

Startup offering AI based predictive maintenance industry solutions seeks industry partners and machine manufacturers

Summary

Profile type

Technology offer

Company's country

Germany

POD reference

TODE20230607012

Profile status

PUBLISHED

Type of partnership

Commercial agreement with technical assistance

Targeted countries

- **United States**
- **Italy**
- **Poland**
- **South Korea**
- **United Kingdom**
- **Austria**
- **Spain**
- **Greece**
- **Portugal**
- **Slovenia**
- **Japan**
- **Slovakia**
- **France**
- **Lithuania**
- **Norway**
- **Vietnam**
- **Estonia**
- **Hungary**
- **Belgium**
- **Czechia**
- **Netherlands**
- **Denmark**
- **Latvia**

- Switzerland
- Sweden
- Finland
- Canada
- Singapore

Contact Person

[Rita Elste - Tomsone](#)

Term of validity

7 Jun 2023**6 Jun 2024**

Last update

7 Jun 2023

General Information

Short summary

A Northern German startup developed a data based predictive maintenance solution for machines that can prevent industry from significant downtimes caused by machine failure. Today, the company targets the automotive-, plastics- and packaging industry, as well as machine manufacturers. The industrial interface "Open Platform Communications Unified Architecture" (OPC UA) is required for implementation.

Full description

Machine or engine failure cause significant damage for industry: Loss of time and loss of a lot of money. Using advanced technologies for predictive maintenance, deteriorations in machinery and equipment can be detected at the onset and preventive measures may be taken before down time occurs.

A Northern German startup develops a unique algorithm on the base of probabilistic models that ensures an advantage to any other solution for predictive maintenance of nearly any kind of machine or engine. Based on sensor data, an algorithm combines statistics with neural networks to create a digital twin of the machine. The software detects anomalies at early stage and can predict machine failure up to one week in advance. It can identify the cause of malfunction and continuously supports with automatic condition monitoring. It creates a way more stable and less prone to errors prediction for machine failures, reducing down times of machinery by up to 20%.

The startup offers cooperation to machinery manufacturers from EU, US and Asia, that want to integrate the predictive maintenance solution into their machinery or as an add-on feature into their portfolio.

Machine manufacturers can benefit from cooperation by gaining a permanent overview of the vitality status of the machines and by offering their customers utmost advanced technology for predictive maintenance, increasing sustainability through optimization of production processes and extension of machinery lifetime thanks to prevention of major damages. Technical cooperation agreements are envisaged.

Advantages and innovations

- Sophisticated, data based solution that reduces maintenance costs and increases sustainability. The unique algorithm on the base of probabilistic models ensures an advantage to any other solution.
- Down times of machinery will be reduced by up to 20%.
- Maintenance costs are reduced by up to 17%.
- Clear operating instructions for engineers.
- Permanent overview of the vitality status of the machine.

Technical specification or expertise sought

Stage of development

Already on the market

IPR Status

Secret know-how

Sustainable Development goals

- **Goal 9: Industry, Innovation and Infrastructure**

Partner Sought

Expected role of the partner

Machinery manufacturers within European Union, US or Asia with an interest to integrate the predictive maintenance solution into their machinery or offer it as an add-on feature. The industrial interface "Open Platform Communications Unified Architecture" (OPC UA) is required for seamless implementation.

Type of partnership

Commercial agreement with technical assistance

Type and size of the partner

- **SME 11-49**
- **SME 50 - 249**
- **Big company**

Dissemination

Technology keywords

- **01004011 - Maintenance Management System**
- **01003003 - Artificial Intelligence (AI)**
- **02002009 - Machine Tools**

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- **Czechia**
- **Netherlands**
- **Denmark**
- **Latvia**
- **Switzerland**
- **Sweden**

Market keywords

- **02007016 - Artificial intelligence related software**
- **02007014 - Other industry specific software**
- **08003005 - Other industrial machinery for textile, paper & other industries**

Sector groups involved

- **Mobility - Transport - Automotive**
- **Electronics**
- **Aerospace and Defence**
- **Digital**

- Finland
- Canada
- Singapore