



Moticon receives grant for collaborative research with the University of Tübingen from the “central innovation program SME”.

Supported by:



Federal Ministry
for Economic Affairs
and Energy

on the basis of a decision
by the German Bundestag

Moticon, specialized in sensor products for motion and pressure distribution analysis in the sport and medicine area, cooperates with the University of Tübingen and received the funding from the “central innovation program SME (german: Zentrales Innovationsprogramm Mittelstand - ZIM) of the Federal Ministry for Economic Affairs and Energy on the basis of a decision by the German Bundestag.

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The project goal is to develop and evaluate an analysis and feedback system in order to improve the movement and bone healing after injuries of the lower extremities.

The system is to analyze movement patterns (sensor insole pressure distribution, rolling behavior, axial leg strain) and may give the patient a real-time assistance in the form of an optical, haptic or acoustic feedback to implement pre-defined objectives. Simultaneously, the data gets saved for the possibility of an analysis by the doctor or physiotherapist.

10-20% of fracture patients suffer from complications after surgery. Either for biological reasons, such as inflammation of fractures or tissues or biomechanical reasons such as breaking or misalignment of plates, screws or nails. Based on individual measurements, parameters and reference statistics, the feedback system will allow to reduce the number of complications and therefore supports to lower the medical expenditures per patient.

The study is coordinated by Maximilian Müller, CEO of Moticon and the University of Tübingen under direction of Prof. Dr. med. Ulrich Stöckle.

The total funding of the project amounts to 265.000 EUR and the timeline of the project is set to three years – 2015 until 2017.