

PRESS RELEASE

VIBES.technology receives €300,000 growth capital from UNIIQ to eliminate vibrations from products

The Hague, 9 October 2017 - Innovative software company VIBES.technology has received a capital injection from UNIIQ (InnovationQuarter's proof-of-concept fund) and regional partners. The decision was announced on 6 October by Theun Baller, dean of the Faculty of Mechanical Engineering at TU Delft. This investment will enable the startup to help manufacturers of cars and other products detect and eliminate vibrations and noise at an early stage in the design process. "Not only does this improve user experience, it also extends a product's life cycle," says VIBES.technology's co-founder Daniël van den Bosch. Major industries, amongst which BMW Group, use the expertise of VIBES.technology and the tools are also put to work at the Institute for Applied Mechanics at the TU Munich.

When designing vehicles and other products, such as wind turbines and precision equipment, the need to reduce vibrations and noise are important considerations. The less a car vibrates and the quieter it runs, the greater the driving comfort and the longer the product life cycle. For this reason, engineers throughout the entire vehicle production chain continually work on eliminating vibrations and noise.

First-time-right engineering

To detect unwanted vibrations and noise in the current outdated methods, it is often necessary to build several product prototypes and perform a multitude of tests until the desired noise level is reached. In the automotive industry, vibration analysis is typically only possible in the final stage of product development. This leads to unnecessary and costly design cycles because engineers must return to the drawing board several times to avoid unwanted vibrations in a new prototype.

VIBES.technology software makes it possible to identify noise and vibrations early in the design process and, where necessary, prevent them before physical prototypes are built. The technology, which uses dynamic substructuring, separates a product into components. The effect of each specific component on the vibration and noise level of the entire car or wind turbine can therefore be mapped individually. This allows engineers to identify potential problems very precisely at an early stage and then adjust these at component level. With VIBES.technology, expensive scale models no longer need to be built to accurately predict vibrations. VIBES.technology software saves the manufacturer a lot of time and money.

Maarten van der Kooij, co-founder of VIBES.technology, says, "Thanks to UNIIQ's investment, we can further develop the technology and current product in partnership with our customers to create a software solution that helps them improve measurements and analyses. We expect the solution we are working on to provide a solid basis for a product that will enable industry-wide efficiency gains in design processes aimed at noise and vibration reduction. In addition to this capital injection from UNIIQ, Rabobank Zuid-Holland Midden will also support us with a contribution from their innovation fund."

UNIIQ Fund Manager Liduina Hammer adds, "VIBES's technology has the potential to secure an important position in design processes where vibrations and noise play a role. Given the knowledge of the team and the opportunities this technology presents, we are pleased to help these entrepreneurs develop and demonstrate their proof-of-concept."

About VIBES.technology

VIBES.technology improves the design process in terms of reducing noise and vibrations in high-tech engineering environments, especially in the automotive sector. Vibes was Founded in Delft in 2015. Nowadays the team consists of six experienced engineers driven by a passion for mechanical engineering and a mission to provide fellow professionals with the resources to make everyday products better, quieter and more sustainable. VIBES.technology is part of the YES!Delft technology incubator.

About Rabobank Innovation Fund

Rabobank encourages innovative initiatives through its Innovation Fund and helps sustainable businesses fulfil their goals. The Innovation Fund theme group determines which projects should receive an investment and comprises people from the member council as well as experienced entrepreneurs.

The fund focuses on sector and product innovations in Delft, Midden-Delfland, Pijnacker-Nootdorp and Lansingerland and aims to:

- Strengthen local entrepreneurship
- Encourage sustainability
- Increase employment
- Promote the knowledge economy

You can watch a short introduction to innovation in the Rabobank Zuid-Holland Midden region here:

<https://youtu.be/dZMmK7X7ZDY>

About UNIIQ

UNIIQ is a €22 million investment fund focused on the proof-of-concept phase, which helps entrepreneurs in the province of South Holland bring their unique innovation to market faster. UNIIQ offers entrepreneurs the seed money to achieve their plans and bridges the riskiest phase from concept to promising business. A consortium, including Erasmus MC, TU Delft, Leiden University and the regional development agency InnovationQuarter, created the fund. UNIIQ is made possible by the European Union, the Province of Zuid-Holland and the municipalities of Rotterdam, The Hague and Leiden. InnovationQuarter is responsible for the fund management.

Watch a short introduction to UNIIQ here: <https://youtu.be/lx9VZUsHlyU>

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