

Scottish Knowledge Exchange Awards

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Purpose of document	Description of the Scottish Knowledge Exchange Awards
Event detail (delete row if appropriate)	Scottish Knowledge Exchange Awards arranged by Interface to celebrate Scotland's innovative academic-business partnerships
Other detail (delete row if appropriate)	

Related projects	Names and doc reference numbers
Keywords	knowledge exchange; preventative support; self-management

This week the DHI attended the Scottish Knowledge Exchange Awards in Edinburgh hosted by Interface to celebrate Scotland's innovative academic-business partnerships. These academic and commercial partnerships are hugely important for boosting innovation, driving company growth and societal improvements. There were a variety of keynote speakers, innovation sessions and exhibitors on the day reflecting the breadth of collaborations currently making traction in Scotland.

There were five innovation sessions each exploring different aspects of knowledge exchange. One of DHI's project partners e-FRAIL were delivering one of these innovation sessions where they discussed their collaboration with Edinburgh Napier University, CM2000 and the DHI. Scottish director of CM2000 Brian and Brown and PhD Researcher at Napier University Adrian Smales presented the session.

The project is a predictive analytics solution which stratifies people based on their risk of having a fall. This type of innovation could allow for people to receive faster preventative support and better self-manage thus live more independently as they age. The innovation aims to detect the early signs of illness by gathering data from home visits and then integrate this into a frailty framework which analyses both clinically focused assessments and socio-economic factors. The project is innovative as it will integrate a new assessment method in Scotland (InterRAI) with mobile device capture, and advanced Big Data analysis for the integration of an existing frailty assessment with a range of new risk assessors, typically related to socio-economic factors.

This collaboration has already been hailed a success in the East Dunbartonshire Health and Social Care Partnership Care Inspectorate Report, where it scored 6 or excellent in the 'quality of care and support' category. The report from the July 2016 Care Inspectorate told us:

"The people involved in the project were extremely positive about its benefits. These included being more knowledgeable and aware about their activity, fitness and heart rate, and more informed about their general wellbeing"

Elaine Torrance, president of Social Work Scotland said:

"If we can predict that a person is likely to fall before they do, we can prevent the pain, anxiety and loss of confidence that comes from a fall, by getting support fast. This research comes from a different and refreshing angle. Their wearable technology can pre-empt the fall or bout of illness that can put people into hospital in the first place".

This is an example of how big data, machine learning and predictive analytics can be used in healthcare and the collaboration between Napier University, the DHI and CM2000 is an example of great Scottish knowledge exchange between commercial and academic partners.