

Within the study, which is divided into three stages, the older adults are asked about the usability, the improvement of their life situation, the applicability of the functions and the change of their quality of life. The DAPAS solution consists of two user interfaces, a tablet and the voice-controlled base station, EmmaHome is therefore an essential part of the DAPAS solution which forms the base station.

Through this study we will gain further and more precise information about the usability criteria to develop our system even closer to the needs of older adults.

4 FUTURE

Every day, large, heterogeneous and unstructured amounts of data (big data) are created. Today, data is the central resource for economic success. Increasing digitalisation is generating more and more data in all areas of the economy. Modern analytical methods make these large amounts of data accessible and usable.

The aim is to draw action-relevant, i.e. economically and scientifically usable, knowledge from the multitude of heterogeneous data streams (user data, transaction data, linguistic texts and sensor data etc.). Very large amounts of data are obtained from relevant sources, interpreted and used.

In particular, we will continue to focus in the future on knowledge and expertise about Natural Language Processing (NLP), Artificial Intelligence (AI) and Machine Learning (ML), search engines and technologies, data-driven business models, Knowledge Management, learning and further education as well as legal framework conditions in the field of data protection (Data Protection Basic Regulation, DSGVO).

The core areas of (Big) Data Management and Dig Data Analysis will continue to be an important part of Emma. In the future, Emma will not only help and react in emergency situations, Emma will also provide predictions and react before an accident happens. This modern data analysis allows the system to detect a situation before it becomes critical to be able to react prematurely and have help on site

5 REFERENCES

[1] „ Population projections 2008-2060, From 2015, deaths projected to outnumber births in the EU27 Almost three times as many people aged 80 or more in 2060 “ STAT/08/119 26 August 2008

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