The goal is to develop and implement a model of management control information system, which enhances value creation (defined as health outcomes per unit of cost) in Long-Term Care (LTC) providers.

The model was developed, and its first intervention is being carried out in a partner LTC located in Portugal that holds short-term and long-term continuous care facilities with a capacity of 100 inpatients.

The CareValue project introduced a platform to be used by the team of health professionals (HP) that were involved in several activities of the project. Their collaboration was vital to guarantee the aim and the functionality of the applications being developed.

The project has a multidisciplinary research team including distinct profiles (management, nursing and software engineering).

The Care4Value ecosystem includes: a Mobile App and a Web Dashboard that aim to provide a much-needed service for HP.

LTC units are still reliant on outdated procedures and a lot of redundancy. In the long run, Care4Value will facilitate the work of HP while providing insights on the data, allowing them to accomplish a better management of the resources available.

The mobile application used by HP and caregivers will, jointly with the available data from other clinical and financial information systems, allow the dashboard to show valuable insights on the clinical monitoring of patients and their caregivers.

The integration between the data available in the existing clinical systems and the innovative tools, although limited, is being integrated in our platform (Figure 1).

The LTC professionals had to select, based on their work experience, the more suited scales to assess a patient clinical condition.

The pilot implementation started January 2019 and it is currently undergoing.

Depending on how well received the developed project is, its usage can be expanded to more LTC units.

Features like visualization and predictions of patient progress based on existing data should be implemented into the dashboard, when enough data is collected.

Engage the team of HP in the LTC, early from the beginning - conduct a focus group early in the process with everyone involved. Interact and listen to everyone's opinion and collect most of the requirements to retain future users of the platform.

Start collecting your data “yesterday” – approvals and ethics committees tend to delay the data collection process that has severe impact on data treatment and analysis. Start with the data you have as soon as possible to “train” the platform.

Potentiate the data visualization features - automate part of the physical condition assessment of patients using nowadays commonly used technology like sensors (IoT).