

NAVAL
GROUP

**FDI: Effective, Efficient,
Resilient**



More than a decade of R&D and a century of legacy...

The FDI's peculiar inverted bow brings a boost in hydrodynamic performance...

- Smoother passage through the waves in high sea states, without bow submergence
- Minimised deck wetness
- No flare slamming
- Increased waterline length: higher maximum speed




... and some nice-to-have

- Improved close range deck visibility and gun firing: perfect for asymmetric warfare
- Reduced RCS (radar cross section) to evade threats through stealth
- A stunning look

... now sea-proven

Since the delivery of lead ship *Amiral Ronarc'h*, the FDI has proven in high sea states its superior stability, and thus mission performance

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- 20 knots in **sea state 7** (taking head-on 6-9m waves) already demonstrated in real life by FDI Amiral Ronarc'h
 - Reduced slamming effect and very low foredeck submersion rate, **minimising stress and fatigue** for the crew, the hull and onboard systems
 - **Exceeds** the top speed requirement of **27 knots**

A frigate that has already demonstrated its capabilities for **long-endurance, high-speed operations**, under the most demanding conditions

Built for the French Navy, the FDI meets the **highest** standards to enable it to be deployed **all around the globe** from **Brest** (Atlantic Ocean) and **Toulon** (Mediterranean Sea)

A blue water frigate, for blue water navies

The most rational frigate...



CMN

With its peculiar hull shape and size, the FDI features **excellent hydrodynamics**, with improved stability thanks to its **active stabilisation fins**:

- **Less fuel consumption**, especially at top speeds thanks to CODAD propulsion and variable-pitch propellers
- The FDI's inherent nautical qualities render moot the need for a fuel-hungry, complex-to-maintain gas-turbine: **availability means capability**

Packing destroyer-tier capabilities in a compact size also comes with fleet wide structural advantages:

- **Easier integration to existing infrastructures** (often an overlooked 'hidden cost', at the expense of both budgets and schedules)
- **Leaner crews**, allowing to tackle growing and global HR challenges
- **Reduced life-cycle costs**

... **without compromising resilience in combat**

The FDI has been designed and built with the same uncompromising standards as the French FREMM



A frontline ship intended to survive combat and protect its crew

- Full **compartmentation** and **redundancy** of systems (remotely-operated valves with pneumatic controls, 6+1 generators, 4 diesel engines...)
- Double watertight bulkhead in the middle of the ship
- Dedicated engineering control room to complement the Integrated Platform Management System
- CBRN-protected citadel