

# Welcome to Sulzer Schmid

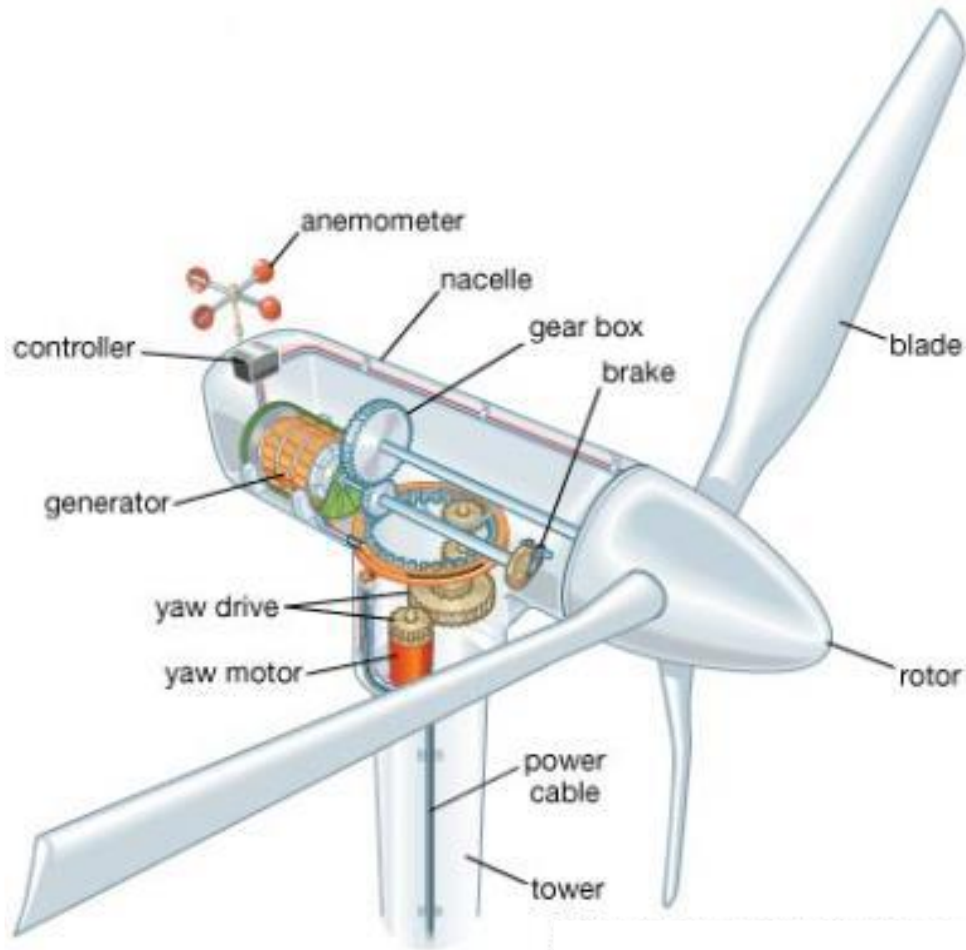
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29. Windenergietage  
11. November 2021



# Digital asset monitoring has come a long way

But still not all components are easy to monitor digitally



**Can be monitored via SCADA**

- Gearbox
- Generator
- Power train
- Yaw

**Cannot be monitored via SCADA**

- Rotor blades
- Tower
- Transition piece (OF)

**Rotor blades turn wind into kinetic energy and**

- are the most critical components of a wind turbine
- make up 20% to 30% of the monetary value of a WTG
- cannot be monitored with sensors
- need to be inspected in order to assess their condition

# Value Creation



Global partner network for data capture in 35+ countries



> 20'000 turbines inspected



< 45 minutes per turbine



All turbine brands



> 25 parallel teams



Up to 18 inspections per pilot/day



# The hardware is key but not all there is to it

Consistent results require robust protocols and procedures



**Blade**  
Platform

- **Setup based on DJI off-the-shelf drone**  
most robust and established drone system in the industry
- **Global spare parts and maintenance service** allows direct support world-wide
- **Proprietary payload**
  - Gimbal
  - Flight controller
  - Camera
  - LIDAR system
  - Battery and customized charging case
  - Tested and proven in thousands of inspections



# 3DX™ Blade Data Processing and Analytics

Reliable

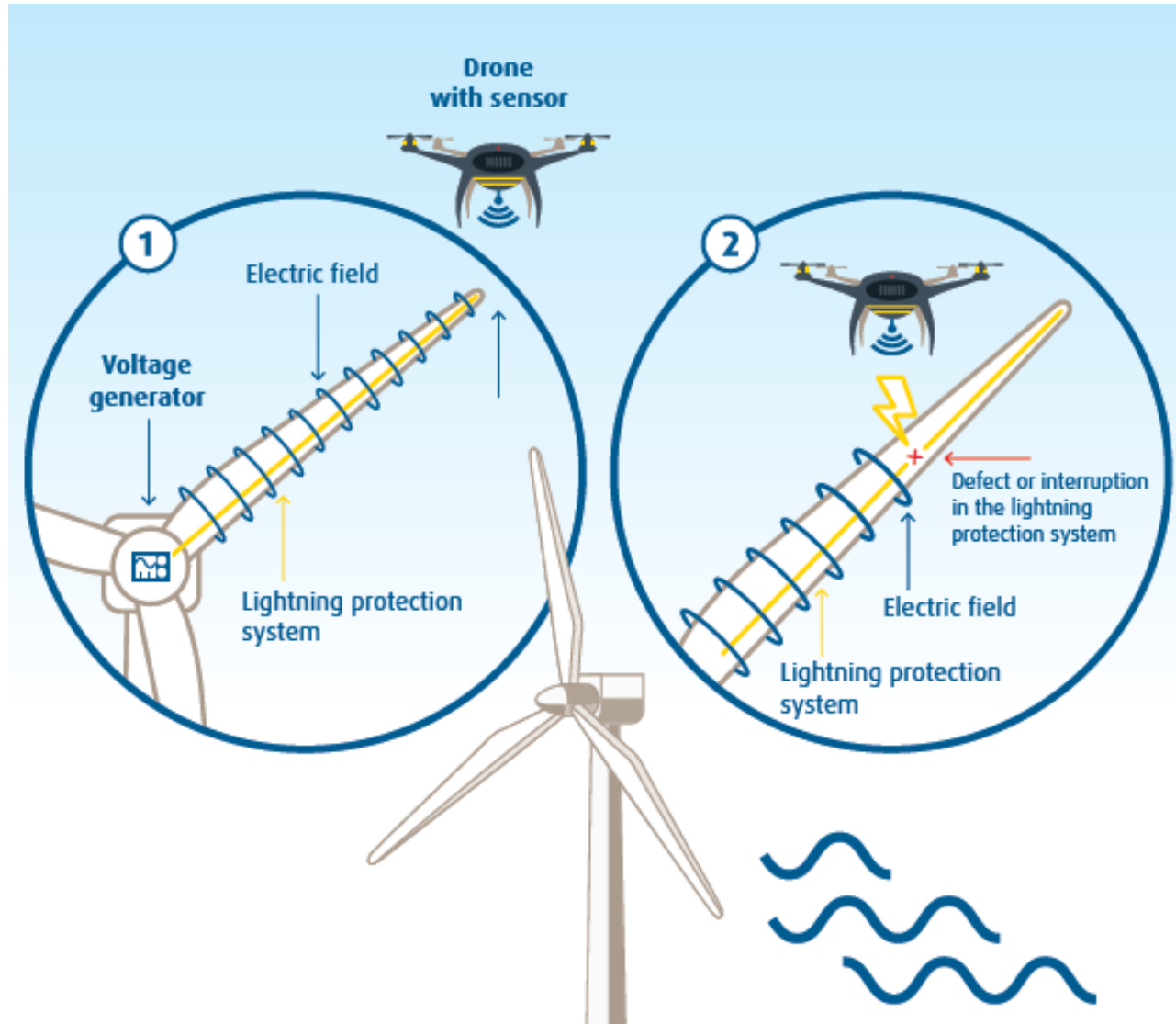
Efficient

Collaborative



# Our latest addition to our inspection spectrum

Lightening protection system



## Contact us

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