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Build Fast. Validate Right.

Turning Breakthrough Ideas into Clinically Proven Solutions

If you build AI-driven health technologies or medical robotics, you move fast – yet the moment you enter the clinical world, speed meets complexity. Regulatory expectations, study design requirements, and clinical feasibility considerations can quickly become barriers to progress.

That's where we come in. Our team of medical engineers, data scientists, and clinicians helps you define a clear, feasible path to clinical evaluation – avoiding costly redesigns, shortening time-to-first-patient, and delivering a study plan that stands up to both regulators and investors.

Your Benefits

- Early assessment of technical and clinical feasibility
- Evidence-based support for study concepts and protocols
- Access to clinicians, clinical environments, and advanced biosignal laboratories
- Medical-quality, multimodal physiological data collected under real-world conditions
- (Digital) Biomarker discovery and AI-supported analysis
- GDPR-compliant data management and documentation
- Clear, actionable reports to support regulatory steps and investor communication

From Idea to Protocol

We help you design a realistic, regulator-aligned clinical pathway that takes your innovation from concept to a solid, evidence-based protocol.

Plan and de-risk: What we offer

- **Protocol Development**: Rapid analysis of your study concept or draft protocol to identify risks, gaps, and feasibility issues early.
- **Scientific & Literature Support**: Evidence-based input for Clinical Investigation Plans (CIP), hypotheses, and endpoints.
- **Technical & Clinical Feasibility**: Early validation with our experts and clinicians across cardiology, neurology, biomechanics, and more.

From Data to Product

Collect the right data in the right environment to generate meaningful evidence for performance, safety, and usability.

With our unique infrastructures for developing, integrating, and validating novel health technologies, we enable companies to advance their solutions with clinically relevant data. The result: robust biosignal datasets with scientific, clinical, or product-validation relevance.

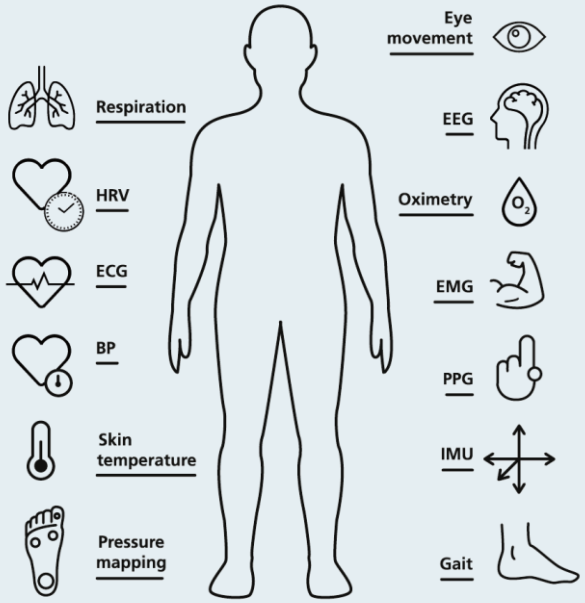
Our labs & real-world environments

- **Sports Performance & Biomechanics Lab**
  Motion capture, EMG/EEG/ECG, pressure mapping, ergometry – ideal for human movement analysis, performance assessment, and biomechanical validation.
- **Cardiology & Electrophysiology Lab**
  HRV monitoring, Holter systems, ultrasound (Vinno G55), mobile and sleep-related measurements – enabling detailed evaluation of cardiovascular and electrophysiological parameters.
- **Psycho-Physiology Lab**
  Eye tracking, EEG, facial expression analytics, respiration, and stress- and emotion-related protocols in a controlled setting – supporting affective computing, cognitive studies, and human-machine interaction research.
- **In-Hospital Clinical Gait Lab**
  Infrared and visible camera systems, force plates, EMG, and IMUs – a clinic-integrated environment for gait and movement disorder assessment, patient studies, and clinical device evaluation.
- **Portable Multimodal Systems**
  PHCT Mobile Gaitlab, heart rate sensor, and wireless platform maphera® (ECG/PPG/EMG/IMU) – enabling highly synchronized, medical-grade data collection in real-world conditions in clinical or any other environment.

Our Offer



Multimodal physiological signals across the body, all captured in our clinical and real-world acquisition environments



Reliable, compliant, standardized

Our data management services ensure every study is conducted with robust documentation, regulatory alignment, and secure workflows.

- Customizable eCRF platform (»Digital Trial Manager«)
- Documentation adhering to ISO 14155
- GDPR-conform data handling
- End-to-end data lifecycle support

Book a free 30-minute feasibility consult!

Contact

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