	Mooring/unmooring	Size of ship	GRT	Shipping line	Port
	Ancillary services	Various	Various	Shipping line	Port
Berth	Berth hire	Time of ship alongside Size of ship	Hours GRT	Shipping line	Port
	Wharfage	Volume/weight/size of cargo	Tonnes/ TEU/m³	Consignee/ Consignor	Port
	Ancillary services	Amount consumed	Various	Shipping line	Port
	Stevedorage	Volume/weight/size of cargo	Tonnes/ TEU/m³	Shipping line	Provider of service

Indian major Ports and minor (private) ports



SAILING & STEAM SHIPS ARE ABBREVIATED AS 'S.S.'. SHIP IS AN ELONGATED METAL BOX HENCE IT IS CALLED AS 'VESSEL'. MOTOR VESSEL ABBREVIATION IS M.V.AND M.T. IS FOR TANKER SHIP



Ships are built

- to satisfy a large number of different needs of the owners of the world's merchant and naval fleets
- and those different needs result in some very different hull shapes and sizes, speed requirements, and propulsion types.
- average age of ships are 20 to 25 years

SHIP BUILDING PROCESS

Design work (Naval Architect)

Keel Laying

Stepping up of Mast

Launching

Christening (Naming)

Pre-commissioning Crew

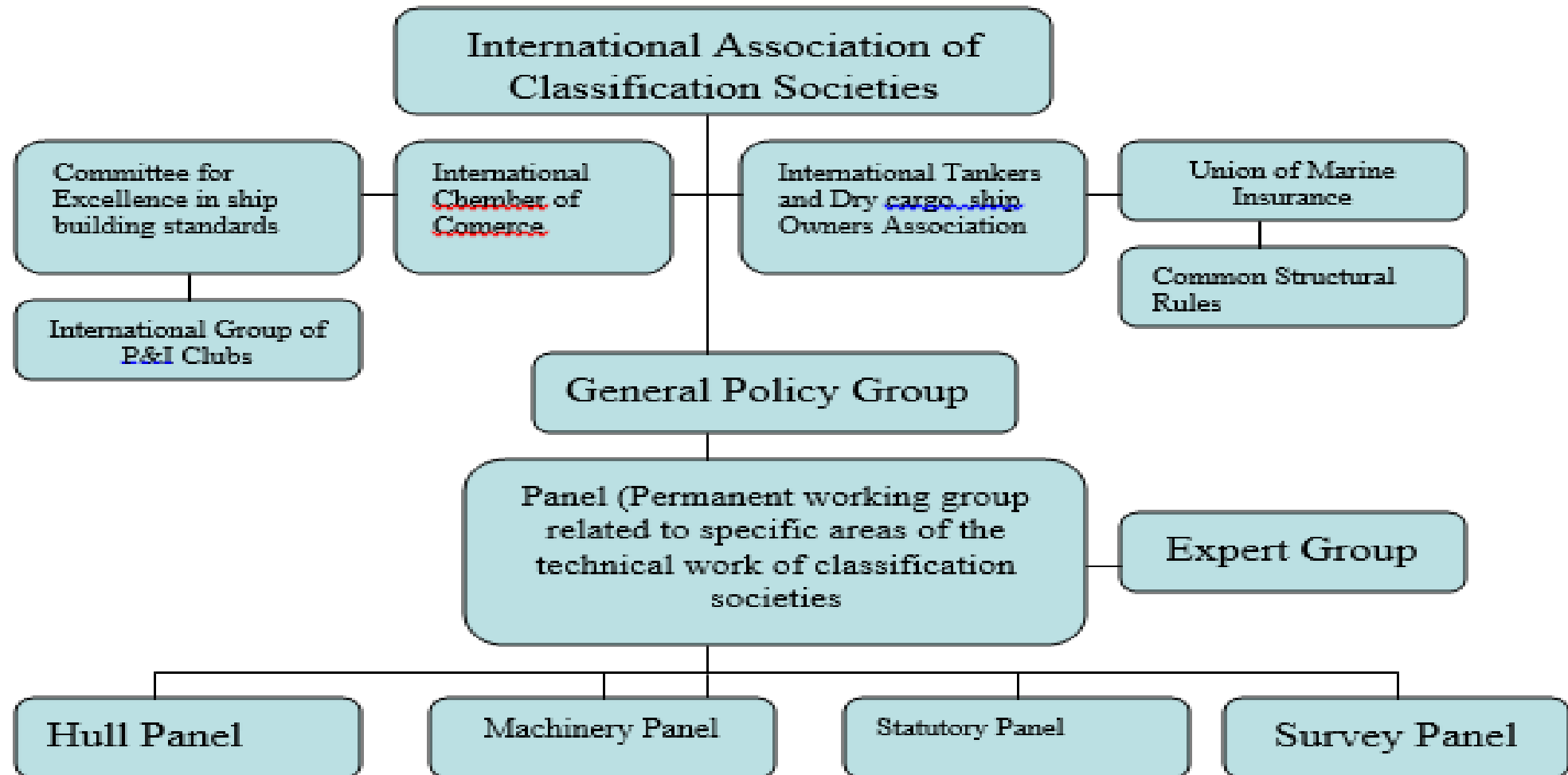
Sea Trial

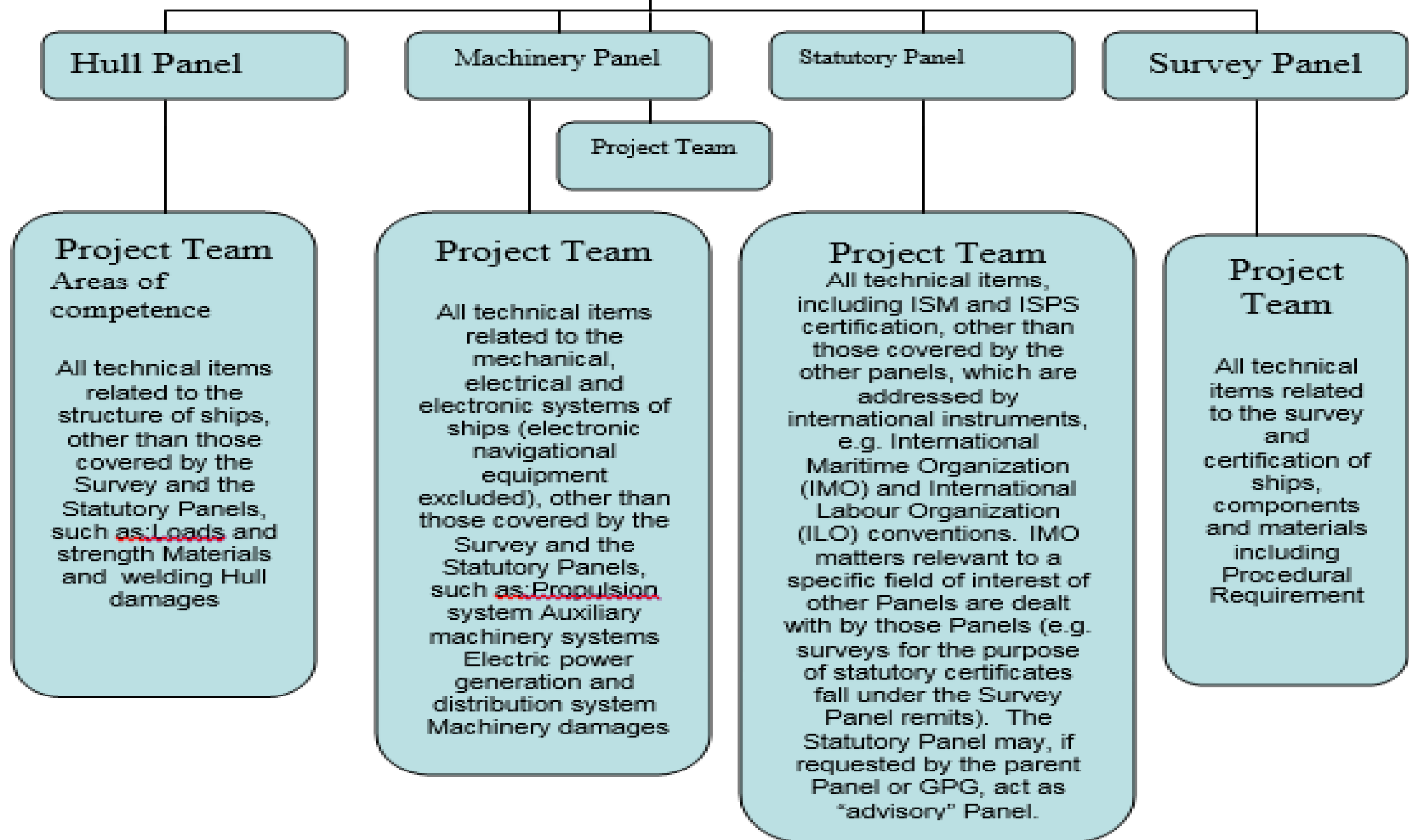
Delivery

Sailaway

Commissioning

More than 90% of the world's cargo carrying tonnage is covered by the classification design, construction and through-life compliance Rules and standards set by the ten Member Societies and one Associate of IACS. (International Association of Classification Societies. The flow chart is given below:





Inter-governmental Organisations

[International Maritime Organization \(IMO\)](#)

[International Labour Organization \(ILO\)](#)

[United Nations Conference on Trade and Development \(UNCTAD\)](#)

[World Meteorological Organization \(WMO\)](#)

[World Customs Organization \(WCO\)](#)

[International Hydrographic Organization \(IHO\)](#)

[International Maritime Mobile Satellite Organization \(INMARSAT\)](#)

[Paris MOU on Port State Control](#)

[Tokyo MOU on Port State Control](#)

[Indian MOU](#)

[Mediterranean MOU](#)

[Black Sea MOU](#)

[Latin American MOU](#)

SHIP BUILDING PROCESS

Bow assembling

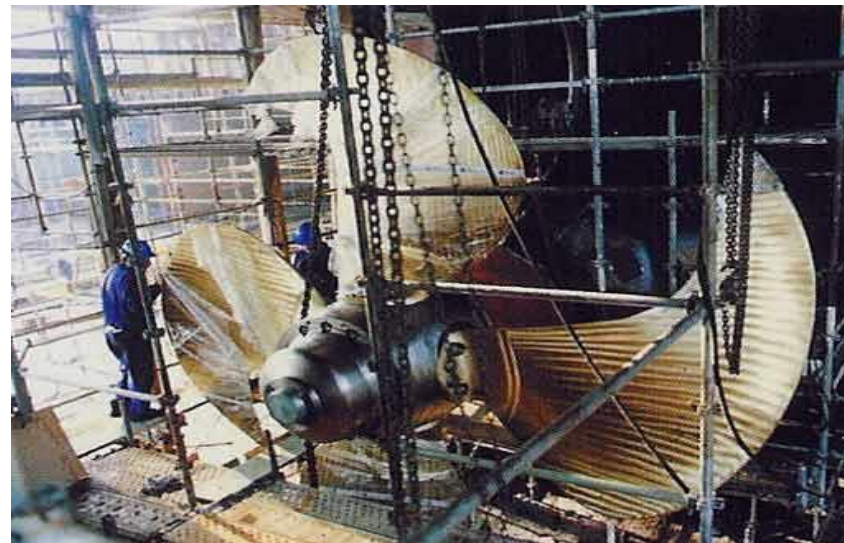
Hull work is finished

Keel laying



Fitting of engine

Fixing of Propeller



Fixing superstructure



Engine and Auxillary machineries fitting



Navigational equipments fitting



Accommodation for crew



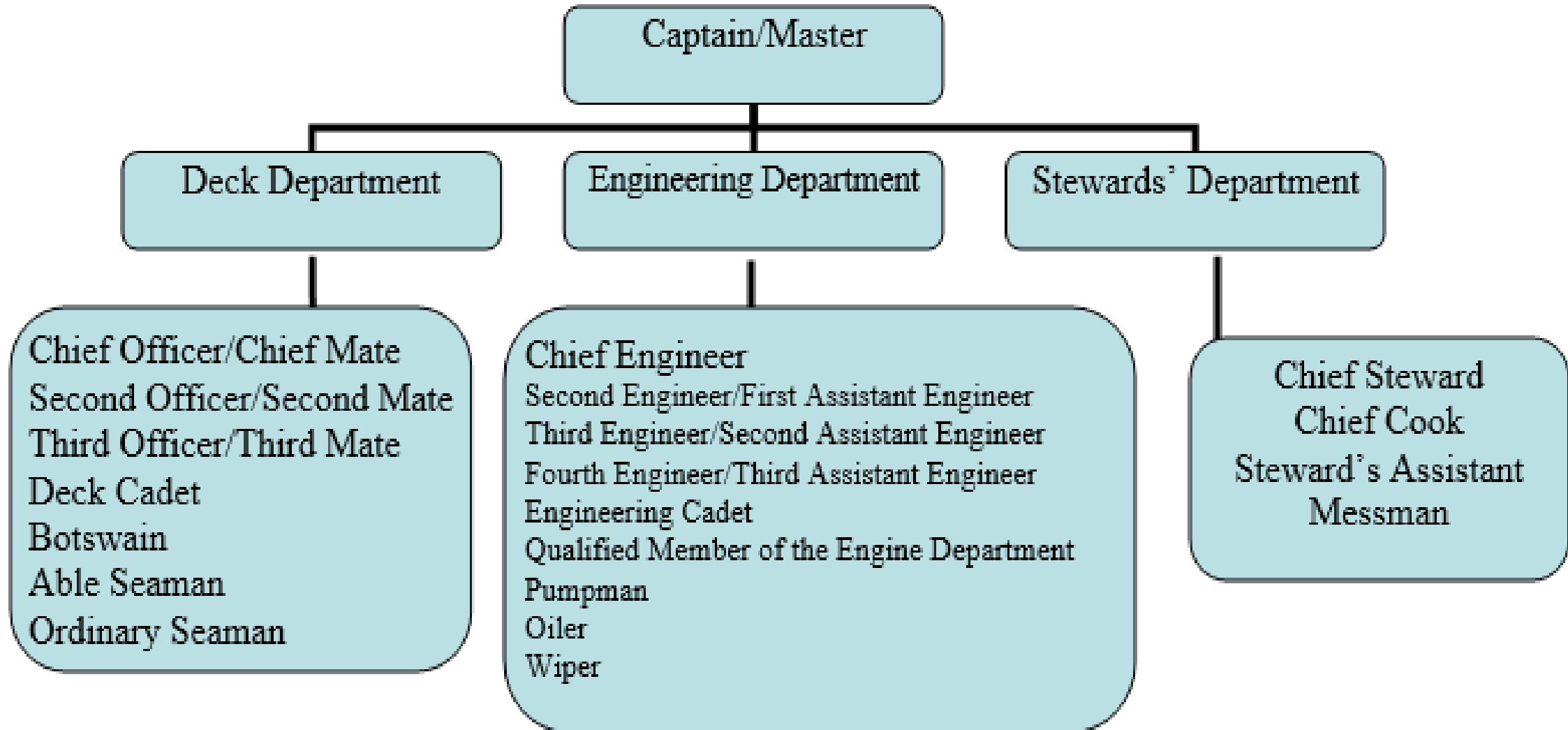
CREW ACCOMMODATION



FOLLOWED BY NAMING CEREMONY AND LAUNCHING



CREW COMPLEMENT BY SHIP CLASS : The required crew size will be dictated by a document called the Minimum Safe Manning Certificate. This document dictates the minimum number of personnel necessary to safely navigate and operate the vessel



Merchant ships

for

Bulk cargo

General cargo

Passengers

Bulk-type general cargo

Ferry services

Liquid cargo

Solid cargo

Heavy-lifts

Light cargo

Living cargoes

Tankers, e.g.
for chemicals,
acids,
products,
crude oil,
(ULCC,VLCC),
wine, gas
(LNG, LPG)

Bulk
carriers,
ore
carriers

Ore / oil carriers
OBO carriers
Cement tankers

Heavy lift vessels

- OBC freight carriers
- LASH carriers
- BACO carriers
- Container/ro-ro ships
- CONDOCK ships
- SEABEE carriers
- Car carriers
- All-container ships
- Other multipurpose freighters
- Special forest product carriers

- Passenger vessels
- Passenger ferries
- Livestock transporters
- Combination carriers
- Passenger/ container vessels
- Semicontainer vessels
- Conventional cargo ships

Types of dry bulk cargo ships



**HANDYSIZE TYPE SHIP.
APPROXIMATELY FROM
10000DWT TO 30000DWT**

**HANDYMAX SIZE TYPE SHIP.
FROM 30001 TO 50000DWT**



**PANAMAX TYPE SIZE SHIP
FROM 50001DWT TO 80000DWT**



**CAPE SIZE TYPE SHIP. FROM
80000DWT AND LARGER**



Types of tanker ships

**HANDYSIZE TYPE TANKER
FROM 19001DWT TO 25000DWT**



**PANAMAX SIZE TYPE TANKER
FROM 50001DWT TO 80000DWT**



**SUEZMAX SIZE TYPE SHIP
FROM 120,000DWT TO
200,000DWT**



**AFRAMAX TYPE TANKER
FROM 80000 TO 120,000 DWT**



**VLCC - VERY LARGE CRUDE
CARRIER SIZE TYPE SHIP
200,000DWT TO 350,000DWT**



**ULCC - ULTRA LARGE CRUDE
CARRIER SIZE TYPE SHIP
350,000DWT AND ABOVE**



Types of gas carriers



Tank capacity	78,000 m ³
Gross tonnage	46,500 tons
Length	230.0 m
Breadth	36.6 m
Depth	20.8 m
Speed	16.7 kts
Main engine	Mitsubishi UE diesel engine



Tank capacity	135,000 m ³
Gross tonnage	112,200 tons
Length	297.5 m
Breadth	45.75 m
Depth	25.5 m
Speed	19.5 kts
Main engine	Mitsubishi steam turbine

Types of ships

PCTC : Pure Car and Truck Carrier



Container Ship










Cattle Carrier

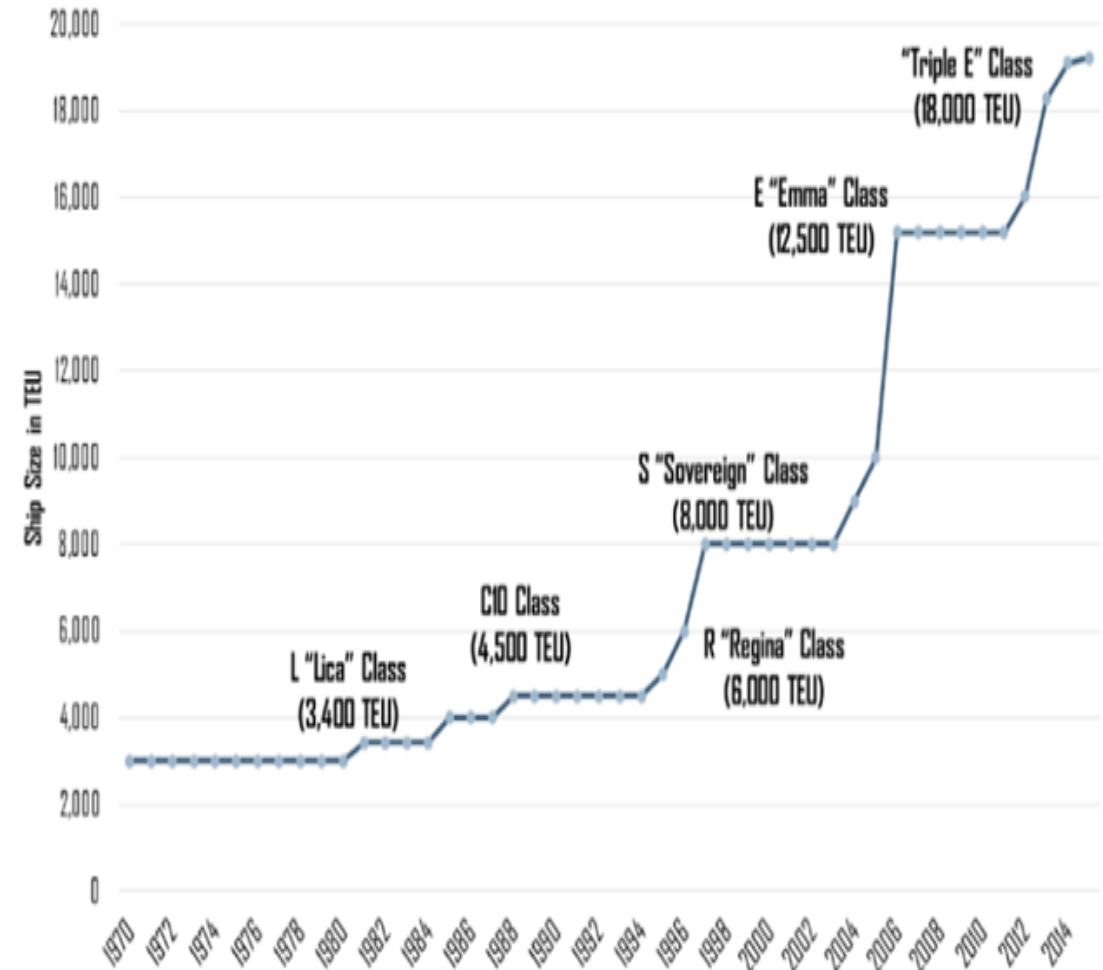


General Cargo Ship

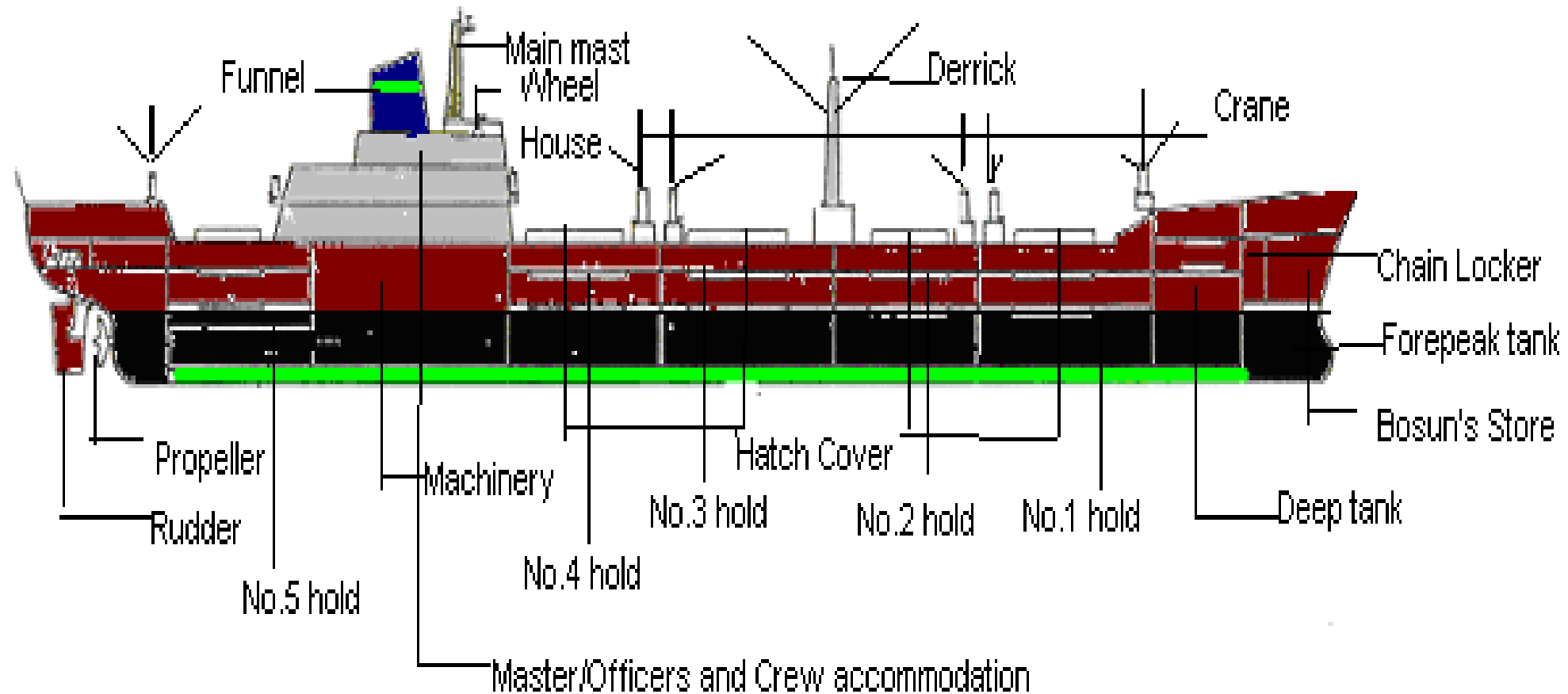


Container ships size

First Generation (1956-1970)		Length	Draft	TEU
	Converted Cargo Vessel	135 m	< 9 m	500
	Converted Tanker	200 m		800
Second Generation (1970-1980)		Length	Draft	TEU
	Cellular Containership	215 m	10 m	1,000 – 2,500
Third Generation (1980-1988)		Length	Draft	TEU
	Panamax Class	250 m	11-12 m	3,000
		290 m		4,000
Fourth Generation (1988-2000)		Length	Draft	TEU
	Post Panamax	275 – 305 m	11-13 m	4,000 – 5,000
Fifth Generation (2000-?)		Length	Draft	TEU
	Post Panamax Plus	335 m	13-14 m	5,000 – 8,000

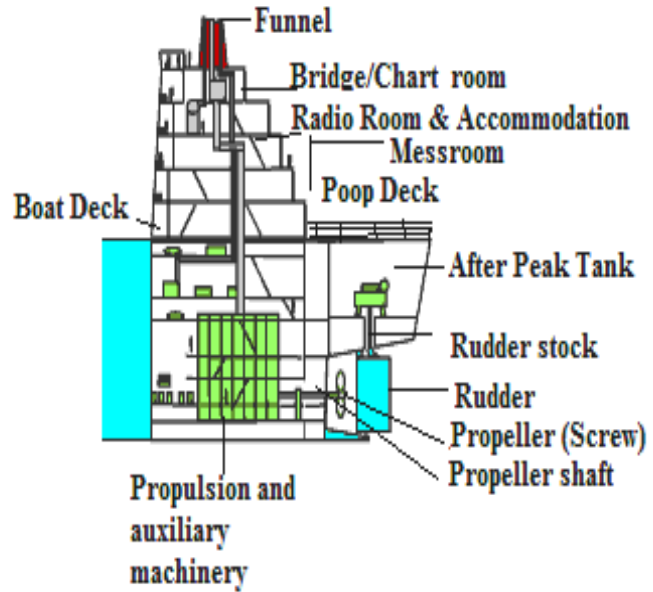
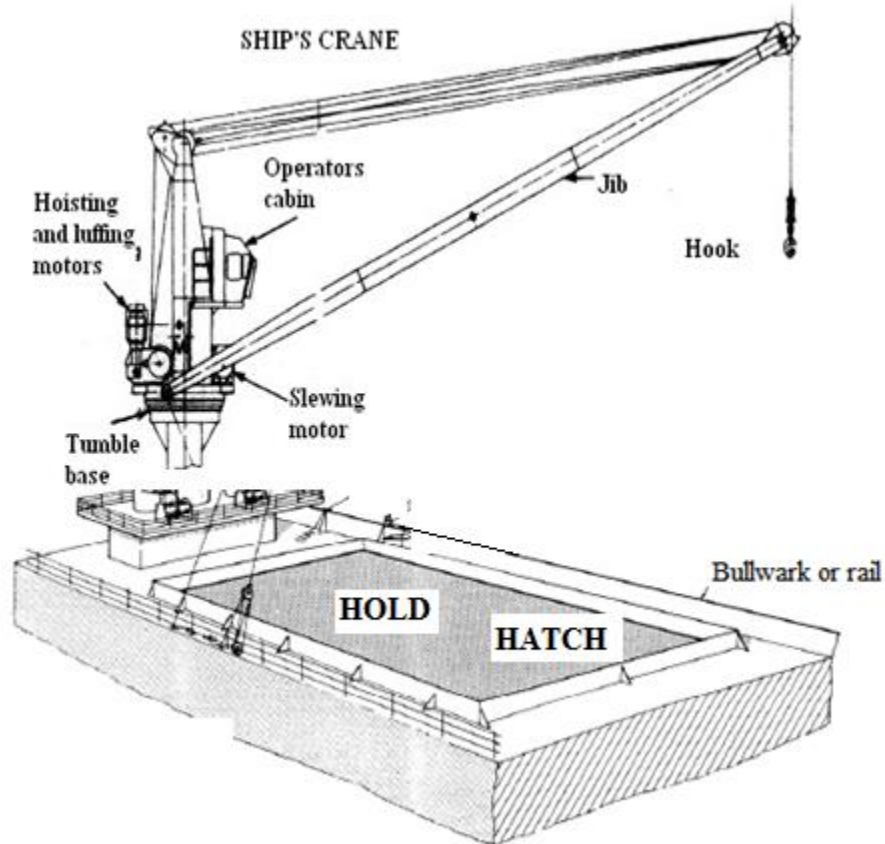
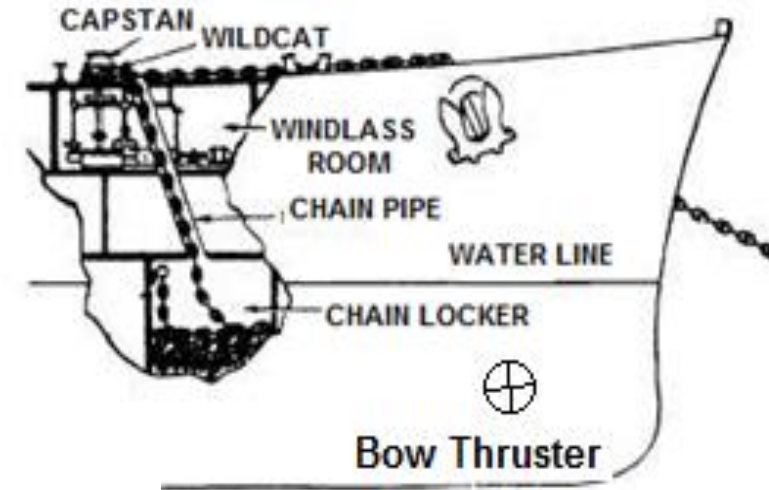
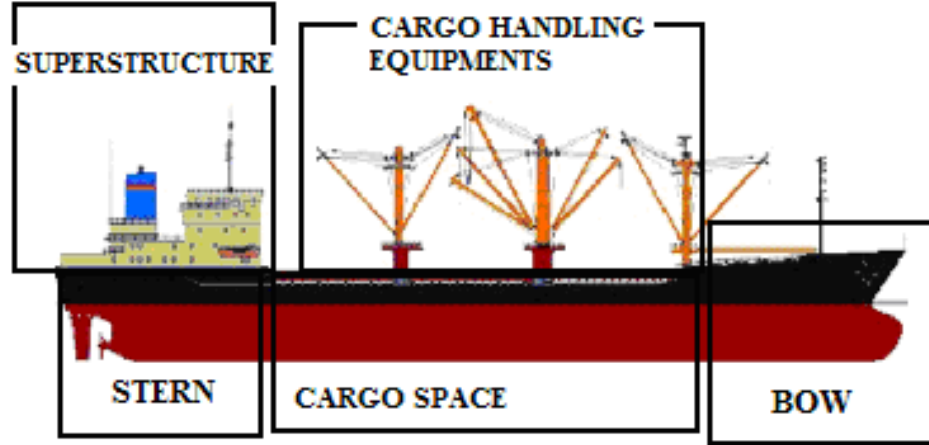


Longitudinal section of a General Cargo Ship





HULL



Controllable pitch propeller

Ship's parts



Bridge: The bridge of a ship is an area at front of the ship where the navigational equipment are housed. The ship is controlled from the bridge by the captain or navigational officer



Propeller and Rudder: A propeller is a type of [fan](#) that transmits power by converting [rotational](#) motion into [thrust](#) and the Rudder is used for steering the ship



Cargo Control Room: Cargo Control room where PIC can monitor cargo operation.



Funnel : Funnel is a casing used for the exhaust pipes from the engine and is located near to the bridge

Ship's partscontinuation



Cargo Hold: A **ship's hold** or cargo **hold** is a space for carrying cargo. Cargo in holds may be either packaged in crates, bales, etc., or unpackaged (bulk cargo). Access to holds is by a large hatch at the top



Mast: The mast is used to carry antennas, whistle, navigational lights, flags etc.,



Crane: Crane is a machinery for hoisting and lowering the heavy objects



Anchor : The anchor is used to secure the ship in a stationary position at sea

Ship's partcontinuation



Mooring : Mooring is to secure a ship in position at a quay or berth or jetty for safe cargo operation and to make access to people from shore to ship



Life Boats: A *lifeboat* is a small, rigid or inflatable boat carried for emergency evacuation in the event of a disaster aboard a *ship*

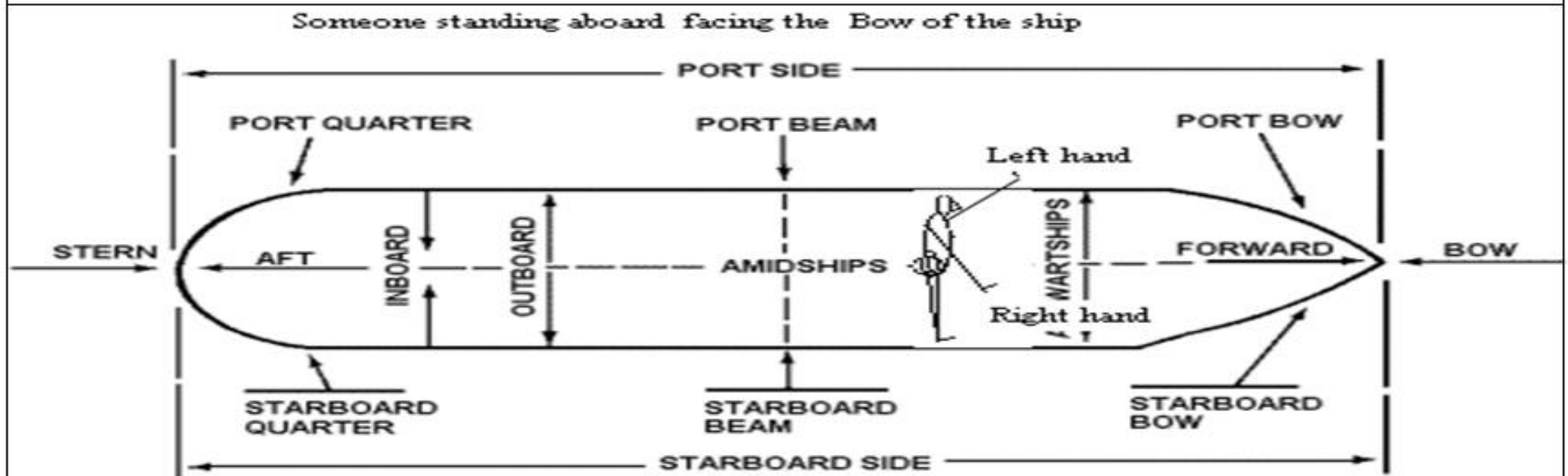
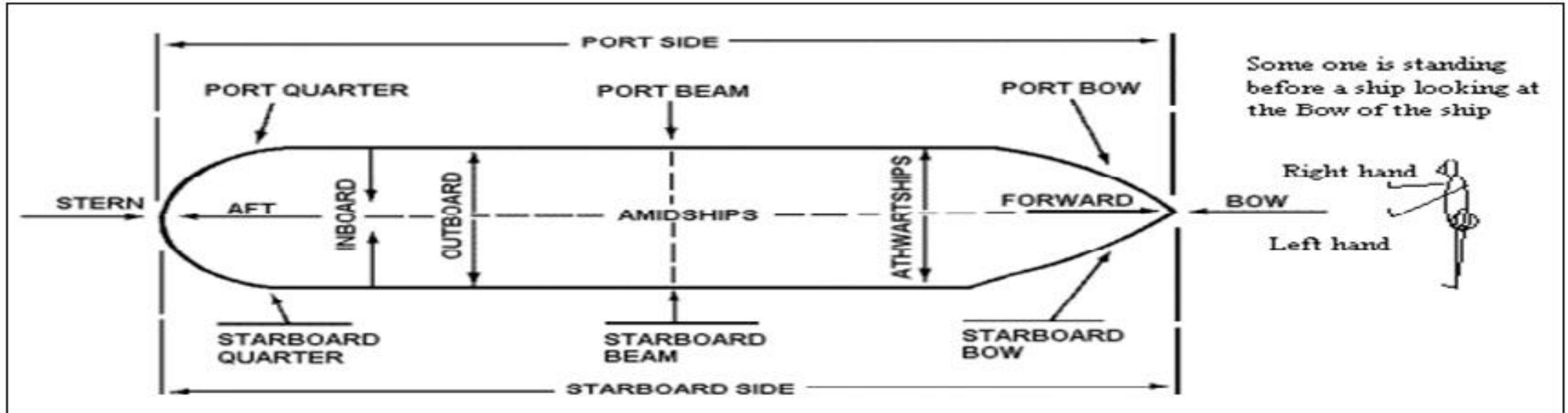


Accommodation ladders and gangways fitted on *ships* are used to support the means of embarkation and disembarkation. For many people the gangway or accommodation ladder is the first point of contact with a ship.



Cabin: A cabin is a compartment on board a ship for the private use of the ship's crew, officers, captain and or passengers

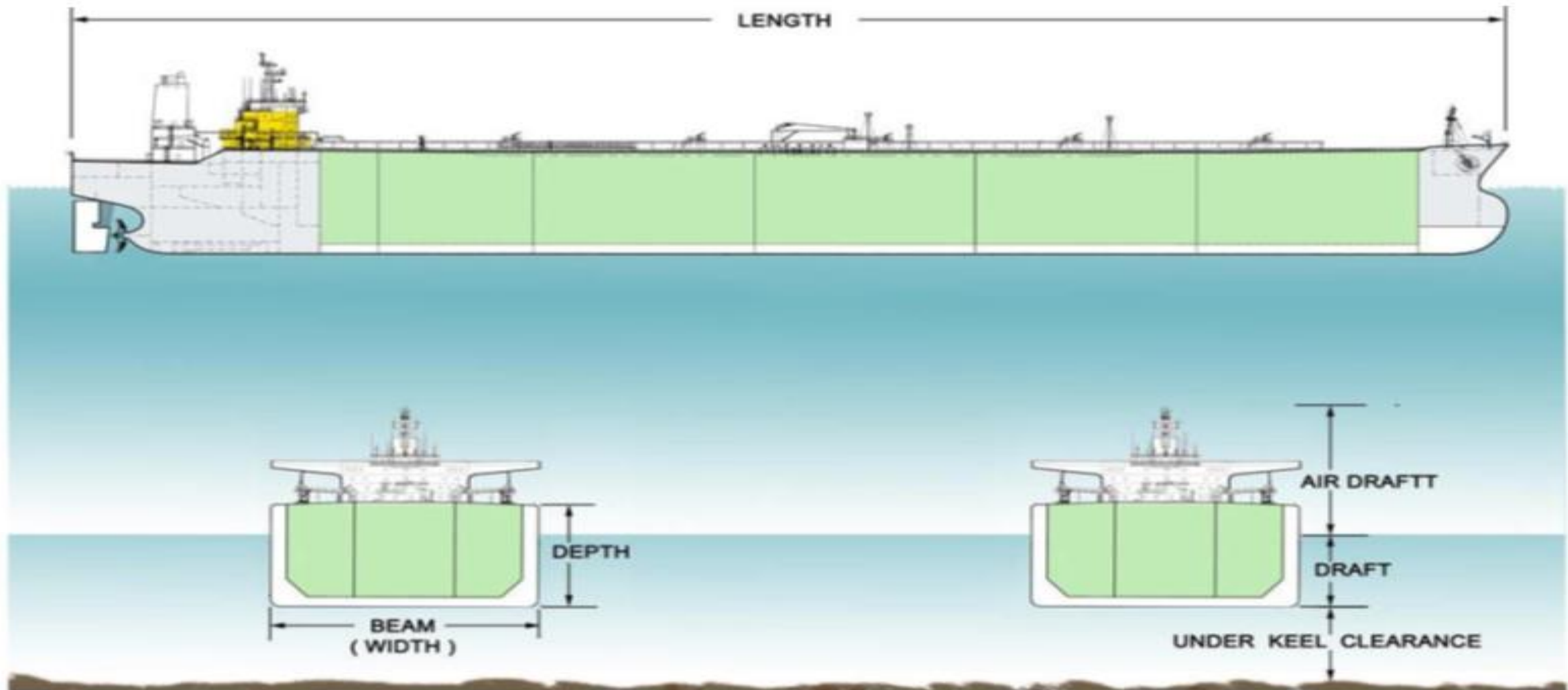
Ship's port and starboard side



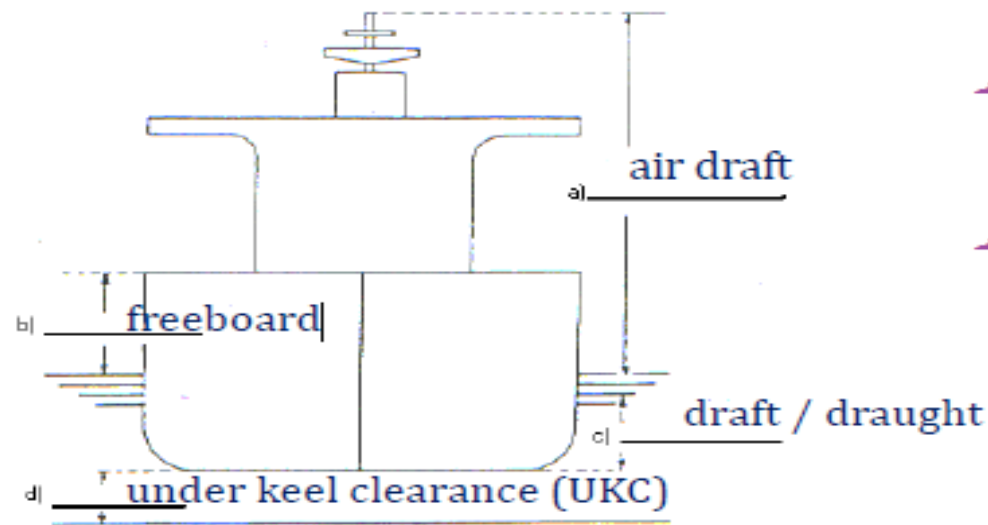
WEIGHT TONNAGE TERMS

- DISPLACEMENT (W) - The weight of water of the displaced volume of the ship, which equals the weight of the ship and cargo. In other words: it is the weight of the volume of water displaced by the hull.
- DEADWEIGHT - total weight of cargo, stores, fuel and water needed to submerge a ship from her light draught to her maximum permitted draught; it is given by the difference between the load displacement and light displacement (also known as lightweight). *DWT* for short
- GROSS TONNAGE - Gross Tonnage is a measure of volume inside a vessel. This includes all areas from keel to funnel and bow to stern. Gross tonnage is the complete physical volume of space a cargo ship's hold has. The means to calculate gross tonnage is laid out in the International Convention on Tonnage Measurement of Ships. Gross Tonnage is used to determine the number of crew, safety rules, registration fees, and port dues. It is the standard most often used to define a vessel.
- NET TONNAGE - The tonnage most frequently used for the calculation of tonnage taxes and the assessment of charges for wharfage and other port dues. Net tonnage is obtained by deducting from the gross tonnage, crew and navigating spaces and an allowance for the space occupied by the propelling machinery.
- Net tonnage is a method of calculation for how much cargo space a ship has. It is not a measure of weight or mass, or the displacement weight of a ship, but instead **a volume measurement**. Each ton in a net tonnage figure is equivalent to 100 cubic feet (2.83 cubic meters) of space.
- CARGO DEADWEIGHT - Capacity is determined by deducting from total deadweight the weight of fuel, water, stores, dunnage, crew passengers, and other items necessary for use on a voyage.

A ship's **Length Overall [LOA]** is measured in feet and inches from the extreme forward end of the bow to the extreme aft end of the stern. The **beam** of a **ship** is its width at the widest point as measured at the **ship's** nominal waterline. The **beam** is a bearing projected at right-angles from the fore and aft line, outwards from the widest part of **ship**. **Air draft** (or **air draught**) is the distance from the surface of the water to the highest point on a **vessel**. This is similar to the "deep **draft**" of a **vessel** which is measured from the surface of the water to the deepest part of the hull below the surface, but **air draft** is expressed as a height, not a depth.

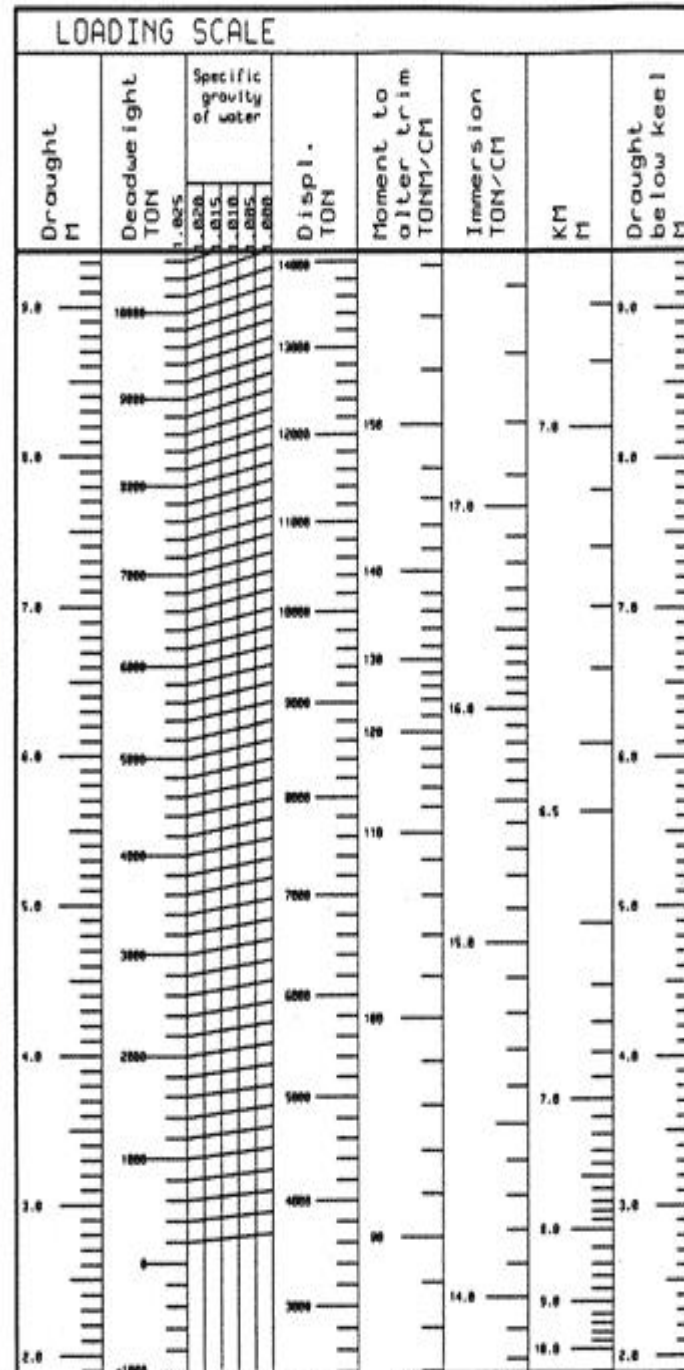
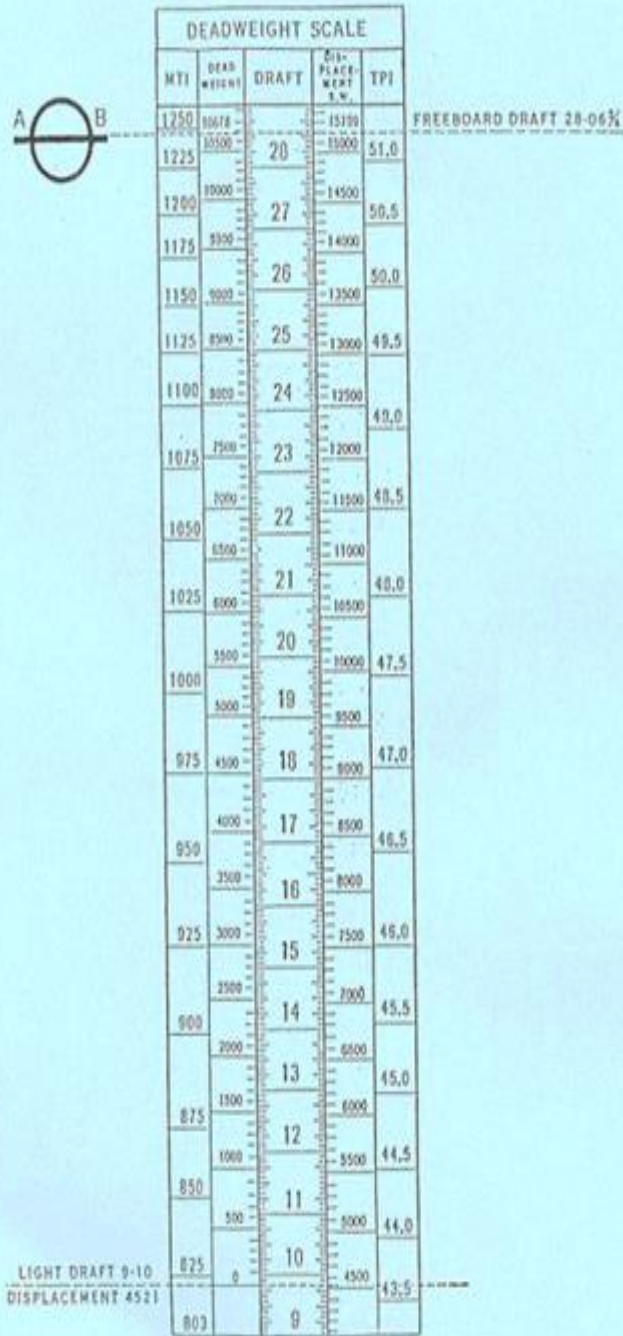


Draft



Draft mark at the bow

- The draft aft (stern) is measured in the perpendicular of the stern.
- The draft forward (bow (ship)) is measured in the perpendicular of the bow.
- The mean draft is obtained by calculating from the averaging of the stern and bow drafts, with correction for water level variation and value of the position of F with respect to the average perpendicular.
- The draft of a ship can be affected by multiple factors, not considering the rise and fall of the ship by displacement:
 - *Draft variation by list.*
 - *Draft variation by water level change.*
 - *Allowance of fresh water draft variation by passage from fresh to sea water or vice versa.*
 - *Heat variation in navigating shallow waters.*



The dead weight scale is made up of several columns :

Column A (dead weight ton-saltwater) gives the lift capacity of the vessel.

Column B (draft [feet or meters] to bottom of keel) shows the mean draft in feet and meters.

Column C (displacement tons, saltwater) gives the displacement tonnage of the ship plus any material placed in the vessel.

Column D (tons per inch or centimeter immersion) denotes the number of tons required to change the mean draft of the vessel 1 inch or centimeter at various drafts

Bale Capacity:

This is the cubic capacity of a space when the breadth is taken from the inside of the cargo battens, the depth from the wooden ceiling to the underside of the deck beams and the length from the inside of the bulkhead stiffeners or sparring where fitted.

Grain Capacity:

This is the cubic capacity of a space when the lengths, breadths and the depths are taken right to the ships side plating. An allowance is usually made for the volume occupied by frames and beams.

Stowage Factor:

This is the volume occupied by unit weight of cargo. Usually expressed as cubic metres/ tonne. It does not take into account space, which may be lost due to broken stowage. However it obtained by multiplying the greatest length by the greatest breadth with the greatest height.

Broken Stowage:

The space between packages which remains unutilized. This is generally expressed as a percentage and the amount that is to be allowed varies with different cargo and the shape of the hold. It is greatest when large cases have to be loaded in a narrow end hold, where the after end narrows down considerably.

BS is generally not given in any of the booking lists, but is a ship/ hold experience factor or a sister ship experience factor for that particular cargo. The most commonly accepted figure is about 10%, thus with a BS of 10% the available cargo space that may be loaded would be 90%.

Terms used for calculating freight

Activity	Responsibility of Cargo Operation	
	Load Port	Discharge Port
Full Liner Term (FLT)	Owner	Owner
Liner In Free Out (LIFO)	Owner	Charterer
Free In and Liner Out (FILO)	Charterer	Owner
Free In Out Stow Trim (FIOST)	Owner	Owner
Berth term/Berth term (BT/BT)	Owner	Owner
Hook/Hook (HT/HT)	Owner	Owner

Apart from above terms, following terms are also used

WOWO means Walk on Walk off - for cattle

FOFO means Float on Float off - for boats, ships, yachts, off shore oil drilling rigs etc.,

RORO means Roll on Roll off

Sto-Ro means Stowable Roll on Roll off

Terms used for of calculating freight rates :

FIOS (Free In, Out, Stowed):

It is most important to remember that the "Free" reference is viewed from the Ship Owners point of view - not the Shipper's. Freight rates quoted on a FIOS basis specifically exclude all aspects relating to cargo handling operations.

The ship is only responsible for expenses arising as a result of the ship calling into the port, i.e. port dues, pilotage, berth hire and light dues etc. Another very important consideration when booking cargo on FIOS terms is that the ship does not bear any responsibility for the speed of loading or discharging. Usually the rate agreed includes a fixed "free" period of time for loading/discharging operations, after which time a daily demurrage is incurred. Obviously this is of paramount importance where port congestion or stevedoring performance is uncertain. There are many overseas ports which fall into this category and particularly where vessel demurrage rates can vary significantly, depending on the size and type of ship nominated to undertake the particular project.

Full Liner Terms:

This is somewhat a vaguer term given different port practices. However, it generally implies that the freight amount provided includes both shore based and on-board stevedoring, lashing/unlashing, dunnage materials, securing/unsecuring and all costs of presenting to/receiving the cargo from the ship's side; with the shippers/receivers just bearing the cost of discharging from/reloading to the transport, along with the usual port charges/levies/taxes etc.

Frequently the terms are varied at different ends of the voyage i.e. FILO (Free In/Liner Out), LIFO (Liner In Free Out) or FIFO (Free In/Free Out) etc. To be absolutely sure of all liabilities, it is always advisable to request that terms clearly and concisely indicate what is/isn't included in your particular contract - in layman's terms.

Manifolds



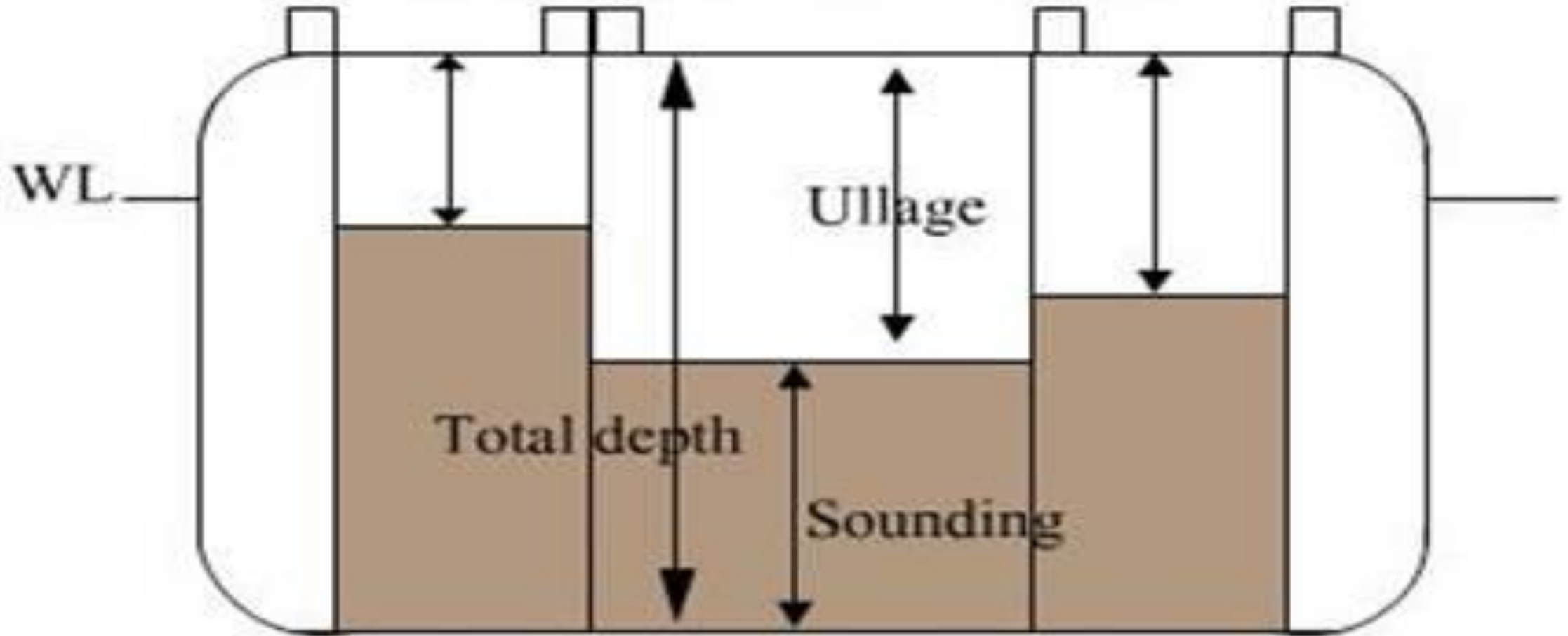
Loading arms



Liquid Cargo measurement

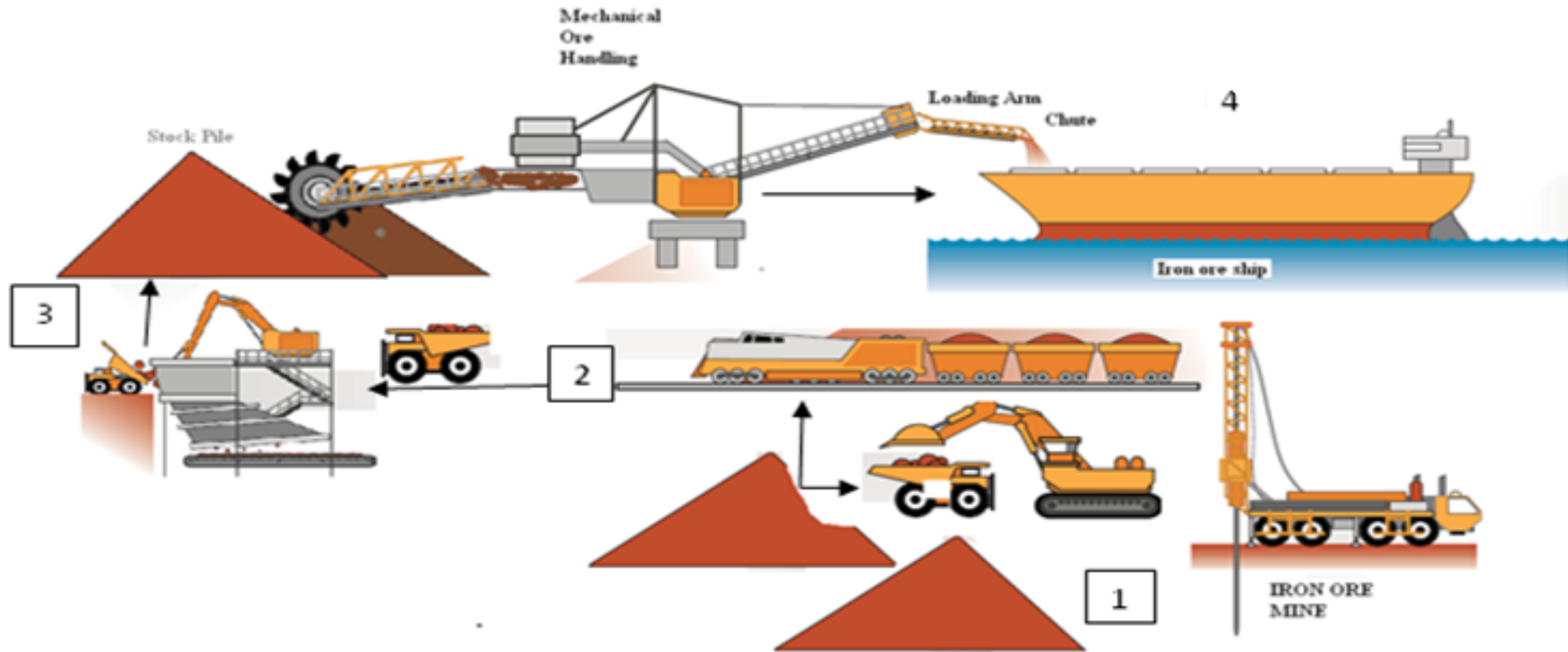
$$\text{Sounding} + \text{Ullage} = \text{Total depth}$$

Ullage is measured from the top down



Sounding is measured from the bottom up

Mechanical Ore Handling



1) Iron ore extracted from mine 2) Iron ore loading and transported from mine site to Port (Transportation from mine site to railway siding transportation, loading at rail wagon involved) 3) At port iron ore offloaded to Stock Pile which will be mechanically transported by reclaimer to conveyor belt and through loading arm chute, loaded onto ship



Cranes work in tandem



Newsprint paper rolls being loaded into hold



Steel pipes being loaded into hold



Granite Rough Blocks stowed into hold



Steel Coils stowed into hold



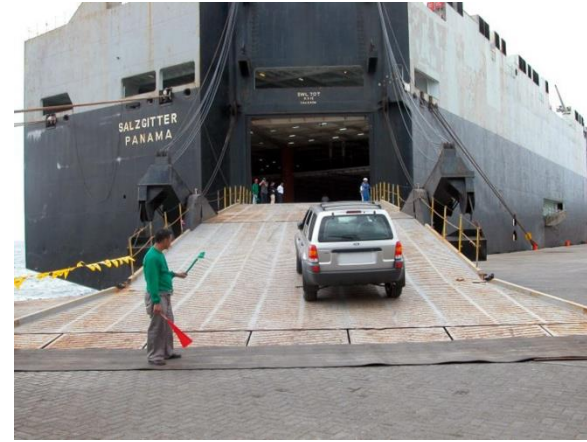
Steel Tubes lowered into hold



Cars are stowed and secured on board a Pure Car Carrier (PCC)



Cars are rolled out from a Pure Car Carrier (PCC)



LIVESTOCK CARRIER WALK ON/WALK OFF (Wo/Wo)

GLOBAL COMMUNICATION NETWORKS

In 1979 the UN International Maritime Organization sponsored the establishment of the International Maritime Satellite Organization (INMARSAT)

Inmarsat C is one of the most flexible mobile satellite message communication systems in the World, it has the ability to handle commercial, operational and personal messages just as easily as distress and safety communications.

Inmarsat C is recommended for the any of the following applications:

E-mail and messaging

Fax and telex

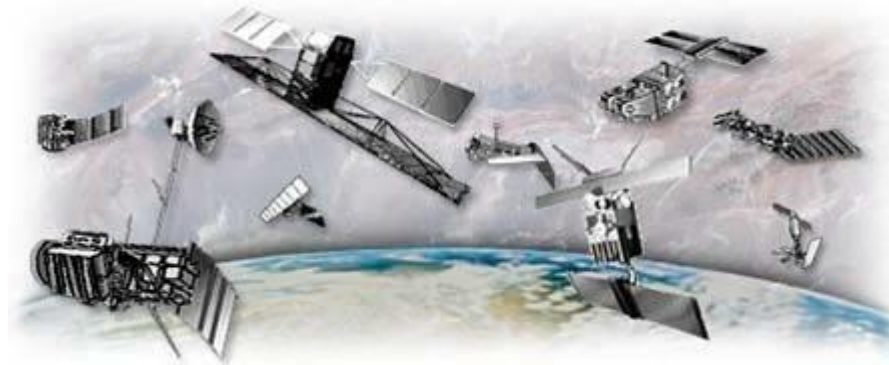
SMS text

Remote monitoring

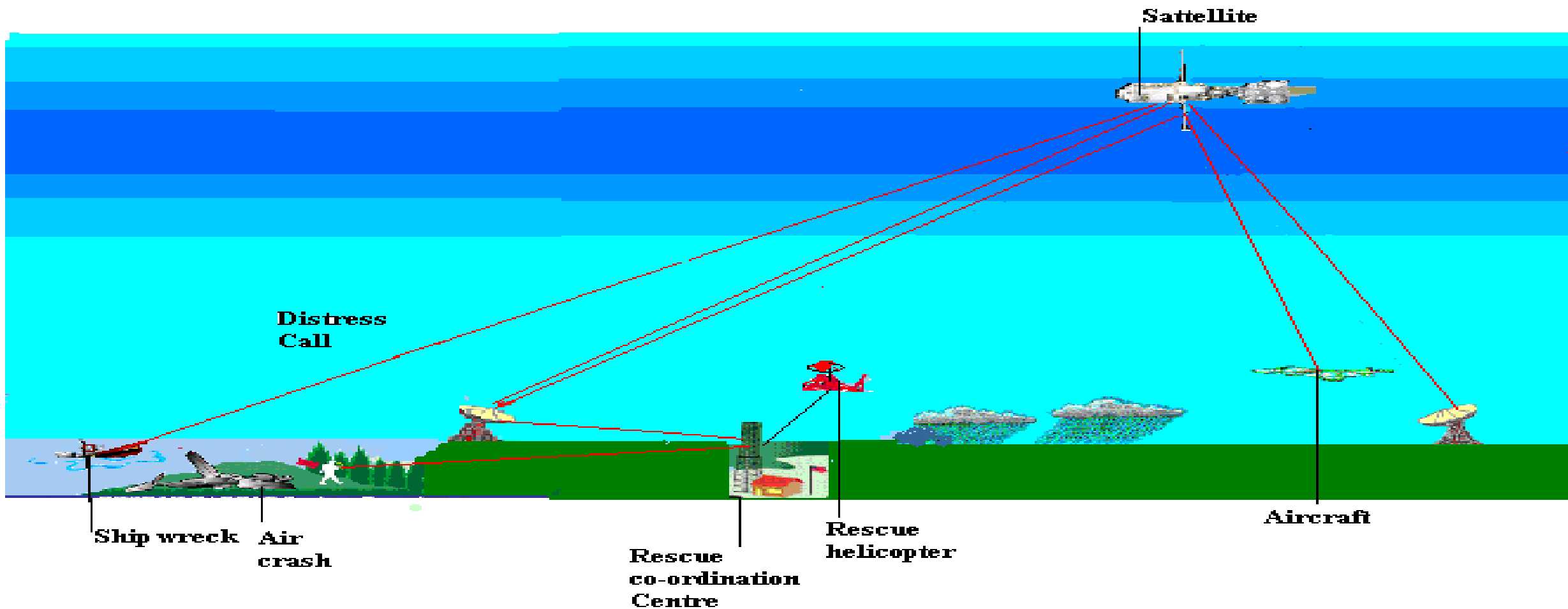
Tracking

Chart and weather updates

Maritime safety information

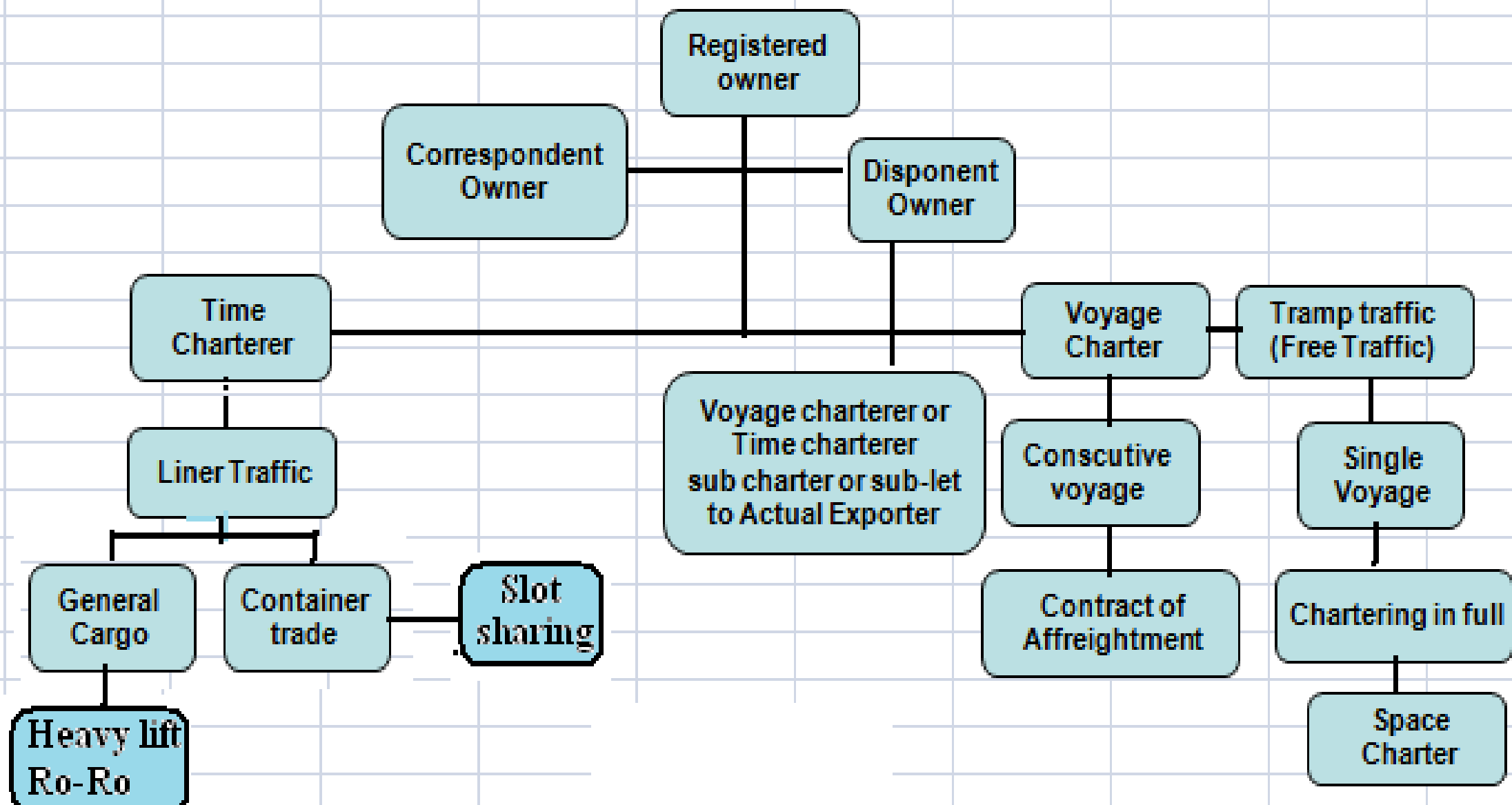


DISTRESS AND SAFETY SATELLITE COMMUNICATION



Ocean Region Code

Ocean Region	All Ocean Region	Pacific	Indian	Atlantic-West	Atlantic-East
Telephone, Facsimile	870	872	873	874	871




```

graph LR
    Seller[Seller] --- Channel(( ))
    Channel --- Buyer[Buyer]
    Channel --> Point[ ]
    style Point fill:none,stroke:none
  
```

Mode of payment

As per sale contract term if **FOB term**, Buyer become charterer

BANK

BANK

Cargo Loading and Discharging expenses borne by Ship owner under Liner term

Charter Party signed between Charterer and Shipowner

Vessel arrives load port, loading of cargo completed, freight in full paid by charterers to ship owner then Bill of Lading will be released by ship owner to

At discharge Port, upon submission of Original Bill of Lading the Cargo will be released to Receiver/Importer/Charterer

CHARTERING NEGOTIATIONS

CHATERER ←

→ SHIP OWNER

↓
BROKING COMPANY

↓
Main terms

↓

Cargo name & Quantity
Load & Discharge port
Load port loading quantity
per day
Discharge Port discharge
quantity per day
Freight indication if any
Cargo readines date

↓
Sub terms

↓

Ship particulars such as name of
ship, IMO number, call Sign,
Classification Society, P&I Club,
Valid certificates, Ship's Gross
/Net/Dead weight, number of
hatches/holds, crane & capacity,
cargo Bale/Grain capacity, year of
built. Draft, Beam, Air draft, mainly
freight indication

LayCan, Lay Time, Detention & demurrage of ship and despatch
Freight payment term and term for releasing of Bill of Lading

FREIGHT CALCULATION FOR VOYAGE CHARTER

Register ship owner

Ship building Cost or Purchase of second hand ship cost
Bank, Share holders, Holdings or individual proprietor

Bareboat charter

Who agrees to pay daily charter hire till the life of the ship hence it is called demise charter. Probably the Demise charter can acquire ship during the life of ship

Time Charter

Who agrees to pay daily charter hire for a specific period of time such as six months, one year, five year and so on....

As per Sale Agreement
Buyer CFR term Seller FOB term will become **CHARTERER**

Voyage Charter

Who agrees to pay for a particular voyage per metric ton of cargo for a particular days agreed by Voyage charterer and if the days exceeded, he has to pay ship owner demurrage and if the ship is despatched quickly the ship owner pays despatch money to the Charterer

VOYAGE CHARTERER

SHIP OWNER

Loading and discharging expenses at load and discharge port
Local Taxes, Custom charges, Port charges to accumulate total cargo at Dock.

Daily charter hire payable to owners + bunker charges i.e. Fuel oil expenses at sea voyage + Diesel Oil expenses at Port stay + Lubricant oil expenses for both sea and at port. Any other ship & crew related expenses

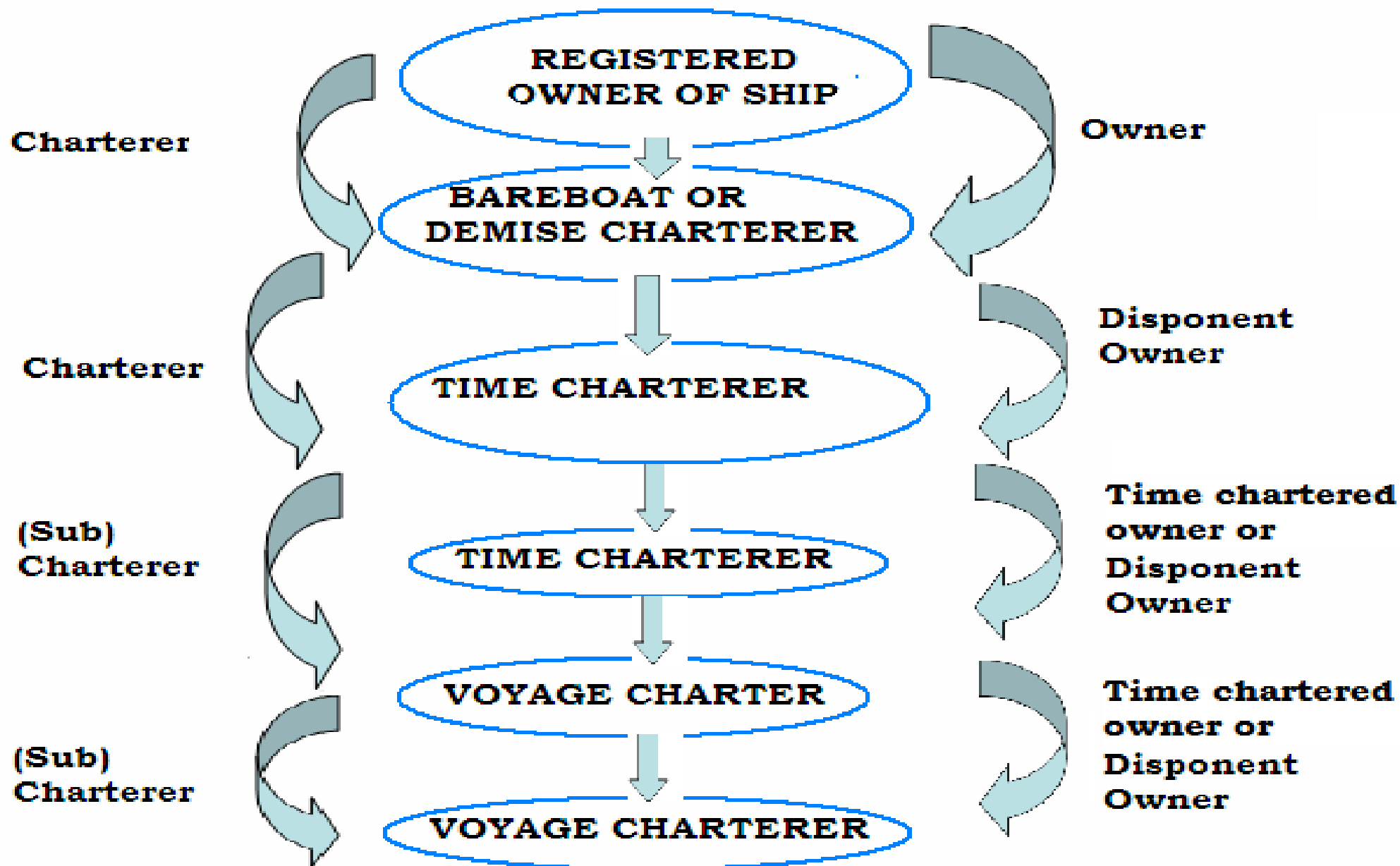
WILL ARRIVE TOTAL COST DEVIDED BY QUANTITY OF CARGO PER METRIC TON, ADD HIS PROFIT DEPENDING UPON BALTIC DRY INDEX /DEMAND & SUPPLY

OWNERSHIP

xx %	xx % Ownership
/B	Bare-boat Charter
-MGMT	Commercial Management
-OP	Commercial Operations
CREWING	Crewing
MGMT	Ship under management
O	Managing Owner
P	Operator
OWNER	Ship's owner
POOL	Ship employed in pool
OW	Part Owner
/C	Time Charter
C/BB	Time Charter/Bare-boat
-MGMT	Technical Management

RISK

Activity	Bareboat Charterer	Time Charterer	Voyage Charterer	Liner Shipping
Capital costs	Owner	Owner	Owner	Owner
Port charges	Charter	Charter	Owner Charter &	Owner
Time Risk in Port	Charter	Charter	owner	Owner
Loading and Unloading	Charter	Charter	Carter & Owner	Owner
Bunkers	Charter	Charter	Owner	Owner
Time risk at Sea	Charter	Charter	Owner	Owner
Canvassing/seeking Cargo	Charter	Charter	Owner	Owner
Manning & Crewing	Charter	Owner	Owner	Owner
Maintenance and Repair	charter/Owner	Owner	Owner	Owner
Hull ,War & P&I Insurance	charter/Owner	Owner	Owner	Owner



Steamer agents

Ship owners and charterers cannot be present at every port their ship docks at, or watch over every deal secured for employment; there simply isn't enough time if they want to build their business. But, as you would expect, they also do not want to wash their hands of the day-to-day operations of these multi-million dollar assets. The middle ground comes in the form of a Ship's Agent, a person or firm who transacts all business on behalf and under the direction of a ship owner or charterer

What is it like working as an Agent?

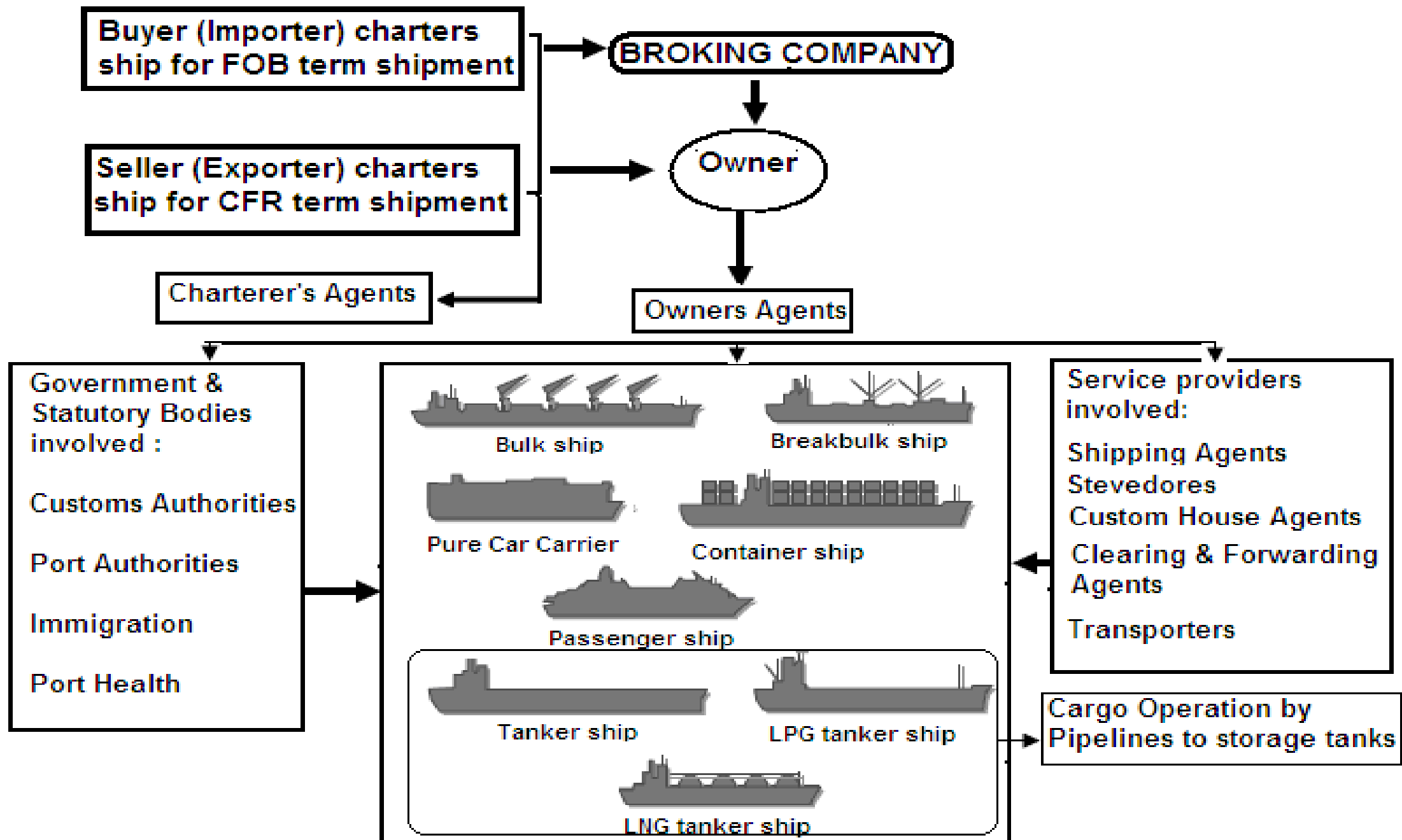
The list of 'jobs' that need to be done when a ship calls at a port is exhaustive – arranging for loading and unloading of cargo, purchasing stores, arranging crew changes, organising inspections, booking repairs... and so on.

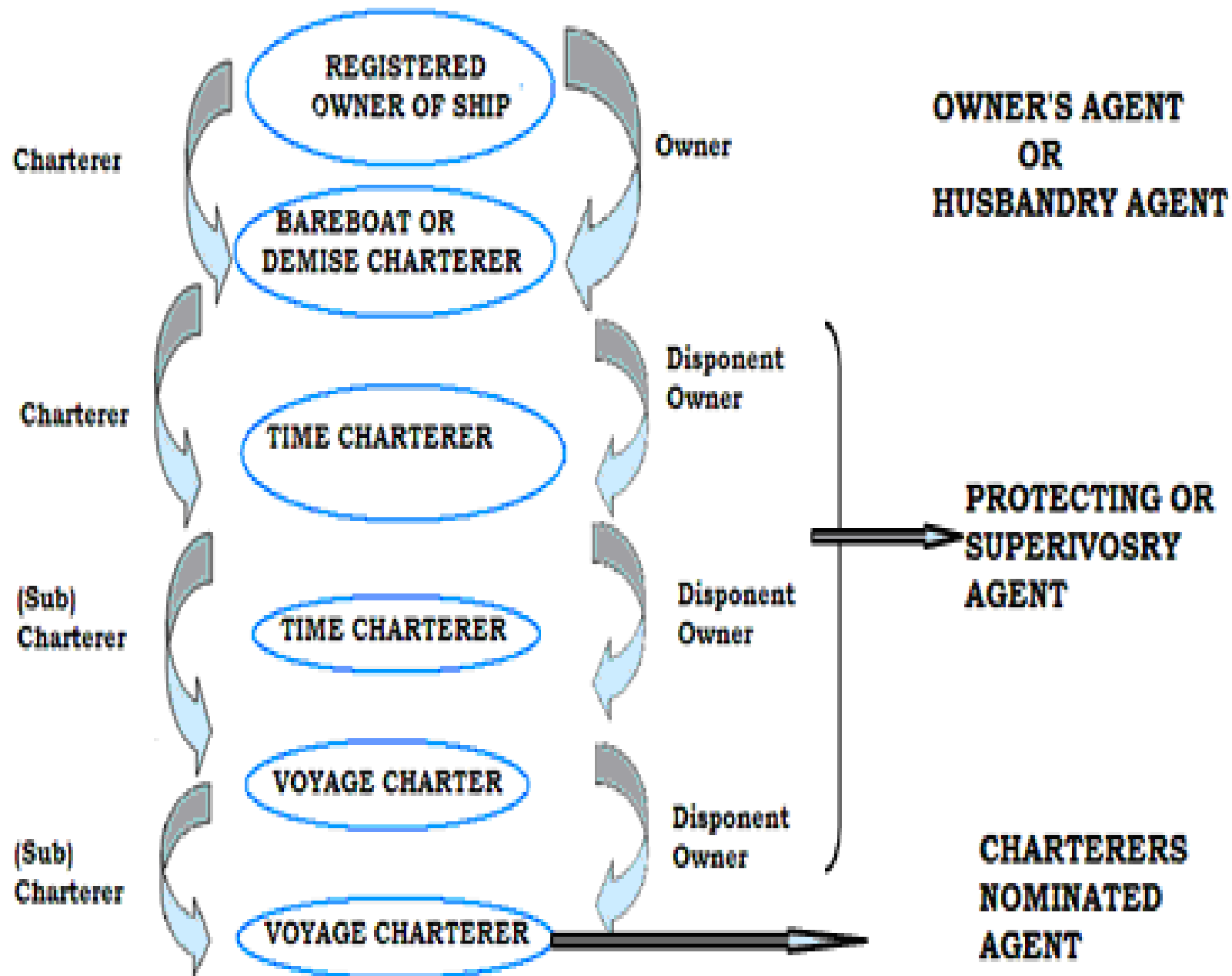
Add to that the need to have local contacts in every port that the ship calls to successfully, and cost effectively, perform those duties, and the importance of a local agent becomes clear.

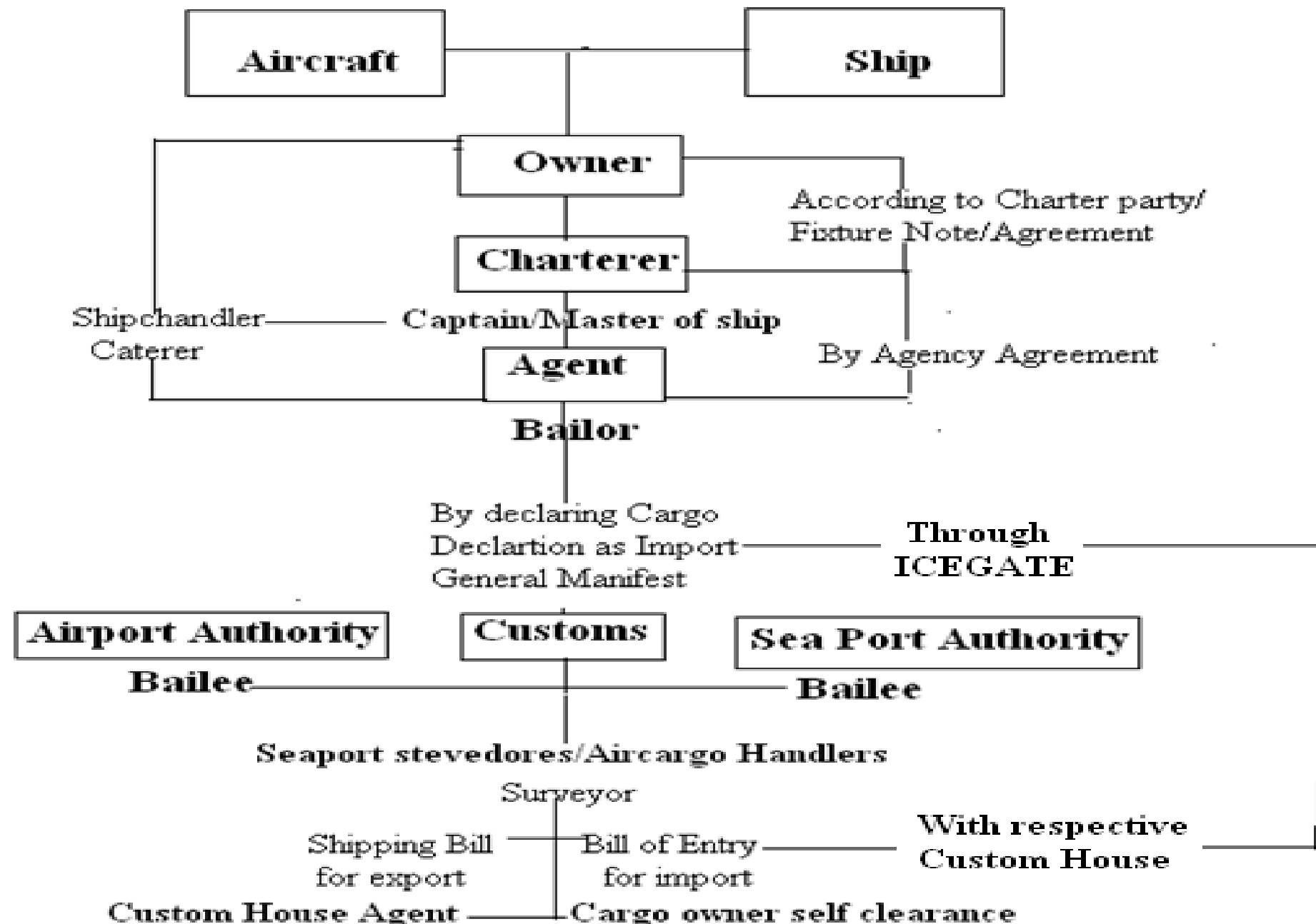
Acting for, or on behalf of, another, Agents provide an onsite operations person with knowledge of the ins and outs of conducting business in a particular port, in locations where the ship owner or operator may not have an office or personnel.



FLOW CHART OF AGENCY WORK







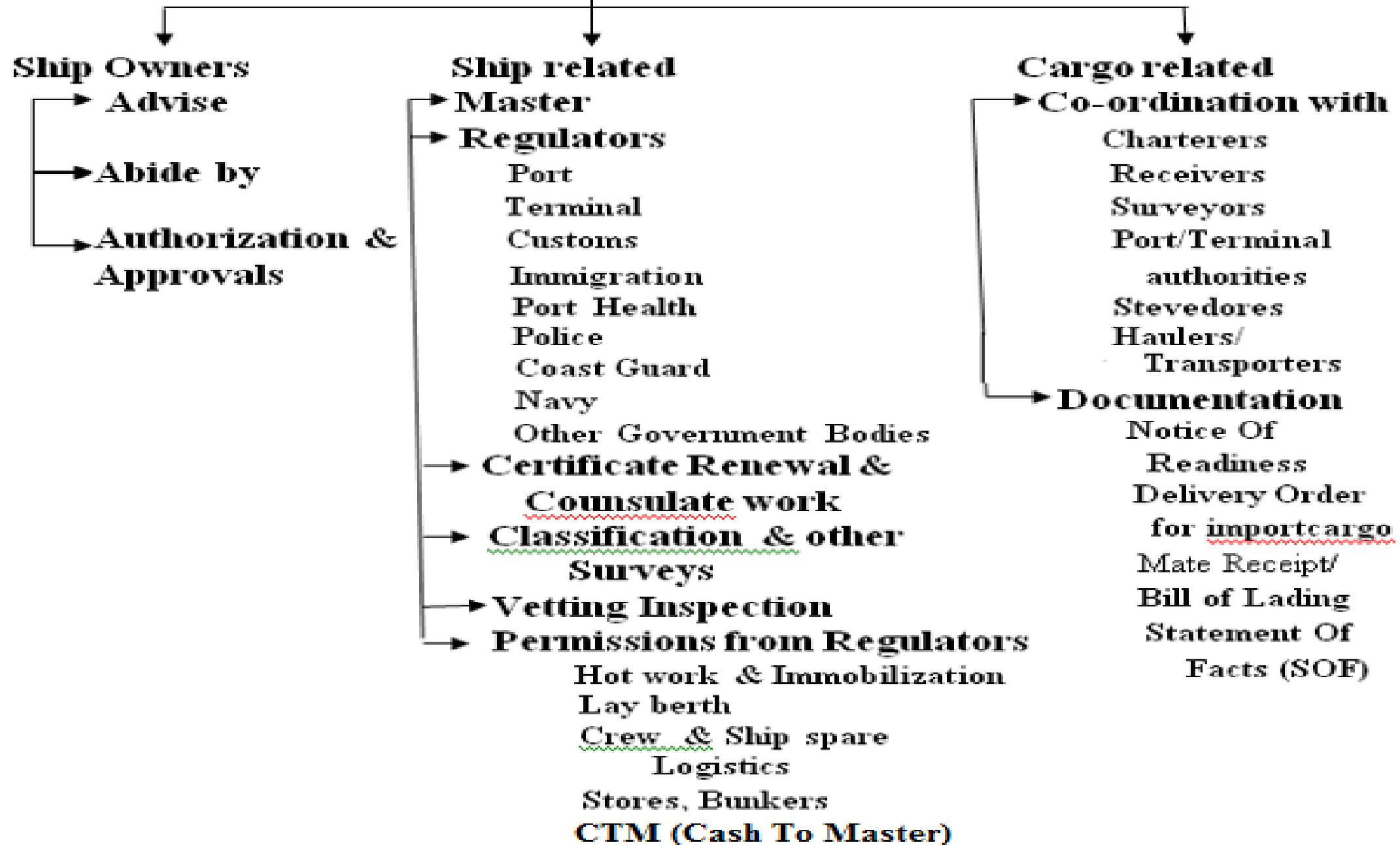
MAIN DIFFERENCE BETWEEN TRAMP AND LINER SHIPPING

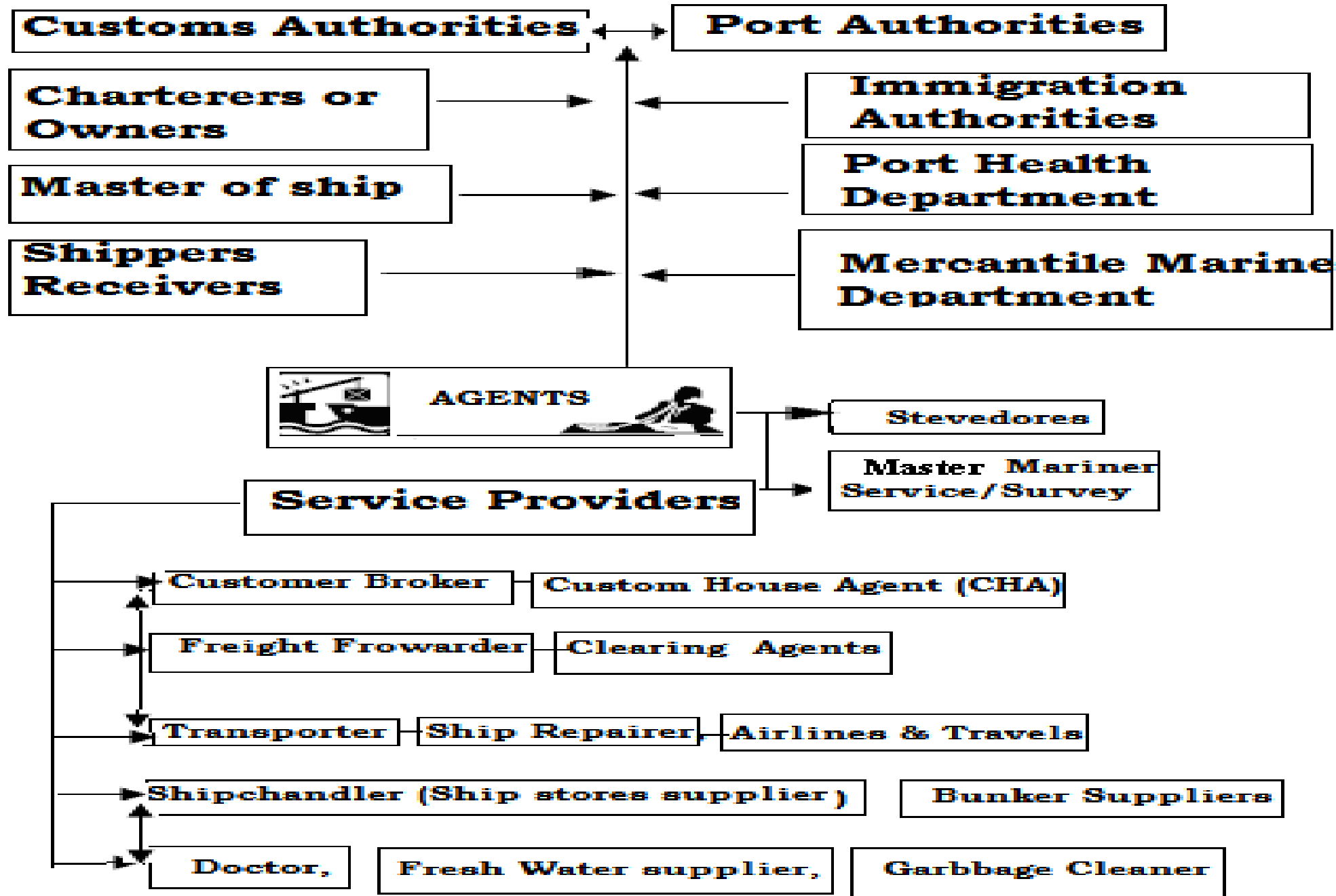
TRAMP SHIPPING	LINER SHIPPING
<p>Operates indeterminate dates</p> <p>Subject to inducement of cargo</p> <p>Lower fixed cost</p> <p>Placement of vessels depending upon the volume of cargo</p> <p>Tramp vessel can wait till cargo is filled up.</p> <p>Overheads is less</p> <p>Cargo booking done through Ship or cargo brokers</p>	<p>Operate predetermined dates</p> <p>Offers regular scheduled service</p> <p>Higher fixed cost</p> <p>Number of vessels to put in Liner service is determined by ports of call, frequency, distance and speed</p> <p>Vessels arrives & sails port empty or load as per schedule</p> <p>Administrative Overheads are high</p> <p>Cargo Booking will be taken care by Marketing & Sales personnel</p>

Principal	Agents	Services
Registered Owner/ Bareboat charterer/ Time Charterer	Owner's Agent	If charter party allows the owner or Bareboat or Time charterer to appoint their own agents, at the load and discharge ports to handle port/customs entry & clearance port disbursements by paying port dues, pilotage, berth hire, light house dues and all other matters, those agents are called 'Owners Agents'
Registered Owner/ Bareboat charterer/ Time Charterer	Husbandry agent	Shipowners appoint their own agents to attend non-cargo matters specifically those matters related to vessels repairs, supplies of stores, provision, bunker, survey and any other reasons for the vessel to call..
Owner or Time charterer	Protecting or Supervisory agent	In this case, the owners and charterers appoint individually their agent to protect their interest when under the charter party the vessel is consigned to another's agent. For example according to the Charter party owners appoint their agent, to protect charterers interest, charterers may appoint their agent. If the Charter Party permits Charterers to appoint agent, then Owners nominate their agents to protect their interest.
Voyage charterer	Charterer's nominated agent	As the charterers have the right to nominate their agents at load and discharge port to handle all their requirements, port disbursements by paying port dues, pilotage, berth hire, light house dues. Some time owners also may also ask them to look after their interests and vessel & Master's requirements as an additional responsibility. They are called as 'Chartered nominated agents'

Tramp Ship Agent

(Agency work flow chart)





AGENTS DUTIES AND RESPONSIBILITIES WITH PORT AUTHORITIES:

BEFORE ARRIVAL OF VESSEL:

VESSEL'S PARTICULARS, CARGO DETAILS, STEVEDORE'S DETAILS, PLANNING OF CARGO OPERATION, ARRANGEMENTS OF DIRECT RECEIPT OF HEAVY LIFT CARGO FROM SHIP, FOR OBTAINING SUITABLE BERTH.

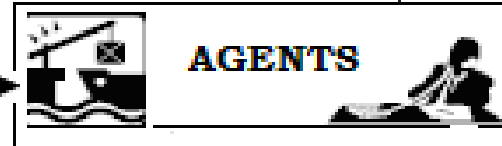


ONCE SUITABLE BERTH IS ALLOTTED BY PORT AUTHORITIES:

PAYMENT OF MARINE DUES SUCH AS PORT DUES, PILOTAGE, BERTH HIRE FOR CALCULATED STAY OF SHIP AT BERTH



CO-ORDINATION WITH TRAFFIC DEPARTMENT FOR ARRANGEMENT OF RECEIVING CARGO,



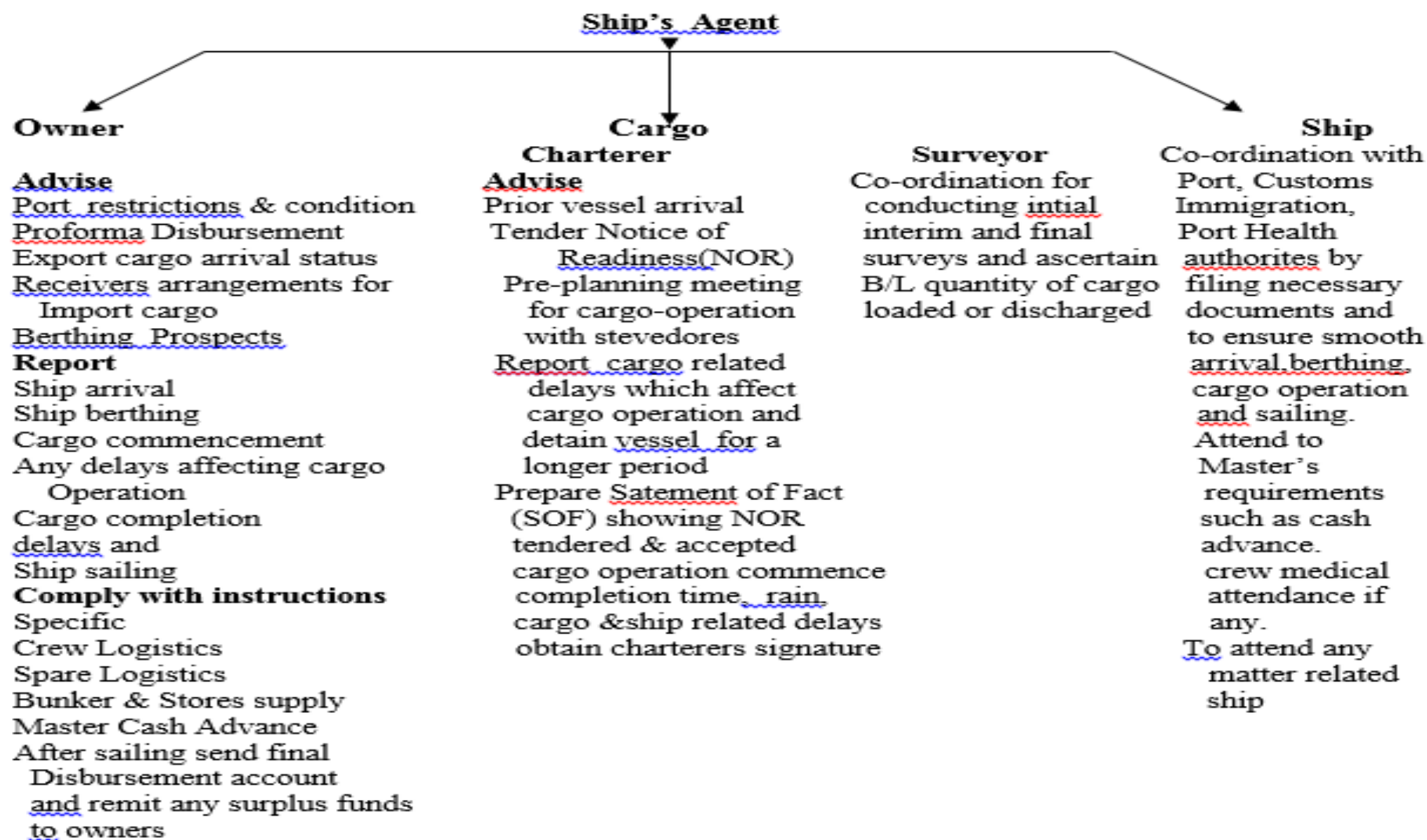
CO-ORDINATION WITH SHIPPERS OR RECEIVERS. CUSTOM HOUSE AGENTS OR FREIGHT FORWARDERS, CLEARING AGENTS FOR SUBMISSION OF CUSTOMS & PORT DOCUMENTS

AFTER VESSEL'S BERTH (COMING ALONG SIDE);

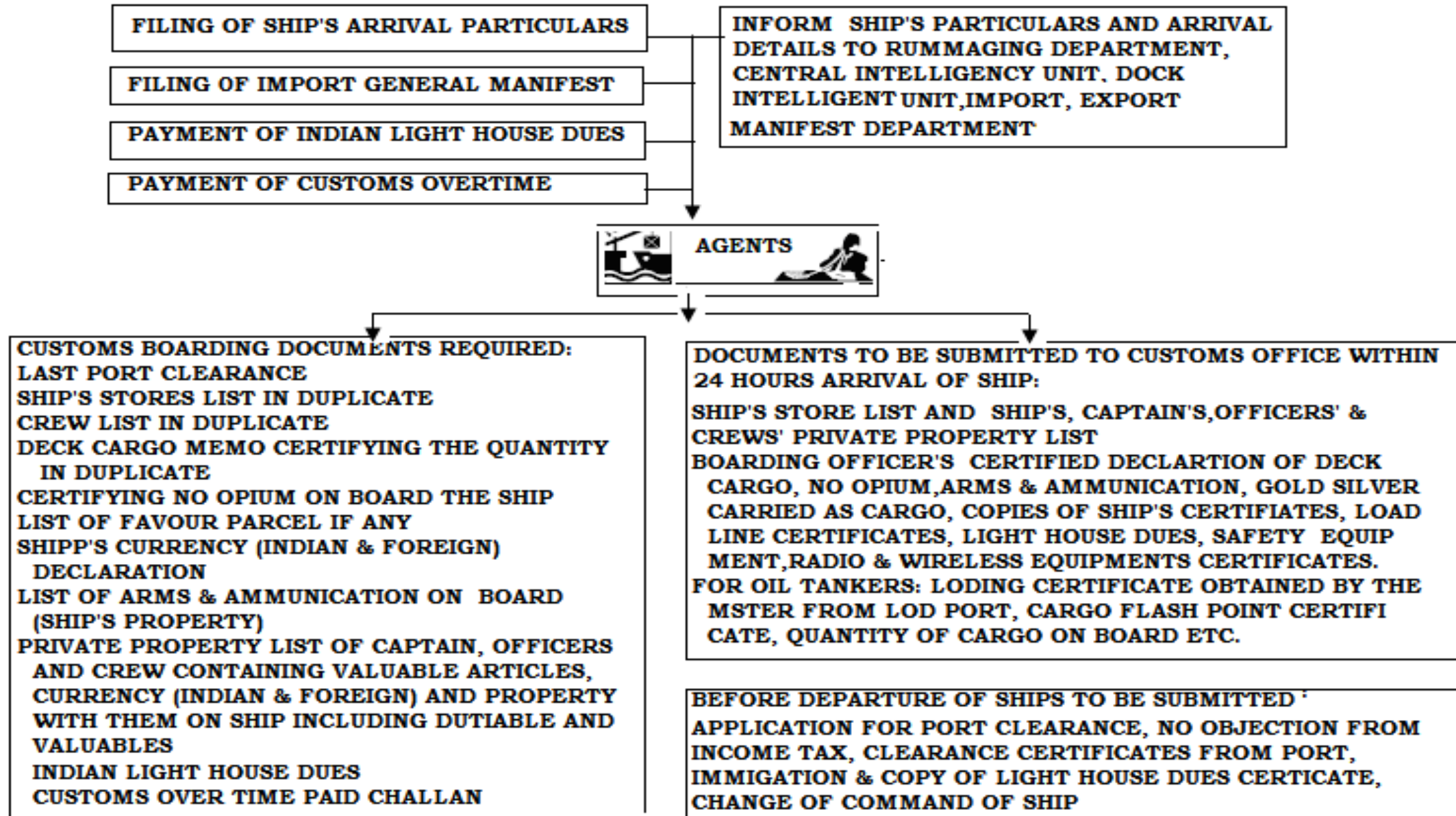
ARRIVAL PARTICULARS, COPY OF SHIP'S REQUIRED CERTIFICATES TO CONFIRM THE TONNAGE

DURING CARGO OPERATION: THE AGENT OR THEIR REPRESENTATIVE TO BE PHYSICALLY AVAILABLE AT THE SHIPSIDE ALL THE TIME TO SUPERVISE THE CARGO OPERATION.

FOR EXPORT CARGO THE AGENT SHOULD ENSURE IN CONFIRMITY WITH PORT TRUST TALLY THAT THE CARGO LOADED ON BOARD IN APPARENT GOOD CONDITION, MASTER AGREES TO SIGN CLEAN MATE RECEIPT OR AUTHORISE THE AGENT TO RELEASE THE BILL OF LADING AND FOR IMPORT CARGO ALL THE CARGO LANDED IN GOOD AND SOUND CONDITION.



PROCEDURE TO BE FOLLOWED AND DOCUMENTS TO BE SUBMITTED TO CUSTOMS DEPARTMENTS:





IMMIGRATION DEPARTMENT

Advise vessel's arrival particulars along with copy of crew list.

Intimate Immigration Officer vessel's berthing time and request in the prescribed format along with crew list.

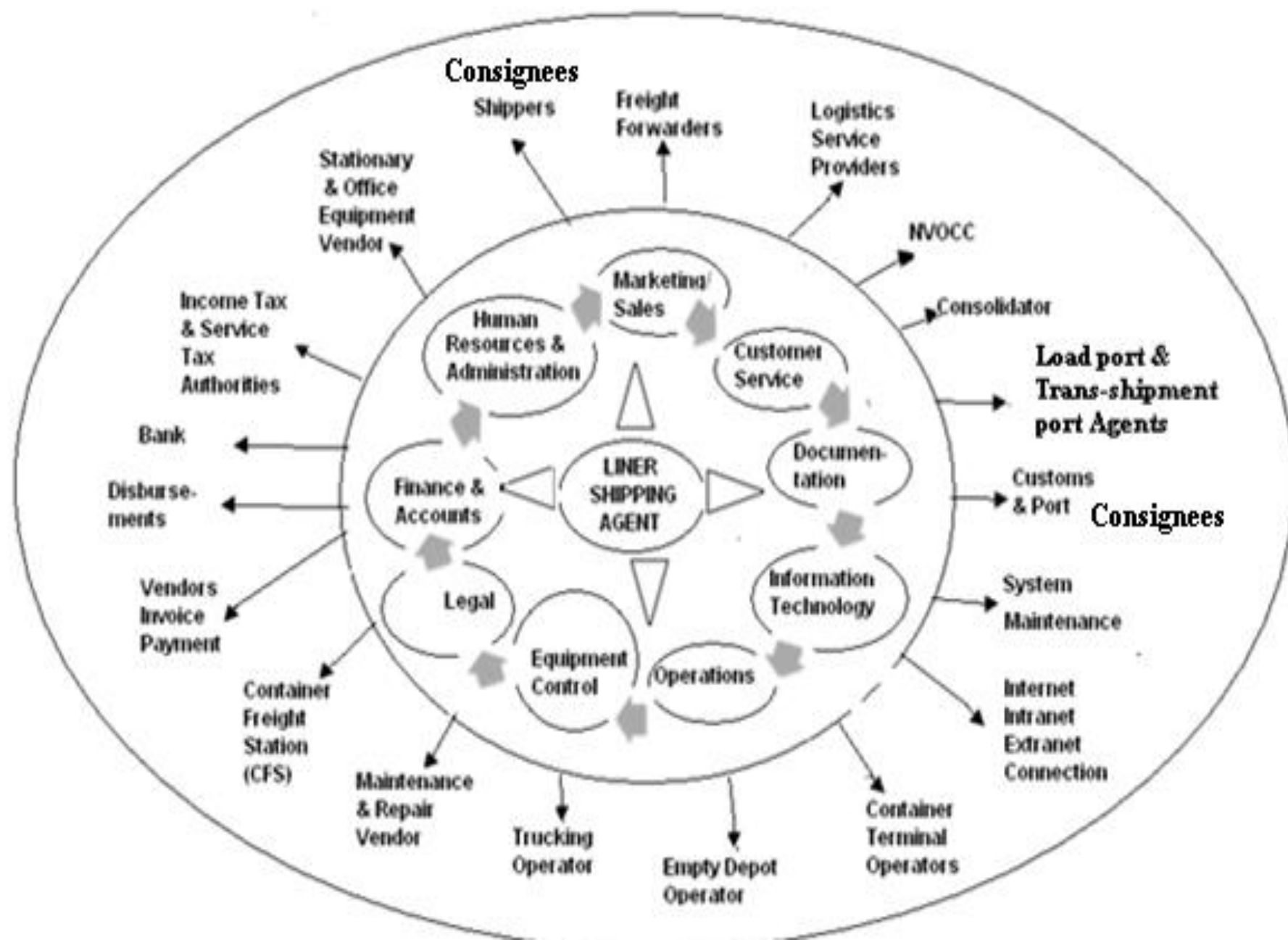
When the Immigration officer boards the vessel, make the Master of the vessel to present his, officers and crew's and if cruise/passenger ship to produce all passenger's passport for verification and to issue them temporary shore passes. (As per Immigration rules issuance of shore passes to Srilankan, Pakistani & Bangaladeshi crew is restricted)

PORT HEALTH DEPARTMENT

Instruct Master of ship to apply for Radio Free Pratique by sending Pratique message by cable or fax /email through agent to grant free pratique

If ship is coming from Yellow fever area request Port Health Officer to board vessel to check and issue clearance. to be brought from anchorage to suitable berth

Request Medical officer to board the vessel upon berthing or at outer anchorage to check crew for any contagious & infectious disease and inspect shi's galley (kitchen) for mortality of mice or insects



ISO container types and size



20ft



High Cube



40ft

Open top



Garment on Hanger (GOH container)



Tank container

Flat Racks



Reefer 20' & 40'

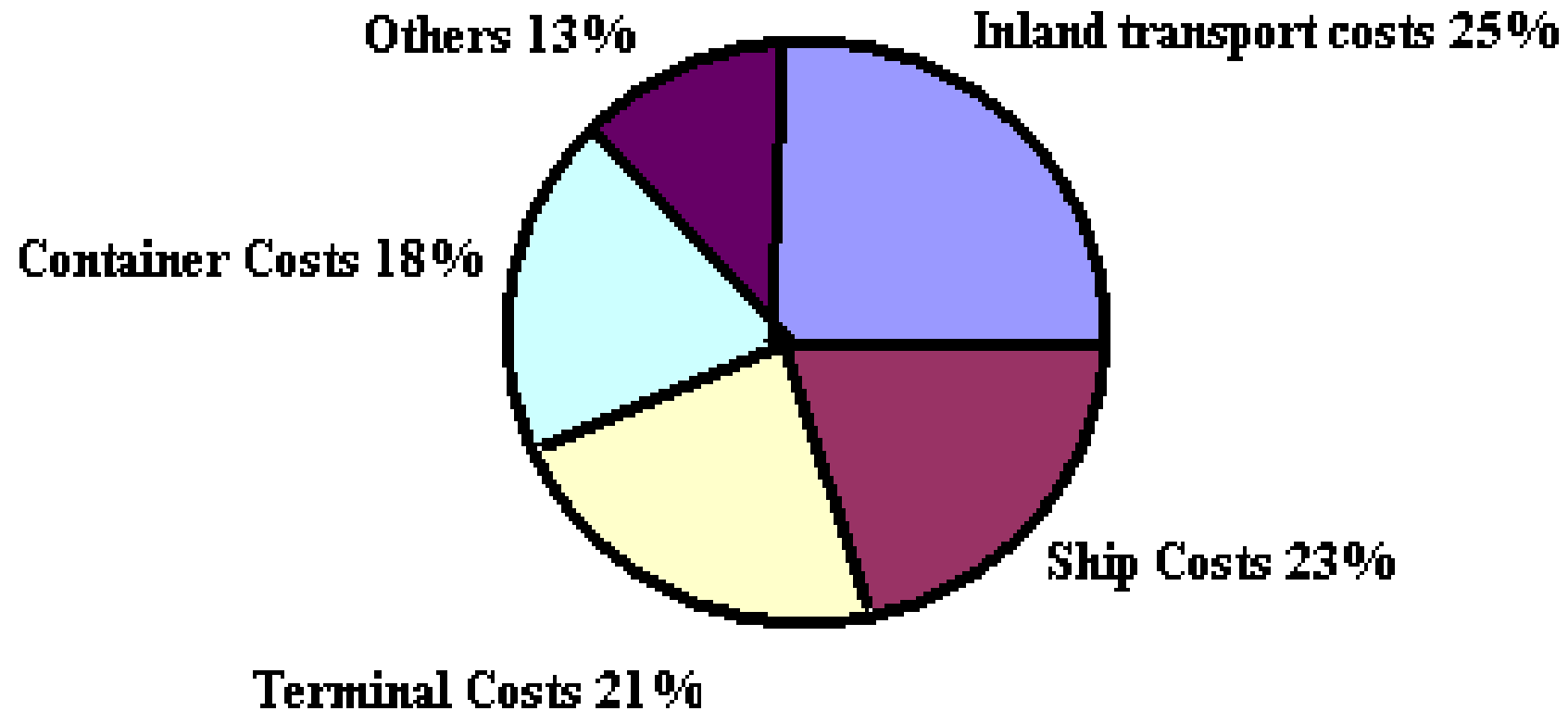


Container terminal





Freight Rate Mechanism



Freight components

- **INDICATIVE CALCULATION – OCEAN FREIGHT**
- 1. Basic Freight (FRT)
- 2. Transport Additional(Where applicable)
- 3. CAF on 1 and 2 (where applicable)
- 4 BAF/**FAF d(**)**
- 5. Any Other surcharges and Ancillar charges

Surcharges

Bunker Fuel — Compensates for wide fluctuations in marine bunker fuel and diesel oil at key (BAF/FAF) transpacific load ports.

Congestion — Addresses costs related to schedule delays, rerouting of cargo and other impacts from sudden or sustained port congestion.

Currency(CAF) — Covers increased local currency operating costs in Asian countries relative to U.S. dollar-denominated freight charges and revenues.

Feeder — Covers sudden increases in spot market rates for connecting vessel and inland barge feeder service in Asia.

War Risk — Addresses higher insurance premiums, shipment rerouting or rescheduling, and other increased costs serving countries at risk of war or armed conflict.

Container Service — Covers cleaning, fumigation, maintenance and repair and other services to container equipment after use.

Documentation Fee — Fee applied at origin and/or destination to offset rising staffing, training, equipment and information systems costs relating to increased volume and complexity of documentation.

Hazardous Rail Security — Covers security-related charges paid to U.S. railroads for intermodal shipments of hazardous cargo.

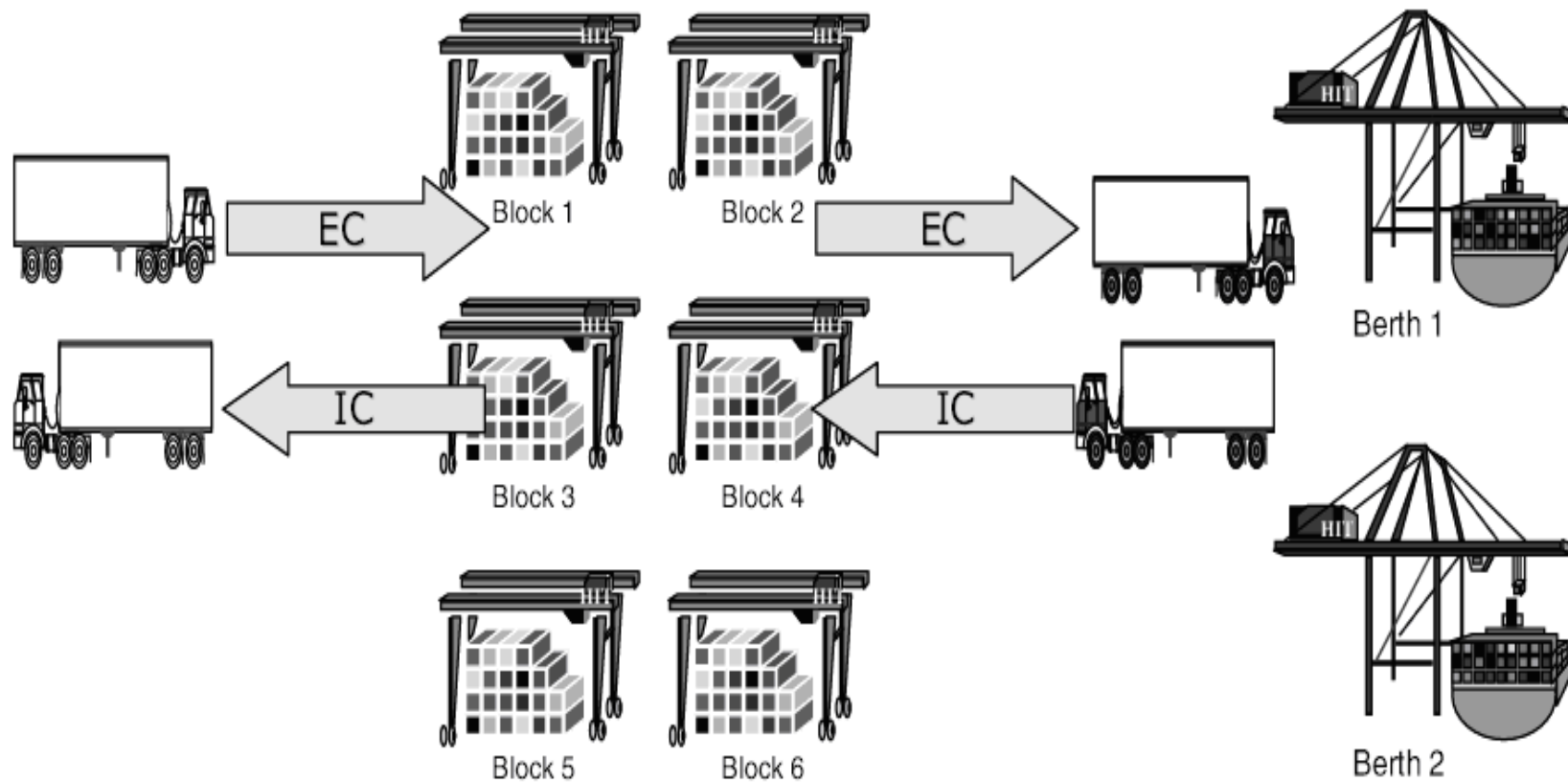
Terminal Handling — Reflects shoreside handling costs at origin port, from receipt of the container at the CY or CFS terminal through its loading onto the vessel. Charges vary by port, carrier and services performed; special charges may apply to refrigerated, hazardous or other cargo requiring additional handling.

Ancillary charges ...contd..

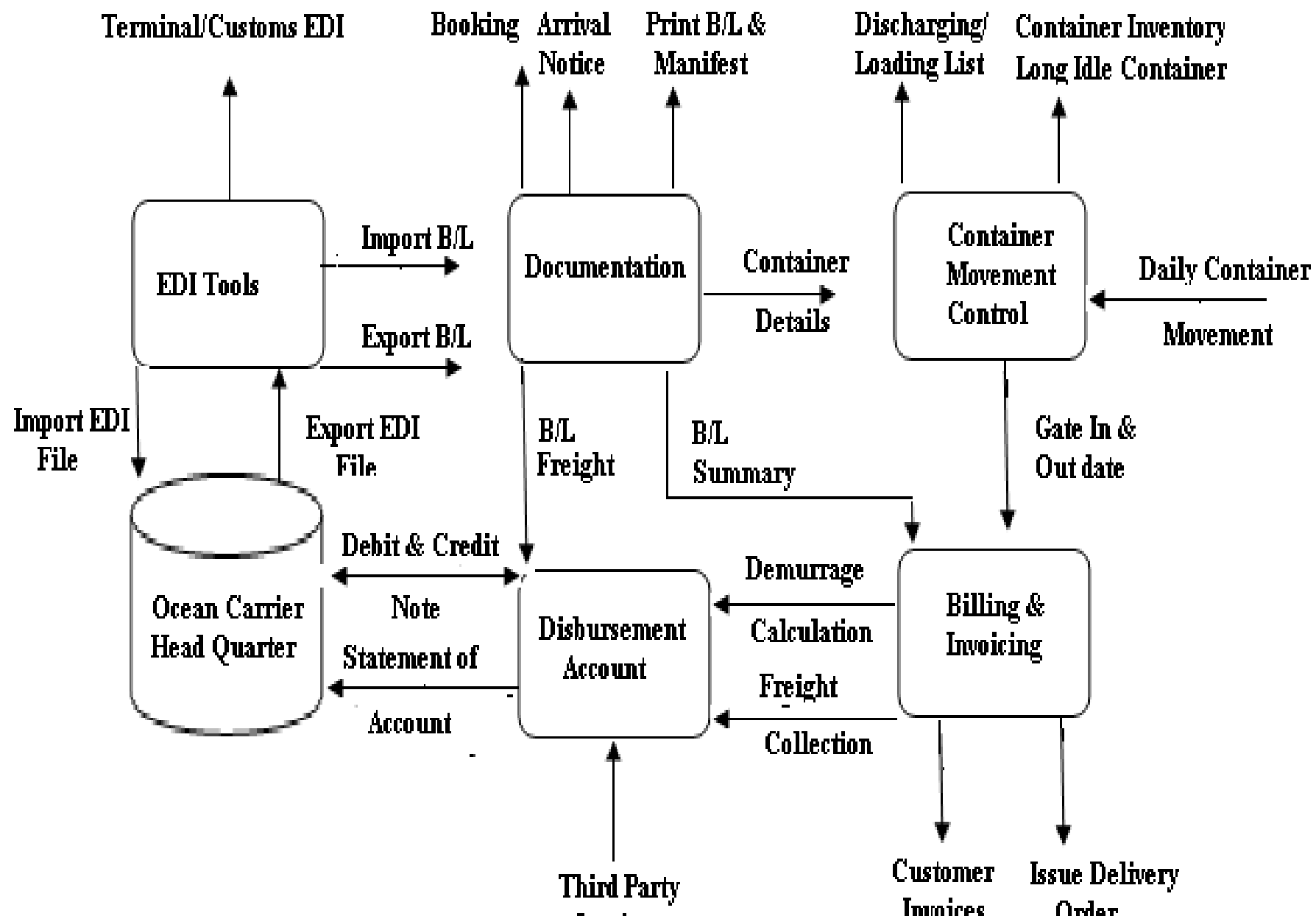
Detention — Period of time container and/or chassis is held by receiving party at its premises after delivery

Demurrage — Period of time loaded container remains at destination terminal awaiting pickup by shipper or consignee.

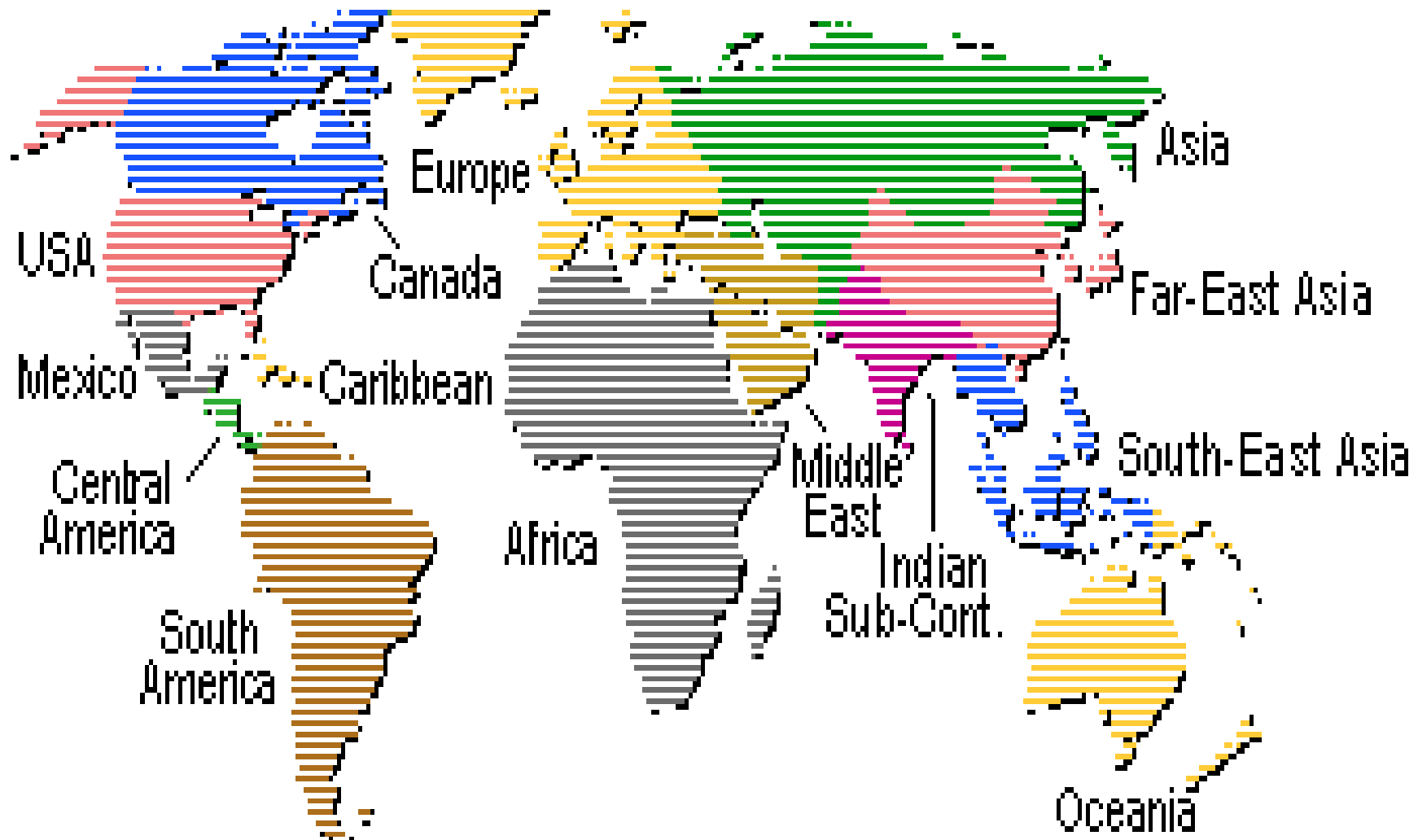
Drayage — Trucking of container and/or cargo on behalf of the customer within a port area, to and from an off-dock CY or CFS or locally for pickup or delivery

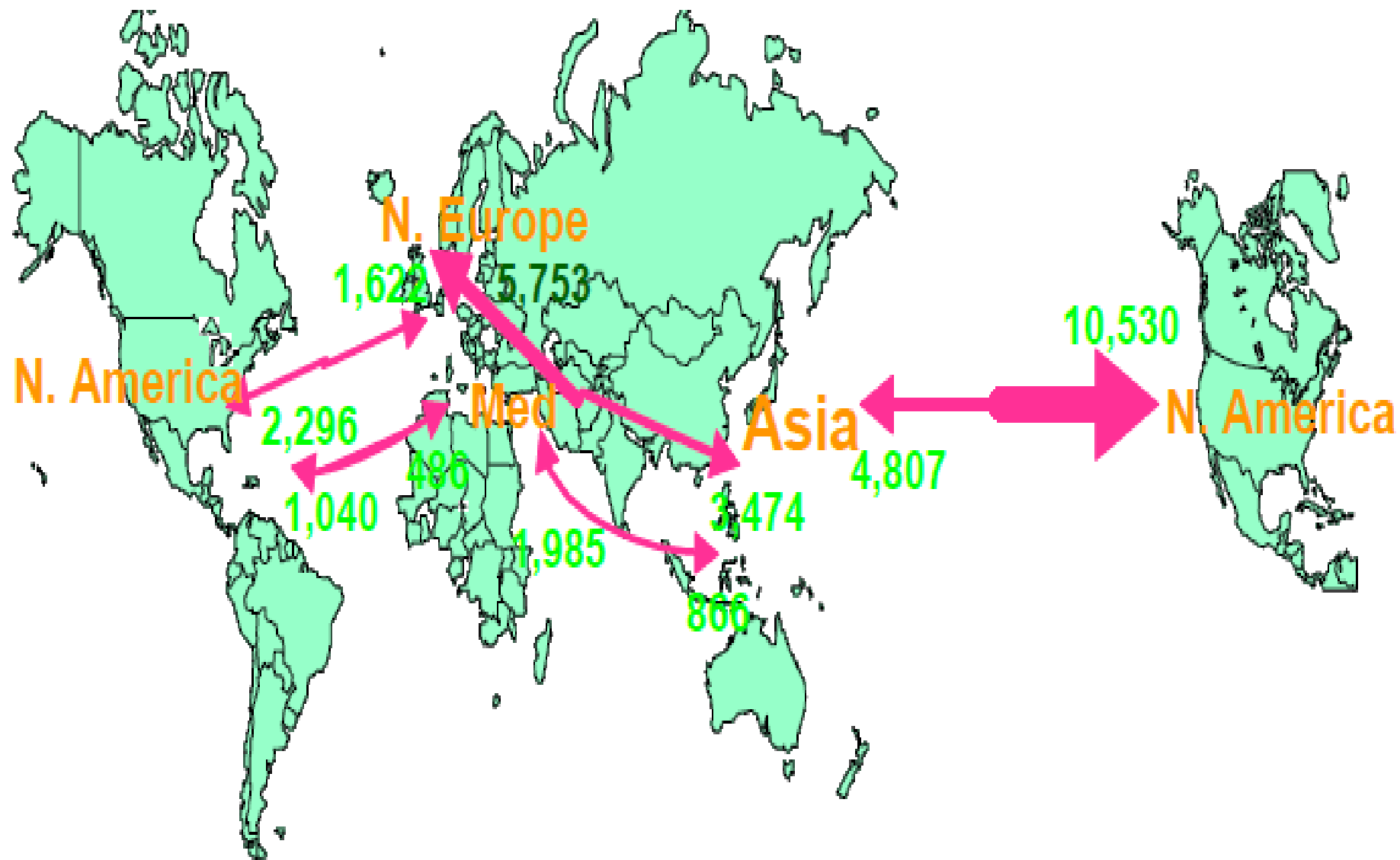


Gate Complex	Container Yard	Berth
Data: 400 Export Containers to go for storage : :	Data on Blocks B1: 40 Export Containers to Berth 1 10 Export Containers to Berth 4 20 Import Containers to Gate : :	Data on Berths Berth 1: 180 Import Containers to go for storage : :



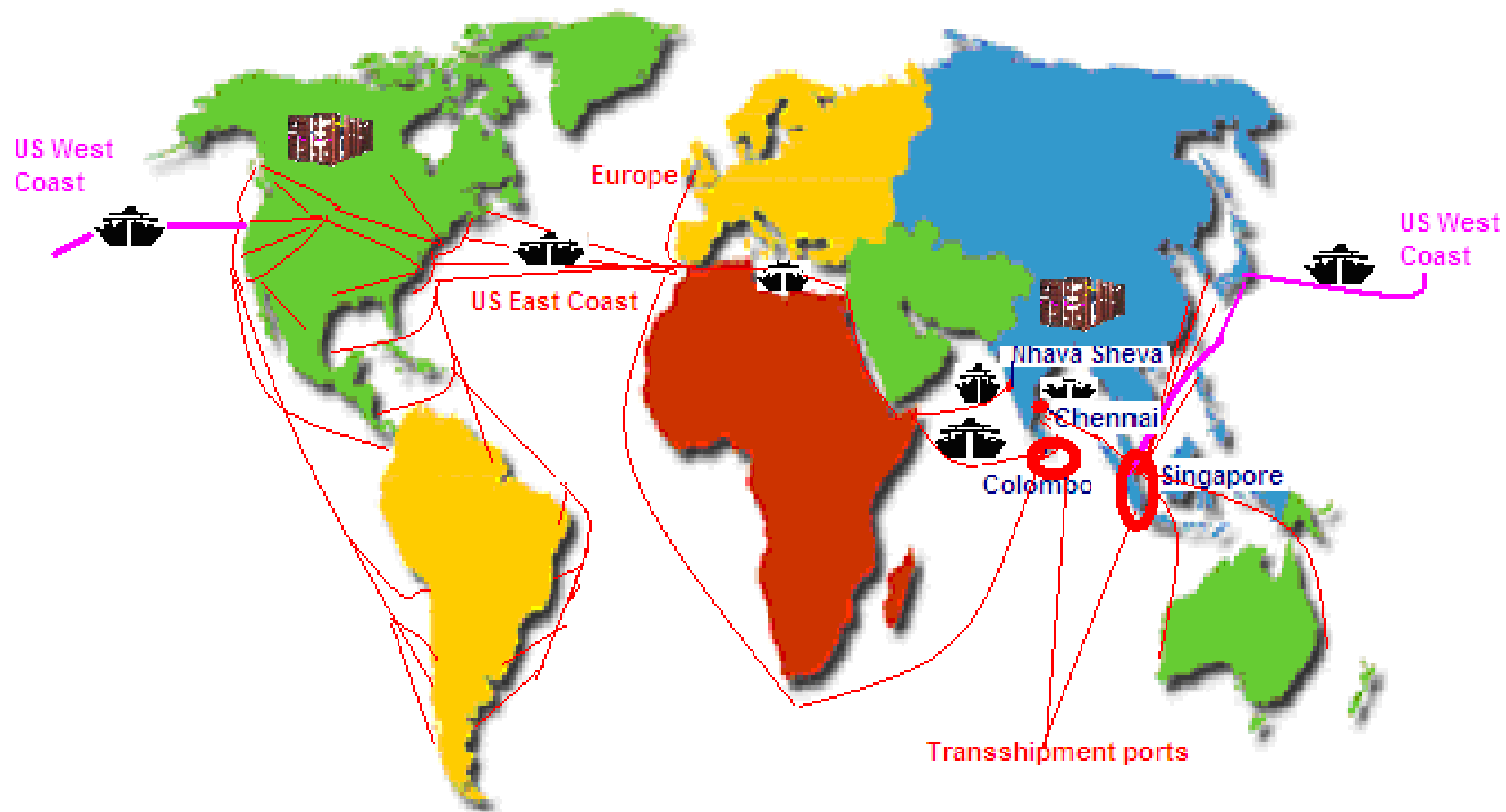
Shipping Sectors





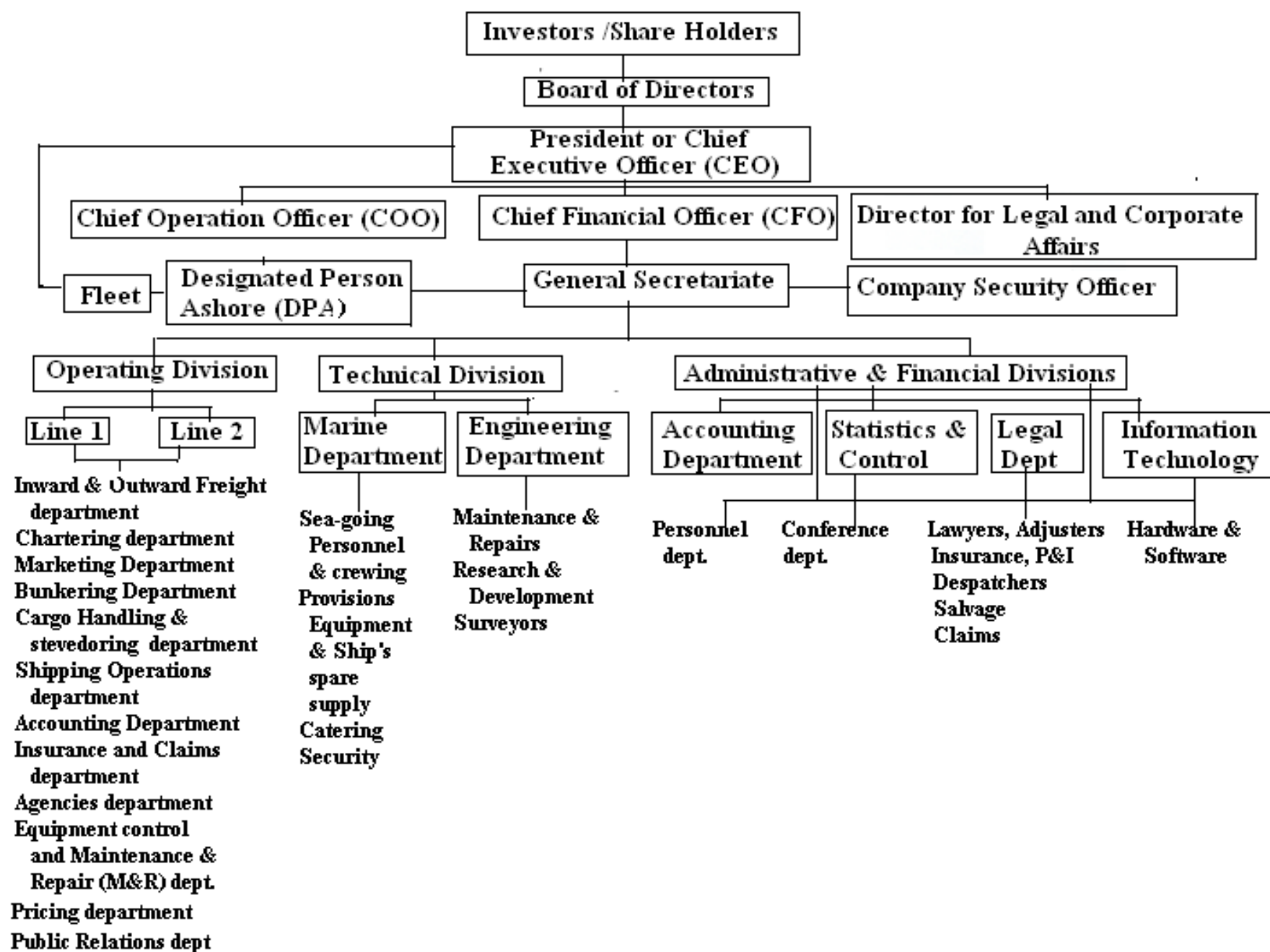
(Example only) Container trade flow volumes of east/west axis in 2004 (unit: 1000 teu)

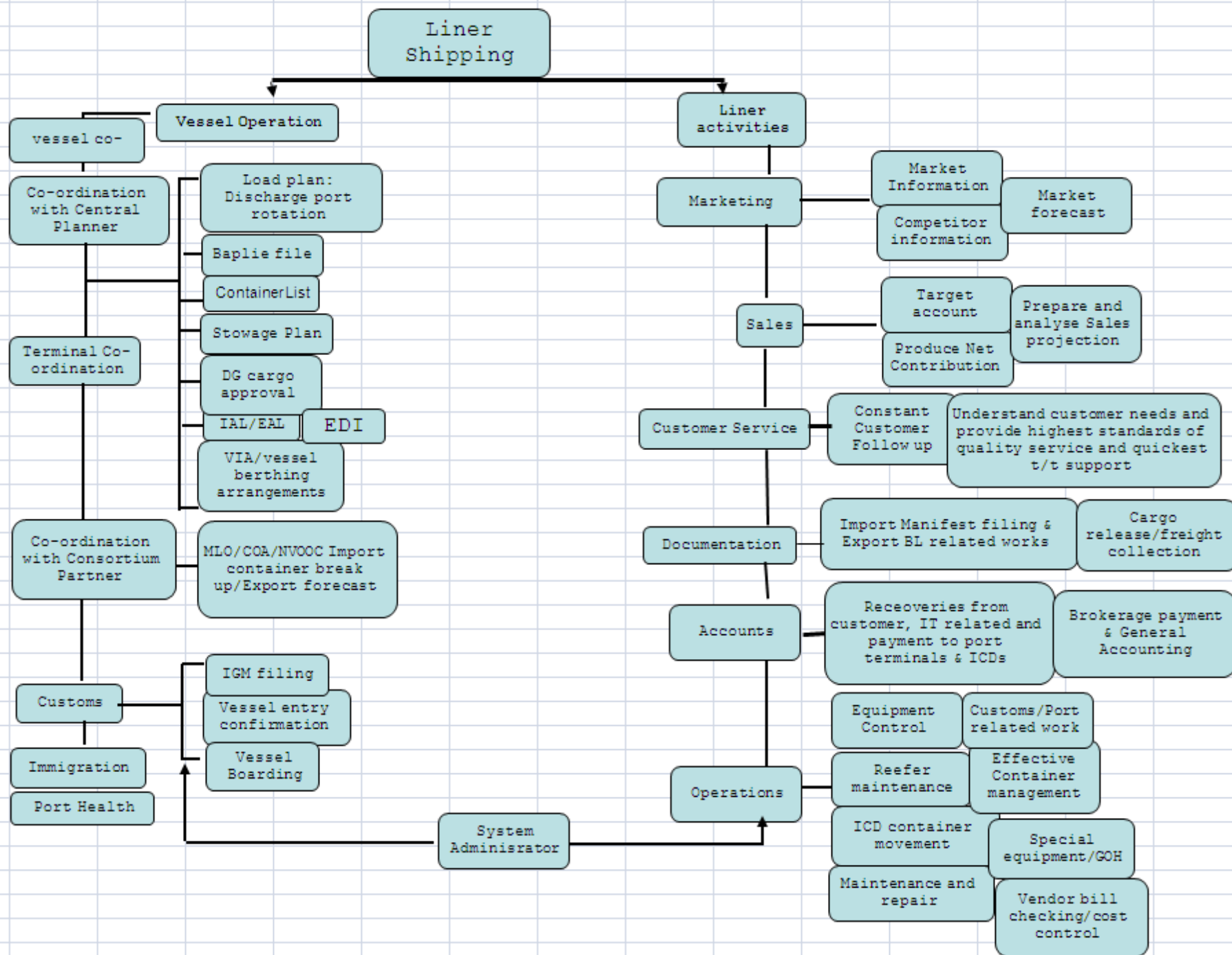
CONTAINER TRAVELLING FROM A PLACE TO PLACE THROUGH MOTHER VESSEL AND FEEDER VESSEL



Here is the containerized shipment cycle. Many of you may already be familiar with this and should take the time to review it.





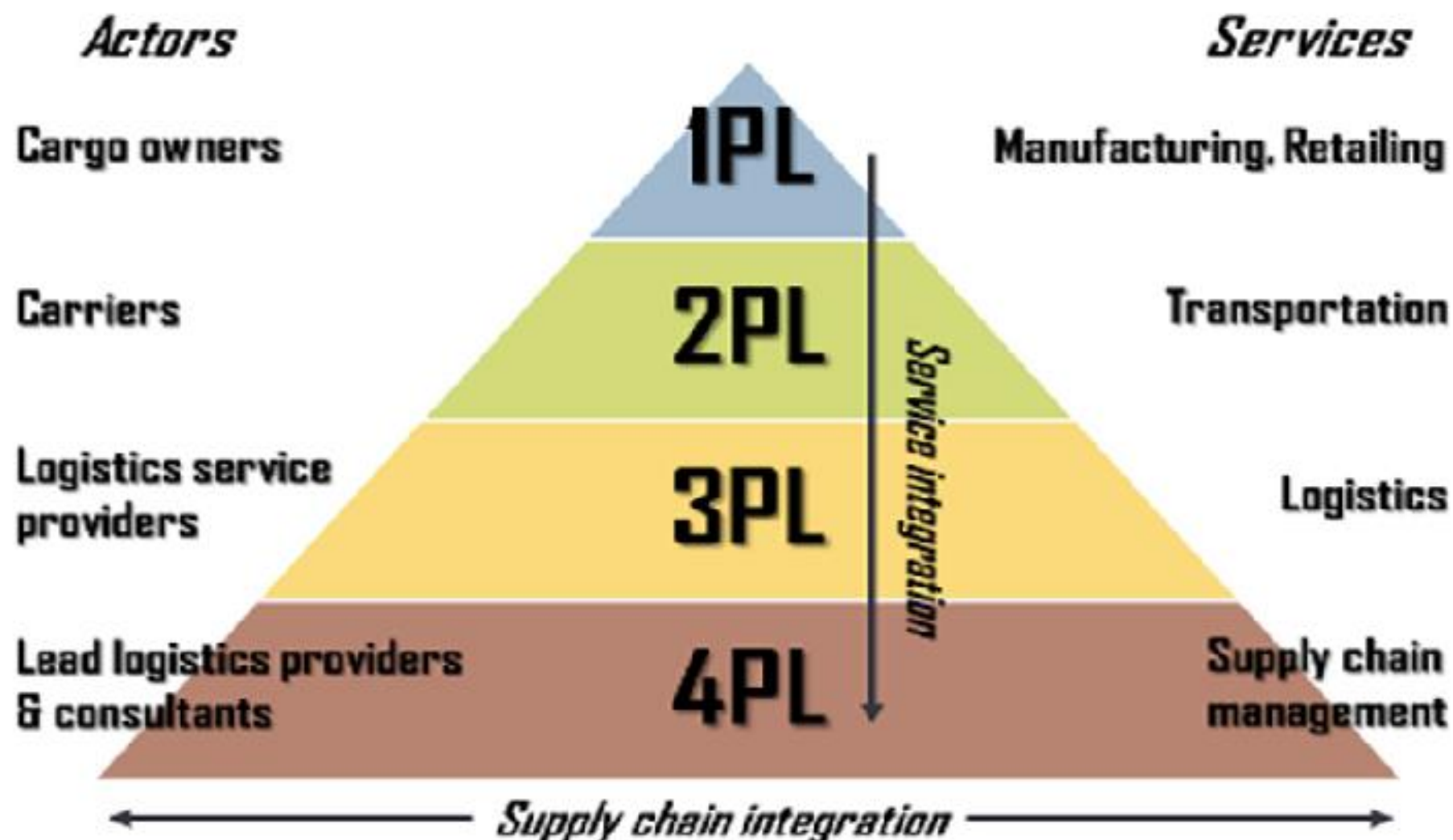


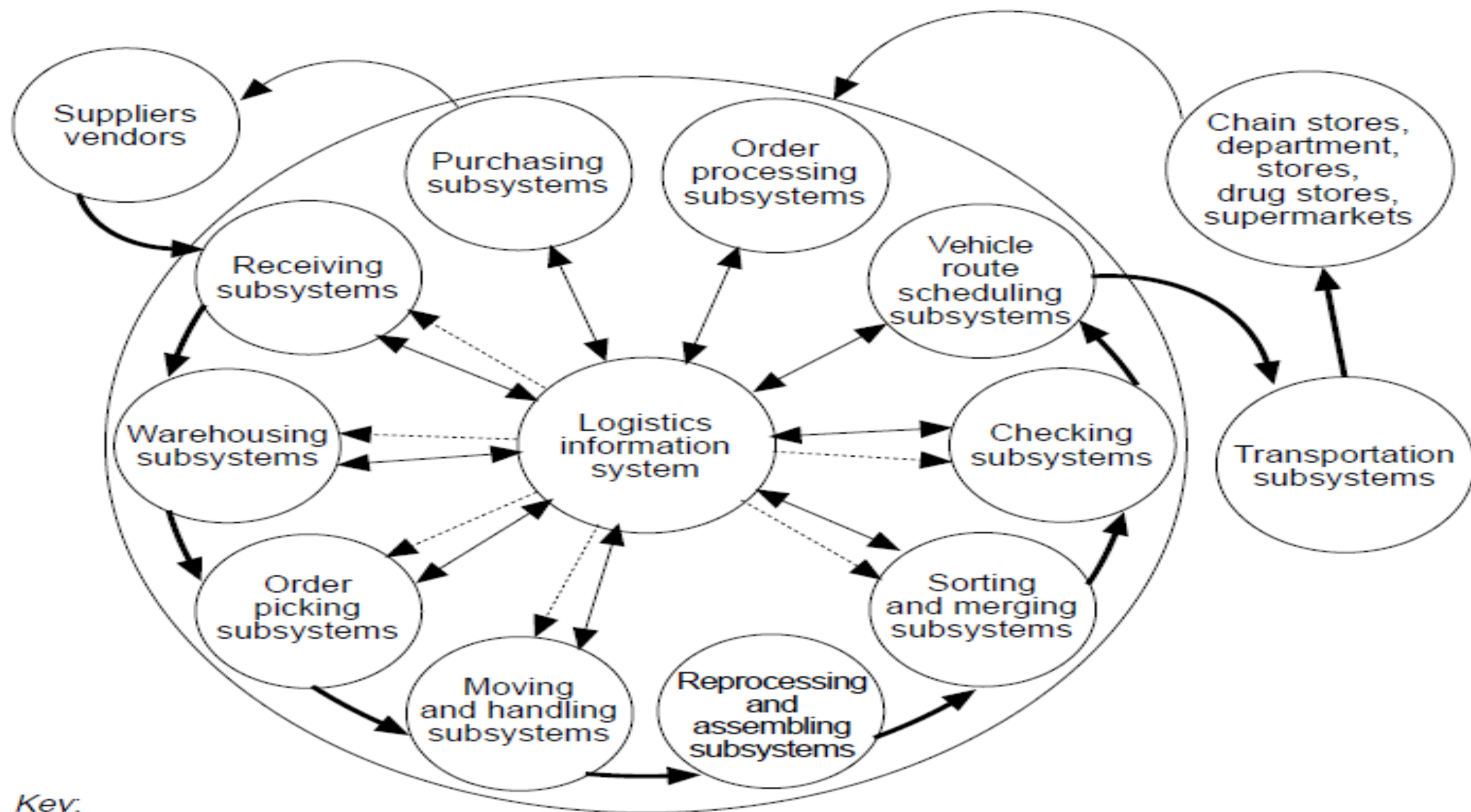
Integrated logistics

The logistics in the supply chain must anticipate the customers' needs – this is integrated logistics.



Layers of Logistics Explained





Key:

- Physical flow
- Information flow
- Control flow

Humanitarian & Medical courier

- **Specifically, the activities of “planning, implementing and controlling the efficient, cost-effective flow of and storage of goods and materials as well as related information, from point of origin to point of consumption for purpose of alleviating the suffering of vulnerable people” are known as “humanitarian logistics”.**
- **Briefly, “for humanitarians, logistics is the processes and systems involved in mobilizing people, resources, skills and knowledge to help vulnerable people affected by disaster”**
- **Medical Courier Services is saving lives. Discover why the Medical community relies on Quick's Medical Courier Services for their critical blood, tissue, organ and medical device transport**

A supply chain consists of three types of entities:

- customers,
- a producer, and the
- producer's suppliers.

The extended supply chain includes customers' customers and suppliers' suppliers.

Supply chain management oversees and optimizes the processes of :

- acquiring inputs from suppliers (purchasing),
- converting those inputs into a finished product (production), and
- delivering those products or outputs - to customers (fulfillment).

What is Cold Chain Logistics?



Major Sectors : Food and Beverages, Bio-Pharmaceutical

The Cold chain logistics infrastructure

