



## **NEX Project**

The NEX project is an exciting collaboration between the Centre for eIntegrated Care (CeIC) DCU, the INSIGHT centre for data analytics, DCU and industry partners Davra, Danalto and Intel. The project is funded under the Disruptive Technologies Innovation Fund (2019) which was established under Project Ireland 2040 by the Department of Business, Enterprise and Innovation and administered by Enterprise Ireland.

This three-year project aims to provide a reliable, verifiable and secure end to end home monitoring system that combines home instrumentation with medical instrument readings. The project will deploy a connected health/social care system tailored to support independent living in community dwelling older adults at risk of falls and frailty. Using artificial intelligence, models will be developed to profile individual patterns of activity and to detect and predict significant events. The data will be securely streamed to approved users including individuals/families/carers and health/social care professionals. The proposed system will provide opportunities for remote monitoring and early proactive intervention through the detection of deviations from baseline patterns of activity/health/communication status.

The project will involve establishing a partnership with older adults, families/carers and health and social care providers. A user needs study will be conducted to engage all stakeholders in the system design and to identify the behavioural model most suited to underpin the technology deployment. Early testing of the system will be validated in a real life setting followed by action research cycles of system deployment in the homes of older adults.

## **CeIC Project Team**

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