

FROM RESEARCH TO INDUSTRY

cea tech

CEA TECH SERVICES FOR THE MARITIME INDUSTRY

Technology for tomorrow's maritime-industry challenges



CEA Tech can help the following businesses:

- Maritime vessel/boat builders and equipment manufacturers
- Port infrastructure manufacturers
- Port operators
- Shipping companies (passengers and goods) and ship-owners
- Logistics companies



Here are some of the ways CEA Tech can support your development:



Vision systems

Night vision, video surveillance, navigation and docking assistance; geolocation; detection and control of passengers and goods on board and at port

Robotics and cobotics

Container-loading assistance, ship-to-shore logistics, maintenance solutions (cranes), boat loading systems for dry-docking

Non-destructive testing

Preventive maintenance, manufacturing-defect inspection, troubleshooting marine and underwater equipment and infrastructures

Energy (fuel cells, batteries)

Energy efficiency, offshore energy storage, renewable energy production and production-system integration, ship-to-shore charging networks

Materials

Materials for depollution, heavy materials capture, lightweight structures

Recycling

Materials recycling, lifecycle analysis, waste recovery

Sensor integration

Air and water quality, sail deformation monitoring, fishing net monitoring, docking assistance, shipping container traceability, collision avoidance

Communication

Secure ship-to-ship and ship-to-shore communication, connectivity for navigation systems, connected at-sea infrastructures

HMI (virtual and augmented reality, touch screens)

Control panels, interactive displays, augmented vision systems for maintenance or logistics assistance at port

Cabling diagnostics

Embedded diagnostics, cable network diagnostics, assistance systems for locating underground or undersea cables

Data analysis and expert systems

Route optimization, port logistics, cost traceability, real-time docking-slip management

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