

<b>Title</b>	<b>Executive Summary D2.1: Solution backlog and test labs established</b>
Work package	WP2: Solution Development and Iterative Adaptions
Date	02.01.2018
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This is an executive summary of Deliverable 2.1 of the project gAALaxy.

## 1. INTRODUCTION

The deliverable was originally planned as a concept that summarizes the development and the testing results of the test labs. During the testing and the development of V1, the use cases were directly evaluated in the test labs. Therefore, the document was not only used as concept, but also as a working document for the development of V1, which would eventually be finished after the development of V1.

## 2. LAB TESTING

The lab testing for the first pilot phase included test labs in all countries, as well as the development of two different boxes, the so-called central unit. The testing phase was divided into two parts: In the first part, the different solutions were installed, and their core functions were tested. In the second phase, the different integrated use cases were tested, adapted and finalised.

### 2.1. CENTRAL UNIT

As we could identify in Deliverable 1.1, the technology acceptance by elderly people is relatively low, especially when they have to engage with new technology. As our gAALaxy bundle consists of several different devices, we decided to hide them in a box. Therefore, the PEs do not have to engage with each of the solutions, and most of the cables are also hidden in the box, which minimizes the optical change of the apartment.

A positive side effect is that most of the installation work can already be done at our facilities, which lowers the installation time at the apartments of the PEs, and gives us more time to train them.

### 2.2. TEST LABS – NON-INTEGRATED SOLUTIONS

The components for the first bundles were chosen as follows (details regarding the selection process can be retrieved in Deliverable 1.2):

- Home monitoring solutions provided by Fifthplay n.v.
- fearless fall detection provided by CogVis GmbH
- 2PCS provided by 2PCS Solutions GmbH
- Helferbörse
- Smart home by RWE

As the consortium decided to postpone the use of tablets to the second pilot phase, the Helferbörse is also not used in the first pilot as it requires a tablet or a computer.

All other system are installed in the first lab tests. Those tests were primarily used to get familiar with the solutions. The solutions were installed in different offices in all countries to test them in a lively environment. Those first tests were important to see the differences between both smart home systems, and to get a better overview of the integration possibilities.

Combining all devices in the box lead us to some additional devices that are crucial for the whole gAALaxy system: All boxes were equipment via a wireless router and an USB modem dongle. Using that devices enables us to install the gAALaxy system independent of any existing internet connection in the different households, and gives us the opportunity to not only mount all devices in advance, but to also integrate them already in our facilities, as we bring our own wireless network.

## 2.3. TEST LABS – INTEGRATED SOLUTIONS

The test labs in all countries were all prepared to test the integrated solutions. The main parts (e.g. central unit of smart home system, fearless sensor, 2PCS antenna) are the same at every box, but the components of the smart home systems vary. The results of that testing will be part of deliverable 2.2.