

# Squarehead Technology

Precision acoustic detection



“ I believe that remote superhearing could help to optimize maintenance work while reducing the need to transport maintenance personnel to the production site. It will also reduce maintenance personnel’s exposure to high-risk environments, which we value highly. ”

Kristian Reiten, Project Manager Altera Infrastructure Production

## About Squarehead Technology

Squarehead Technology develops and produces audio sensors that provide groundbreaking insights into the performance of machinery and can predict malfunctions and quality deviations through listening. Squarehead is aiming for a leading position in industry 4.0, with the potential to radically improve predictive maintenance and quality control through the detection of deviating sounds from production equipment.

[www.sqhead.com](http://www.sqhead.com)

### Key information

Founded: 2004  
CEO: Stig Nyvold  
HQ: Oslo, Norway  
Impact theme: Decent work & productivity  
Industry: Acoustic detection

### Impact potential

3/5 | Neutral

### SDG targets contribution



### Net impact score

+28 % | +47 %<sup>1</sup>

1. Applying Norselab custom value set mapped to SDGs

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## Sustainability challenges

### Safety in the workplace

Globally, safety continues to be a great concern for global industries. But, there are not many innovative solutions that can increase safety for workers, efficiency in production and extended lifetime of installations.

### Predictive maintenance

Many companies are piloting Industry 4.0 initiatives in manufacturing, but few have managed to integrate technologies at scale to realize significant benefits. Industry 4.0 refers to the smart and connected production systems designed to sense, predict, and interact with the physical world, so as to make decisions that support production in real-time.

## Theory of change

Drawing on state-of-the-art surveillance technology, Squarehead has extended its product offering to industrial-scale condition monitoring and quality control. Squarehead Technology has audio sensors that provide ground-breaking insights into the performance of machinery, and can predict malfunctions and quality deviations through listening. Squarehead is aiming for a leading position in industry 4.0, with the potential to radically improve predictive maintenance and quality control, while increasing safety for workers.



Target 8.8

4

Plants monitored