TELEGRAFIK

Artificial intelligence

Time to assess the 3Pegase project, benefiting elderly people with diminishing autonomy

Launched in 2015, the 3Pegase consortium, grouping together 6 industrial entities, has been working on the development of a system to prevent the loss of autonomy and to provide a follow-up service for frail elderly people.
Today, 3 years after its launch, 3Pegase signals the end of its project, issuing a very positive initial assessment which points to a larger-scale clinical study being conducted.
It was at the initiative of Telegrafik, a company specialising in home-support connected services for frail persons and in patient telemonitoring, that this project was created.
One objective: to provide frail elderly persons with a secure environment and to be able to monitor them more efficiently when they returned home after a period of hospitalisation.

3Pegase: anticipating the recurrent problem issues facing senior patients

It was in the context of the EasyNov call for projects with the Midi-Pyrénées Regional Council, that the Gerontology Unit at the Toulouse University Hospital, the Toulouse IT Research Institute, Orange, Telegrafik, Telemedicine Technologies and Serena joined forces within a consortium to implement the 3Pegase project (Predictive Platform for Elderly People and Assistance).
Its main aim was to propose a monitoring solution for patients at home, implementing a data collection platform and a remote assistance service to coordinate interventions.
Based primarily on systems involving sensors and predictive analysis technologies developed by Telegrafik, **3Pegase worked on anticipating the recurrent problem issues facing senior patients,** such as falls or undernutrition.

The surveys and follow-up of patients within the 3Pegase framework have been carried out at 3 levels:
- Monitoring cognitive autonomy
- Monitoring functional autonomy (mobility, sleep, body care, pace of domestic life, living in private accommodation, ...)
- Monitoring the patient's nutrition

A positive assessment and good future prospects

So, three years after the launch, the members of the consortium confirm the end of this 3Pegase project.
Assessment of the consortium: **initial results promising, with the ambition of a wider roll-out**.

For Doctor Piau, gerontologist at the Toulouse Gerontology Unit: *"For the Toulouse Gerontology Unit, this project has been one of the most successful "technological" projects conducted in recent years. The solution has been very well accepted by the patients who have felt secure. The project has succeeded in proving the reliability of the end-to-end platform implemented, from the processing of data from sensors in the home through to the teleassistance service. The success of this clinical study means that, in the coming months, we can now expect a more substantial cohort (in terms of the number of patients included and the duration of the project) so as to demonstrate the medico-economic relevance of the system."*

In a global context of ageing population and to deal with the problem of loss of autonomy for senior citizens, the 3Pegase project highlights a real challenge for healthcare policies.