# Improving (Shared) Understanding with Hart:

## Designing a telemonitoing smart care agent to support patient care in transcatheter aortic valve implantation perioperative journey

Hart, a smart digital care assistant, is a PSS for the adoption of Philips wearable biosensor data in TAVI perioperative patient care. Hart initiating communications on helping patients reflect on their own health situation, building shared knowledge by using patient-shared contextual information with long-term monitoring during physical activities or experience of symptoms.

### Context

Aortic valve stenosis (AS) is one of the most common and progressive valvular heart diseases in ageing society. According to the European Society of Cardiology (2020), the burden of AS symptoms affects the patient's quality of life and survival. For intermediate or high-risk patients experiencing severe symptoms, they are often suggested TAVI treatment, is a minimally invasive clave replacement surgery. However, TAVI patients are also frailer and with comorbidities, which requires multidisciplinary teams to deliver perioperative patient care.



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### **Faculty of Industrial Design Engineering**

