

SBA-K1
SBA Research GmbH

Programme: COMET – Competence Centres for Excellent Technologies

Programme line: COMET-Centre (K1)

Type of project: Trusted Cloud Computing, ongoing, multi-firm

HEARTBALANCE: HRV AND HEALTH ACCOUNT FROM A SINGLE SOURCE

JOINTLY WITH SBA RESEARCH, HEARTBALANCE IS WORKING ON A NEW GENERATION OF HRV SENSORS AS WELL AS ON A DATA PRIVACY COMPLIANT HEALTH PLATFORM.

HeartBalance, an Austrian SME located south of Vienna, has made a name for itself over the last 10 years in the research, analysis and impact of heart rate variability (HRV) on health. Together with medical faculties such as the Sigmund Freud University, it works intensively on aspects of *salutogenesis*: Keeping people healthy instead of waiting for diseases and then treating them.

With intensive support from SBA Research, Heartbalance has set itself two major tasks: On the one hand, the development of a new generation of heart rate variability sensors, and on the other hand, the creation of an Internet-based health platform, the "Account of Health", where users can store health

data such as HRV measurement results in a long-term, data protection-compliant manner. A first major milestone has now been reached: The first 200 prototypes of the new HRV sensor have been produced and are now being subjected to intensive test runs and practical tests before series production can begin.

Meanwhile, HeartBalance and SBA Research are working on the development of the health platform, whose architectural concept will be completed in the next few months.

SUCCESS STORY

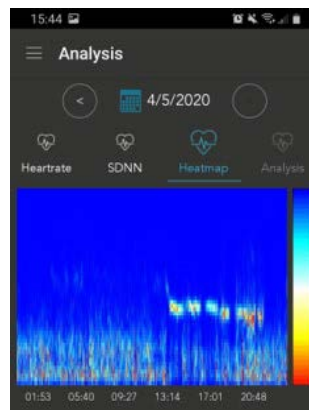
Impact and effects

Data security is particularly important for health-related data, but it is also a challenge that must be carefully planned both in breadth and depth to achieve a high level of quality. The partnership with SBA Research was therefore obvious, as the research center has 15 y of experience in handling data that is particularly worthy of protection, and at the same time has a capable team of software developers to devise proof-of-concepts and prototypes relatively quickly that meet the basic requirements in terms of functionality and data protection.



*The first prototypes of the new HRV sensor generation
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However, SBA Research supports HeartBalance within the COMET program not only in developing a trustworthy cloud solution but also helps to network with complementary competencies within its large academic and industrial partner network.



*Screenshot of the analysis module of the mobile App
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"The support from SBA Research and the COMET program, respectively, enables us to develop innovative solutions that would otherwise not have been possible at this quality and speed", says Dr. Peter Hauschild, founder and managing director of HeartBalance.

Project coordination (Story)

Markus Klemen
Managing Director
SBA Research
Mklemen@sba-research.org

SBA-K1
SBA Research GmbH
Floragasse 5/7
mklemen@sba-research.org
www.sba-research.org

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