Quantum of the **Seas**^{sst} conveyance facts

The river conveyance is a unique process for ships built at the Meyer Werft Shipyard in Papenburg, Germany, Unconventionally situated inland to avoid impact from storms in the North Seas, Meyer Werft has been sailing ships down the River Ems 32 kilometers to sea since 1795.



CONVEYANCE TAKES

10 HOURS

to sail 32 KILOMETERS down the River Ems,

from New York to Athens, Greece



conditions leaving only an exact window of time for launch onto the River Ems



QUANTUM OF THE SEAS

IS THE **LARGEST SHIP** TO LEAVE MEYER WERFT AND TRAVEL THROUGH THE RIVER EMS AT 168,666 GROSS REGISTERED TONS



There are only a

few centimeters

of clearance on either side of the ship as it travels from the shipyard to the channel

4 BRIDGES ARE EITHER OPENED OR REMOVED,







AND POWER IS CUTOFF TO POWER LINES AT 3 LOCATIONS CAUSING THEM TO SHRINK AND RISE UP SO THE SHIP **CAN PASS WITH AS LITTLE CLEARANCE AS 1.8 M**

THOUSANDS OF SPECTATORS

come out to watch the conveyances along the River Ems



THE SHIP **PASSES THROUGH**



USING 3 GPS DEVICES AND 4 PILOTS TO ENSURE SAFE PASSAGE



In order to have a successful

CONVEYANCE

the following conditions

must be met:

wind speed =

or new

moon



THE SHIP MUST MANEUVER

BACKWARDS

DOWN THE RIVER IN ORDER TO OPTIMIZE CONTROL

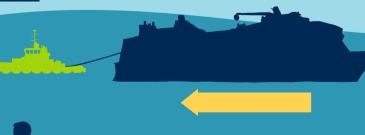
This protects the azipods / propellers since the rear of the ship stays in the center of the river when maneuvering in reverse

TIDAL BARRIERS

must be closed in order to ensure enough depth remains under the ship's hull



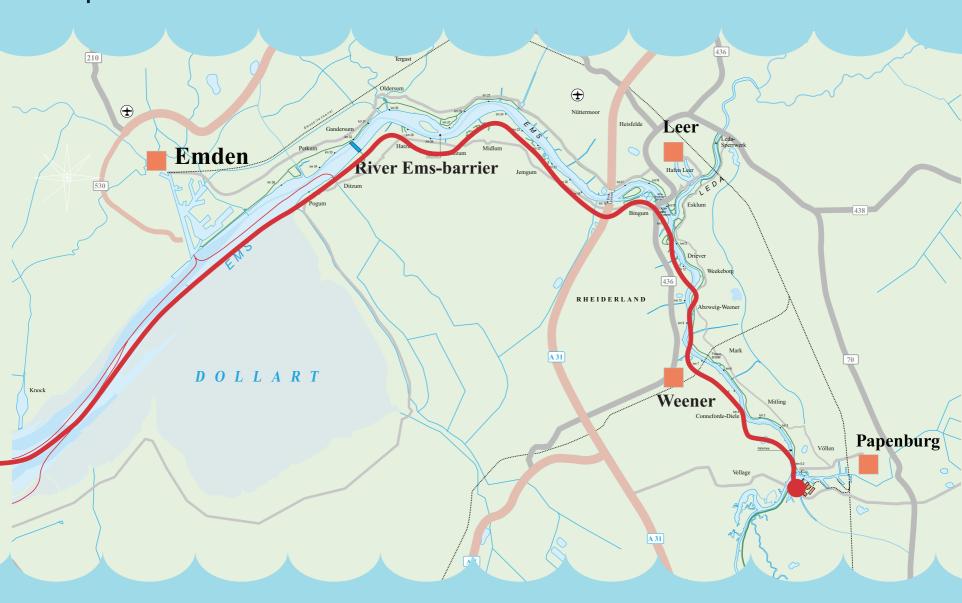
TUGBOATS EACH WITH 9,000 HORSEPOWER ARE REQUIRED TO GUIDE THE SHIP



THE SHIP MOVES AT APPROXIMATELY 2-3 KNOTS DOWN RIVER. THE SAME NORMAL WALKING PACE AS A 40-YEAR OLD MAN

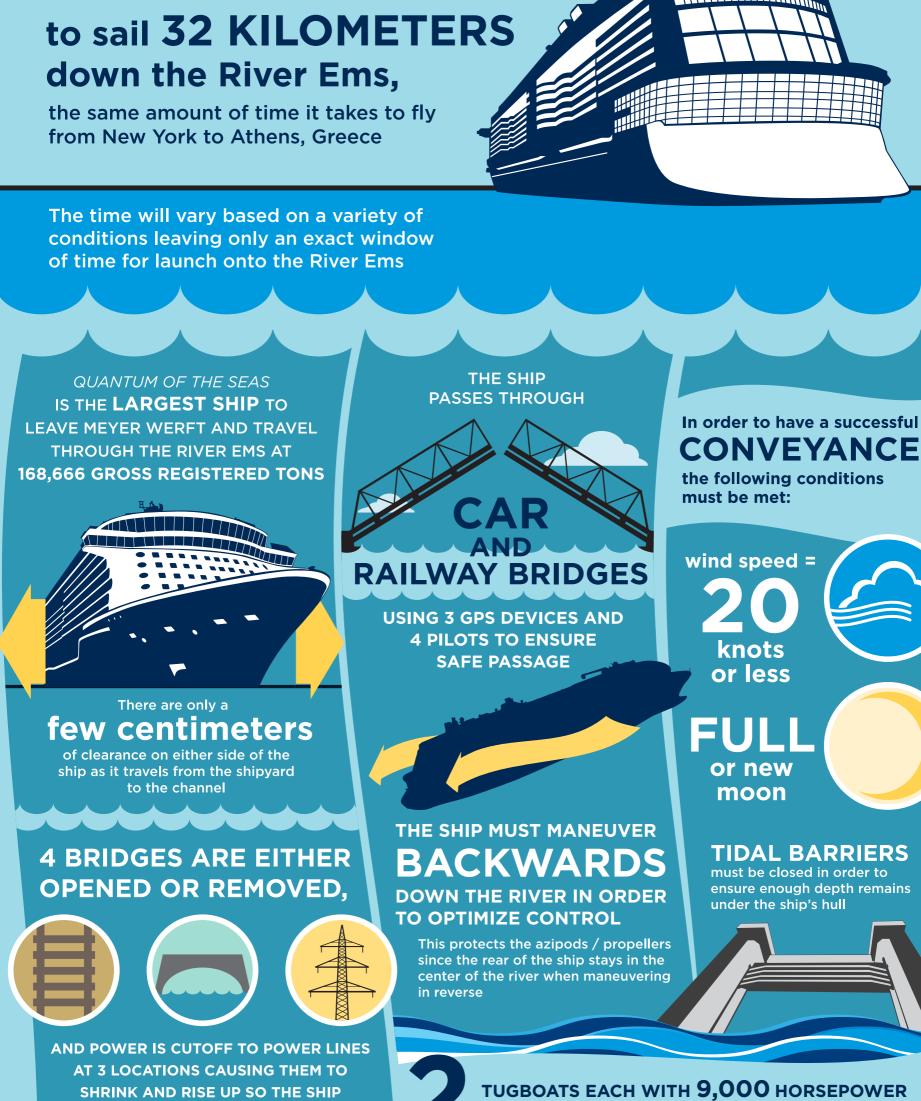
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2-3 KNOTS DOWN RIVER, THE SAME NORMAL



CAN PASS WITH AS LITTLE CLEARANCE AS 1.8 M

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