INITIAL CONSORTIUM

- Janssen Pharmaceutica
  - End-user representative, member of Trials@home

- Philips
  - In lead of realizing clinical trial platform

- Holst Centre (imec and TNO)
  - Development of novel wearable sensors

- Technical University Eindhoven
  - Cloud-based data analytics
VISION: a versatile sensor toolkit

Remote Distributed Clinical Trials (RDCT) supported by:
1. Seamlessly collect data from a heterogeneous, multi-vendor set of self-monitoring devices
2. Transfers data to a central location
3. Immediately analyse and present the results
4. Support wearables that collect raw data (e.g. patch, watch)
5. Support deployment of analytics modules
VISION: a versatile sensor toolkit

Cloud-connected novel sensors to capture:
- Physiological, behavioral and contextual data
- Participant’s experience

Integration of a selection of devices based on
- **Ease of use**
- **Unobtrusiveness**
- **Connectivity** to public network (directly or through dedicated hub)
VISION: a versatile sensor toolkit

- **Open data processing framework** for predictive analytics
- **Data aggregation and transformation** for further (statistical) analysis
- **Flexible data formats**
- **Dashboarding** for participants to improve adherence and researchers to oversee large-scale trials
The proposal aims to go beyond the state of art:

- **Open platform**, not brand specific
- Addition of **novel wearables** with **raw data** acquisition
- Cloud-based data analytics: **open marketplace for data analytics modules**
BENEFITS

- For patients: reduced need for hospital visits
  - Unobtrusive and ease-of-use
  - Engagement
  - Safety
- For research professionals: remote monitoring and easy scale-up
  - Tracking of adherence
  - Continuous data inspection and dashboard
- For data analytics community: open platform for development and testing of analysis modules
TOWARDS A COMPLETE CONSORTIUM

Who could contribute to further strengthen the vision?

- **Profile**
  - Medical wearable device manufacturers
  - Organization with regulatory expertise (GDPR on data protection, Medical Device Regulation, Clinical Trial Regulation, …)
  - Clinical Research Organization for testing and evaluating the framework
  - …

- **Boundary constraints**
  - Unfortunately no more Dutch partners due to budget constraints
  - Strengthening the Belgium consortium
  - …

Please reach out to:

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