



Innovations and developments of ice and  
damage detection for rotor blades



# Wölfel Condition Monitoring – Structural Health Monitoring



System robustness based on more than 500 systems running in the field

Many years of experience

Prompt reaction

Maximum sensitivity



Reliable

500 systems  
in field operation

Exact results

**IDD**  
Blade

Maximum precision

# Additional blade monitoring features



precise damage detection



pitch angle monitoring



rotor blade imbalance

# Lightning protection

Lightning protection level I  
**LPL I**

**No** lightning puncture  
at 500 systems in field  
operation

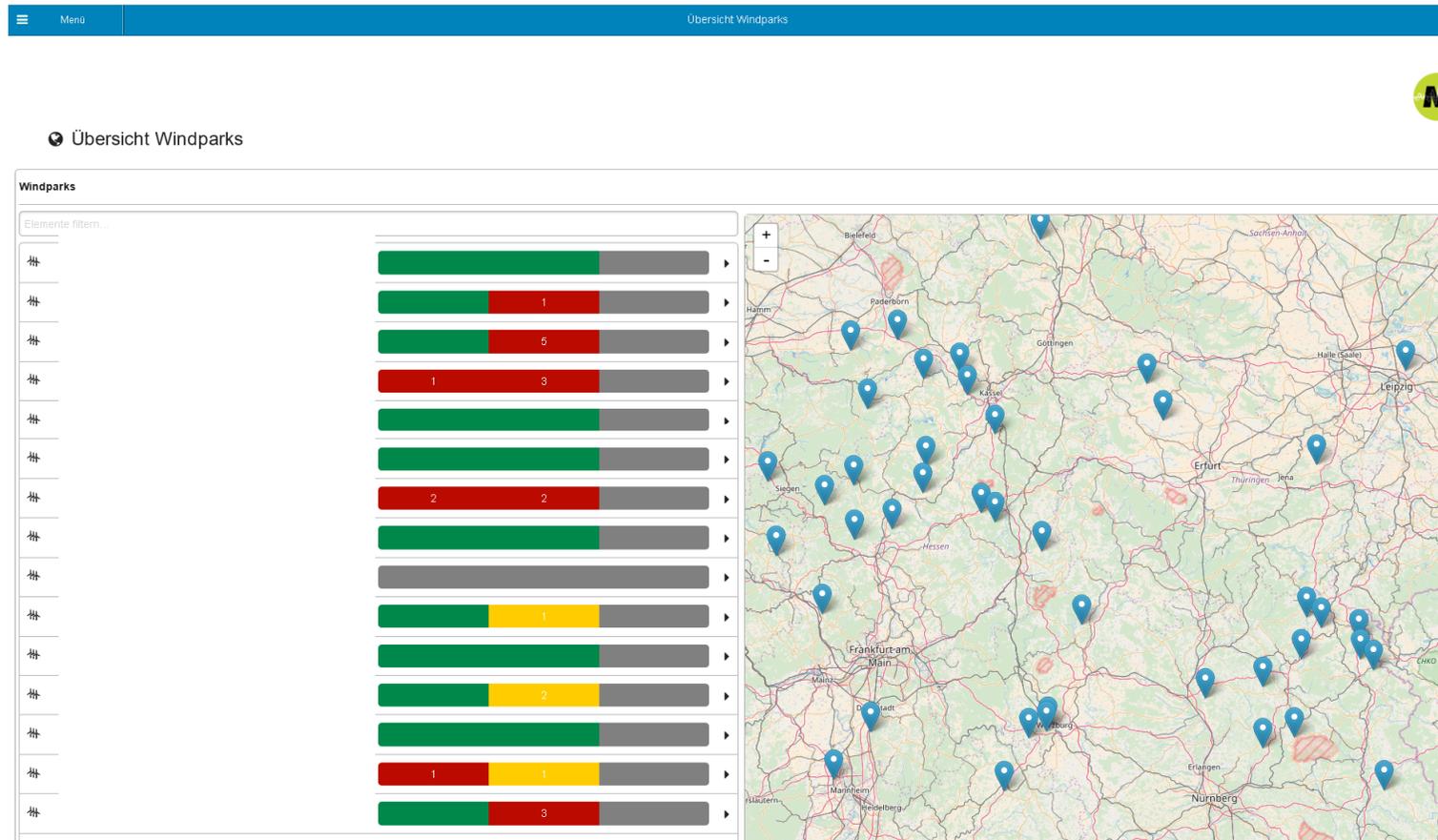
The logo for "IDD Blade". It features a light blue circle containing a white waveform. To the right of the circle, the letters "IDD" are written in a large, bold, black font. Below "IDD", the word "Blade" is written in a large, light grey font.

**IDD**  
Blade

**Future proof:**  
IDD.Blade available with  
the latest technologies!

# Industry 4.0: Connected systems lead to efficiency

## – Monitoring Intelligence Center MIC.Wind



# Thank you very much for your Attention!

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