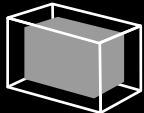**SH** DEFENCE

Patent pending

The Cube™ System

Future-proof Containerized Multi-Mission Modules
For Coast guard, SAR and Navy vessels

Containerized interchangeable mission modules for Air, Surface and Subsea capabilities

OMT

Multi-Mission Patrol Vessel by OMT Ship Design with Cube™ Multi-Mission Modules

The Cube™ System

Patent pending

The Cube™ System is both equipment modules and a handling system to replace and move the modules around.

With The Cube™ System – Any Navy can turn almost any platform into a true multi-mission capability.

It takes a Cube™-ready platform, a Cube™ Side or Stern Loader, and Cube™ Certified payloads.
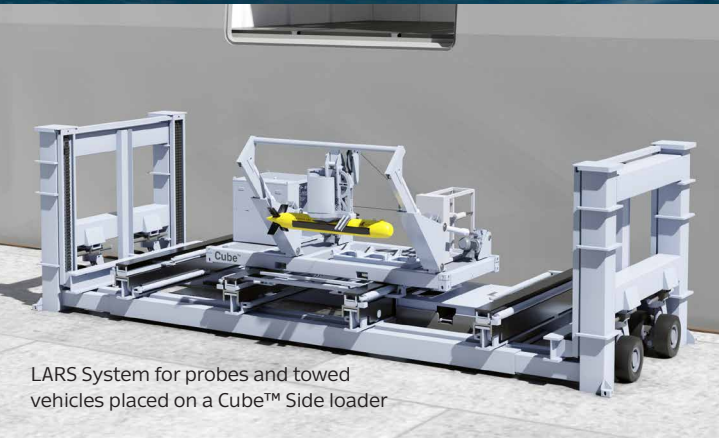
Additionally, it takes the Cube™ Skidding System and elevator to move payloads around on decks or between decks.

With The Cube™ System Coast guard, SAR and Navy vessels can reconfigure new mission profiles on all domains without costly rebuilding or interchange payloads between platforms in less than four hours.

When Cube™ Modules are not on board, they are ashore for maintenance, the crew's training or as part of a harbour integrated emergency preparedness capability. This is performed on a special stand.

The Cube™ System is designed according to DNV GL ST-0378 and is NATO STANAG compliant. It provides a safe and robust foundation for any mission equipment.

300+ Available payloads
Interchangeable containerized mission modules

LARS System for probes and towed vehicles placed on a Cube™ Side loader

VARD™
a Fincantieri company

The Cube™
Ready Platform

NEXT GENERATION OPV
VARD 7 125 WITH
THE CUBE™ TECHNOLOGY

Shipyards/Designers:

FASSMER DEFENCE

BAE SYSTEMS

FINCANTIERI

babcock™

≈Navantia

OMT

DAMEN NAVAL

BMT

NAVAL GROUP

SAAB TECHNOLOGIES

N·V·L

Baltic Workboats shipyard

SANDOCK AUSTRAL SHIPYARDS

KONGSBERG

GERMAN NAVAL YARDS

VARD™
a Fincantieri company

HYUNDAI HEAVY INDUSTRIES

Navies in Dialogue:

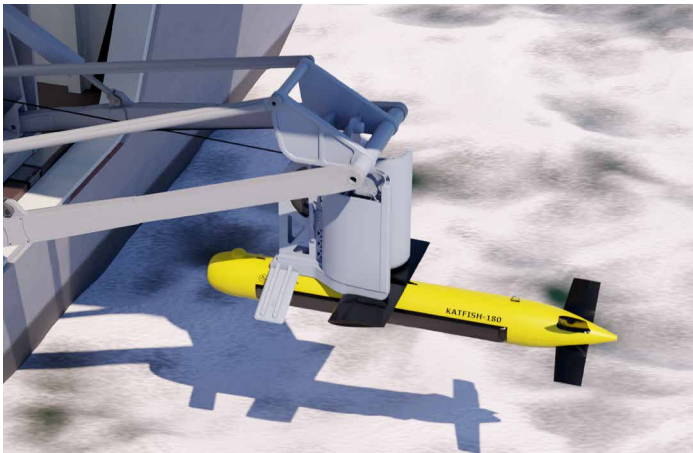|									
Denmark	Finland	Norway	France	Spain	Portugal	Australia	Panama	Colombia	Canada
Estonia	Lithuania	Poland	Germany	Sweden	Saudi Arabia	Chile	Brazil	Bangladesh	
Dutch	Belgium	United Kingdom	Greece	Nigeria	Malaysia	Iceland	Singapore	South Korea	
Italy	Romania	Ukraine	India	Japan	Bulgaria	New Zealand	Indonesia	United States	

Cube™ module suppliers:

SH DEFENCE

DC SUPPLY · KRAKEN · DESMI · ATLAS ELEKTRONIK · THALES · MSI Defence Systems Ltd · TERMA · BALLARD · TELEDYNE TECHNOLOGIES · LIQTECH

KYSTDESIGN SUB-SEA TECHNOLOGY · L3HARRIS · LEONARDO · RHEINMETALL DEFENCE · SEALARTEC · VESTDAVIT · PZ PRO:ZERO · WEIBEL DOPPLER RADARS · GTI GeoSpectrum Technologies Inc · thyssenkrupp

uni-safe SAFETY AT SEA · STROBELTEK · Raytheon Missiles & Defense · ULTRA · STADT LEAN PROPULSION · DSIT SOLUTIONS · COPENHAGEN GROUP · Pro-Safe www.pro-safe.dk · Elbit Systems EW and SIGINT - Elisra · SEA Europe

Naval Disaster Relief Operations

Cube™ Modules for NDRO and HD operations on any type of warships:

- Drone control system
- Transportable Command Center
- Surface work boat
- CBRN Modules
- Medical lab modules
- Medical treatment module
- Pandemic Test modules
- Morgue modules
- Rescue and Evacuation modules
- Staff workplaces module
- Additional accommodation modules
- Fresh water plant module
- Generator unit module
- Battery power Plant modules
- RHIB modules
- Hydraulic powerpack modules
- Crane modules

Anti Submarine Warfare - ASW

Cube™ Modules for Anti Submarine Warfare - ASW:

- Towed array Active Sonar modules
- Multibeam Sonar modules
- Retractable Sonar modules
- Side Scan Sonar
- Submarine module
- Sonar boys and pods modules
- Depth charge modules
- Anti-Submarine Torpedo modules
- Anti-Submarine Missiles modules

Anti Surface Warfare - ASuW

Cube™ Modules for Anti Surface Warfare - ASuW:

- SSM/ASM modules
- GUN modules
- CIWS modules
- Decoy modules
- Small weapons modules
- Torpedo modules
- Counter torpedo modules
- Laser directed energy modules
- Different radar modules
- Surface Drone modules

Mine Warfare, MW

Mine warfare consists of two different areas, mine laying, and mine counter measures

Cube™ Modules for Anti Surface Warfare - ASuW:

- SSM/ASM modules
- GUN modules
- CIWS modules
- Decoy modules
- Small weapons modules
- Torpedo modules
- Counter torpedo modules
- Laser directed energy modules
- Different radar modules
- Surface Drone modules

Anti Air Warfare - AAW

Cube™ Modules for Anti Air Warfare - AAW:

- ASM modules
- CIWS modules
- Decoy modules
- Small weapons modules
- Laser directed energy modules
- Different radar modules

Supporting Cube™ modules:

- SATCOM modules
- Drone control system modules
- ISR modules
- Transportable Command center modules
- Counter UAV modules
- FLIR-system radar
- Drone modules
- Retractable sonar module
- Multibeam sonar module
- Helicopter re-fueling module
- Battery power plant modules
- Special Forces armory modules
- Submarine 12 m module RHIB – modules
- Surface drone modules
- USV Recovery Cradle modules
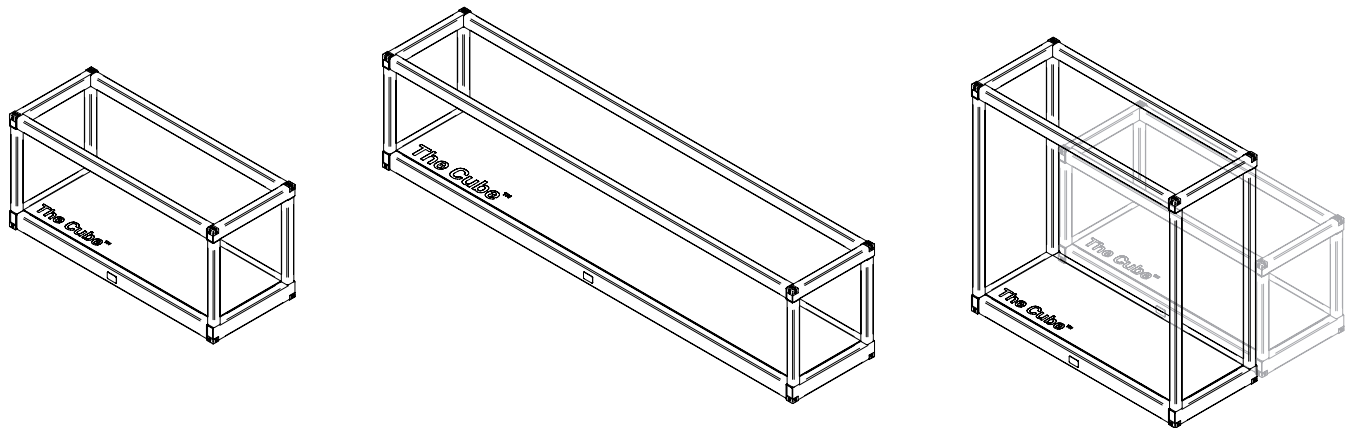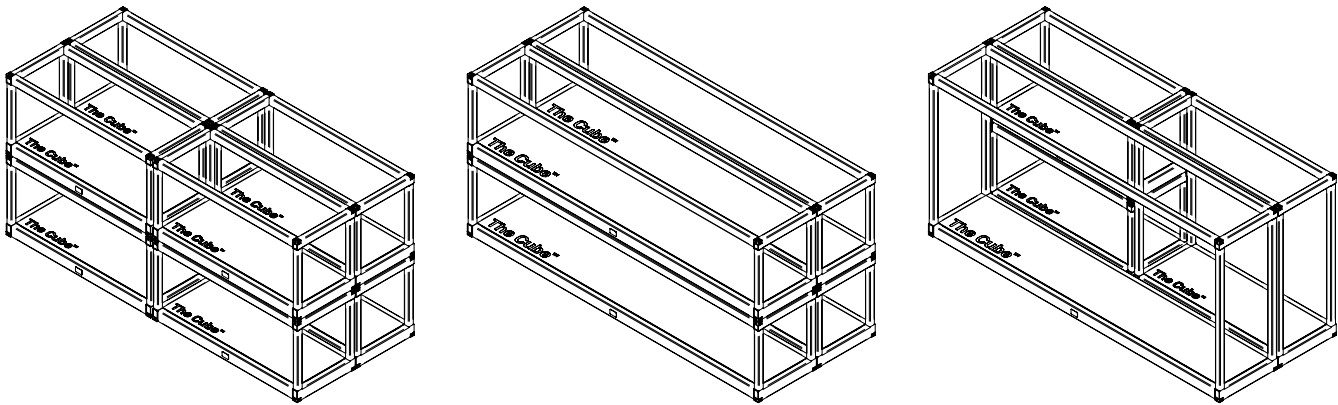- UAV modules
- Special Forces RHIB

Cube™ Mine laying module on a Cube™ Skidding system

SH DEFENCE

Standard 20'

Standard 40'
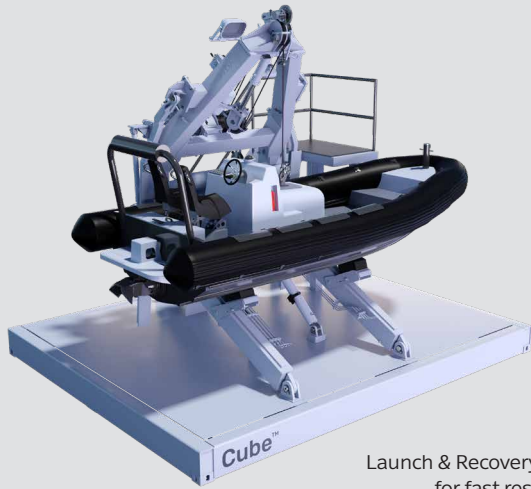

2x 20'

8x 20'

4x 40'

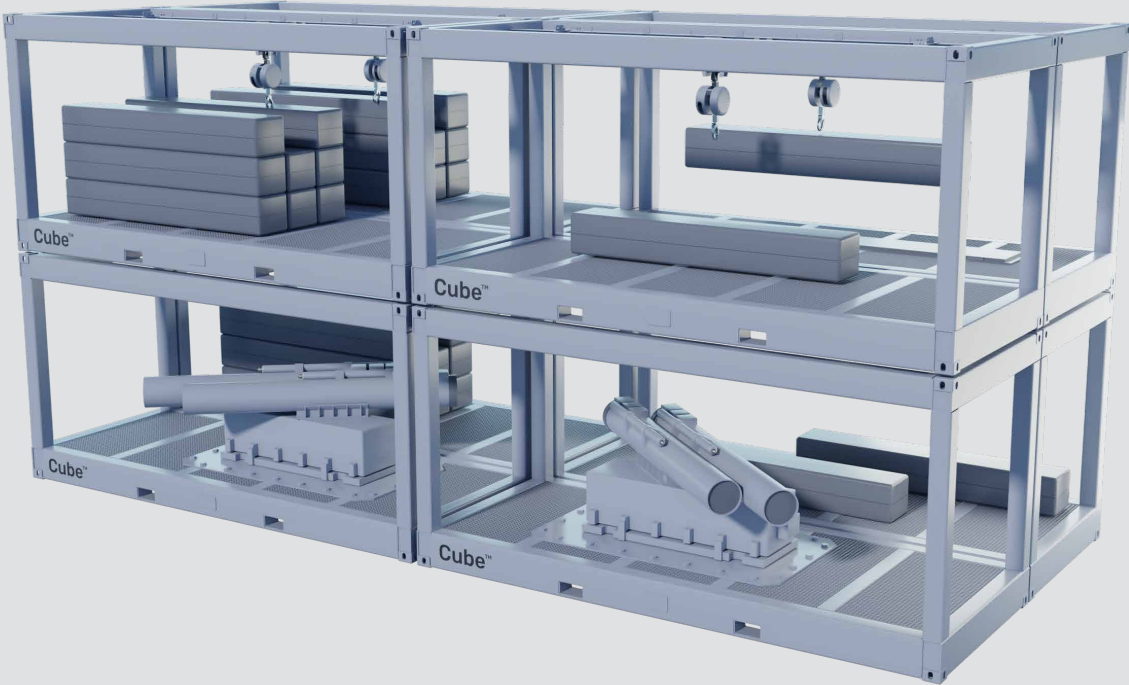
Mix of 20' + 40'

The Cube™ Frame concept

Fully compliant with NATO STANAG 4830 / ANEP-99 - Design and Interface Standards for Containerized Mission Modules
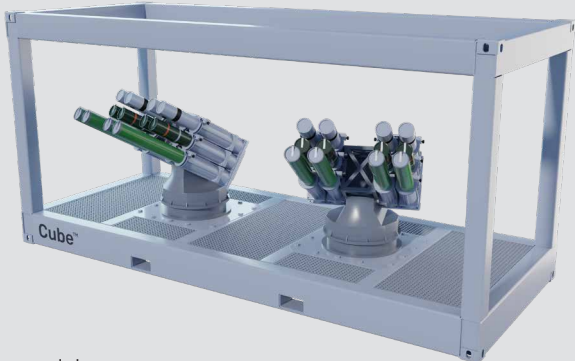

Fresh water plant module

Launch & Recovery System for fast rescue boat

Lightweight Torpedo module

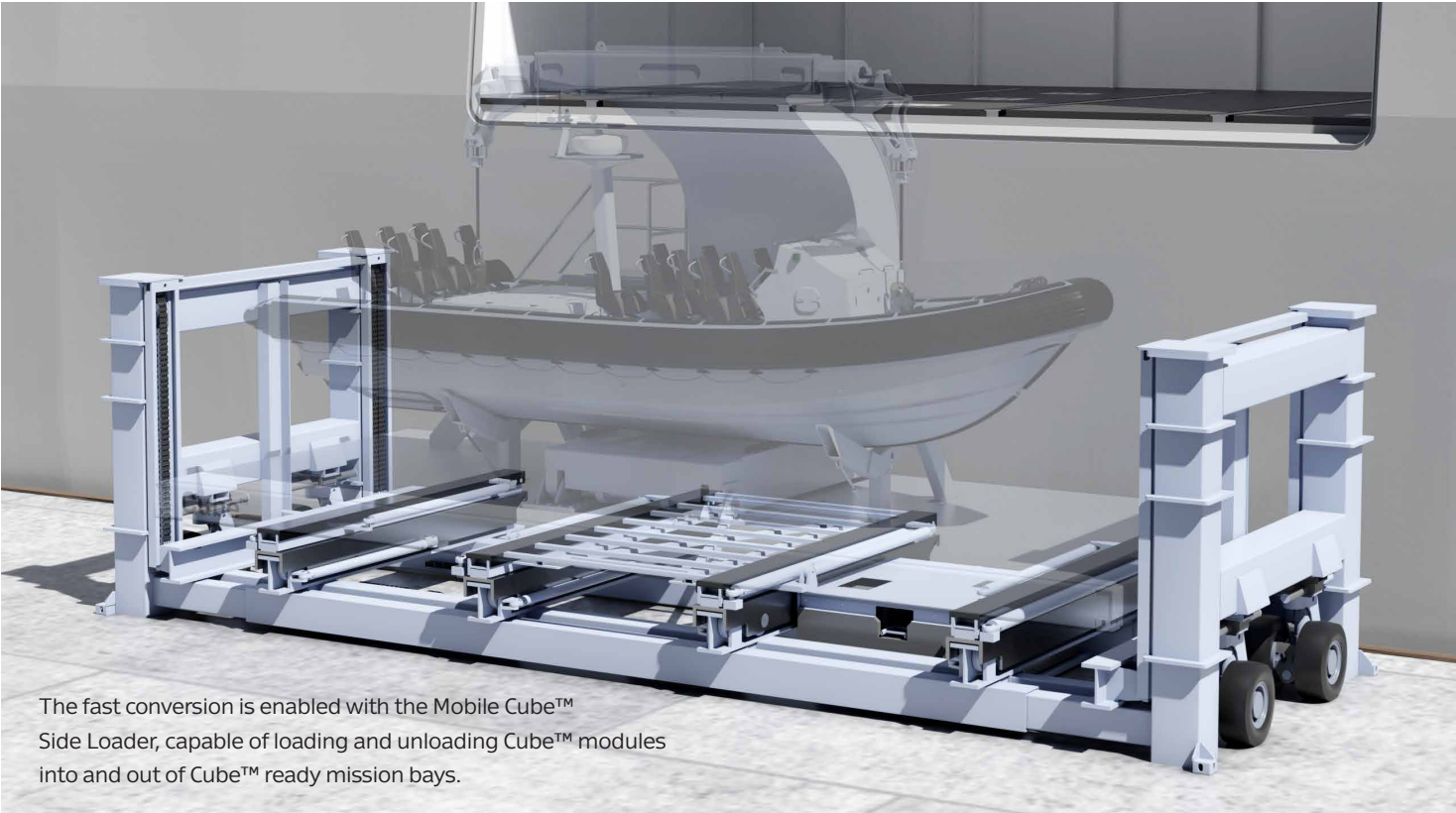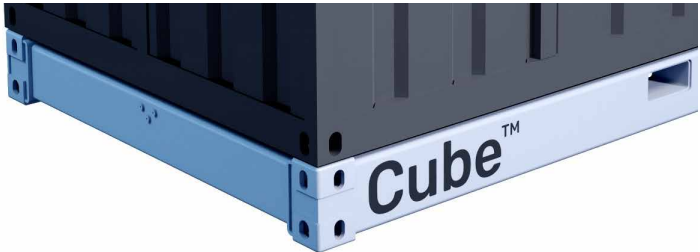Launch & Recovery System for probes and towed vehicles

Decoy module

ROV/Drone Launch & Recovery module
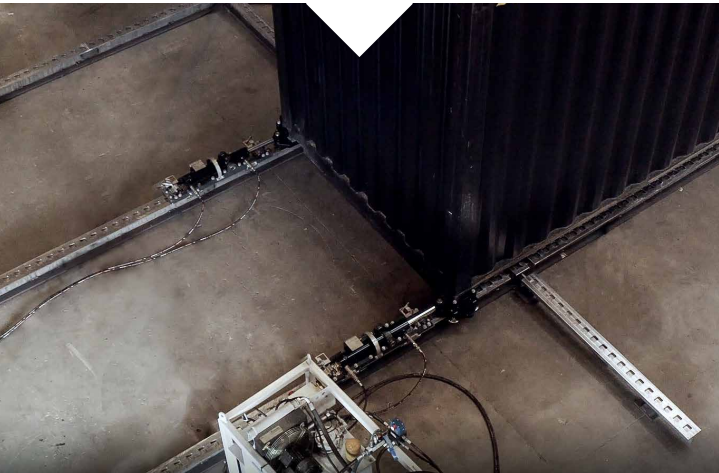

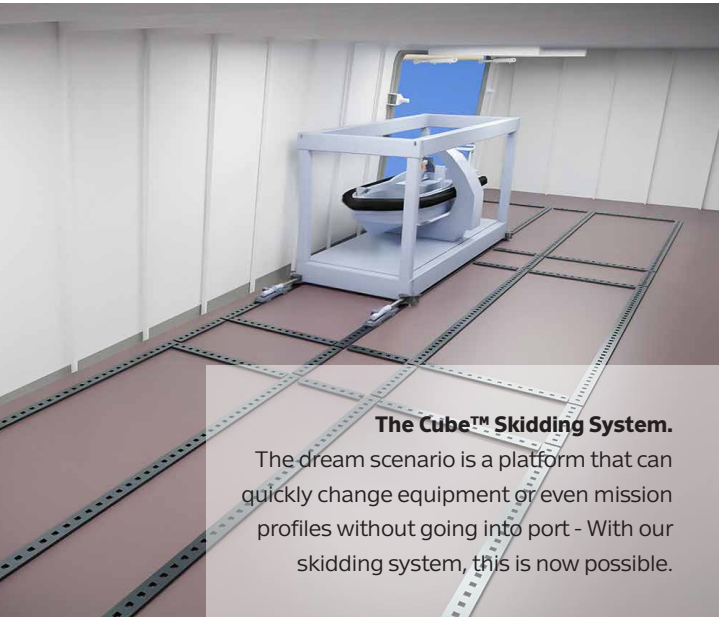Oil / Chemical containment module

The fast conversion is enabled with the Mobile Cube™ Side Loader, capable of loading and unloading Cube™ modules into and out of Cube™ ready mission bays.

Fast swap of equipment between vessels
Modules can quickly be exchanged in any harbour and only requires a Cube™ Side or Stern Loader.

The Cube™ Side Loader System

The advantage of strategic deception.
An adversary will not be able to identify a platform's true mission profile and capabilities. All payloads can be covered during transport to and from a naval base warehouse.
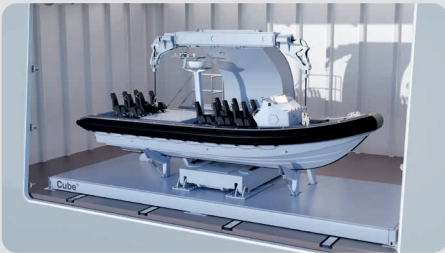

Cube™ Flex Frame
Adaptor frame to turn standard 20' and 40'shipping containers into a Cube™ module.

The purpose of the Cube™ 20' and 40' Flex Frame is to convert standard 20' shipping containers into Cube™ Ready containers that can be loaded and unloaded using the Mobile Cube™ Side Loader.

The Cube™ Skidding System.
The dream scenario is a platform that can quickly change equipment or even mission profiles without going into port - With our skidding system, this is now possible.

Training or maintenance when modules are not in use.

Link to movie on **YouTube**

The Cube™ System introduction

Modern naval vessels must be capable of carrying out different missions and roles in both peacetime and wartime.

Mobile Cube™ Side Loader

The fast conversion is enabled with the Mobile Cube™ Side Loader, capable of loading and unloading Cube™ modules into and out of Cube™-ready mission bays.

Sea stage Skidding System for containerized modules

The system makes it possible to quickly move Cube™ compatible modules around inside the hangar or replace modules in the missions bay.

https://youtu.be/0gnsOr5sVmM

https://youtu.be/sgMM-1rOrCYA

https://youtu.be/_zhjh0NtWfE

The Cube™ System is:

'Plug and play' mission modules for air, surface and subsea domains run from a Cube™ Ready platform (vessel).

The Cube™ System is also:

An infrastructure to quickly handle and move Cube™ modules on deck, inside the hangar or to replace existing modules in the mission bay.

Kuopiovej 20 · 5700 Svendborg · Denmark
www.shdefence.com

11-2022