

INITIAL CONSORTIUM

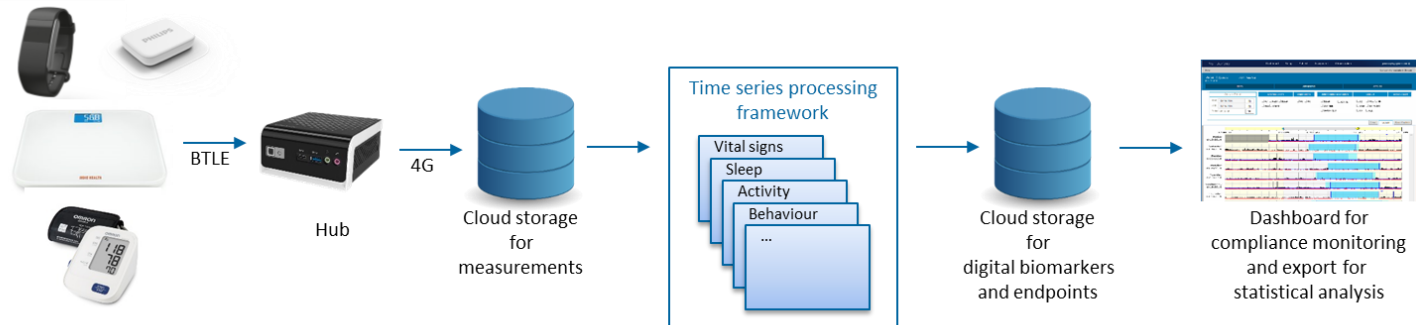
- Janssen Pharmaceutica
 - End-user representative, member of Trials@home
- Philips
 - In lead of realizing clinical trial platform
- Holst Centre (imec and TNO)
 - Development of novel wearable sensors
- Technical University Eindhoven
 - Cloud-based data analytics



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



Measure

Collect

Analyze

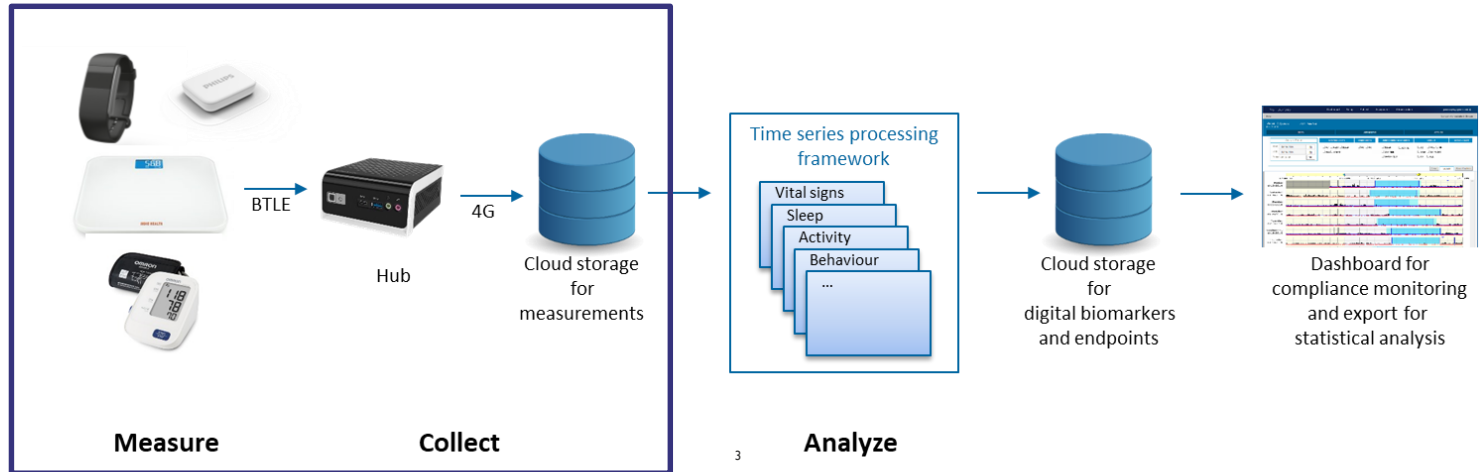
VISION: a versatile sensor toolkit

Cloud-connected novel sensors to capture:

- Physiological, behavioral and contextual data
- Participant's experience

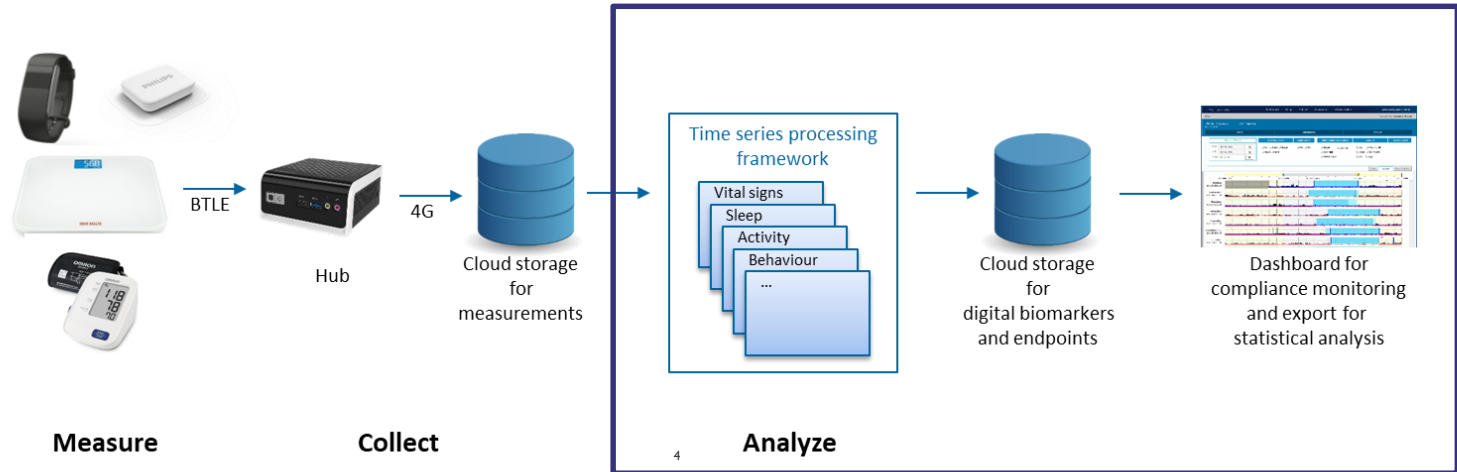
Integration of a selection of devices based on

- **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



BEYOND STATE-OF-ART

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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