



**AAL**

PROGRAMME



# AAL FORUM 2018

EXECUTIVE SUMMARY

**AGEING WELL IN THE DIGITAL AGE:**  
A GROWING COMMUNITY OF CHANGE MAKERS

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# WORKSHOP 25:

## 6TH WORKSHOP ON MOBILITY SOLUTIONS

**Mobility is a key ability for senior citizens to enable them to actively participate in and feel included in society. Diminished physical and cognitive abilities can cause a loss of confidence and orientation in outdoor situations, so that elderly persons often prefer to stay at home. This workshop discussed how to effectively implement mobility solutions**



Christoph Stahl

**To help** those who are older who need help there needs to be mobility and transportation ecosystems that follow the paradigm of door-to-door mobility chains, with greater understanding on the required abilities and competences to use them. Christoph Stahl, senior research associate at Luxembourg Institute of Science and Technology opened with a keynote on the research projects that have previously presented in this workshop series to set the scene for the 6th edition of his workshops, this time, on the implementing the right mobility solutions to give confidence and freedom back to elderly citizens.

Luis de Matos, CEO of Follow inspiration also presented on autonomous robotic mobility solutions, such as the wiiGO, for retail markets to describe the current situation in terms of available products on the market for mobility robots, and Daniel Bieber, ISO Institute in Saarbrücken spoke about the Mobisaar project which gives support to elderly and disabled persons in rural and urban areas.

To actively contribute to discussions on the elements of a mobility ecosystem, participants were organised into three groups to discuss three topics and share knowledge and opinions on the abilities and competences that are required to use each of the solutions:







- **Public transport in rural areas**

**Solutions:** Electric e-cars, volunteers to help lift share, dynamic route allocation, local bus companies with flexible timetables, wearable sensors to find bus stops, improved bus timetable information, integrated ticketing systems for one trip.

**Requirements to use public transport:** Knowing bus stations, difficulties in cities, ticket solutions, no internet to obtain information, do not have smartphones/apps.

- **Pedestrians and mobility platforms**

**Solutions:** Segway, powered wheelchair, kick scooter, tricycle, e-bike, exoskeleton with navigation aid, tourist trains, golf carts, infrastructure for bike lanes etc.

**Requirements:** Public transport to have easy access for bicycles etc., accidents occur with e-bikes as people have not been educated on how to use them correctly, traffic gets more complicated with different size and speed of vehicles with regulations unknown, information about obstacles and accessible routes.

- **Autonomous and robotic vehicles**

**Solutions:** medical help by drone, rehabilitation robots, Tesla autonomous cars, autonomous robots/cleaning robots, last mile delivery robots.

**Requirements:** Infrastructure - houses and stress must be changed to suit the needs of robots, accidents could occur with broken sensors etc., more knowledge, legal and ethical frameworks need to be improved, building of trust for intelligent transport.

The workshop revealed that there are a large variety of electric support devices that the elderly can use too, such as mobility scooters and pedelecs however, there are navigational and speed-awareness issues. For rural areas state financial aid is needed to allow people to be more mobile without using their cars and technology won't necessarily help. With regards to future transportation, the interaction with autonomous vehicles will require new knowledge and skills and a new level of trust.

# ACTIVE AND ASSISTED LIVING PROGRAMME



Each national funding agency of the AAL Programme appoints a National Contact Person who is responsible for the respective national activities for organising and implementing the AAL Programme.



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