AuresSound™ Acoustic Maintenance for Wind Farms

You Can Hear What You Cannot See

AuresSound

AuresSound is combination of high-precision audio hardware, embedded software, network technology.

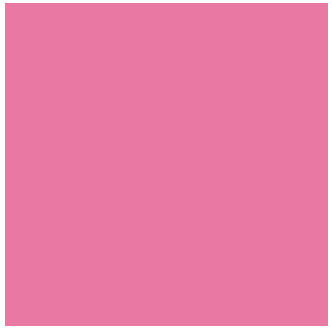
AuresSound listens the production environment, analyses the acoustic landscape and triggers alarms.

AuresSound is the most accurate method to analyse wind turbine blades and can withstand even the harshest Nordic conditions.

AURES SOUND™

Acoustic Condition Monitoring

20.0 Hz	25.0 Hz	31.5 Hz	40.0 Hz
32	29	28	28
27	26	29	31
22	20	21	22
18	17	20	22
24	27	29	26
24	22	27	26
26	23	24	25
24	22	29	24



Acoustic Condition Monitoring is based on analysing sound emitted from wind turbine and online analysing the sound signal.

Different abnormalities emit different sound patterns which can be detected

Monitoring is ongoing 24/7 giving information on icing and abnormalties in all times of the day and in all conditions.

AURES SOUND™

What do you detect?

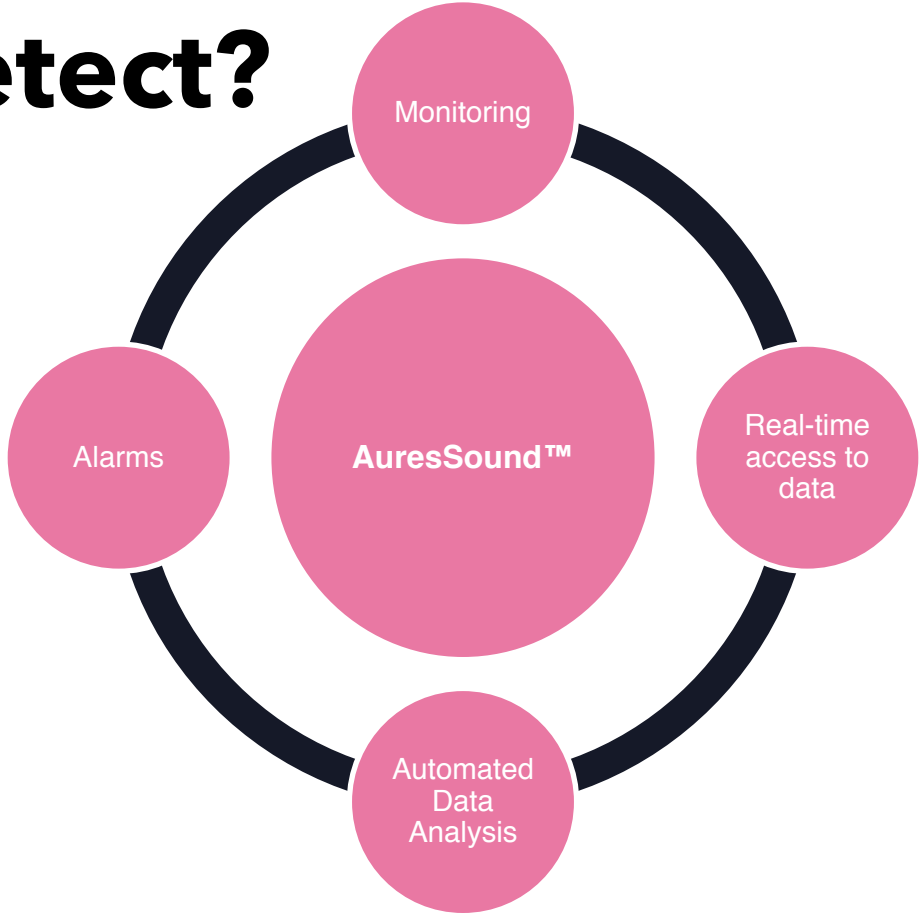
Ice build-up

Pin Holes

Cracks

Trend Analysis

Nacelle Emissions



AURES SOUND™

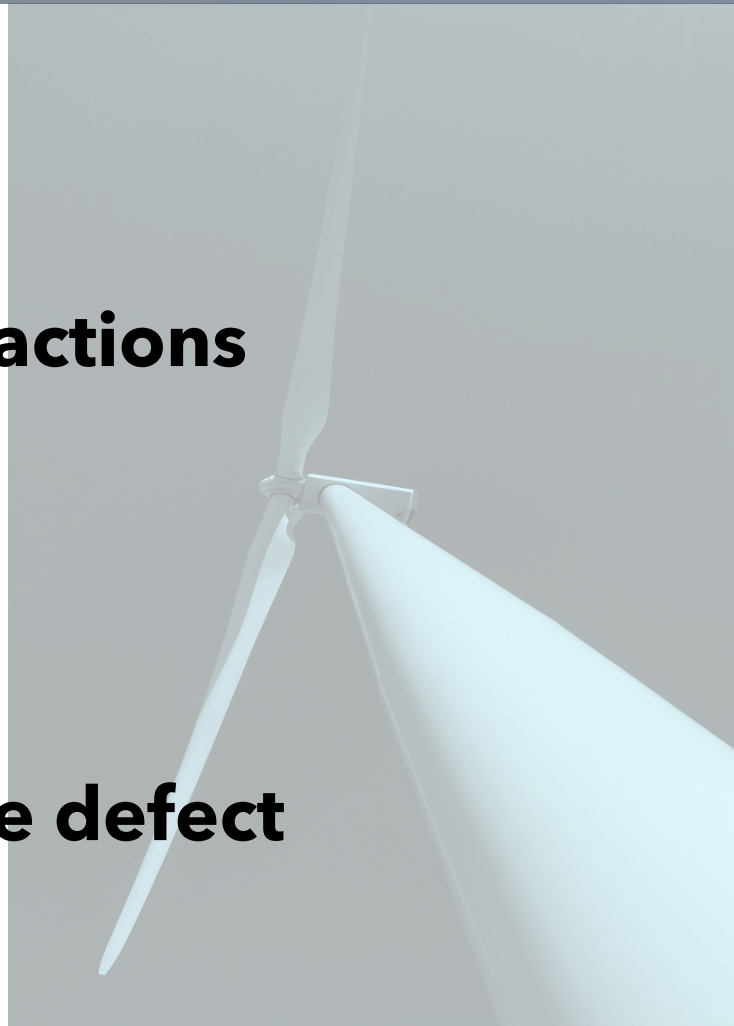
Benefits

Better targeted maintenance actions

Minimise downtime

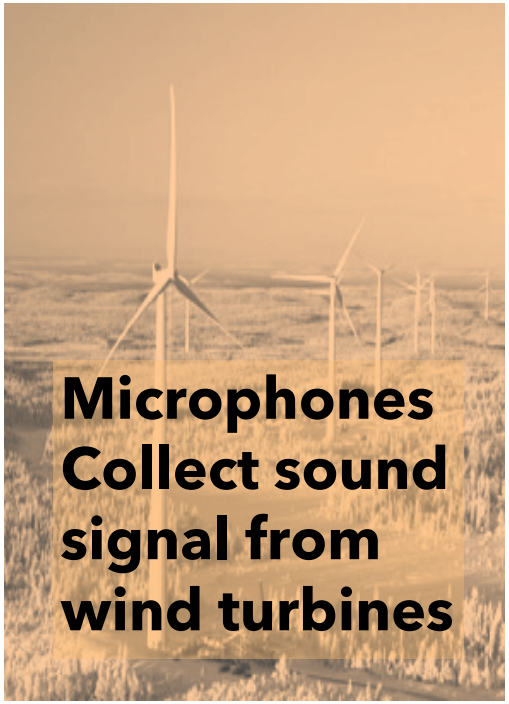
Less climbing and sky lift use.

Identification / timing of blade defect



AURES SOUND™

Service concept



AURES SOUND™
Data Center

Online
Data Fusion
and analysis

More information

Timo Mämmelä

timo.mammela@apl.fi

+358-40-706 7292

AuresSound

AURES SOUND™
We Hear What You Cannot See