



Gary MacManus
Project Coordinator

WELCOME

As Project Coordinator, I would like to welcome you to our first Carelink Newsletter. Carelink is a research project, funded under the European AAL programme, close to the market, with the goal of developing a smart, adaptive and low-cost solution for positively managing the wandering of people with dementia, enabling them to walk freely while reducing the stress on the caregivers.

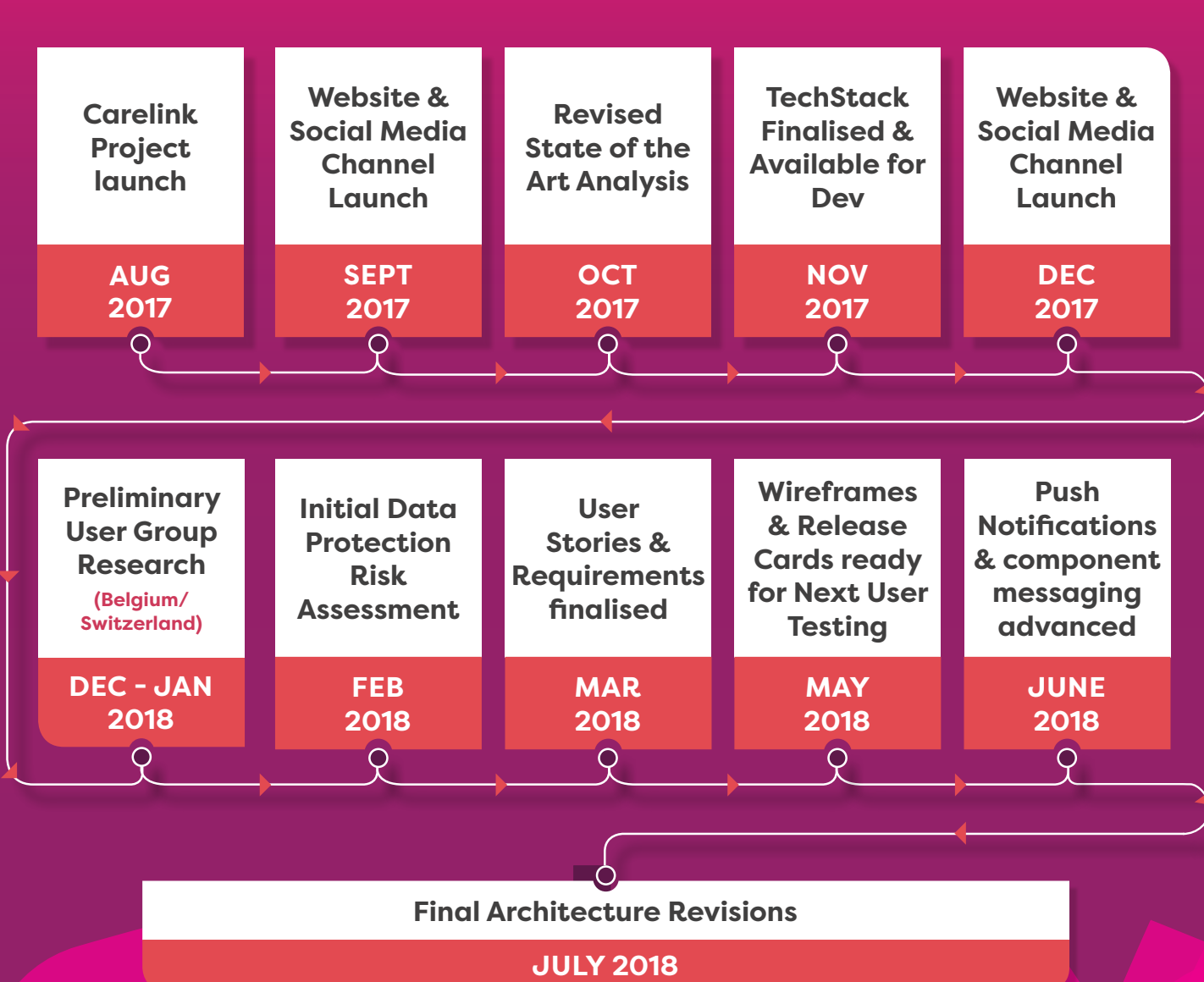
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EDITORIAL

Wandering is one of the behaviours exhibited by some people with dementia. Six out of ten people with dementia will wander. When a person with dementia wanders can find themselves in dangerous situations and unfamiliar environments. The situation results in significant stress for families, caregivers and the person with dementia. The consequences can be severe and sometimes fatal. The Carelink user group feedback has indicated what works can differ greatly from person to person. While there are both some positive preventions (e.g. preferred activities) or interventions (trackers), there is no silver bullet.

Our vision is that the solution will be flexible in delivery and will be viewed by users as beneficial and enabling, while giving carers peace of mind. To find out more about our solution visit www.carelink-aal.org

PROJECT STATUS UPDATE



CARELINK RESEARCH SPOTLIGHT

The Carelink team includes expert researchers in the areas of intelligent communications, artificial intelligence, sensor device and networks. We will use the Research Spotlight to highlight some of the key research investigations that underpin the Carelink solution.

Fog-Centric Localisation for AAL Khriti Bhargava, Gary McManus, Stepan Ivanov

Ambient assisted living technologies deliver context aware services enabled by behaviour and preference monitoring. An important feature of AAL is the ability to detect anomalies (*Carelink goes even further by predicting when an anomaly (wandering behaviour in people with dementia).* In order to achieve monitoring including the localisation of service users, sensors are a necessity. The use of sensors frequently results in high costs either as a result of expensive hardware or dense sensor deployments. A key goal for Carelink is the delivery of a low cost solution. This research solution proposes a single wearable sensor and cloud gateway for sensor localization. Iterative Edge Mining (IEM) is one of the light weight data mining techniques which is being considered for activity recognition to be executed on the device. IEM runs autonomously on the sensor node sending alerts to the gateway node upon detection of an anomaly. Read the full research paper here.

[Full Paper here](#)

IN THE NEWS



Funding care for people with dementia and their families continues to be a challenge with a shared emphasis across the EU on enabling individuals to live well and safely at home within their communities as long as possible. There is a reliance on non-profits to supplement care provision in

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Getting a dementia diagnosis is problematic with delays....In Ireland, an online dementia diagnosis service is due to be rolled out imminently by Videodoc, claiming to have the potential to reduce the process from the months and even years currently involved...

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USEFUL LINKS

- Read about the National Dementia Strategies in each of our regions
- Ireland - link to <https://health.gov.ie/wp-content/uploads/2014/12/30115-National-Dementia-Strategy-Eng.pdf>
 - Portugal - <https://www.alzheimer-europe.org/Policy-in-Practice2/National-Dementia-Strategies/Portugal#fragment1>
 - Belgium - <https://www.alzheimer-europe.org/Policy-in-Practice2/National-Dementia-Strategies/Belgium>
 - Switzerland - <https://www.alzheimer-europe.org/Policy-in-Practice2/National-Dementia-Strategies/Switzerland#fragment1>

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 <p>Business Engineering, Software Engineering & Process Improvement Specialists</p>	 <p>Non-profit with interest in educational activities & support services for elderly</p>	<h2>VIEW OUR PRIVACY POLICY</h2> <p>Privacy Policy</p>	