



SENMOTION – high-precision sensors as IoT wearables - combined with AI-controlled diagnostics for digital health solutions of the future

2019



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Excellent Team



Ilja Solomonovs
CEO

Dipl. BWL, Responsible
for management and
strategy



Prof. Dr. Thomas Ertelt
CEO

Prof. for Biomechanics &
Motion science, responsible for
Data Analytics



Prof. Dr. Thomas Gronwald
Intervention and Therapie

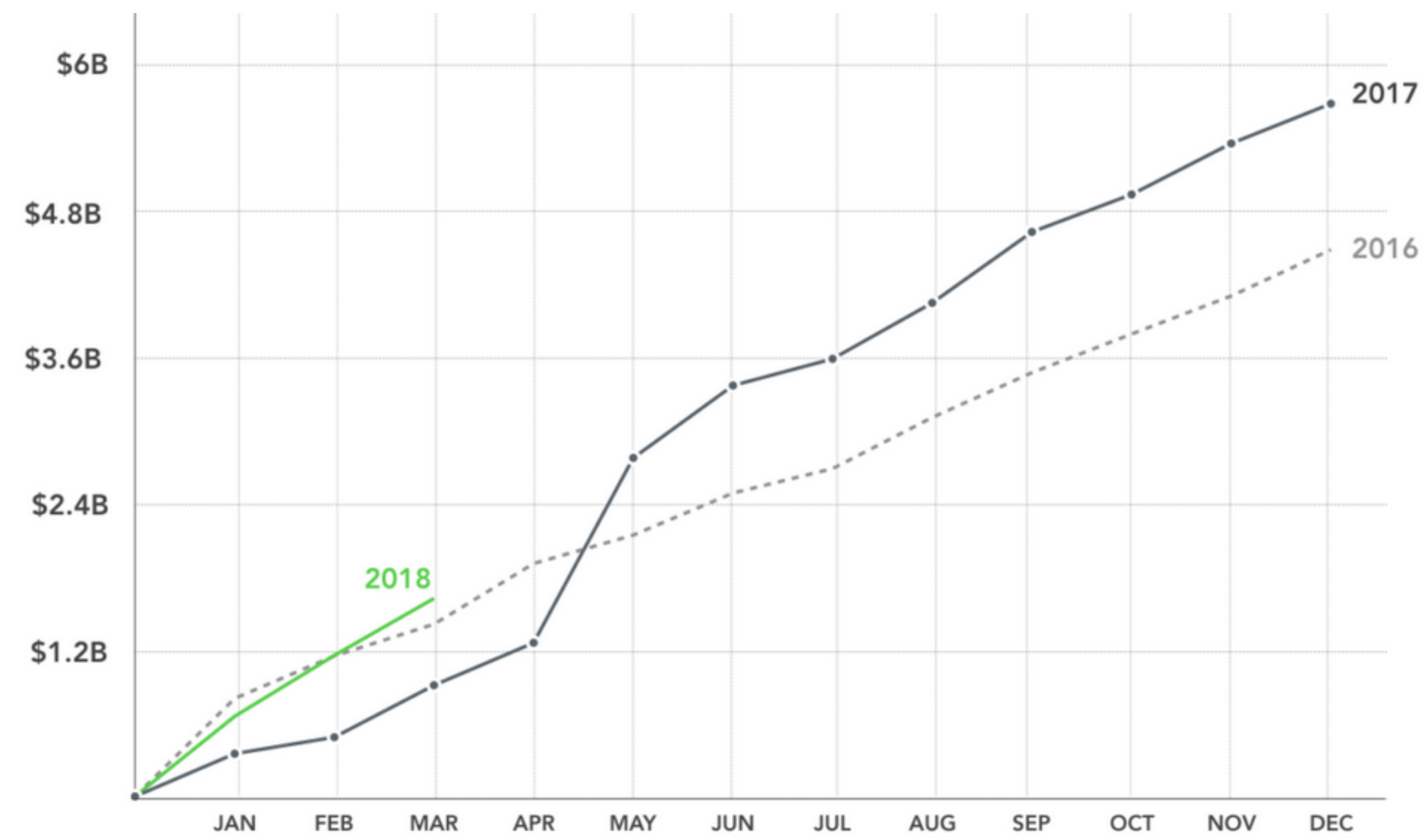
Prof. Training and Motion
science, responsible for
treatment solutions



Dimitri Biermann
CTO

Senior Software Architect,
responsible for technical
product development

Great growth potential in the digital health market



- In 2017, **US \$ 5.8 billion** was invested in Digital Health startups

- US Mega-Deals in **Q1 2018**:



Roche

\$1.9B



Inovalon

\$1.2B



R1 RCM Inc.

\$460M

MSD – Musculoskeletal disorders: affects almost everyone

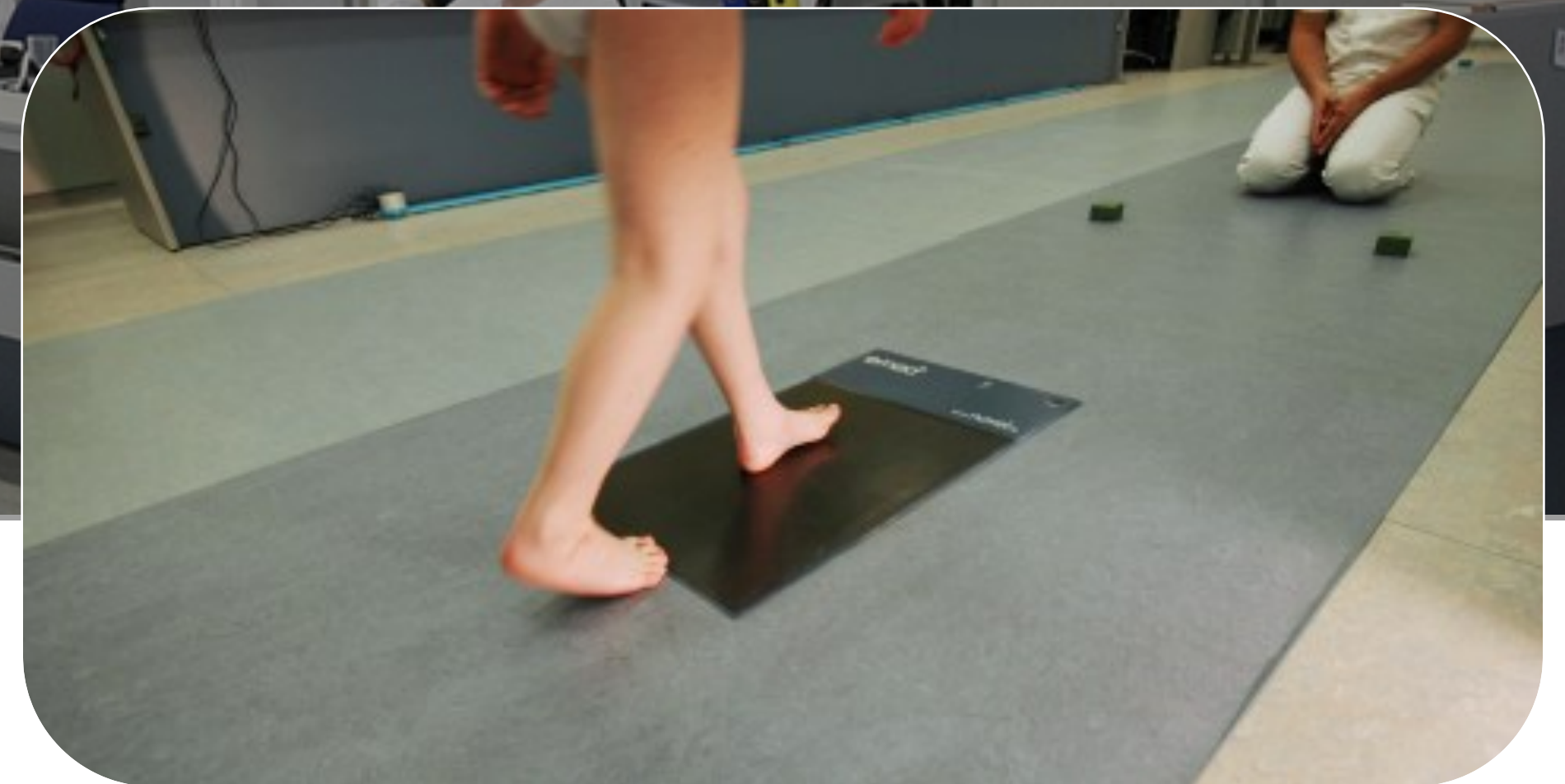


- About **80%** of people get sick at least once in their lives
- More than **150** clinical pictures and syndromes
- **Second** leading cause of early retirements
- **Largest** cost center in REHA
- Over **1,167,000** knee & hip TEP procedures **per year** in US

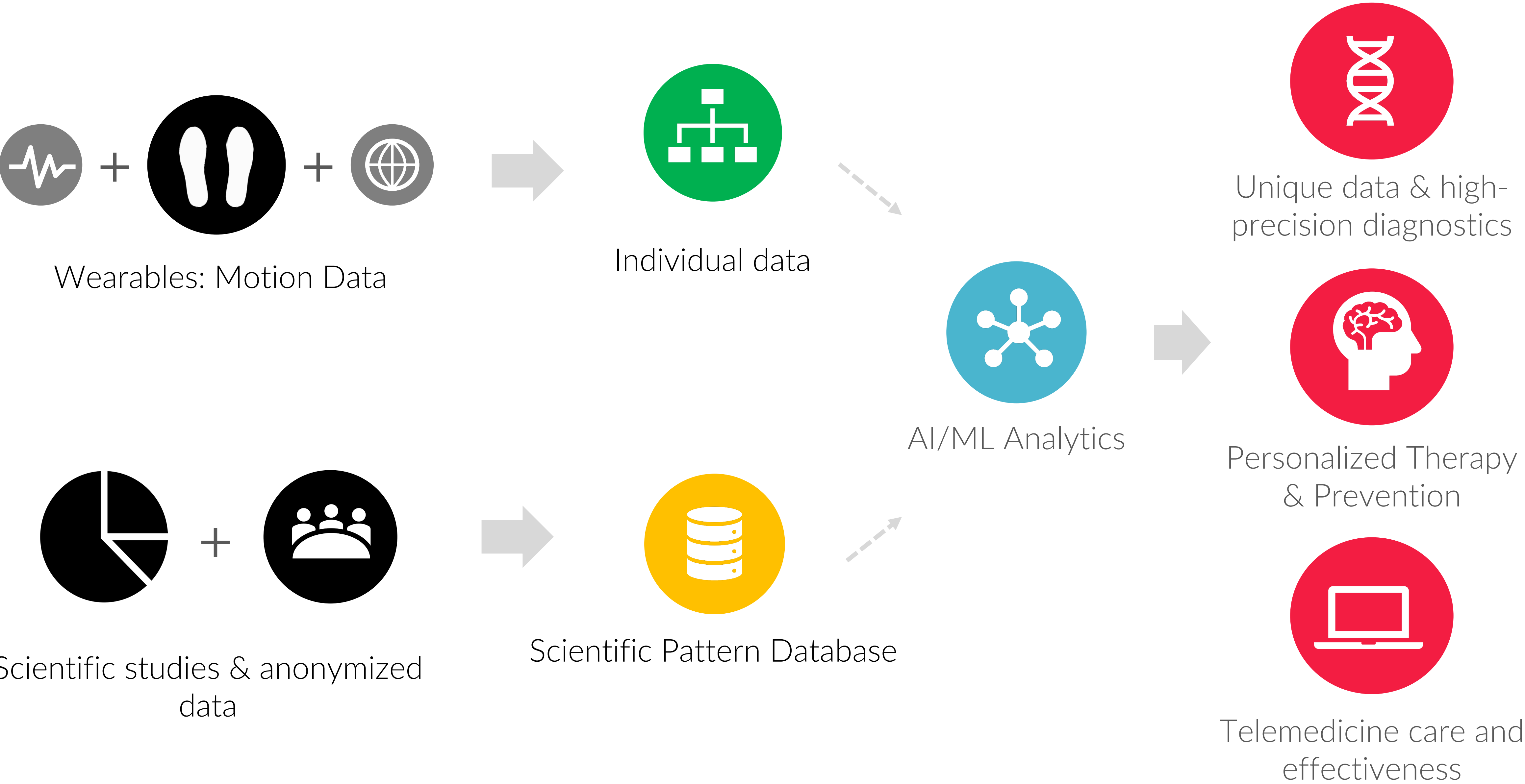
Costs of **€ 34 billion p.a.**
by MSD in Germany only!



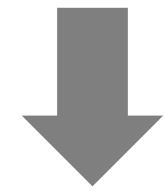
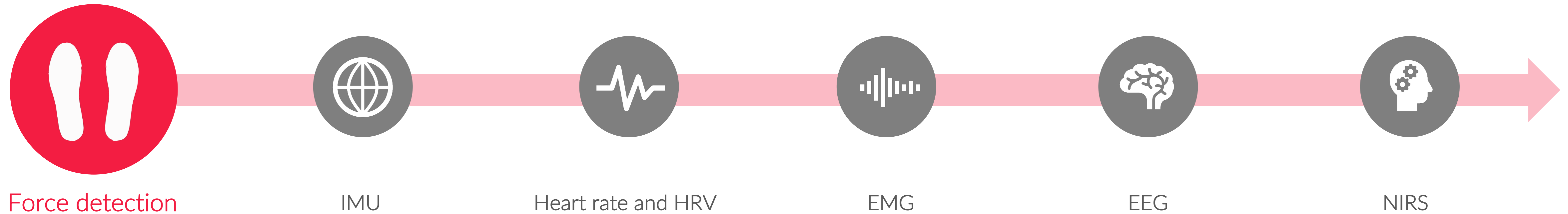
Insufficient motion data base today



Our 360° Solution



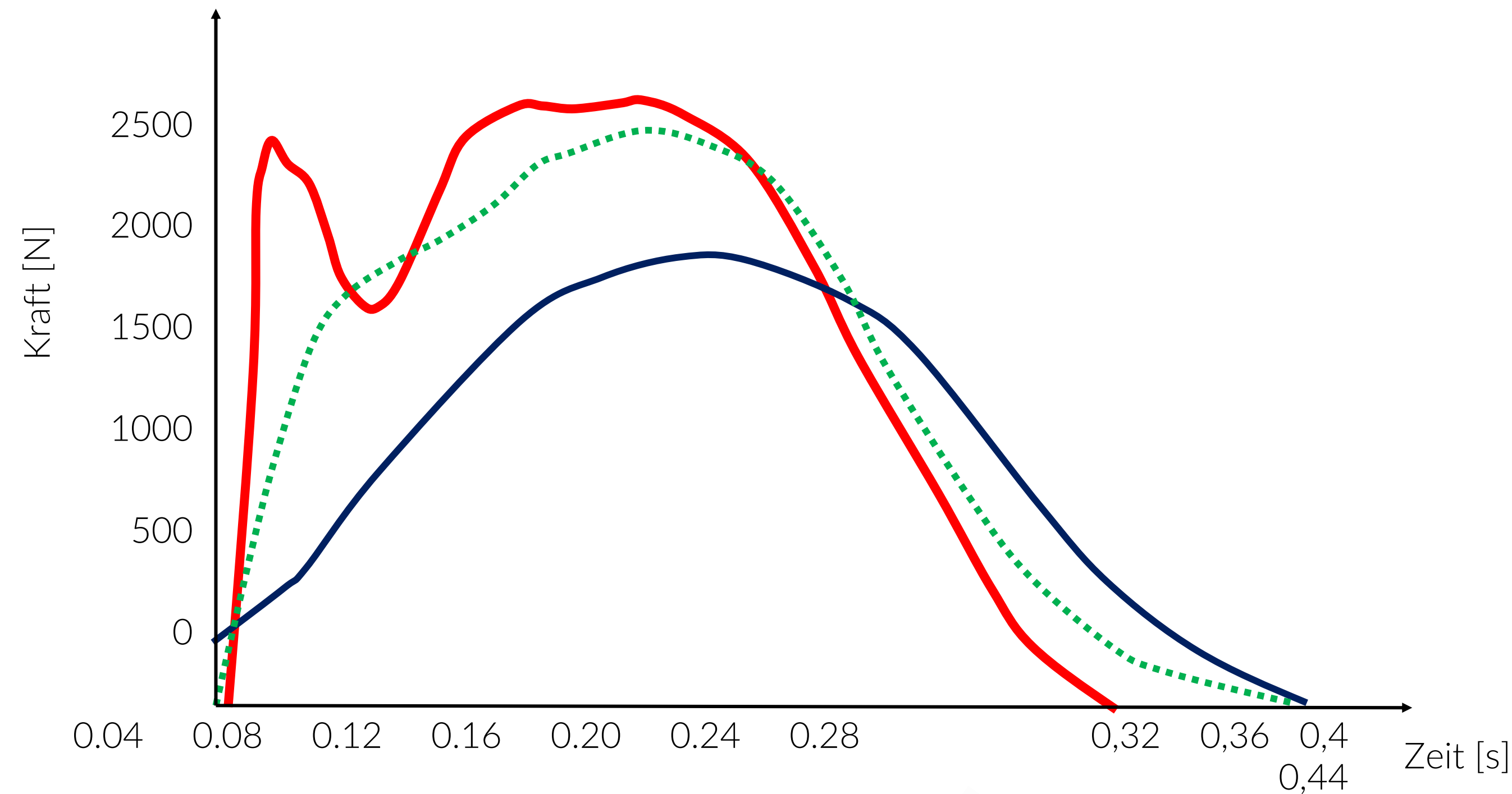
Wearables Pipeline – Start with the most important and the most difficult acquisition



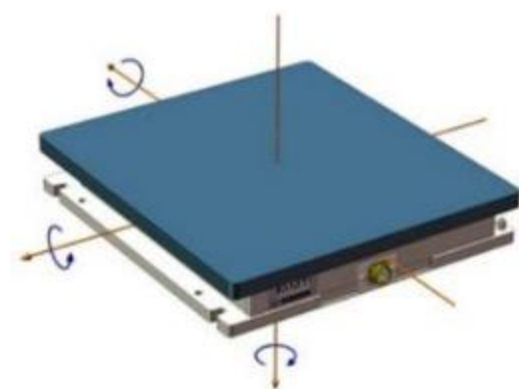
- ✓ Musculoskeletal disorders
- ✓ Neurological diseases
- ✓ Mental illness like depression
- ✓ Diabetes
- ✓ Fall prevention
- ✓ Cardiovascular disease
- ✓ Sporting activities (marathon, football ...)
- ✓ ...



No accurate system available today



AMTI:
(Goldstandard)



Pedar:

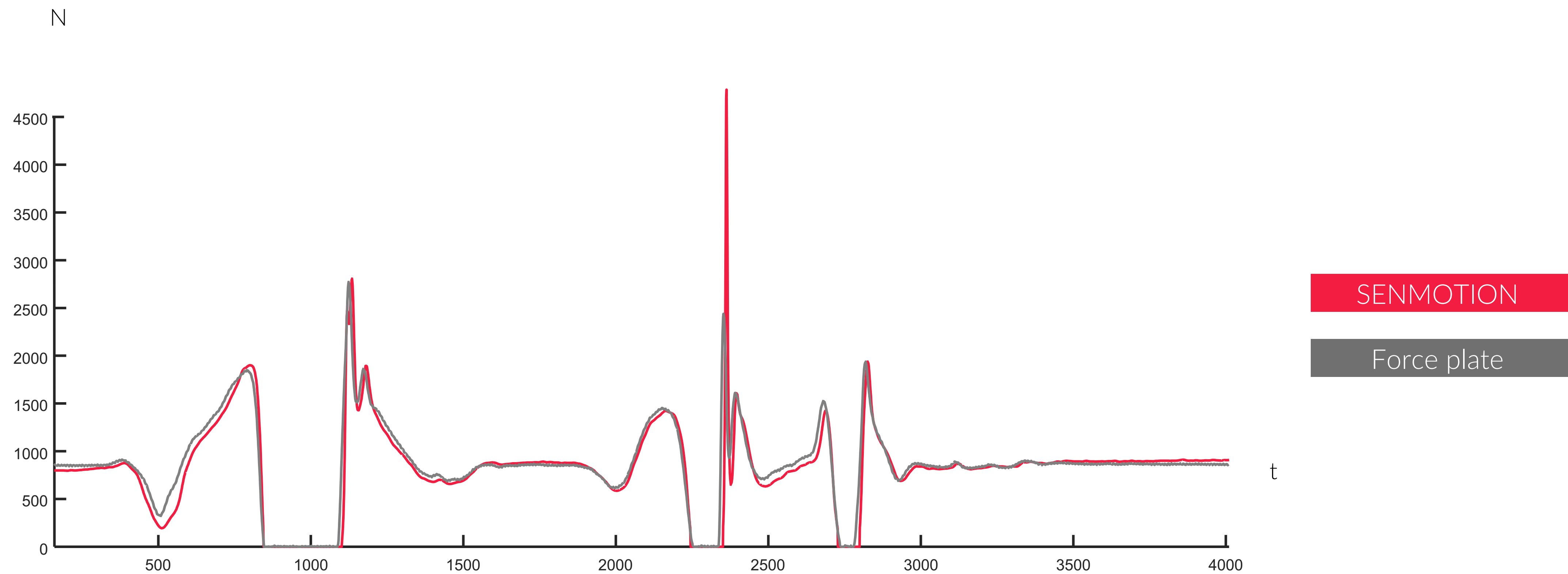


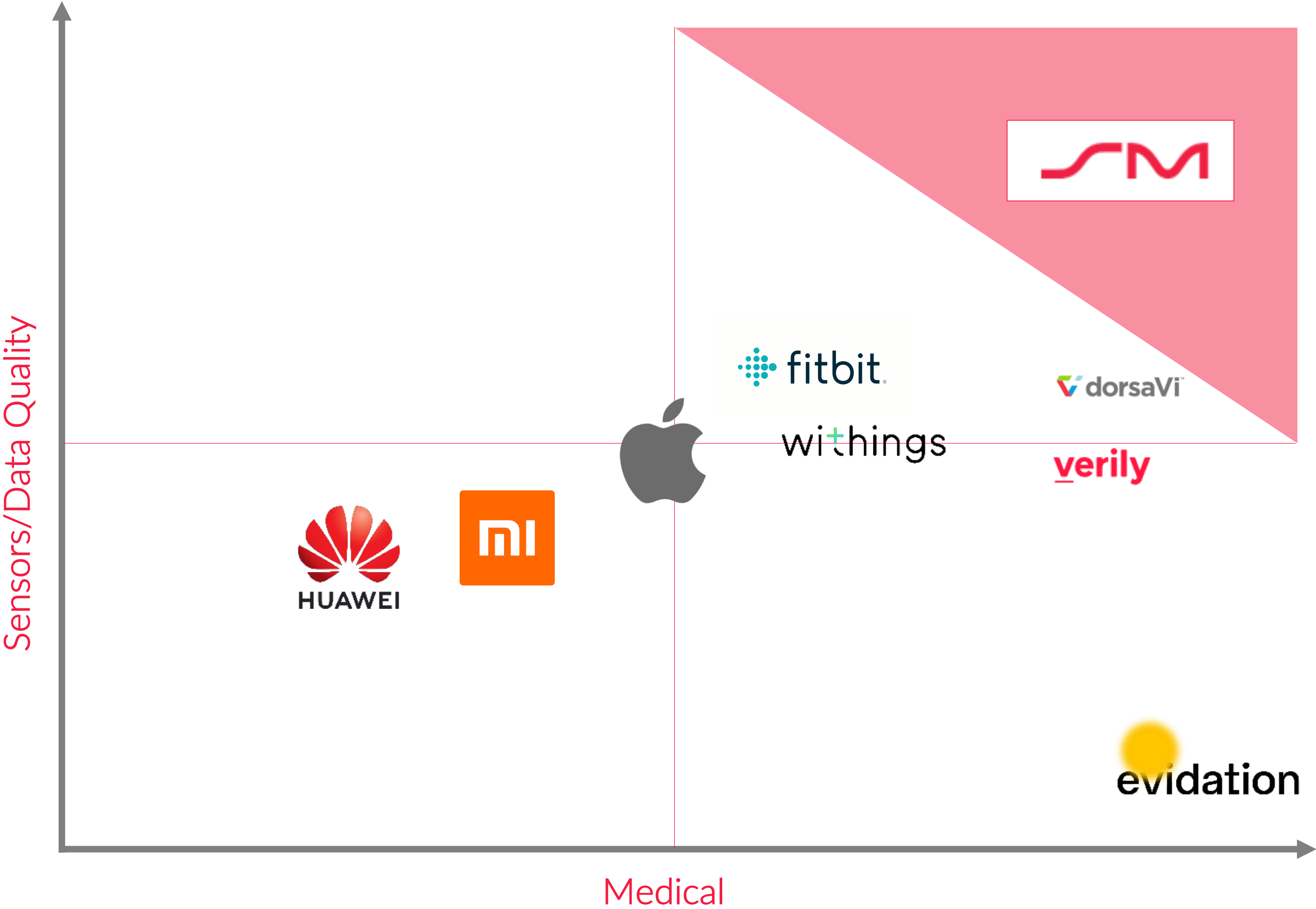
Moticon:



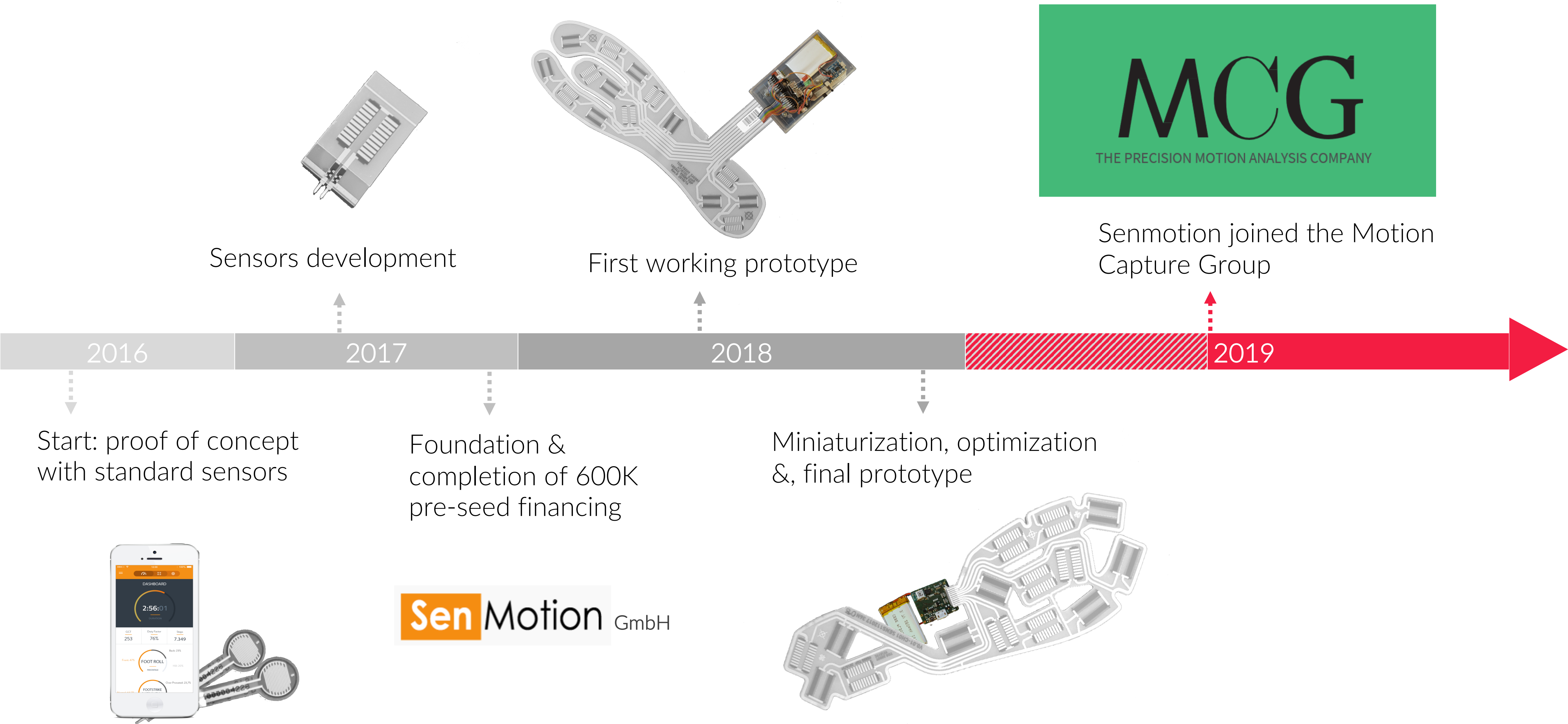
Quelle: Stöggl, T., & Martin, A. (2017). Validation of Moticon's OpenGo sensor insoles during gait, jumps, balance and cross-country skiing specific imitation movements. *J Sports Sci*, 35(2), 196-206.

Breakthrough: Innovative sensor technology as USP delivers unique real data





Previous development and outlook





CONTACT:

Ilja Solomonovs

Email: is@senmotion.com

Mobile: +49 (0)176 20 92 72 91

www.senmotion.com