

National Health Summit 2018 8th February 2018

Dr. Conor McGinn, Assistant Professor, School of Engineering







Developing Tech that Empowers











By 2041, there will be a threefold increase in the 65+ population.





Every year, 1 in 3 people 65+ will have a fall.





The number of people with dementia is expected to double over the next 20 years.





In Ireland, 1 in 3 people 65+ live alone.





Persons aged 65+ account for almost 50% of total bed days in Irish hospitals.





Persons aged 65+ account for almost 50% of total bed days in Irish hospitals.





































Robot-assisted Care Solution







Meet 'Stevie'









Our Partners







Helping older people in need



Trinity College Dublin Coláiste na Tríonóide, Baile Átha Cliath The University of Dublin







The Time is Now







 \sim

Japan: robots will care for 80% of elderly by 2020



Japan: robots will care for 80% of elderly by 2020 Japanese government wants to increase acceptance of technology that could help fill the gap in the nursing workforce

theguardian.com

1:27 AM - 6 Feb 2018

142 Retweets 132 Likes

😌 论 主 🔮 🤑 😫 😔 😔





Stems from the Robotics and Innovation Lab (RAIL), Trinity College Dublin.













Impact Investing Model





Robot-assisted Care Solution



- + Reduced resident/patient disruption.
- + Improved transparency.
- + Guaranteed reliability.
- + Reduced staff workload.
- + Faster response.



Robot-assisted Care Solution



Cognitive engagement

Support care-workers

Communication

- + Reduced staff workload.
- + Reduced resident/patient loneliness/boredom.
- + Improved peace of mind.
- + Adaptable to needs of organisation/facility.
- + Closer resident/patient monitoring possible



IOT-based Care Solution



A modular, distributed, **IOT-based** solution has the potential to provide valuable insights that significantly improve quality of care and inform decision making.

- + Early detection of behaviour changes.
- + Non-intrusive data collection.
- + Increased transparency.
- + Improved scheduling of staff.
- + Less paperwork.
- + Low setup cost and zero maintenance.