Interreg Danube Region | Co-funded by the European Union

Caring Communities

Transnational Innovation Program on Homecare and Community-based Services

Germany; Serbia

This initiative is part of the Transnational Innovation Program within the Caring Communities project.

Aura Care Monitoring

An integrated home-care system that pairs smart sensors with AI-driven monitoring and a connected app, so that older adults can live independently and the people who care for them always know what's happening.

What it is and who it serves

Most emergencies at home don't happen loudly. A fall in the night, a slow drop in vital signs, early signs of dehydration - these are the moments where minutes matter and where elderly people living alone are most vulnerable. Aura is designed for exactly these moments.

The system installs a smart sensor station in the user's home, where it continuously tracks key risk factors: falls, vital signs and environmental safety. AI algorithms work quietly in the background, picking up the patterns that signal an emergency and alerting caregivers in real time. A connected application keeps caregivers and family members in the loop, offering relevant information, communication tools and remote monitoring, so that caregivers don't have to worry between visits.

By bringing hardware, software and care coordination together in a single system, Aura makes timely intervention possible, raises the baseline of safety in the home and offers a genuinely practical answer to one of the hardest questions in elderly care: how do we let people stay where they want to be?

Organization details

Aura – Care Monitoring is developed jointly by partners in Germany and Serbia, combining German expertise in care technology and digital health with Serbian know-how in care delivery, user testing and local implementation. The cross-border setup is a deliberate strength: it pairs advanced technology with real-world pilot environments, ensuring that what gets built works in the homes it is designed for.

Development stage

Aura has moved beyond the concept stage and is currently in the testing phase, with a working prototype already in users' homes.

Results achieved so far:

A functional prototype of the full system is up and running, bringing together smart in-home sensors, AI-based monitoring and the connected caregiver application in a single integrated solution. Initial pilot testing is underway in Serbia in collaboration with local partners, with structured feedback being collected from elderly users, caregivers and family members - the three groups whose experience will ultimately decide whether the system holds up in daily life.

The prototype already delivers the features that matter most in home-based care:

- Fall detection with real-time alerts
- Continuous monitoring of vital signs
- Risk assessment for conditions such as dehydration and pressure ulcers
- Emergency alerts sent directly to caregivers and relatives

Future plans

The immediate priority for Aura is to deepen the pilot. Continued testing in Serbia will provide a steady stream of real-world feedback from users, caregivers and partners, and that feedback will drive the next round of refinements - additional features, better usability, sharper system performance and improvements that can only come from watching the technology meet daily life.

In parallel, the initiative is working toward something larger than a single product: a fully integrated digital care ecosystem. This means strengthening partnerships with healthcare providers, care institutions and technology partners, scaling the deployment of sensor systems, expanding AI-based monitoring capabilities and improving integration with the care systems already in place. The goal is for Aura to slot into existing structures rather than ask them to bend around it.

In the longer term, Aura aims to make the transition from pilot to fully operational service, opening the door to wider adoption across regions and establishing an accessible model for technology-supported home care. Through the Transnational Innovation Program, the experience built in Germany and Serbia can travel further, offering other countries a tested, human-centered blueprint for keeping older adults safe in the homes they love.

Contact data

Fabian Höger, Germany, info@perspective.care

René Jennrich-Friederich, Germany, rene.jennrich-friederich@perspective.care

Cecilija Scheiber, Serbia, cecilija.scheiber@gmail.com