

Digitalization in Wind Power

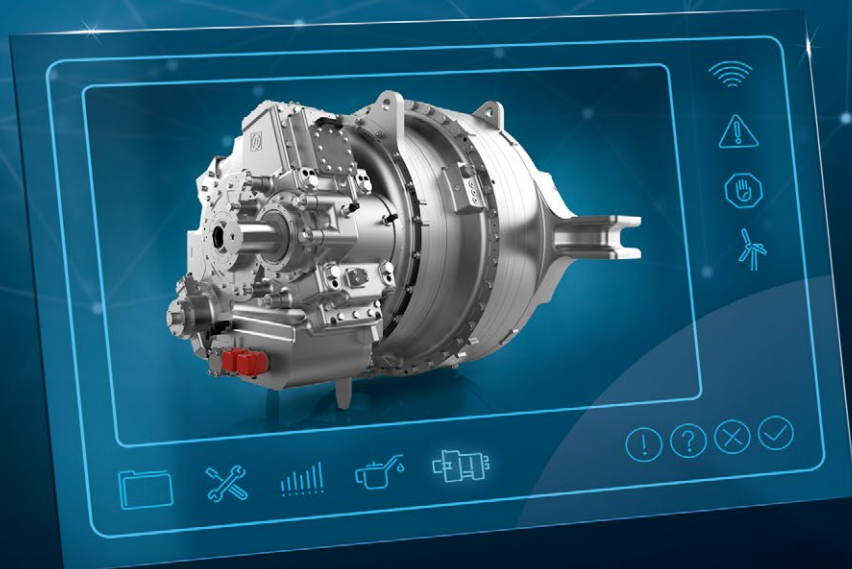
DATA ANALYTICS

LIFE CYCLE ANALYTICS

GEARBOX EXPERTISE

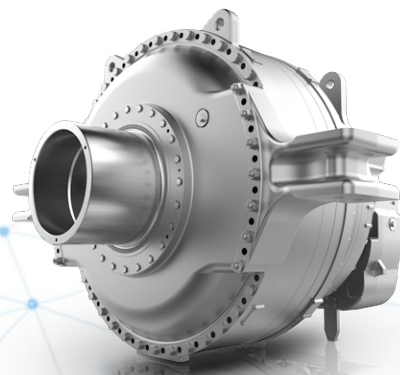
DATA PLATFORMS

DIGITAL BIRTH CERTIFICATE

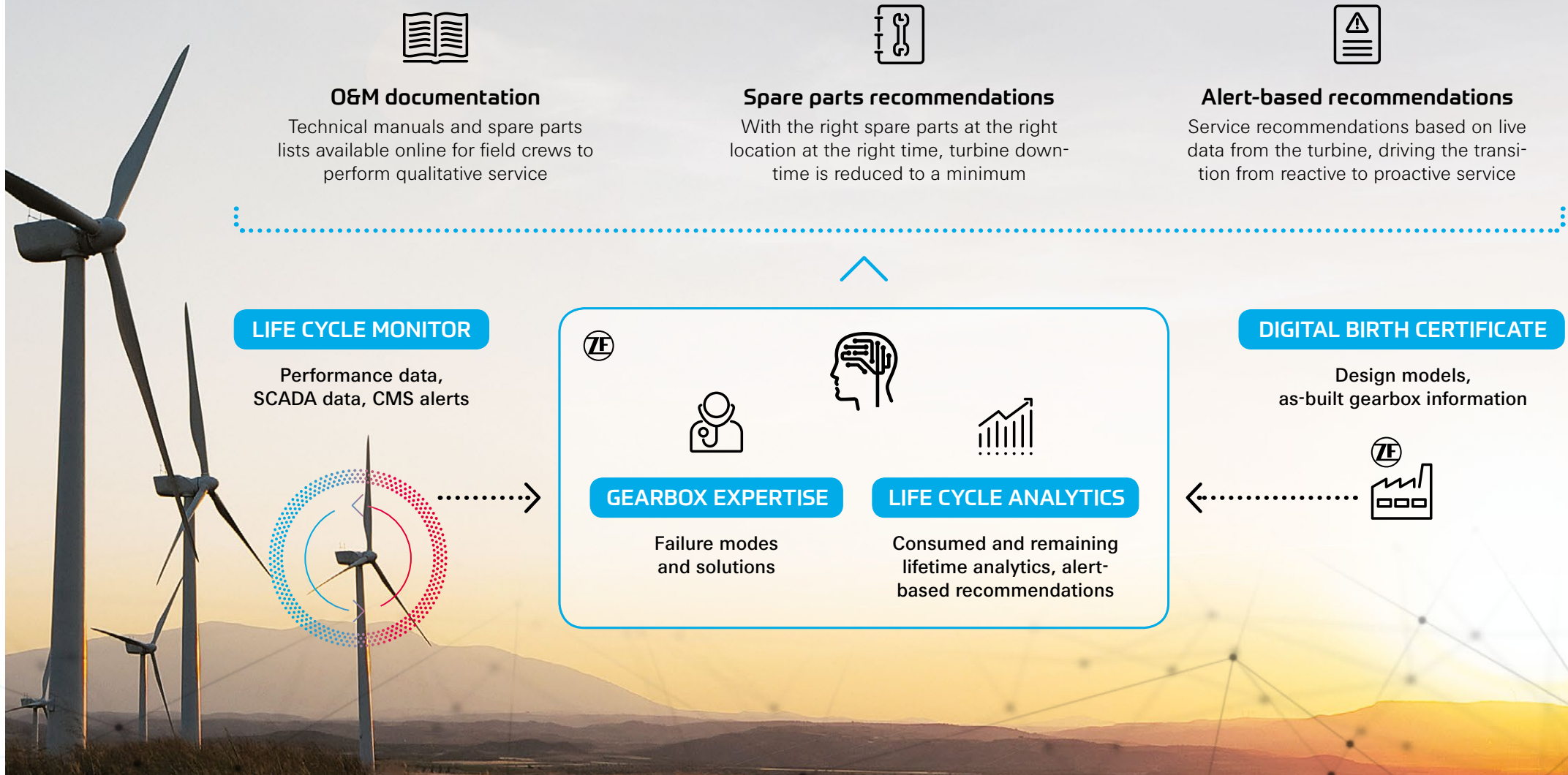


Intelligent connection solutions

Continuously innovating, ZF's pioneering "Services powered by Analytics" will help reduce the levelized cost of energy. Digital solutions integrated with ZF's high performance mechanical systems will bring new opportunities to optimize the energy yield and decrease the operational cost of wind farms.



ZF's Services powered by Analytics



More power output and reduced operational costs

ZF's "Services powered by Analytics" offering is a key driver for the Optimization of Operations and Maintenance of wind turbines. State-of-the-art analytics combine data from gearbox manufacturing and life cycle monitoring with advanced reliability models and gearbox expertise to enable spare parts optimization and a fast return to operation, increasing availability and output of turbines. Using data from the existing SCADA system, no additional hardware is needed to start experiencing the benefits of ZF's digital services.



Benefits

Avoid downtime due to unexpected breakdowns

Reduce downtime by better management of predictive maintenance and spare part availability.

Get more energy out of every turbine Increase the output of turbines operating at nominal value, without reducing the lifetime.

Spread the investment over time

Extend the lifetime of the gearbox using remaining lifetime estimates.

ZF Wind Power

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