

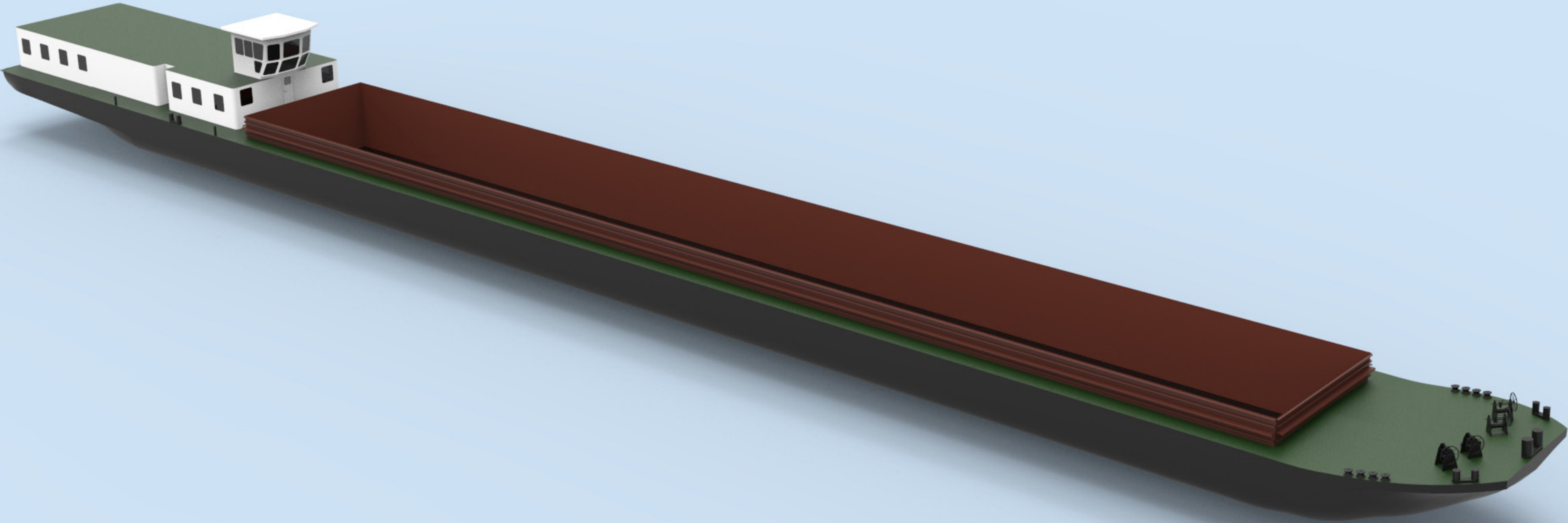
MODERNIZATION PROJECT OF GENERAL CARGO VESSEL «BAROSS» INTO PUSHER WITH HYBRID (OIL FUEL/LNG) PROPULSION SYSTEM

NAVAL ARCHITECT BUREAU

Ship design
Vessels modernization and reclassification projects
Developing of operational documentation
Evaluation of ships technical condition



GENERAL VIEW OF THE EXISTING VESSEL «BAROSS»

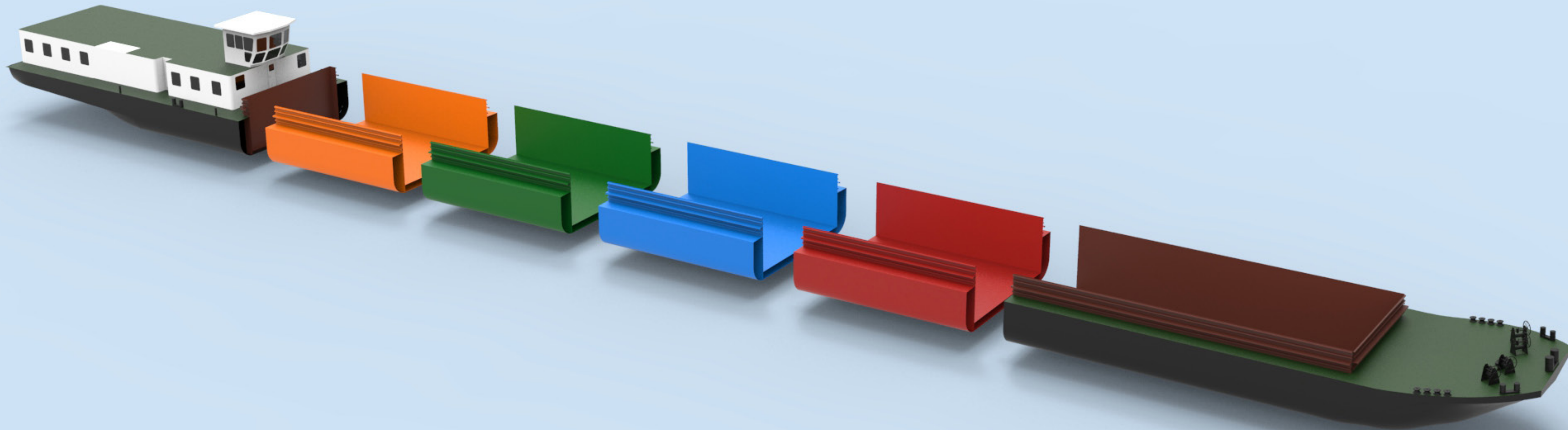


GENERAL PARTICULARS:

LENGTH	90.02 M
BREADTH	10.96 M
DEPTH	3.20 M
DOUBLE BOTTOM HEIGHT	0.50M



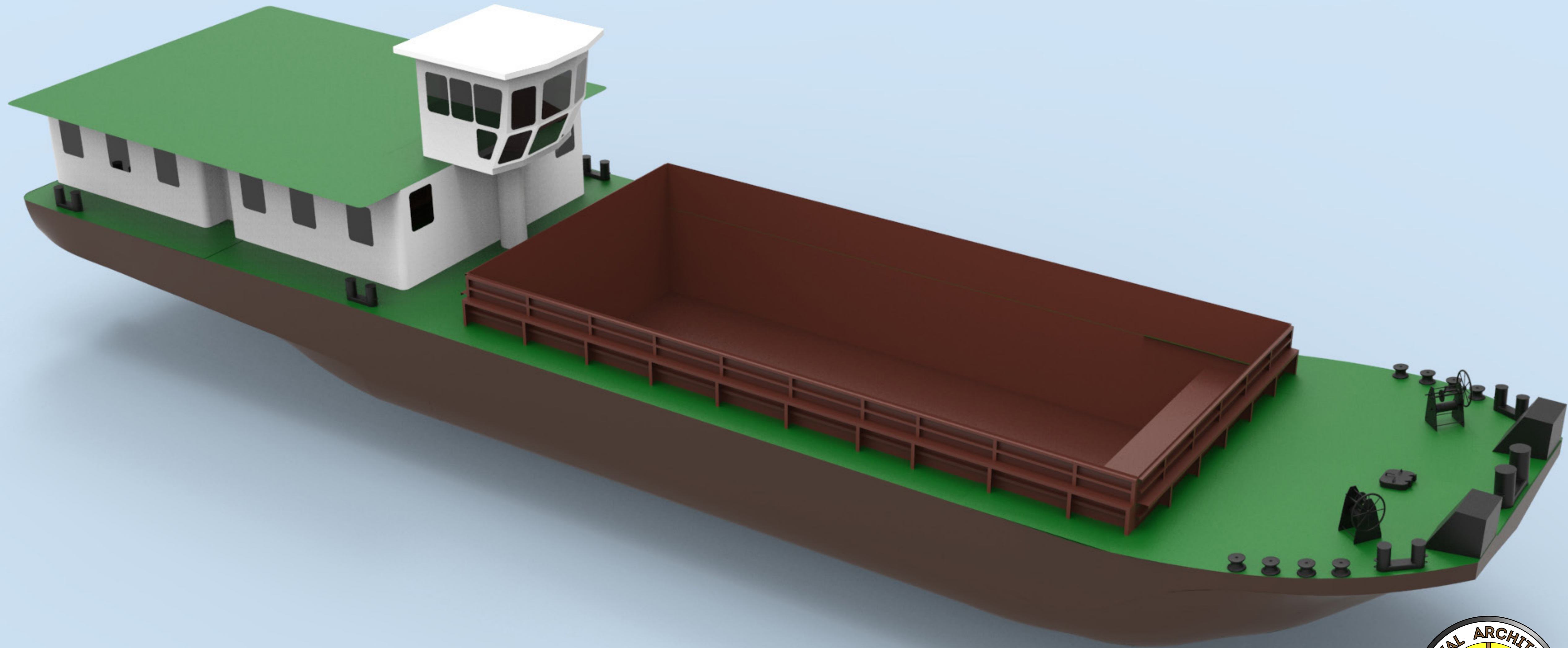
STAGE 1: DISMANTLING OF THE EXISTING VESSEL «BAROSS»



1. 4 BLOCKS ARE USED FOR LENGTHENING OF THE SMART DOCK
2. THE REMAINING FORE AND AFT PARTS OF THE VESSEL ARE USED FOR FURTHER MODERNIZATION

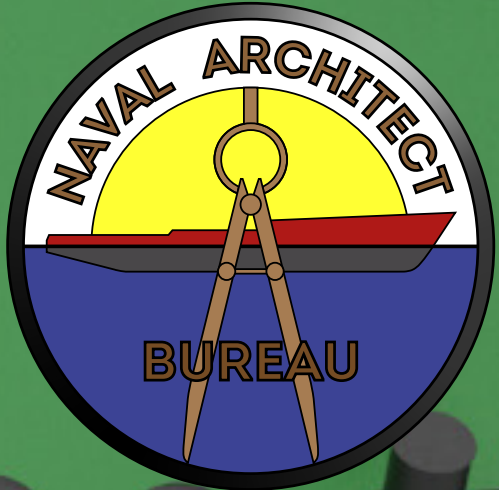
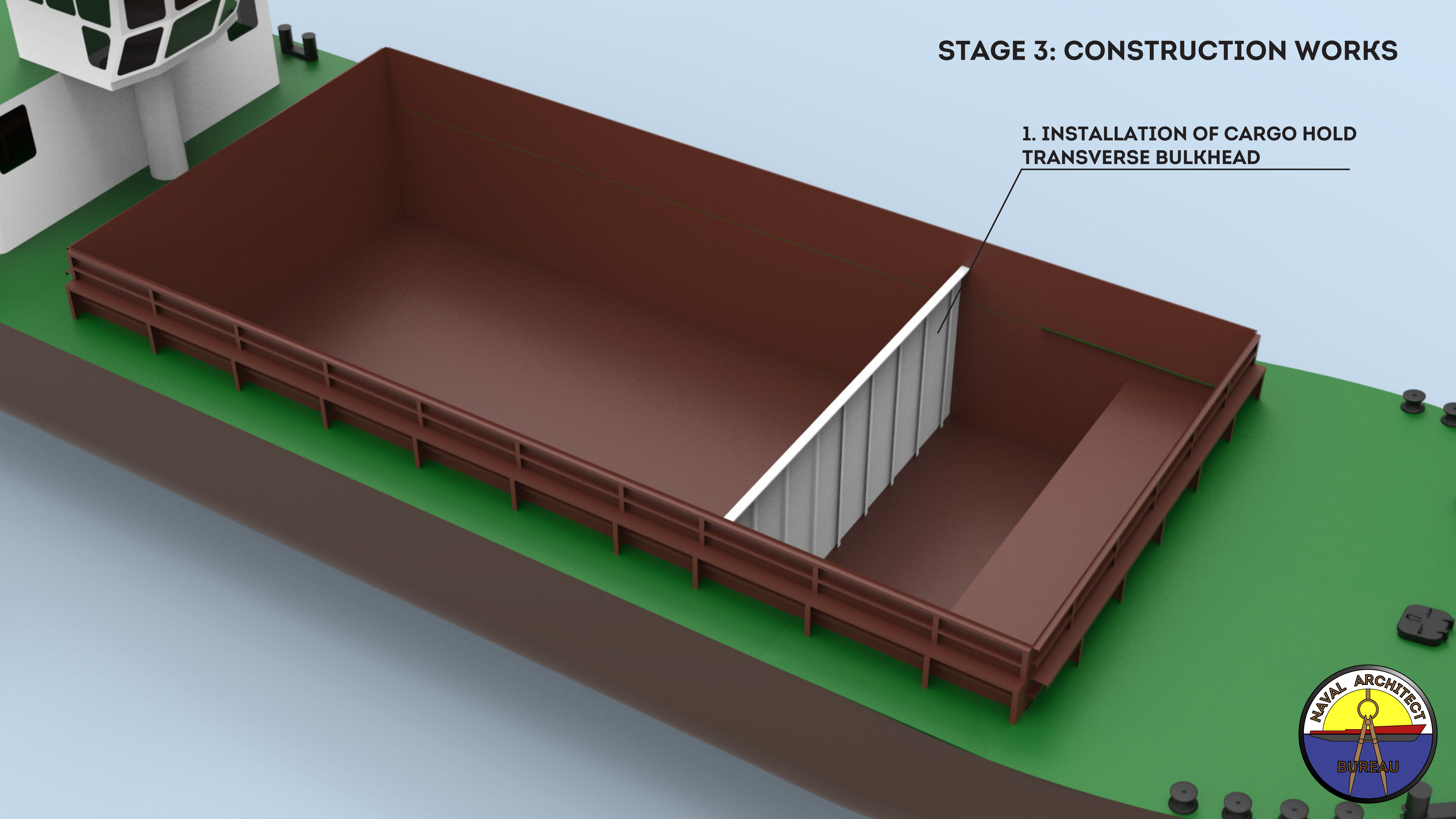


STAGE 2: JOINING FORE AND AFT PARTS OF THE VESSEL

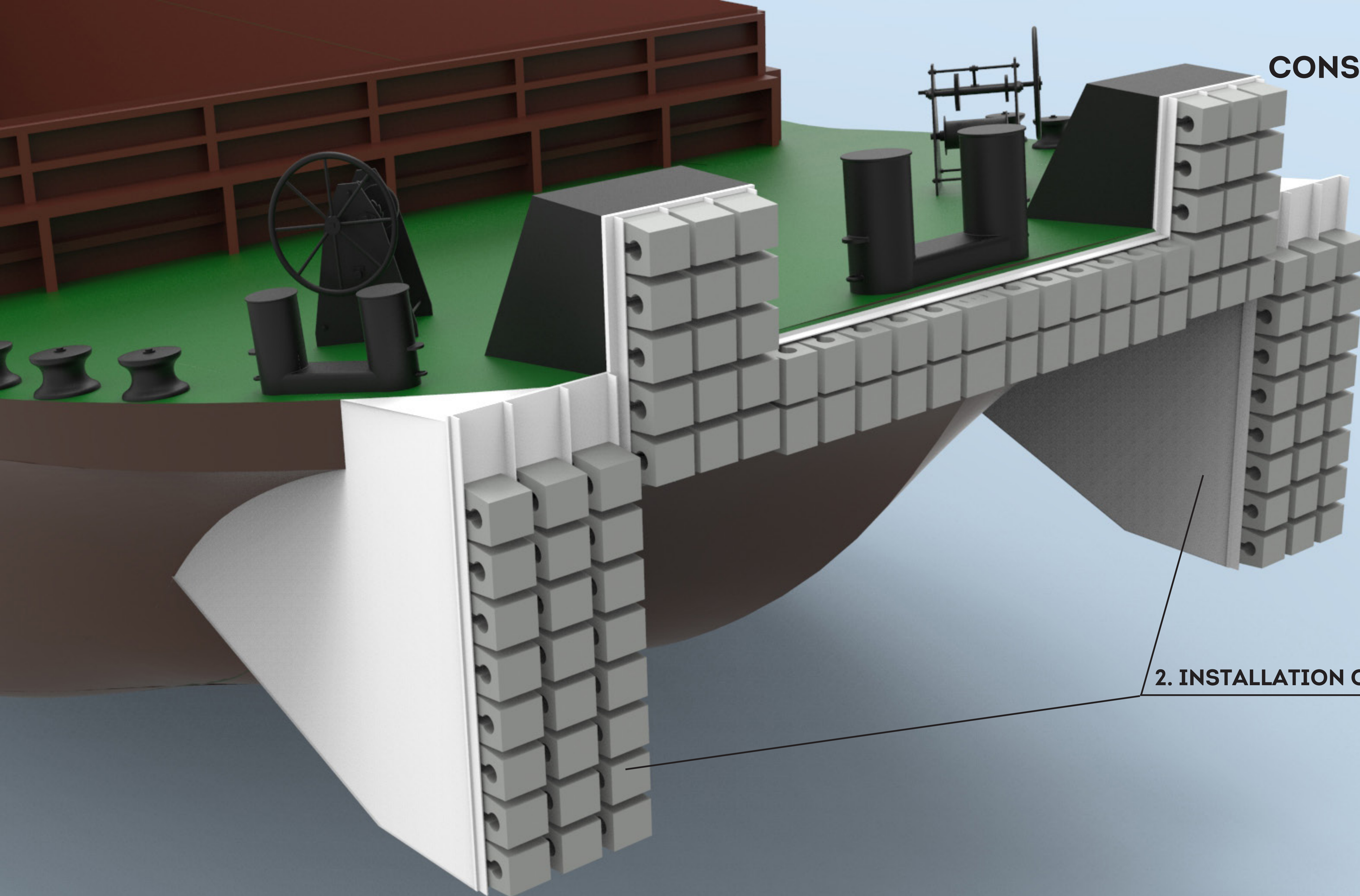


STAGE 3: CONSTRUCTION WORKS

1. INSTALLATION OF CARGO HOLD TRANSVERSE BULKHEAD



STAGE 3: CONSTRUCTION WORKS

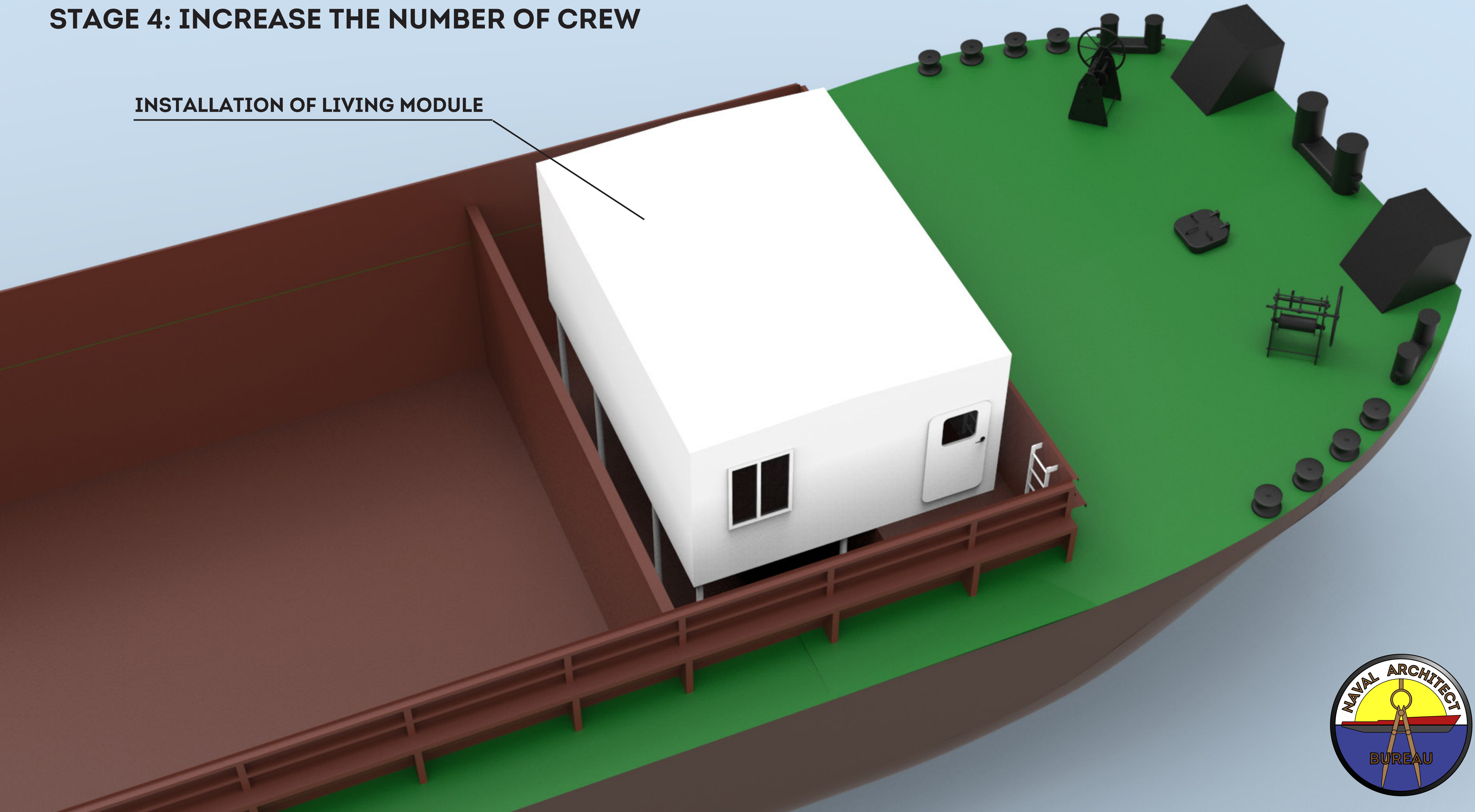


2. INSTALLATION OF PUSH BOXES



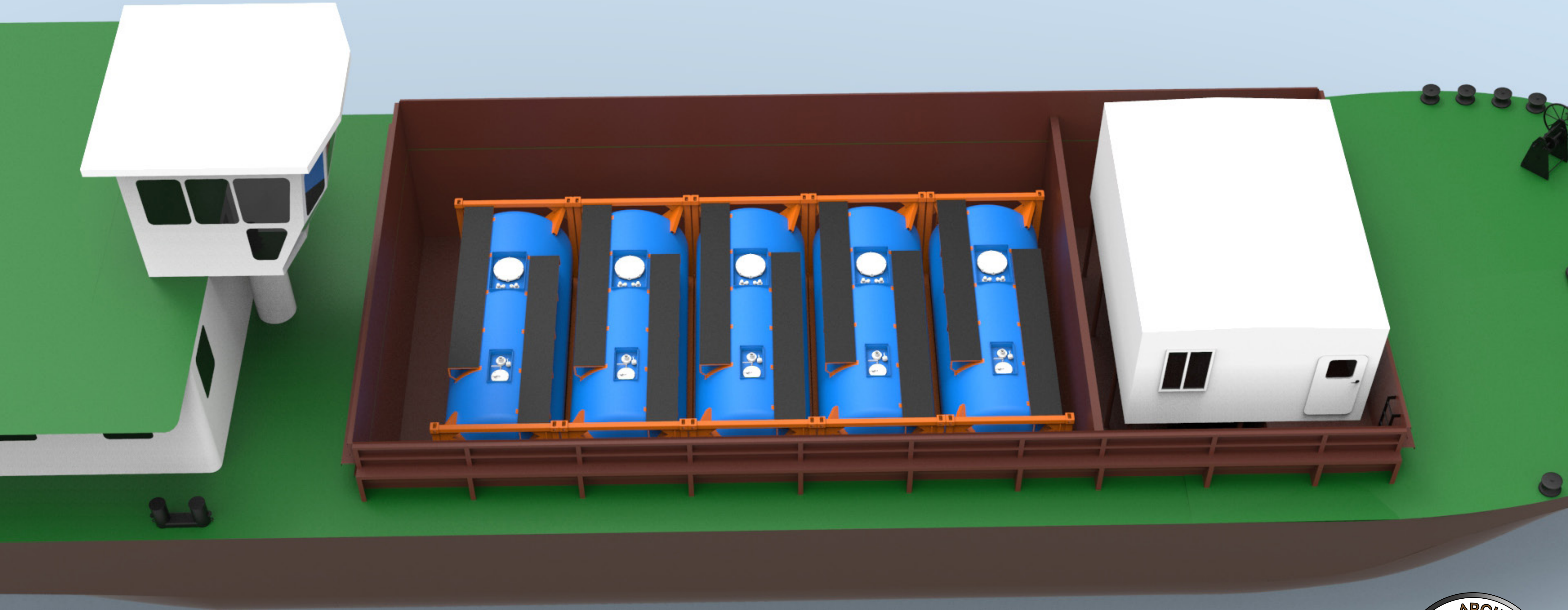
STAGE 4: INCREASE THE NUMBER OF CREW

INSTALLATION OF LIVING MODULE



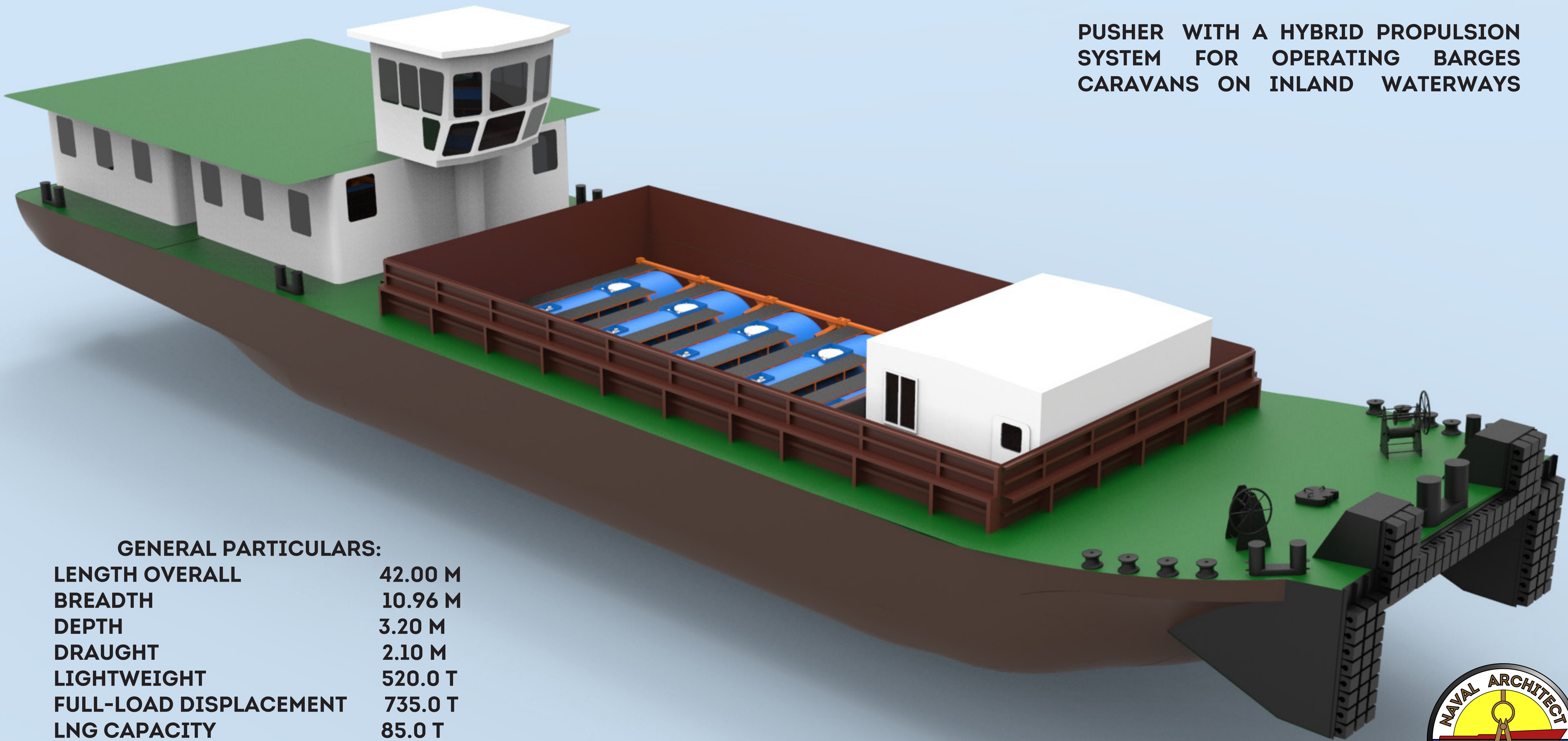
STAGE 5: VESSEL MODERNIZATION BY HYBRID (OIL FUEL/LNG) PROPULSION SYSTEM

1. MODERNIZATION OF MAIN ENGINES FOR OPERATION IN HYBRID MODE (DIESEL OIL / LNG)
2. INSTALLATION OF 5 UNITS IN HOLD 20FT LNG-CONTAINERS:



THE RESULT OF MODERNIZATION

PUSHER WITH A HYBRID PROPULSION
SYSTEM FOR OPERATING BARGES
CARAVANS ON INLAND WATERWAYS



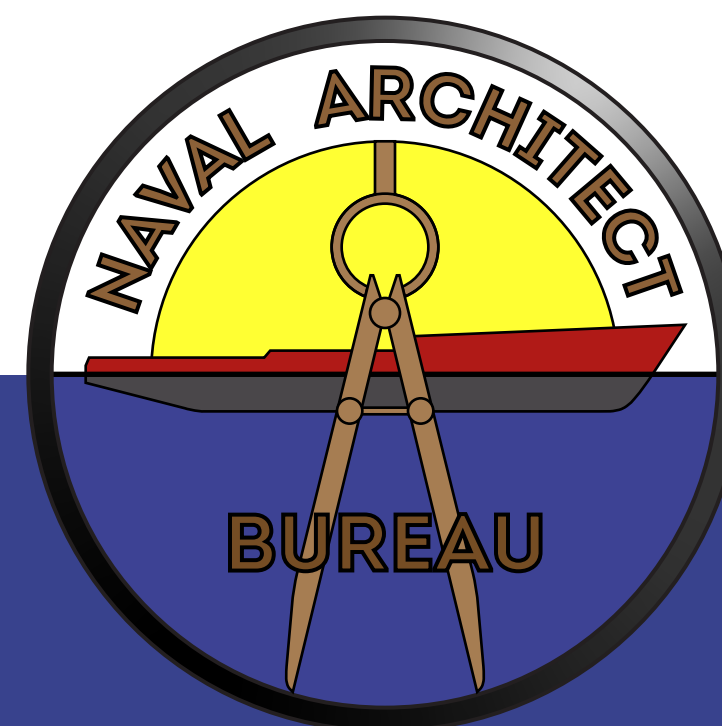
GENERAL PARTICULARS:

LENGTH OVERALL	42.00 M
BREADTH	10.96 M
DEPTH	3.20 M
DRAUGHT	2.10 M
LIGHTWEIGHT	520.0 T
FULL-LOAD DISPLACEMENT	735.0 T
LNG CAPACITY	85.0 T
DIESEL OIL CAPACITY	100.0 T





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