An Estonian company offering solutions how to measure bone loading. The Company is looking for cooperation partners to facilitate adoptions of the technology

Summary

Profile type	Company's country	POD reference
Technology offer	**Estonia**	**TOEE20240614013**

Profile status	Type of partnership	Targeted countries
PUBLISHED	**Research and development cooperation agreement**	**• World**
	Commercial agreement with technical assistance	

Contact Person	Term of validity	Last update
Johannes BÖHMER	**14 Jun 2024**	**25 Jun 2024**
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General Information

Short summary

Estonian SME that develops applications on the borderline of Spacetech and Healt tech. The technology helps to measure dynamic weight bearing by using specialised software and hardware combination, enabling patient post-op recovery tracking and rehabilitation programme performance.

The company is looking for early adopters that will advocate to facilitation of the product

Full description

Degenerative bone disorders affect people from all walks of life, including the general population, athletes and even Astronauts. 1 in 3 women (and 1 in 5 men) suffer from Osteoporosis, 57M people in Europe suffer from osteoarthritis, which costs the UK alone £12 billion; and 100's of thousands of joint replacements are performed each year. The "problem" is vast andthe proposed technology is starting with those that have suffered to the point of requiring surgery. Recovery post surgery is not standard; it is not measured, and it is not objective, thus patients do not always achieve the outcome they want.

The technology provides a means to safely, assess patients weight bearing capability and distribution in a simple assessment that is executed in under 2 minutes. In doing assessments at key stages of rehabilitation, hospitals will

set their standard of recovery (evolving discharge), drive accountability and obtain operational insight that will lead to positive improvements in patient care delivery.

Currently they have won an European Space Agency Tender to test their product on a parabolic flight to test their equipment in zero-gravity conditions.

Partnership types:
Research and development cooperation agreement: To partner with R&D organizations to develop proposed solutions even further
Commercial agreement with technical assistance: Looking for partners with technical knowledge to make product adoption easier.

Advantages and innovations

The technology is borne out of clinical research that demonstrated the ability to increase bone mineral density at key loading sites in the body. The research resulted in a method to quantifying skeletal loading that incorporates the three key variables of bone adaptation (magnitude, frequency, and duration).

The Company has generalised the technique, added novel analytical measures to determine the degree of loading and off-loading and wrap

Technical specification or expertise sought

Stage of development	Sustainable Development goals
Already on the market	• **Goal 3: Good Health and Well-being**

IPR Status

Secret know-how

IPR Notes

Partner Sought

Expected role of the partner

They are actively seeking strategic partners who are already established in the market and are willing to help to faciliate te adoption of proposed solution. They are reaching out to businesses and R&D Institutions with interest in

space technologies meeting Healthtech.

General objective of the partnership: To establish strategic partnershipsthat enable the creation of value with entities in the health sector, through the positioning and sale of its products on the international market.

Type of partnership

Research and development cooperation agreement

Commercial agreement with technical assistance

Type and size of the partner

• **R&D Institution**

• **University**

• **Big company**

Dissemination

Technology keywords

• **06005003 - Health information management**

• **06005002 - Sensors & Wireless products**

• **01004001 - Applications for Health**

Market keywords

• **02007012 - Medical/health software**

Targeted countries

• **World**

Sector groups involved

• **Aerospace and Defence**