



WORK
ABILITY



SAFETY



SUSTAIN
ABILITY



PERFORM
ANCE

 **MO4** DIAGNOSTICS



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A need for smart operations

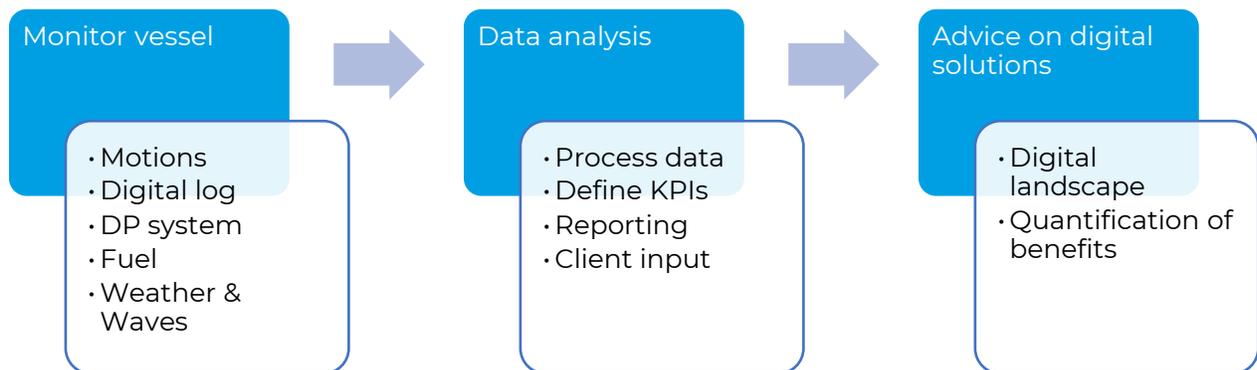
Managing costs of offshore operations is becoming increasingly important. A clear driver exists in the offshore wind industry to push operational costs lower and deliver power more economically. The same applies to traditional oil and gas market activities such as decommissioning and late-life operations – a clear incentive for low-cost solutions. However, offshore operations are inherently expensive due to the specialized vessels and risks that are not present onshore. It's simply more difficult to perform a lift on water than on solid ground. Risk is another important item: constantly changing weather and waves is a given in any offshore location. The cost impact of not being able to access a platform or turbine, install a component or perform a lift can be immense.

Managing weather critical operations, weather downtime and minimizing operational costs are tasks that call for digitalization. MO4 provides innovative services that enable the next step in optimizing offshore operations.

The main benefits of digitalization of offshore operations:

- ✓ Higher uptime of vessels
- ✓ Lower fuel consumption and emissions
- ✓ Safer operations
- ✓ Transparency in critical decisions

There are many solutions on the market that promise to deliver these benefits. But it is crucial for the success that a solution fits well into the daily business. MO4 therefore offers *Diagnostics*, a consultancy service that maps and quantifies the benefits of digitalization for your offshore operations. A vessel is outfitted with various sensors and existing systems are connected to a datalogger. The ship, or fleet, is followed for 6-12 months to build sufficient operational knowledge. Important metadata, such as operational logs and weather data is added to the dataset. The collected data is processed by one of our analysts and a management consultancy report is written that specifies how operations can be improved and how much can be gained with digital solutions.



Diagnostics

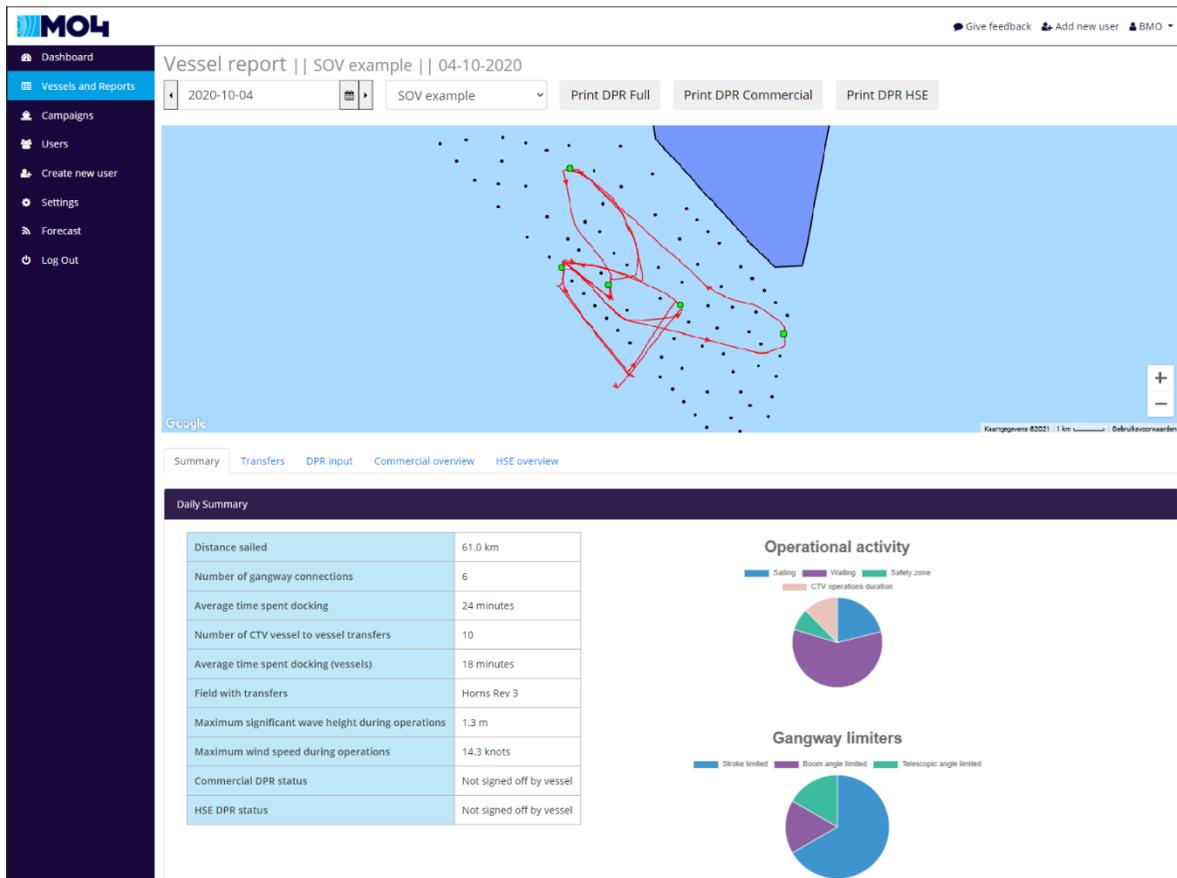
Digital innovations can only be successful if the business case of each application is clearly understood. Close collaboration with our clients helps ensure knowledge transfer and correct embedding of application within the client's organization. A vessel or fleet is analyzed in the context of the specific business needs the vessels operate in. As an independent 3rd party company whose core focus is operational intelligence in the maritime and offshore industry, MO4 is very well positioned to advise and assist a client's transition to a fully integrated digital solution, empowering humans to make better decisions.

The advice is quantitative and qualitative. A few example questions that are posed

related to digitalization during the process are:

- Is it possible to reduce fuel consumption and carbon footprint?
- Can we reduce weather downtime and needless sailing?
- Can data flows be automated to streamline administrative processes (such as daily progress reports)?
- Is it possible to make operations safer by leveraging data into daily use?

Optimization and digitalization should start with a clear goal and understanding what is feasible. Making the business case is crucial. We help you do that.



Screenshot of the Data Analytics dashboard for an SOV