



# Area Breakdown Tool (ABT)

## Q-routes & Polygons

### Supporting Complex Mission Planning

SeeByte's SeeTrack is a mission planning, monitoring, post processing and reporting tool for rapid on-site analysis and data fusion. The latest generation, SeeTrack v4, includes support for modern high-bandwidth sensor suites, including Synthetic Aperture Sonar (SAS). SeeTrack v4 allows operators to plan, execute and assess an MCM mission in a fraction of the time and with fewer false alarms than would be possible with conventional tools.

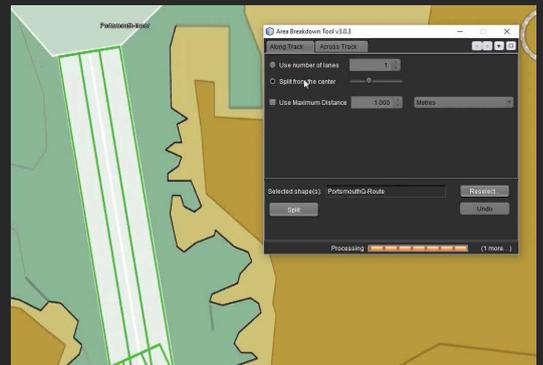
### Area Breakdown Tool

SeeTrack v4 allows operators to plan and manage unmanned systems missions for large complex operational areas, like Q-routes and Polygons. SeeTrack also supports the import of Q-routes and Operational Areas.

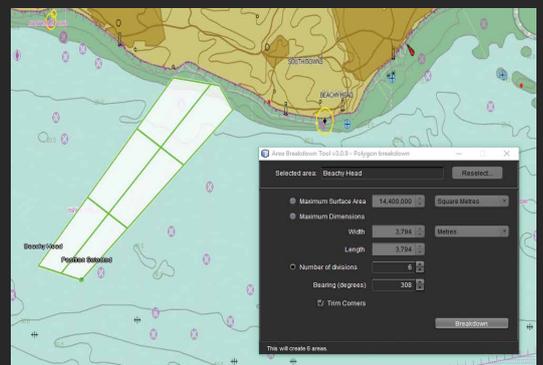
These Operational Areas can routinely be so large that it is impossible for an operator to plan individual missions for unmanned maritime systems (UMS) to survey the area in a timely manner.

To facilitate the planning and execution of these increasingly complex unmanned maritime operations, SeeByte's Area Breakdown Tool has been designed to help operators divide large Operational Areas into smaller sections that can be assigned to available assets.

The Area Breakdown Tool will aid the operator to efficiently prepare a set of sortie plans and quickly evaluate alternatives for a complex mission involving multiple vehicles.



Q-route divided into smaller survey lanes



Polygon broken down into smaller areas

# Specifications

## Neptune

SeeByte's Neptune provides a goal based mission planning, and real-time autonomy engine. Neptune can automatically optimise the output from the Area Breakdown Tool to minimise the sortie duration and maximise tasking across the entire squad.

Using the estimated duration of the tasks and considering practical logistical information, such as the asset charging and transit time, the schedule of the mission plan can be optimised. The main benefit is the speed at which an alternative plan can be reviewed and updated based on the actual outputs from each day.

Neptune also provides automatic matching of mission requirements against available assets, in-mission adaptation to changes in the environment, and open interfaces for adding new capability.

## Area Breakdown Tool Capabilities:

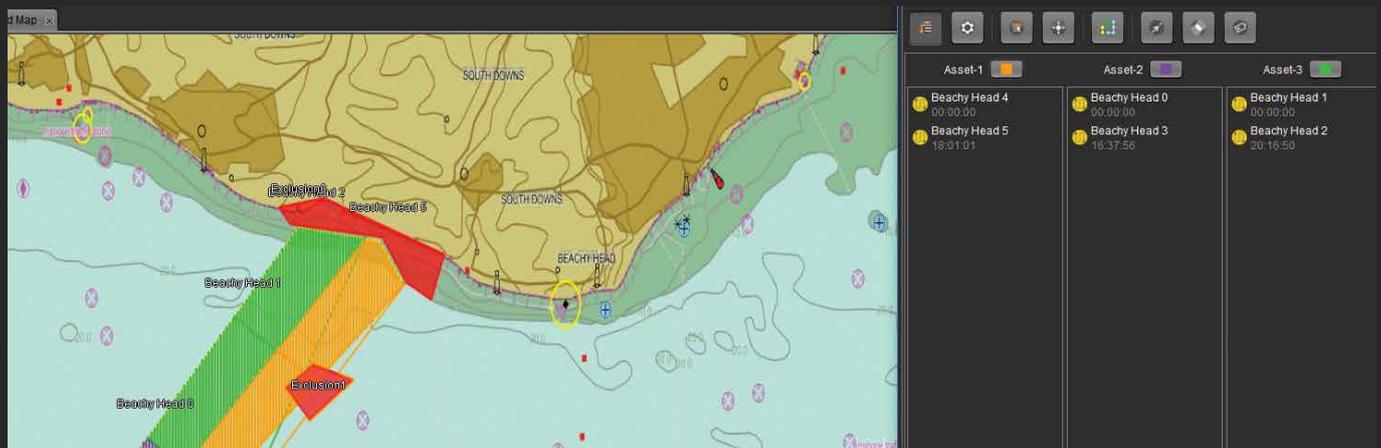
- Add or Import complex Operational Areas into SeeTrack
- Automatically divide into smaller areas
- Q-routes can be divided based on priority corridor, width, maximum length, or number of assets
- Polygon areas can be divided based on area, dimension, or number of assets

## Minimum System Requirements:

- OS: Windows 7/10 (Pro 64-bit)
- Processor: Intel Core i5 (preferably Core i7)
- RAM: 4GB
- Graphics: 1GB RAM capable of Open GL2.0
- HDD: 10GB of free HDD space (preferably SSD)

## Further Details:

- ABT requires SeeTrack v4
- Neptune is optional



Neptune software for multi-vehicle planning

## Contact

For more information on the Area Breakdown Tool and SeeByte's other software solutions please get in touch with our sales team on +44 (0) 131 447 4200 or email us at [sales@seebyte.com](mailto:sales@seebyte.com)