PROVIDING EFFICIENT SOLUTIONS FOR NAVIES OF THE FUTURE
DCNS is the European leader in naval defence and a major player in marine renewable energies. As an international high-tech company, DCNS uses its extraordinary know-how, unique industrial resources and capacity to arrange innovative strategic partnerships to meet its clients’ requirements. The Group designs, produces and supports submarines and surface ships. The Group also provides services for naval shipyards and bases. In addition, the Group offers a wide range of marine renewable energy solutions.
A workforce dedicated to excellence in marine engineering and technology

For over 400 years, DCNS and its forefathers have been taking innovation to sea for the benefit of navies. Today, the forward-thinking 1,200-strong DCNS engineering workforce carries on with the same passion and desire to create and deliver operational naval solutions with high performance and reduced through-life costs. The first stealth frigate, La Fayette family, was a pure product of the innovation-driven workforce powered by a dedicated team. Delivery was closely followed by FREMM, a new generation of cost-effective, multimission surface combatant. With its modern expertise, DCNS has constructed and equipped such technological successes as the nuclear-powered carrier Charles de Gaulle, the highly acclaimed Mistral 200 LHD and the cutting-edge, stealth GOWIND® corvettes. These are just a few of the modern-day examples of a tradition of firsts in innovation going back to the 74 gun ship-of-the-line of the remarkable naval architect Sané, the ironclad La Gloire of the brilliant naval engineer Dupuy de Lôme and the 40 knots plus large Le Fantasque class destroyers that engaged and outpaced enemy ships during the Second World War. To face emerging issues of today’s and tomorrow’s world, DCNS keeps coordinating initiatives to upgrade existing ships and develop new naval systems to deliver powerful technological solutions that customers will require in the future.

Creating new benchmarks for navies of the future

Anticipation, customer-oriented approach and projection of the future needs of navies are at the heart of an ambitious research and development programme. Anticipating the naval world of the future and its potential needs is a distinguishing feature of DCNS and is once again reflected in its extremely forward-looking approach. In addition to enhancing existing DCNS products, DCNS R&D will generate technological breakthroughs to raise the performance of navies to as yet unattainable levels and create new benchmarks for naval systems.
SURFACE SHIPS AND NAVAL SYSTEMS

ANSWERING TODAY THE NEEDS OF TOMORROW’S NAVIES

SYSTEMS AND EQUIPMENT

SETIS®
Resilient and integrated, the SETIS® combat proven system is the solution for navies engaged in large scale joint and inter-agency combat operations.

POLARIS®
Innovative, compact and flexible system for surveillance, littoral waters protection and littoral surface warfare.

UAS MARITIME INTEGRATION
Unique expertise in UAS integration for extended operational capabilities.
**TACTICAL DATA LINKS**
Interoperability enablers integrated to the combat system for maximum operational efficiency.

**MINE COUNTERMEASURES**
Easy-to-deploy, stand-off fully integrated solutions including unmanned sensors and effectors to cover all MCM tasks.

**IPMS**
Innovative solutions to easily and safely operate surface ships and provide the crew with operating assistance.
The complicated diplomatic and political situations of today's world require a modern navy to have high performance ships with a comprehensive range of weapons to provide an effective deterrent and guarantee territorial integrity. When graded offensive power is necessary, such multimission ships must have the stealth qualities and fire power to overcome any threat.
SURFACE COMBATANTS
SUPREMACY AT SEA

DCNS produces multimission combat ships for naval supremacy. The French FREMM programme led to the delivery of a heavily-armed surface combatant “ready for the future and already at sea”. The versatile configuration of FREMM enables DCNS to adapt it to the specific requirements of foreign navies. For navies looking for smaller combat ships, 4,000 t frigate and GOWIND® 2500 corvettes gather all of DCNS’ expertise with robust, versatile and highly cost-effective solutions.

UNPRECEDENTED PERFORMANCE AND FULL MULTIMISSION CAPABILITY
FREMM, 4,000 t frigate and GOWIND® are designed to form the nucleus of any naval force, with low through-life costs. With the performance and qualities of destroyers and light frigates, these multimission, highly versatile surface combatants are all-in-one AAW, ASW and ASuW. In addition, FREMM is equipped with weapons for land attack and has the permanent capability to operate as the command ship in a joint naval task force. They are the optimal solution to combine effective fighting power and exceptional stealth. DCNS engineers have pushed stealth even further to include the infrared and acoustic domains.

INTEGRATION OF COMBAT SYSTEMS SUPPORTED BY RELIABLE MARINE ENGINEERING AND EQUIPMENT
The combat system is fully integrated through a new generation Ship Enhanced Tactical Information System (SETIS®). Sylver® vertical launching system offers a multimissile capability. Efficient against all types of torpedo, CONTRALTO®-V system is adaptable to different launchers. For antisubmarine warfare, MU90 is the perfect lightweight torpedo system and is the preferred choice of first rank navies. Samahe® traversing system can handle a wide range of VTOL – from UAS to heavy helicopters – making handling safe in rough seas. Phoenix® monitors on-board incidents, proposes actions to restore key capabilities and supports personnel deployment to ensure effective recovery. In power supply/propulsion, DCNS leads the way with single components (propellers, shaft lines, thrust and bearing block, gearboxes) to fully-integrated systems such as the best hybrid solution for FREMM, with renown shock resistance and silent running.

NAVAL CYBERSECURITY
DCNS natively takes into account cybersecurity aboard all ships through embedded computing infrastructure, cyber-monitoring and training.

SHORT RANGE PROTECTION
In the bridge, a short range defence centre offers a 360° night and day coverage around the ship for close in targets response and navigation hazards awareness, based on augmented reality shared situation and user friendly HMI to allow short reaction time.

SETIS® COMBAT SYSTEM FOR NAVAL SUPREMACY
Innovation is always at the heart of DCNS systems and SETIS® is an outstanding example of what DCNS engineers can produce. Powerful algorithms and user-friendly Human-Machine Interfaces (HMI) drive this multirole combat system with exceptional properties of detection, identification and weapon response, making the ship capable to react in the most demanding situations.
Foreign instability can call for the deployment of an international naval force in an attempt to stabilise and eventually settle a political uprising. In a deteriorating situation, evacuation of people by sea must be performed rapidly, in a safe and secure manner. Efficient participation in such operations requires interoperable command systems, ships capable of securing the operation zone and assuming the role of a command ship.

FORCE AND POWER PROJECTION FROM THE SEA
ONE TO MANY, MANY TO ONE

DCNS is one of the few suppliers capable of providing all that stands for a modern surface fleet for today and tomorrow. Complementary, interoperability and versatility are key assets for our products shaping together an efficient and effective fleet capable of long-duration deployment at sea as demonstrated by French Navy operations involving a carrier or amphibious group.

A GLOBAL SOLUTION TO THE NEEDS OF A MODERN FLEET

Employed in large-scale and complex joint operations, DCNS products constantly prove their ability to interoperate and to integrate the overall chain of command and action. French Navy ships equipped with CHISTAR equipment are regularly chosen as command ships of choice. Based on this experience, integrated command aids and planning tools offers solutions for evermore complex joint operations. The DCNS Evolved Aircraft Carrier (DEAC) is able to ensure air supremacy in the earliest stages of any operation. Mine threats are overcome by MCM solutions based on extensive use of unmanned systems. With rapid replenishment and logistic support by a BRAVE® Logistic Support Vessel (LSV), the fleet can remain in the zone of operation over exceptionally long periods.

MULTIPLE FUNCTIONS FULLY ASSURED WITH THE SAME SHIP

The multipurpose Mistral family LHD completes the projection from the sea with her ability to operate as a command ship, a helicopter carrier and an amphibious ship. All these vessels are highly automated to be operated by an optimised crew and made safe by products such as the SHIPMASTER® ship management system and the Sysmart Global® secure wireless shipboard system for personnel tracking and mobile ship-wide voice/data/video services. Without a doubt, the principle of flow separation – separate channels for fast and secure movement of aircraft, ordnance, fuel, etc. – is a major element at the origin of the unmatched performance of DCNS Evolved Aircraft Carrier, BRAVE® and Mistral.

INTEROPERABILITY ENABLERS

From homeland security to high intensity combat operations, interoperability is critical. Thanks to its long experience in developing Tactical Data Links (TDL), DCNS offers solutions directly integrated into the Combat Management System (CMS). Integrated into the SETIS® CMS, LINKS® manages all NATO TDL standards (L11, L16, L22) while NIDL® is ideal for exchanging data within a national force and shore-based command centres.
Each navy has its own requirements and DCNS accompanies customers with carefully structured solutions at all stages of the acquisition and service life of its ships. An optimised balance between costs and availability is assured by the setting-up of a life-long association with the customer. Logistic support and contracted maintenance provide maximum availability of ships. At each stage, the environmental impact is taken into account.
A PARTNERSHIP TO REDUCE THROUGH-LIFE COSTS

PROVEN QUALITY SOLUTIONS

The DCNS approach is, starting from existing customer constraints, to propose a global collaborative process to successfully respond to the requirements of modern navies. A broad portfolio of products and services, combined with an understanding of new and emerging technologies, puts DCNS in a unique position to help, analyse and predict changing needs. Working with and for today’s navies, DCNS offers comprehensive low through-life costs.

STRUCTURED CUSTOMER-ORIENTED RELATIONS LEAD TO FULL PRODUCT SATISFACTION

DCNS is fully committed to delivering compliant quality solutions in due time. The end-user participates with DCNS engineers in all design reviews to optimise operational use. Virtual reality platforms and shore integration facilities give “sea experience” and simulated trial operation of the ship before it physically exists.

DCNS applies modular construction and has developed a unique information system to master the integration of such complex products as modern surface combatants. The design, production and acceptance verification are fully documented in a customer-friendly data package. Should a customer request local building, DCNS provides support by developing national skills and working alongside the local industry. Customer-defined equipment and systems can also be incorporated to meet specific requirements. On-job training and the first-of-class serve as a reference for subsequent local building.

IN-SERVICE SUPPORT AND BUILT-IN ENVIRONMENTAL AWARENESS

Contracts can include a commitment to guarantee full operational readiness throughout service life, another way to benefit from the ultra-competitive through-life costs of DCNS’ products. A modular approach is also adopted to modernise one or several features. Green disposal is in-built from conception. Fitting naval ships with high technology requires a responsible environmental approach to ship management throughout the life cycle. DCNS works toward the future by anticipating and solving future environmental constraints.

40+

SURFACE SHIPS ARE CURRENTLY UNDER A DCNS IN-SERVICE SUPPORT CONTRACT.

DCNS Universeaty

DCNS Universeaty offers customised training solutions for all the ship life cycle phases and for all kinds of ships (surface ships or submarines). In addition to the training programmes, DCNS Universeaty also offers its customers advisory services. Its performance is based on a unique network of approximately 3,000 training consultants, an expertise in various types of teaching methods as well as an important network of academic partners.
Never before has surveillance and control of coastal and littoral waters been of such economical importance to sovereign States. Threats can come in a multitude of ways and navies and coast guards require the suitably powerful and effective solutions to protect State interests.
MARITIME SURVEILLANCE AND INTERVENTION

SEA PROVEN AND GLOBAL SOLUTIONS

DCNS has provided solutions for maritime safety, security and defence. Each solution includes in-service and new equipment merged into a functional and cost-effective system. The DCNS offer is based on easy to operate and maintain elements for maritime surveillance 24/7, early warning, information sharing with rapid, safe and secure intervention.

A COMPLETE SOLUTION BASED ON PROVEN EXPERTISE

Kership, a Piriou-DCNS joint venture, offers Offshore Patrol Vessels (OPV) with endurance, comfort and sea-going qualities to cover ocean-scale zones of maritime sovereignty. With panoramic vision for the crew, sensors on an unobstructed mast, OPV have spacious aviation facilities for helicopters and UAS to operate efficiently even in rough seas. Fully integrated airborne sensors extend the performance of the mission system so that surveillance coverage is wide-reaching and provides no-risk, enhanced identification. Quickly deployable RHIBs give the required reactivity for rapid intervention.

A COMMAND VISION FOR ALL

POLARIS® compact maritime surveillance and defence system stands as a node for all actors engaged, be they civil or military, at all levels of command. It is a multifaceted system for surveillance which provides data correlation, identification and coordination and offers unique features such as abnormal behaviours detection and integrated NIDL® Tactical Data Link module for exceptional connectivity and interoperability. DCNS systems are ready for UxV integration, therefore expanding detection and intervention capabilities.

DCNS’ solutions meets the increasing need for shore-based maritime surveillance with extended data fusion and decision-making tools allowing a multilayered, comprehensive maritime traffic picture. Last but not least, DCNS offer includes specialised applications for dedicated missions, such as Search and Rescue (SAR) for processing and management of all SAR alerts and drift-enabled optimised searches.

CUSTOMER-ORIENTED APPROACH

DCNS acts as a fully-engaged partner with government agencies involved in maritime security and safety. By positively responding to an existing organisation with a cost-effective, tailor-made offer after a detailed audit of existing resources, DCNS know-how, products, training and services can improve any existing situation.

MULTIPURPOSE VESSELS

WILL BE DELIVERED TO THE FRENCH NAVY WITHIN THE FRAMEWORK OF THE B2M PROGRAMME.

UxV naval integration

For civilian and military applications, unmanned vehicles will act as force multipliers. DCNS provides physical and functional integration of unmanned vehicles (UAV, USV, UUV...), operated through the combat or mission system of the mother ship.
Anticipation and projection of the future needs of navies are at the heart of an ambitious research and development programme at DCNS led in concertation with the French defence procurement agency. Anticipating the naval world of the future and its potential needs is a distinguishing feature of DCNS and is once again reflected in this extremely forward-looking approach. In addition to enhancing existing DCNS products, R&D studies will generate technological breakthroughs to raise the performance of future navies to as yet unattainable levels and create new benchmarks for naval systems.
F21 heavyweight torpedo
Produced with ITP partners and subsidiaries, the F21 aims at neutralising surface vessels and submarines.

Safe navigation in all circumstances
SHIPMASTER® enables the crew to easily and safely operate warships by managing a wide range of key functions.

Solution provider
DCNS offers an unrivalled expertise in a wide array of mission-critical systems, ranging from innovative ship management and secured communication solutions to state-of-the-art propulsion, multimissile vertical launcher and mine warfare systems.

Working today for tomorrow’s navies
DCNS engineers design, create and develop cutting-edge equipment that is then integrated on-board. From platform systems and telecommunication solutions up to weapon launchers, DCNS definitely fully meets the Navies’ operational requirements of Navies® and provides them with its solid expertise.

Next generation battle damage control system
Phoenix® monitors on-board incidents, proposes actions to restore critical capabilities and supports personnel deployment decisions.

F21 heavyweight torpedo
Produced with ITP partners and subsidiaries, the F21 aims at neutralising surface vessels and submarines.

Action and mobility
Sysmart Global® is a secured wireless solution for operating assistance and safety on-board.

MU90 lightweight torpedo
Built and designed with the most advanced technology, the MU90 is capable of countering any type of nuclear or conventional submarine.

A breakthrough in antitorpedo defence
The new-generation CONTRALTO®-V system has been especially designed to face advanced lightweight and heavyweight torpedoes.

Sylver® Vertical Launching System
Used on frigates and corvettes, the Vertical Launching System (VLS) launchers can accommodate a wide range of missiles in complete safety. They offer high availability, low maintenance and strong in-service reliability.
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