TRANSIT ANALYST

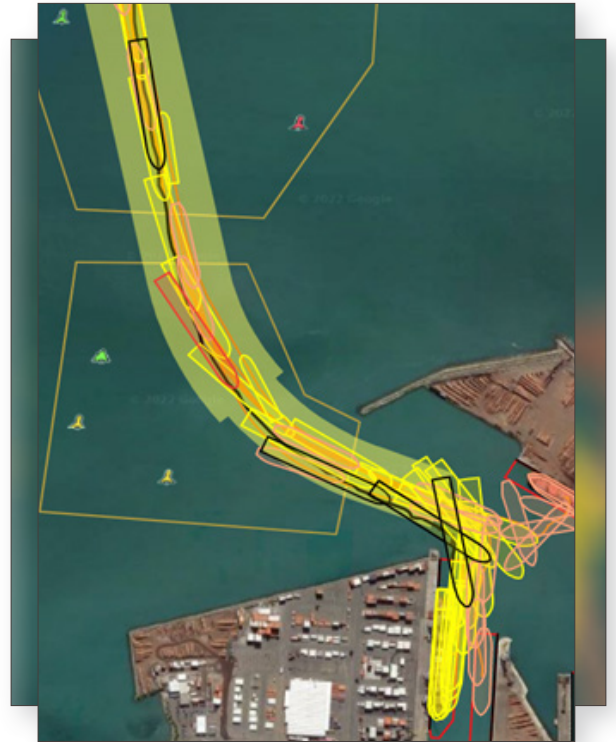**Pilotage big data made easy**

PROACTIVE SAFETY MANAGEMENT

Know what's happening on the water

In the modern pilotage environment, Executives are expected to take a proactive approach to safety management. This requires capturing and acting upon events, outliers, incidents, and trends in a timely fashion. TransitAnalyst transforms data you already possess into actionable intelligence and full visibility of your pilotage operations.

CONSISTENT DELIVERY OF SERVICE

Plan. Act. Review.

Improving the quality of pilotage service delivery requires constant monitoring and tuning against benchmarks and standards. TransitAnalyst is an ideal custodian for manoeuvring objectives because it automatically reveals "leading indicators" when key metrics have not been met or are in need of adjustment.

PORT EXPANSION

Fast outcomes based on factual evidence

Need to expand your port to accommodate larger vessels? Wanting to fine tune your dredging operations? Are your weather operating limits in need of review in order to more closely match reality?

TransitAnalyst is ideal for conducting studies of what has happened in your port, evaluating the operational and safety issues surrounding that history, and then predicting "what is possible" in the future. Analysing real data can complement and lower the costs of simulation time, and accurately inform studies.

MANAGING EXPECTATIONS

Raw AIS data is widely available, so what does that mean for you?

Regulators, customers, competitors, journalists - they all have access to low fidelity AIS positional data that allows crude visibility and reconstruction of what has happened within your port.

TransitAnalyst stores much higher fidelity AIS/PPU and MetOcean data that has been specifically configured to your operational context and analysed into meaningful transit data. This puts you "on the front foot" when liaising with outside agencies and stakeholders to discuss business proposals, procedures, or incidents.

TransitAnalyst is all about using pilotage big data to your advantage.

TransitAnalyst is used by ports, pilot services, shipping companies, and regulators. It can be configured to your needs and start gathering "intelligence" within weeks. Here's a quick list of TransitAnalyst v1.0 features.

QUICK REVIEWS
OF RECENT TRANSITS

TransitAnalyst provides simple yet powerful analytical tools that allow users to inspect, visualise, and report transit results against performance and safety standards. Log in to the TransitAnalyst web application and instantly see what happened earlier today, yesterday, this week, this month. Transit records are automatically created, within minutes of transit completion. By scanning TransitAnalyst regularly, users can quickly spot outliers and trends on the chart and take action. Insights obtained through quantitative analysis, support improvements in training and assessment, professional development, and post-incident analysis.

FIND TRANSITS THAT
MEET SPECIFIC CRITERIA

TransitAnalyst transits are processed into your database and tagged with identifying criteria. Users can conduct searches to find transits that meet complex parameters: date range, vessel particulars, route/direction, manoeuvring data (corridors, speeds, ROT, drift), metocean conditions (wind/wave/current/tide). Tag interesting transits for discussion within your team, and save/share your frequent searches.

STABILISED
TRANSIT CRITERIA

Establish XTD limits, speed zones, rates-of-turn, and other manoeuvring "intervals of values" that can be checked by TransitAnalyst algorithms for outliers and trends. Benchmark your pilotage performance against these stabilised transit criteria, take corrective action, and report results to stakeholders.

HIGH FIDELITY
AIS DATA

TransitAnalyst converts your AIS data streams (plus PPU recordings) into meaningful transit records via algorithms that check for accuracy, fix errors, and smooth the data to 10 second intervals. Our algorithms also compute accurate vessel shapes, centroid locations, and heading orientations.

MAKE
OPERATIONAL DECISIONS

Use TransitAnalyst to datamine the "experience history" of your pilots and reveal the risks and safety profiles of transits previously conducted in adverse weather. This helps your team make defensible go/no-go decisions that have been made on the basis of factual evidence.

VIEW TRANSIT DATA
IN MULTIPLE FORMATS

See your transit search results on several chart views - plain, satellite, or ENC. Toggle on/off vessel tracks, outlines, and swept paths. Inspect outlier transits, or replay individual transits via a timeline that includes nearby AIS traffic, including tugs and pilot boats.

PASSAGE PLANS,
CORRIDORS, AND SWEPT PATHS

Upload your standard passage plans into TransitAnalyst so that transits can be compared to the plans. Include corridors, reserve and no-go areas and let TransitAnalyst detect when swept paths go into these areas. Use the data to design new passage plans and improve existing passage plans.

PILOTAGE OPERATIONS
QUALITY ASSURANCE

TransitAnalyst is ideal for powering a proactive safety management system that regularly reviews operational data to detect outliers, identify trends, and uncover metrics. Our customers can deploy a POQA system in-house (using tools provided by OMC), or an experienced OMC Marine Analyst can run a POQA system on your behalf, attending your safety meetings to report outcomes and issues.

TAKE THE NEXT STEP

Contact OMC today to arrange a demonstration of the TransitAnalyst system, see how it can make a positive difference in your business, and discuss the methodologies that guarantee a successful implementation of this ground-breaking software.