BESPOKE POWER BI FOR MARITIME – DATA VISUALIZATION AND ANALYTICS FOR IMPROVED DECISION MAKING.

SDSD's data visualization and analytics service integrates Microsoft Power BI into multiple sources of data, including in-house software and excel; helping clients to create dynamic dashboards and share visually impactful reporting of operational data.

Users connect via a browser or mobile device and work from the same trusted dashboards and reports, that update and refresh automatically, ensuring that the data content is always up to date. Proactive alerts when data changes as well as scheduled reports by email, ensure that you monitor, review and interact with the latest content, to make business decisions based on fact.

Maritime Data Visualization and Analytics with Power BI

Our team can build custom Power BI dashboards and reports connecting with your inhouse systems, excel spreadsheets and a wide variety of unrelated data sources. We work with your management team to get you to the data you need.

It's easy to learn, enabling you to modify it at any time to keep up with rapidly changing business requirements.

The data is visualised in a clearly structured way and users can create visually immersive reports, KPIs, detailed statistics and impactful graphs within minutes.

Users can filter, slice and export without impacting the underlying dataset or the original shared content (dashboards, reports, and apps), so it offers a great environment for users to explore data.

Examples of dashboards and reports powered by SDSD and Power BI:

The following are examples of common fleet management and operational dashboard requests, however as Power BI connects with multiple sources we can build reporting for all of departments –

1 **Procurement:** Requisition and POs by status, vessel, inactivity, vendor, expense by budget code/vessel

2 **Maintenance:** jobs due/overdue by vessel, rank-wise jobs, critical status

3 **Breakdown:** component groups, breakdown jobs

4 **Technical Downtime:** by vessel, type, occurrence date, time and duration

5 **Accident/Incident:** vessel-wise by category, severity, vessel activity, location-wise incidents

6 **Near Miss:** within date range, category, location, time, vessel activity, categories of causes

7 **Internal & External Audits:** annual/vessel audits, NCs, observations, major NCs, ISM audits

8 **Flag or Port State Control:** deficiencies and inspections, by vessel, MOU and status

9 **Fuel consumption:** average speed v. average ME consumption , summary sea consumption/port consumption (mt), fuel type, loading condition, weather

10 **Emissions Summary:** CO2 emission by voyage number (mt), SO2 emission by voyage number (kg)

11 **Main engine performance:** average cylinder oil and system oil consumption details

12 **Auxiliary Engine:** fuel consumption v load, running hours, usage

13 **Vessel Activity:** sailing days, port stays, manoeuvring, anchorage, loading condition, weather

14 **Voyage Analysis:** voyage summary, over/under consumption, over/under speed, charter party speed and consumption analysis

SDSD's data visualization and analytics service ensures your business makes more informed data-driven decisions to improve operations and processes.