

Abstract

As wind farm owners face an increasingly competitive future, both globally and specifically across Europe, there is significant pressure to decrease the levelised cost of energy (LCOE) of operational wind energy projects.

By making better use of the information and data that are available to them, wind farm owners have the opportunity to decrease operational costs, improve production and increase reliability by implementing a total asset management (TAM) system.

This poster will demonstrate an approach that allows owners to release this value.

Your Information.....sorted

Wind farm owners and operators are faced with a growing and increasingly complex matrix of information and data, as illustrated below:

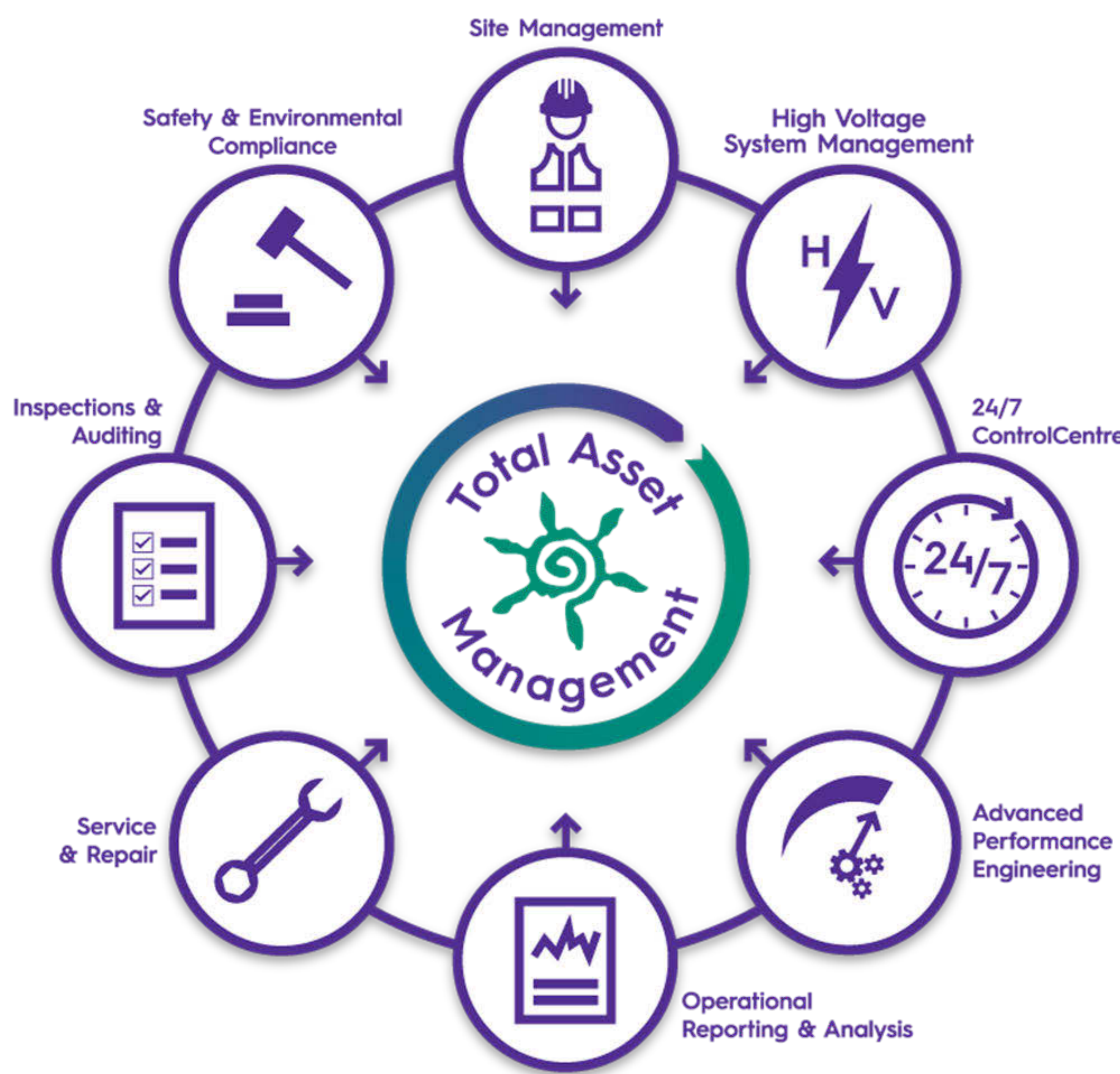


Figure 1: Key communications channels and sources of data/information within an integrated TAM system

The integration of this information and data holds the key to being in full control of the asset and therefore maximising the assets' value.

What is Portal?

Portal is a secure, online and real-time software platform that allows data and information from disparate sources to be stored, organised and displayed in a simple to use interface.

Portal has been designed to capture and present all relevant data within a total asset management system, including both technical data and non-technical information for the benefit of all users.

Portal is designed to facilitate a total asset management approach and address the data and information challenges faced by:

- Asset Owners and Investors
- Wind Farm Operations Managers
- Wind Farm Performance Analysts
- Wind Farm Controllers and Technicians

Core Applications of Portal

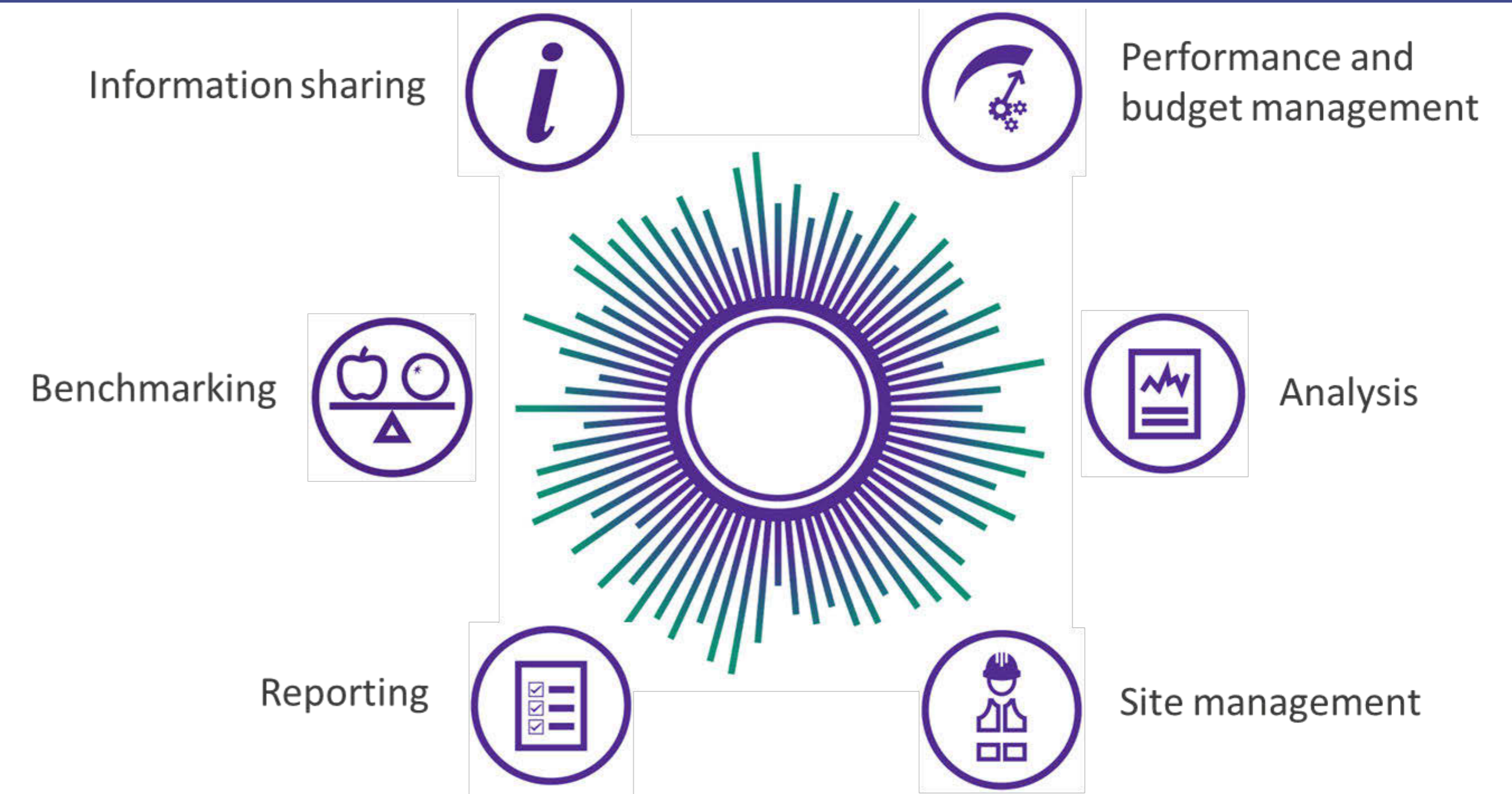


Figure 2: Core Applications

The Portal Interface

The Portal interface allows users to:

- Navigate to portfolio, site or turbine levels via map view and icons
- Display and manage portfolio and project specific KPIs
- Access instant performance and activity dashboards
- Interrogate performance data
- View site control data in real-time
- Store and access historical project information, GIS and report libraries
- View dynamic finance and LCOE models

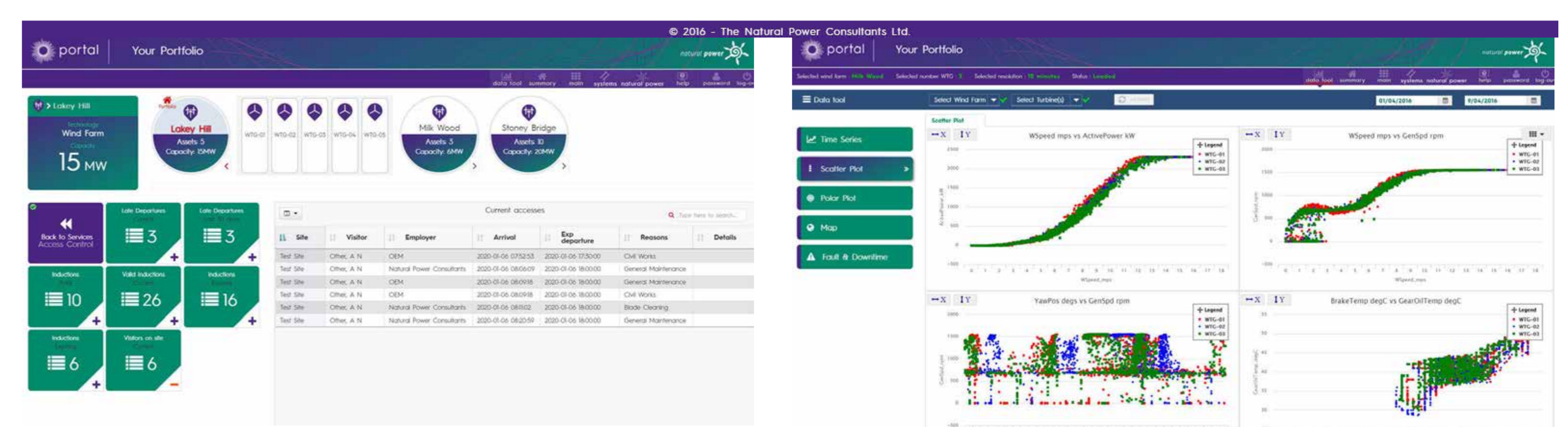
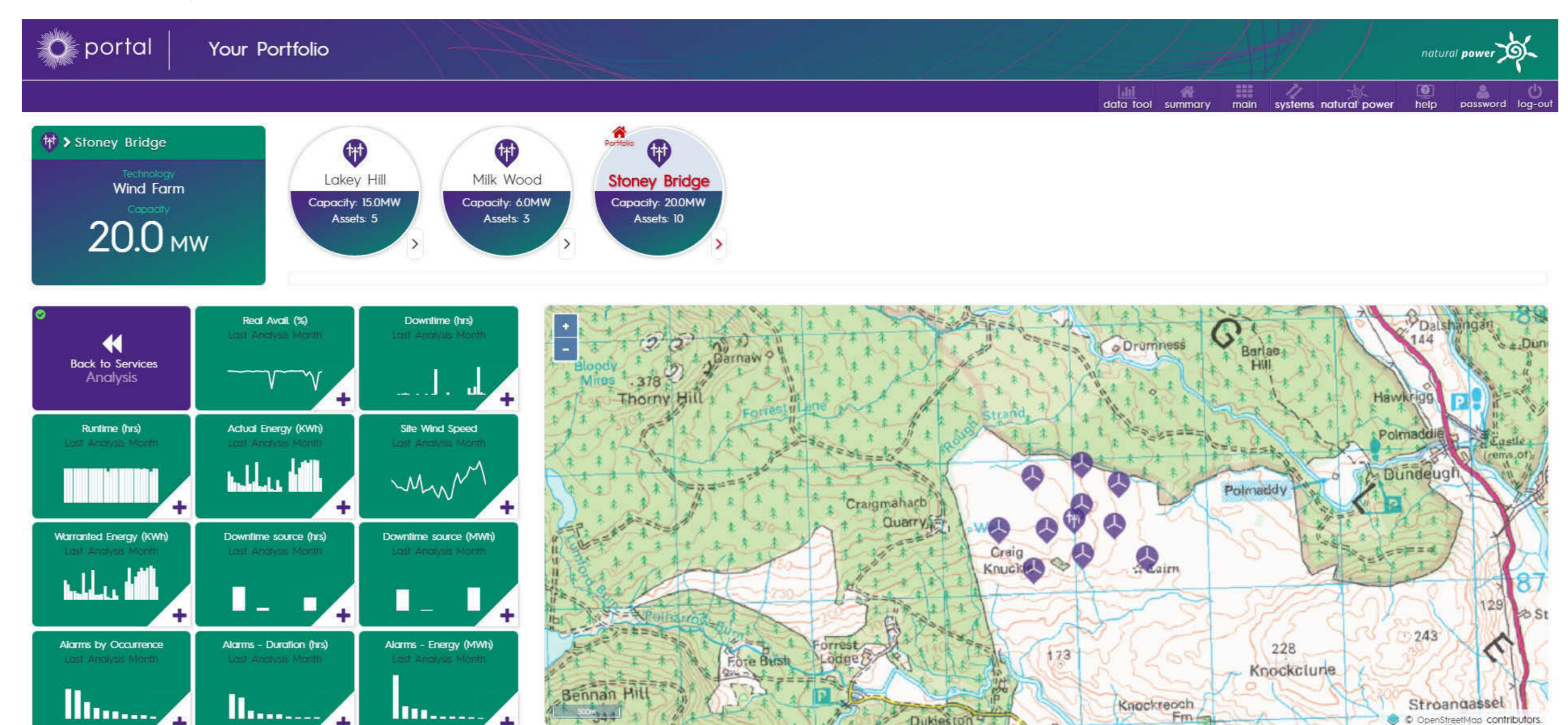


Figure 3: Portal Interface Screenshots

Key Benefits

Portal has been designed to add value to your portfolio or project by:

- Providing a single repository for key information
- Giving you the opportunity to act on better information
- Providing a greater level of control over your project
- Allowing you to focus on higher-value issues
- Unleashing innovation and collaboration

For more information and a trial account please contact
www.naturalpower.com/portal

