

## Real time monitoring for marine infrastructures and ships

**Sector:** Marine infrastructures

### Short description of the needs:

*Scope of the challenge:* Monitoring in real time the conditions of assets on shore as piers and berths of dedicated marine terminals and ships moored. Focus: structural condition of the infrastructure and eventual damages together with marine fouling on submerged sections of the quays, enable optimized assessment of the structures and better operation activities.

*Objective:* Improve regular maintenance aspects both for infrastructures and for ships and be able to have a constant monitoring of the asset, lower economic impact of monitoring and maintenance processes.

*Cooperation opportunities:* Realization of a dedicated customized underwater drone ROV able to inspect a targeted asset and to produce a set of high-resolution pictures able to bring back the condition of the dedicated surface inspected. The company needs expertise in design and construction of the drone and modelling and integration of the features and equipment.

*Additional informations:*

Cost: low price;  
Operation condition: 200-300 metres to be inspected, submerged max depth up to 10/15 metres, inspect from one meter even in high water turbidity.

Features and equipment: customized sensoring, 3D modelling, camera with tailored performances, software integration for modelling and overview surface condition.

**More info:** For more information apply to [carlo.kraskovic@marefvg.it](mailto:carlo.kraskovic@marefvg.it) or [alessandro.bosco@marefvg.it](mailto:alessandro.bosco@marefvg.it)

**Point of contact for the brief/challenge:** Maritime Aerospace Renewable Energies Technology Cluster FVG

**Company position in the value chain:** Tier 1