



With SYOD we are developing a European digital interoperable transaction platform (ombrio) for patients with chronic conditions. The platform enables simple, secure and automatic self-measurement sharing and continuous monitoring. Think of cardiovascular measurements (such as blood pressure), metabolic & body specific measurements (blood sugar, weight), sleep & breathing (apnea) and other physiological measurements such as body temperature. With the system, we are responding to the new EU Data Act (12/9/25) and strengthening patients' self-management, in line with the principle of *reablement*: promoting independence and active involvement in their own health. We start regionally in the Netherlands with partners, pilots and regional data, but immediately design according to European standards (interoperability, privacy) for future upscaling.

How does it work?

The platform acts as middleware between home measurements, eHealth apps and healthcare information systems. It works similarly to iDEAL or Adyen, but for healthcare data: one secure link that enables countless reliable data streams. This creates a uniform, scalable and privacy-compliant ecosystem for European healthcare data.

Impact

The project contributes to the transition to digital, preventive and patient-centered care on the RIS3 Themes:

"From care to (positive) health" + "From analogue to digital".

It reduces administrative burdens, accelerates the adoption of home monitoring, and lowers costs for caregivers and patients. With the explicit consent of patients, data streams will also be available to software suppliers, healthcare centres and research institutions, stimulating innovation in AI, prevention and personalised care.

Economic perspective

The digital transaction platform for healthcare data creates significant economic opportunities for the partners involved and the broader healthcare and technology sector in the Netherlands. The European market for home monitoring and digital care is growing explosively and is expected to exceed €40 billion by 2030. The introduction of the EU Data Act mandates secure, standardized data sharing and opens a door for new players with interoperable, compliant technology such as this platform.

Market perspective

There is currently no European player that acts as an independent transaction layer for healthcare data. Existing solutions are country-specific, brand-specific or not fully compliant with the EU Data Act. Through early positioning and collaboration with healthcare umbrella organisations, patient organisations and software suppliers, we claim a unique first mover advantage in a fast-growing market.

Economic interests

- Technology partners benefit from licensing revenues, management contracts and further product development in the healthcare ICT market;
- Healthcare organizations realize cost savings through reduced administrative burdens and more efficient deployment of staff;
- Research and data partners gain access to valuable, anonymized datasets for AI development and prevention research;
- Consumer and measurement equipment manufacturers strengthen their market share through standard links with the platform;
- Indirect contribution because people stay healthy longer and experience less absenteeism.



Social impact

The social impact is great. In the Netherlands alone, more than 1.2 million people live with diabetes, 537.00 with COPD, 1.7 million with kidney damage and 2.8 million with hypertension. For these groups, regular measurement is essential, but now very time-consuming. By automating home measurements and securely sharing them with healthcare providers, patients gain more control and work on the concept of positive health, while significantly reducing the pressure on healthcare professionals.

Impact on care and research

The potential impact on healthcare capacity is substantial: in the Netherlands, these patient groups take up at least more than 4 million care hours annually. If only 10% of the activities can be replaced via home measurement, this will result in a structural saving of 400,000 care hours per year. That time can be used for complex care and personal guidance. In addition, the anonymised measurement data will be made available to regional knowledge institutions via a separate blackbox structure. This creates a valuable data source for the development of predictive AI applications, aimed at prevention and early detection of health problems. In this way, the project not only strengthens healthcare, but also the regional knowledge position on digital health. The initiative is in line with regional ambitions in the field of digital care, healthy lifestyle and labour savings. The platform prevents unnecessary consultations and administrative actions because data is automatically and securely forwarded to healthcare systems.

Concrete effects

This leads to:

- Fewer physical consultations due to home measurements;
- Fewer administrative actions for practice nurse GP/home care;
- Possible relocation of measurement moments to home situation;
- Expected reduction of 20–35% in routine metering traffic.

Contribution to affordable, accessible, organisable care:

- Higher autonomy for patient;
- More efficient deployment of personnel;
- Better data quality for clinical decision-making;
- Lower implementation threshold because healthcare organization does not have to install anything.