



Attitude - Skill - Knowledge



*"But this time I ordered the turn too late and I ended up in water that was too shallow. I don't know why it happened."*

**- CAPTAIN SHETTINO (during  
his trial in court.)**



# Salvaging Of the Costa Concordia



A PRESENTATION by ASHUTOSH Patel ,AVINASH Gupta and VISHNU Ramdas

# Salvaging

The **law of salvage** states that a person who recovers another person's ship or cargo after peril or loss at sea is entitled to a reward commensurate with the value of the property so saved.

The concept has its origins in antiquity, with the basis that a person would be putting himself and his own vessel at risk to recover another and thus should be appropriately rewarded.

Salvage is the act of saving a property in peril at sea irrespective of whether the property being saved is insured or not.



This concept of salvaging was successfully applied to Costa Concordia which ran aground in 2012.

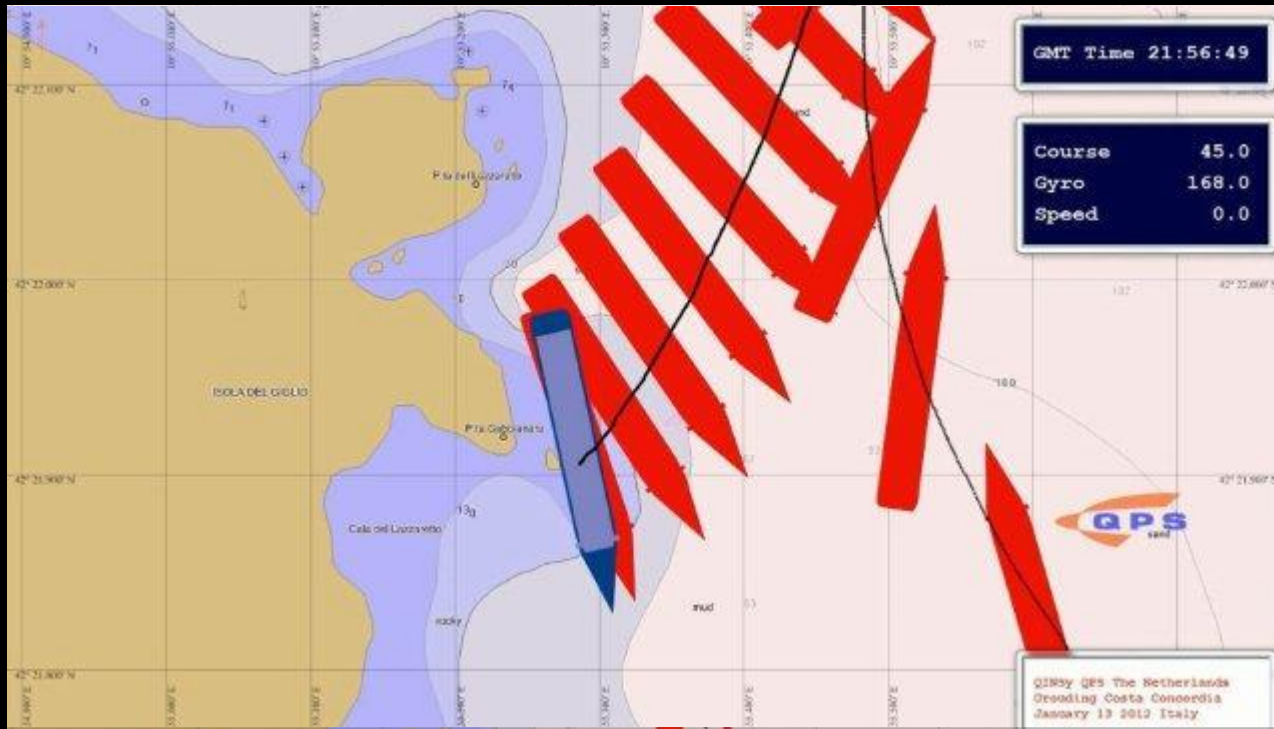
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# Costa Concordia-A Brief Introduction

- Costa Concordia is a Concordia-Class Italian cruise ship
- Built in the Fincantieri Sestri Ponente Yards, Italy.
- It is owned by the Carnival Corporation, while operated by the Costa Crociere .

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# The Incident



# Step 1

The ship was surrounded with floating barriers to stop oil from spreading into the sea. As oil floats any leakage would stay on the surface.



# Step 2

The next job was to remove the oil out of the ship's fuel tanks. Pumper ships pumped the oil to a carrier ship, which carried the oil to a tanker out at sea.



# Step 3

Six platforms were built under the ship, on which the ship was to be straightened.



# Step 4

Then sponsons were welded on to the dry side of the ship. These sponsons increase the buoyancy of the ship.



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# Step 5

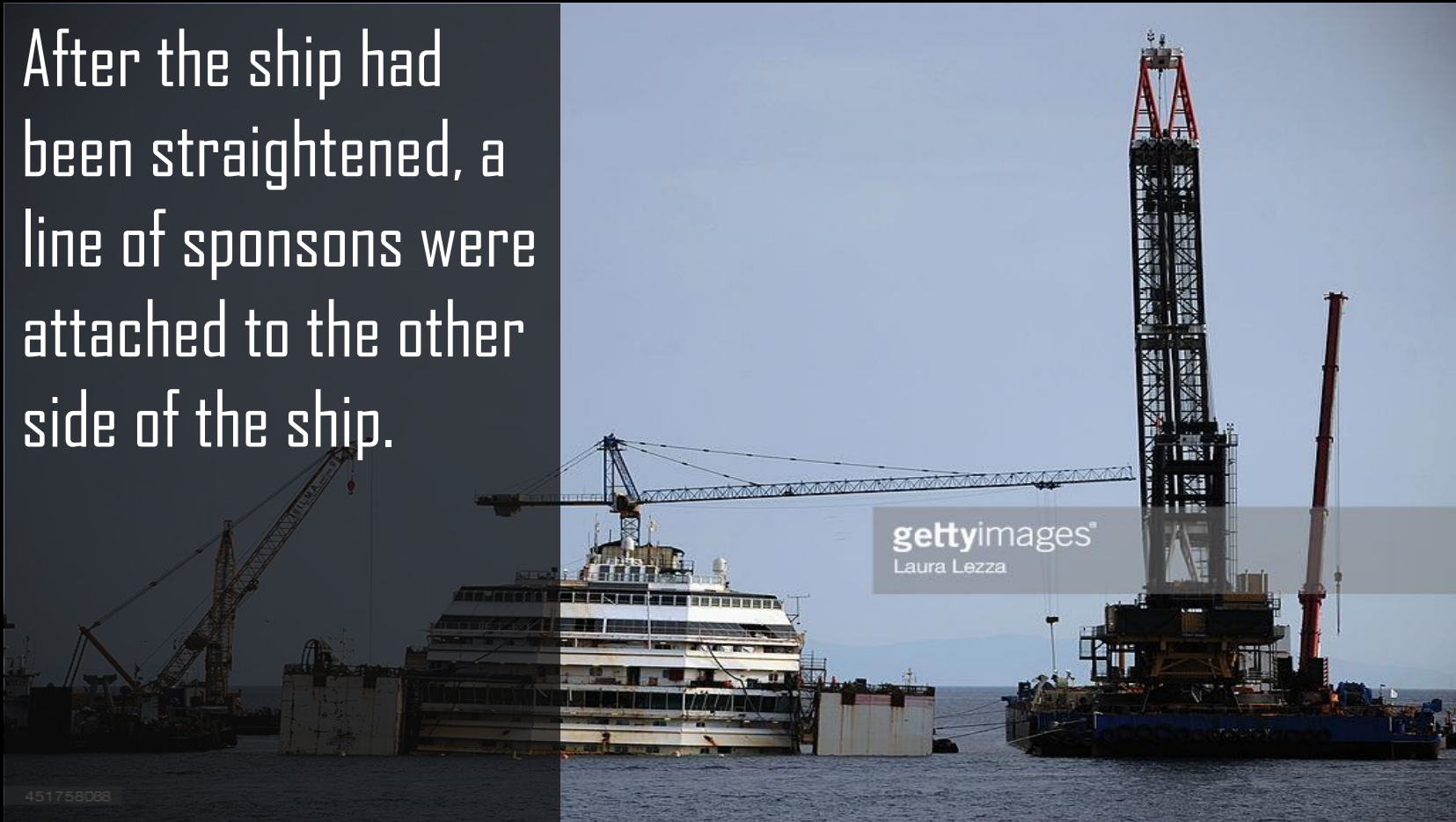
Offshore platforms and cranes were used to righten the ship.

This process is called as parbuckling.



# Step 6

After the ship had been straightened, a line of sponsons were attached to the other side of the ship.



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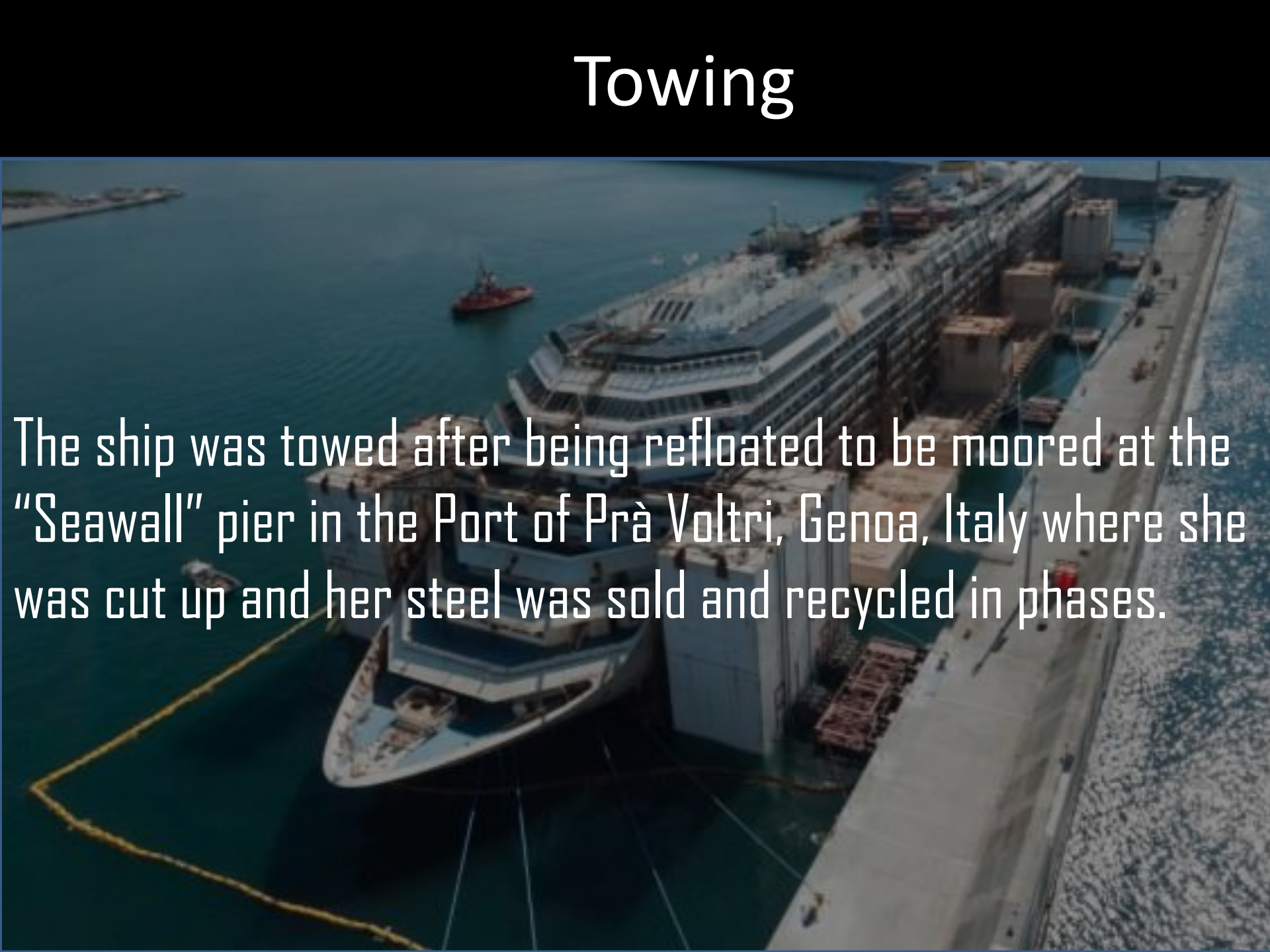
# Step 7

All the water was pumped out of the sponsons. Due to the added buoyancy of the sponsons, the ship slowly started refloating.



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# Towing

An aerial photograph showing a large, multi-decked cruise ship being towed by a tugboat in a harbor. The ship is positioned alongside a long, narrow pier. The water is a deep blue-green color. The ship's hull is white, and its upper decks are visible. The tugboat is a smaller, red-hulled vessel positioned to the left of the cruise ship. The pier is a long, concrete structure extending into the water. The overall scene depicts the process of towing a large vessel in a port.

The ship was towed after being refloated to be moored at the "Seawall" pier in the Port of Prà Voltri, Genoa, Italy where she was cut up and her steel was sold and recycled in phases.

# Conclusion

The salvage of the Costa Concordia was no less than a herculean task .The total cost of removal of this wreck amounted to 1.5 billion dollars .It also resulted in the loss of one human life.



Thank You

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