

## Some navies that already trust us:



"I am extremely impressed by the cooperation and teamwork between the U.S. and Spain. I spoke with a few individuals before the ribbon cutting ceremony, and there was a common trait of each conversation; hard work and dedication. I have complete confidence in the success of forward deployed naval forces (FDF) in Rota"

NAVSEA Commander Vice-Admiral  
William Hilarides

TROUGH LIFE SUPPORT SERVICES



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# Affordable, cost effective and ensured readiness with global support capabilities



## Navantia Through Life Support Services

The Through Life Support objective is to maximize the operational life and availability of your investments and upgrade their capabilities and performances during the whole life cycle. Solutions and services are tailored to meet unique and individual customer needs.

Navantia plans and designs for ship support and later, during the in-service phase, it supports the design, making a continuous evaluation through the life cycle to balance technical performances, readiness and life cycle costs.

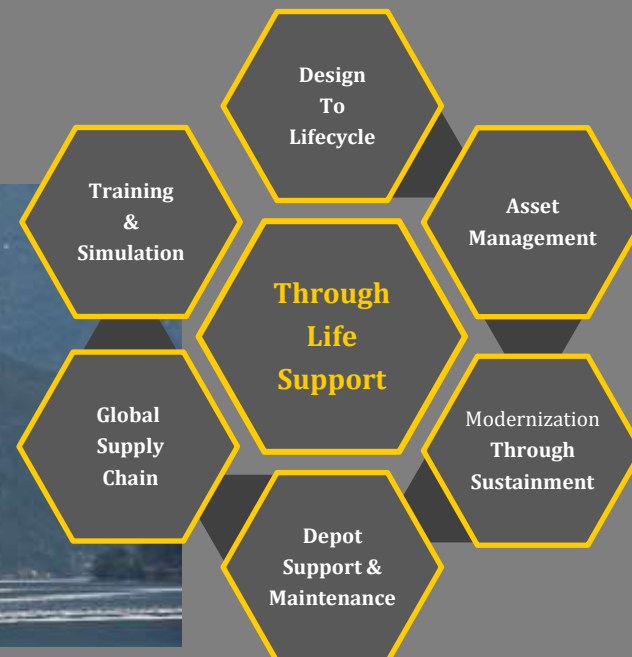
Through Life Support services cover from the "On site" technical assistance to provide direct customer support, to our integrated sustainment solutions based on system engineering applied to complete life cycle.



Navantia provides Through Life Support solutions to sustain the full range of products we offer: surface ships, submarines, systems and equipment



Navantia Through Life Support goes beyond the delivery of a product. We offer a tailored blend of engineering, production, supply chain, sustainment and training to support the lifecycle of our products.



## Engineering

As design authority, Navantia will supply during the life cycle the following engineering services: Engineering change proposals, Configuration Control, Software maintenance, Obsolescence management, Availability, Reliability and Maintainability analysis, seaworthiness, etc.

Navantia Through Life Support will coordinate the different business lines of the company: Systems, Diesel engines, Turbines, Repairs, Naval constructions, etc. Gathering together to offer its solutions in Spanish facilities, with global tiger teams or in your own harbours.



## Maintenance

Navantia enhance the use of RCM (Reliability Centered Maintenance) to achieve an expert machine knowledge in order to obtain the 100% of ships capacities. Data is the new oil to relaunch our wide expertise in naval sustainment.



EOLO software for replenishment-maintenance and ARGOS-21 for health monitoring and failure prognosis. Early warning devices to spend less, run longer and protect your Defense investments, always assuring perfect configuration control through operative life.

## Training and Simulation



Navantia offers complete end-to-end solutions, including full crews integrated training with vanguard technologies in simulation. Operation and maintenance training for on board and Naval Base staff can be taken in our facilities.

## Shipyard 4.0

Cyber-Physical systems will transform the naval environment. Shipyards will be linked with all the stakeholders while construction and then during the operative life, Arsenal, Shipyards and Ships will transfer data through the most modern telemetric condition monitoring and platform control systems.

