
UltramapGlobal

Insights Report Beyond Protection.
Monitoring Services for Offshore Installation
Projects. **September 2023**

UltramapGlobal is Dedicated to the Protection of The World's Most Important Subsea Cables.

Introduction

UltramapGlobal is a brand most associated with protection. However, in 2023, 10 years after we launched UltramapGlobal, 14 years after AssetMonitor went live, benefits go way beyond Protection alone. This short report explores how.

Background

For offshore installation projects, UltramapGlobal brings together two of its flagship products:

- AssetMonitor®
- 24/7 Monitoring services

UltramapGlobal apply them to the rigorous requirements of offshore cable and pipeline installation projects.

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AssetMonitor® is the world's most used Specialist Subsea Cable Monitoring Software. Consequently AssetMonitor® knows more, and we apply that intelligence to making sure our customer's subsea assets are better protected than anybody else.

AssetMonitor® is a web-based tool that uses AIS data to monitor vessel traffic in the vicinity of project areas and subsea assets, raising alerts if vessels exhibit behaviour that is potential damaging to the subsea asset or is dangerous for the project vessels and team.

UltramapGlobal Monitoring Services is our in-house monitoring teams, based at strategic locations around the world.

UltramapGlobal monitoring teams monitor alerts from AssetMonitor® in real time, taking agreed preventative action on your behalf. Our team responds to alerts 24 hours a day, 365 days each year.

UltramapGlobal Monitoring Services will create regular Activity Reports that chronicle every single event that the UltramapGlobal Monitoring Services team responded to, plus any subsequent responses from vessels and/or organisations.

Installation Project Specifics

The installers we work with can use AssetMonitor® on an ongoing basis, applying it to each project they work on, or they can simply subscribe to AssetMonitor® and our Monitoring Services when they need them.

Regardless of how our customers subscribe to our services, we know that each offshore installation project is unique so we tailor our approach for each.

In general terms, our customers want us to supply an AIS based monitoring system to support the guard vessels' protection of the subsea asset and project area. We will monitor the activity of all vessels around the project area automatically raising alarms if vessel activity is a potential threat.

Here's what we do for each of the project we work on:

- We set up project zones, mapping them and updating them to mirror the schedule of work.

We work with the project team to follow the project, updating the zones to mirror progress. Not only important from a visual reference perspective but we may also apply different monitoring rules for each project milestone.

Provide access to AssetMonitor® for the Project Team so they can see what our monitoring teams can see

- Exclusion zone parameter definition. Zones may vary in width depending upon the type of threat we expect to encounter.

- Exclusion zone rule definition. For example, what behaviour generates high level alerts and what behaviour do we want to ignore.

Statistically we know that most threats come from anchoring, specific fishing activity and dredging work.

Our customers don't want us to raise alarms associated with the activity of Project Vessels

- Link into the best source of real-time AIS for the project area one of, or a combination of:

UltramapGlobal's network of AIS receivers.

Existing networks of shore-based AIS receivers.

Existing constellations of AIS satellites.

AIS receivers on board Guard Vessels and Patrol Vessels.

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AIS receivers that UltramapGlobal can provide, in most cases free of charge to install on asset landing stations.

- Agree the communication rules our team are going to apply for each area. For example for the project team, project vessels and encroaching vessels
- On a 24/7/365 basis, physically police, compliance check and rule enforce in and around project zones. Communicating as agreed with project vessels.
- Vessel traffic monitoring.
- Provide training for the project team if required.
- Project reporting. To an agreed schedule, create and send a report on our project work showing activity in the project area in the time period, alerts generated and vessel interventions carried out by us.

Benefits – Beyond Protection

- **Peace of mind** because you are using AssetMonitor®, the world's most used Specialist Subsea Cable Monitoring Software and a 24/7 team with experience of monitoring more cables than anyone else.
- **Cost saving.** Savings are possible with UltramapGlobal's support because of better planning and preparation for Guard Vessel Commissioning and Positioning. Fewer vessels are generally needed.
- **Real Time Proactive 24/7 Service** tailored to project requirements.
- **Real Time Project Situational Awareness** of the project, project vessel positions and vessels nearby.
- **Health and Safety Compliance** Positive Impact/enhancement. For example situational awareness of a vessel dredging towards or over cables, a vessel making an emergency stop in close proximity of cables or a vessel going to anchor on cables.

Full project area overview managed from 1 point creating awareness for all parties involved in project. All done by remote interaction so potentially no offshore presence needed. Caution and warning messages are sent to vessels' navigation systems if they are on a collision course with the Installation Area.

- **Minimising Environmental Impact.** Fewer vessels means lower fuel consumption and emissions.
- **Minimising Operational Impact** AssetMonitor® helps ensure smooth transit of vessels through the project installation areas while the installation work was being carried out.
- **Enhanced Reporting to agreed schedule.**
- **We store all project data** including vessel movements and alerts. We provide alert playback and vessel playback for a specific area.
- **Historical data** is available for future planning.

Martin Connelly interviewed, UltramapGlobal Co-Founder.

We've helped the Installers of subsea cables in various ways since we launched AssetMonitor® in 2009.

At the beginning, the world of the Cable Installer was a calmer place. Many cables were being laid of course. And there were Cable Installers to do the work. The sector was vibrant and steady in 2009.

UltramapGlobal helped to protect cables, the businesses and the cable installers themselves from danger and damage.

As I think about the world of cable Installers in 2023, things are very different.

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Many of the concerns are still the same as 14 years ago of course. We are protecting cables when they are exposed and at their most vulnerable, because there is no physical protection deployed at that point, for example by being buried beneath the seabed.

**“As I think about the world
of cable Installers in 2023,
things are very different.”**

And we are still protecting cables when breakages are hardest to track. If an uncommissioned cable is damaged, it can be missed, because there are no noticeable outages. All of this is as real in 2023 as it was in 2009.

What's new is that UltramapGlobal can offer additional support for Maritime Managers. Our increasingly advancing AssetMonitor® software provides an overview of everything that is happening in and around an installation project in increasing detail.

*So, more current support, as well as our core offer of **Protection**, includes **Planning, Project Progression Management, Big Cost Savings** and **Reputational Enhancement** for the Cable Installers.*

**“In 2023, UltramapGlobal
benefits go way beyond
Protection alone.”**

*We can, for example, help to best-plot proposed cable routes - a key part of the **Planning** process.*

*And we support **Project Progression Management** too because we can report regularly, in real time and at key milestones, how a project is progressing versus delivery timelines.*

***Big Cost Savings** are possible for Cable Installers with UltramapGlobal's support because of better planning and preparation for Guard Vessel Commissioning and Positioning. There's a high probability that UltramapGlobal services will lead to the commissioning of fewer Guard Vessels, saving £2,000 or much more per Guard Vessel per day.*

***Reputational Enhancement** for Cable Installers, in the opinion of Cable Owners, is automatic when UltramapGlobal is adopted as a working partner. This is an increasingly valuable attribute for Cable Installers in the increasingly competitive Cable Installer market.*

In 2023 and beyond, UltramapGlobal benefits go way beyond Protection alone.