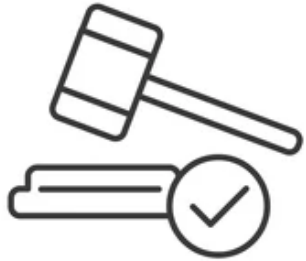


Problems/Challenges



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EFFECTIVE SOUND IMAGING



**Increasingly stringent
legal noise emission
requirements**



**High complexity and cost for
conventional measurement
systems**

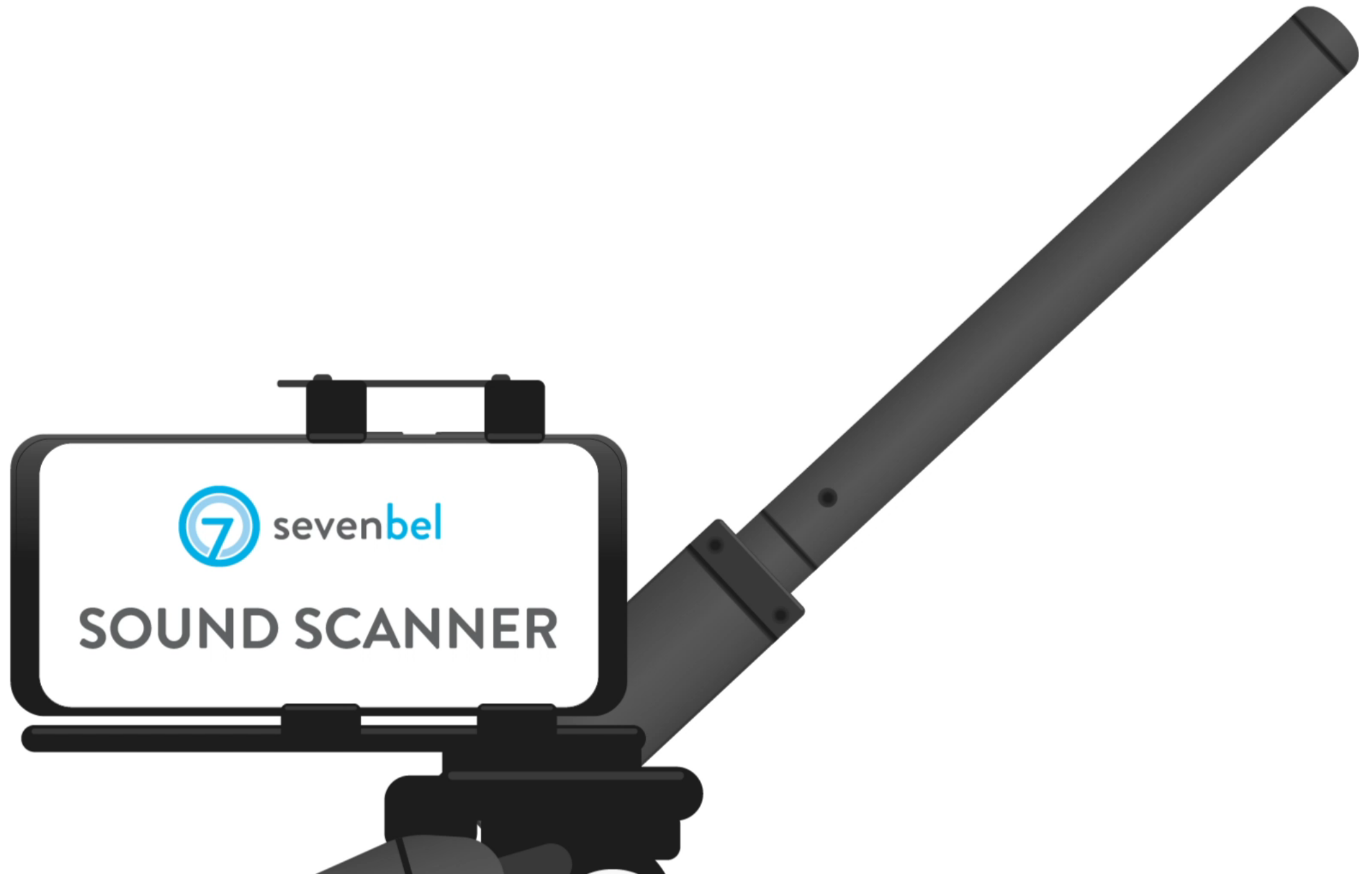


**Increasing importance
of acoustic properties
(e.g. new technologies)**



**Late identification of noise
issues
during product development
and maintenance**





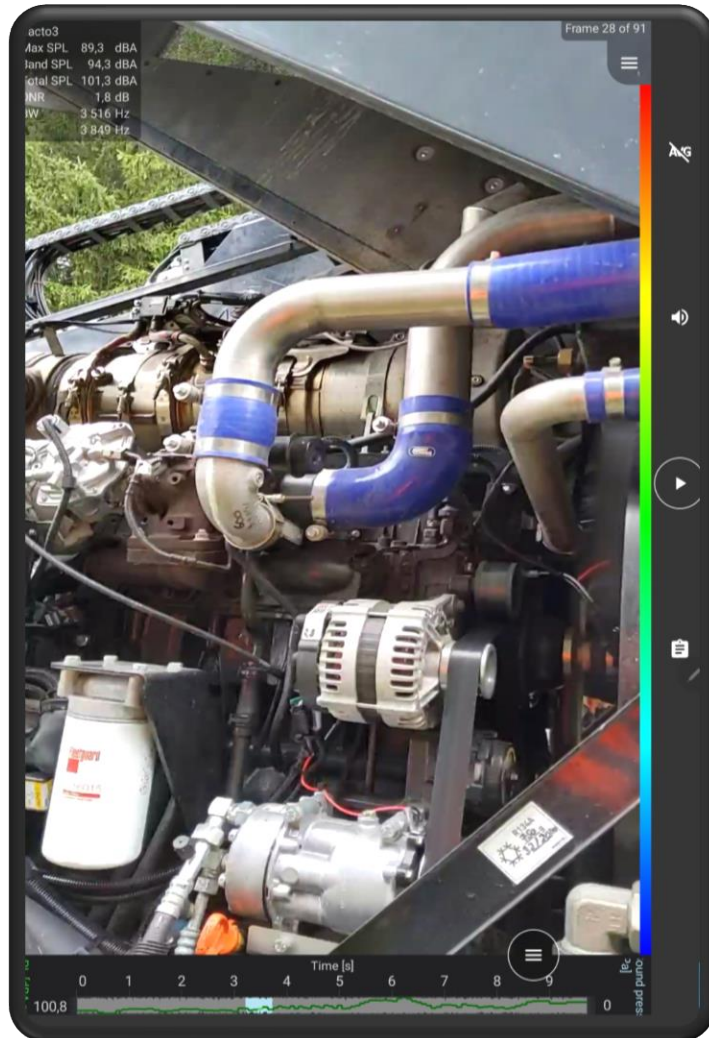
Use case: Example I



TASK

Identify acoustic leakages / weak spots, subject to optimization
Eg.: adaptation of sealing material and/or properties

Use case: Example II



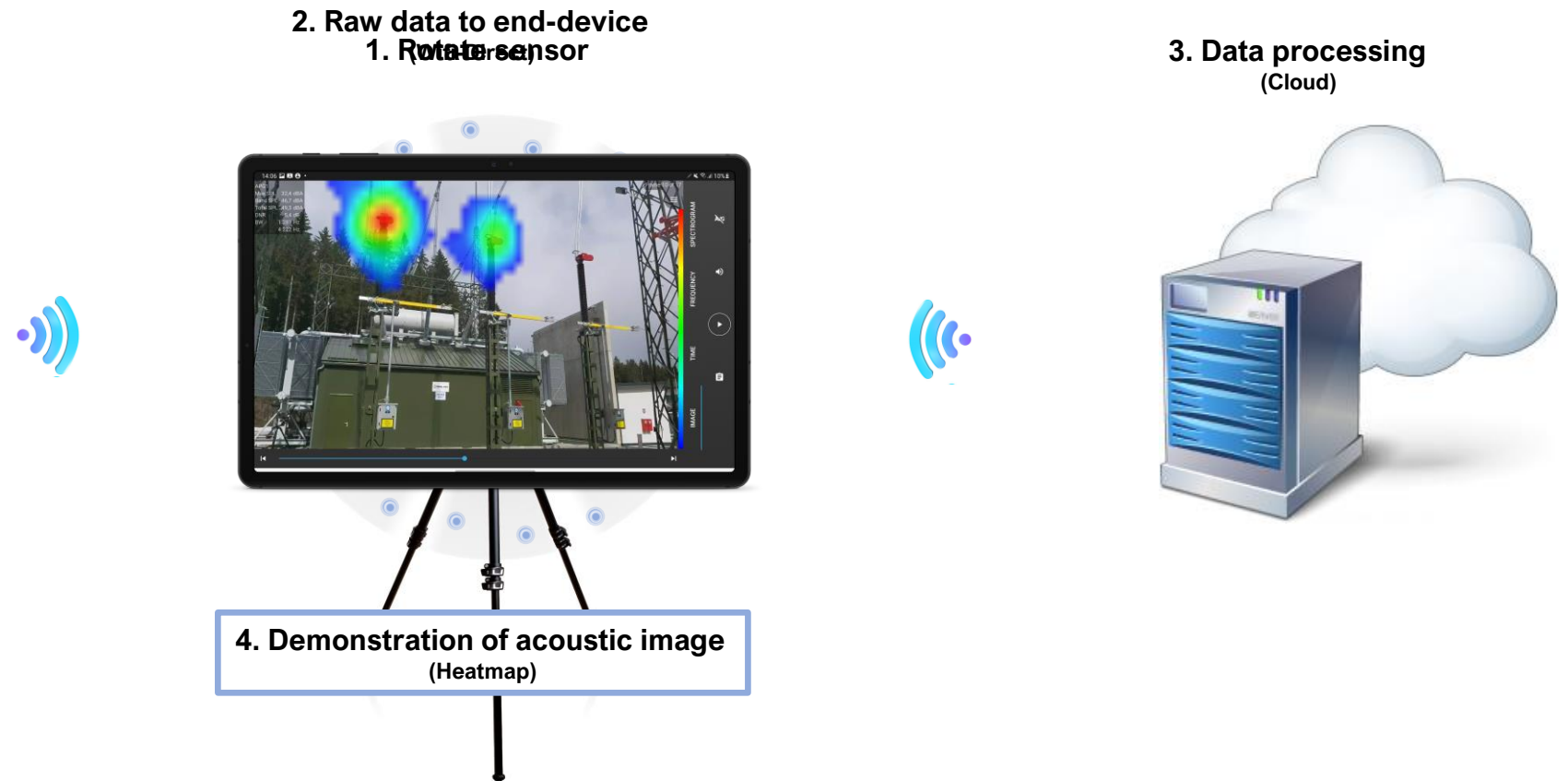
TASK

Identify defective component, subject to maintenance

RESULT

Eg.: revision / change of defective component

Mode of operation (picture- /video recording)



Intuitive analysis due to App-surface



SPECTROGRAM

X-axis: timeline (sec)
Y-axis: recorded frequencies (Hz)
Colour-Code: sound pressure level (dBA)
red: high
blue: low

FREQUENCY BAND

X-axis: recorded frequencies (Hz)
Y-axis: sound pressure level (dBA)

TIMELINE

X-axis: timeline (sec)
Y-axis (1): sound pressure level (dBA)
Y-axis (2): sound pressure (Pa)



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