

# **Digital Health in Bournemouth and Southwest England**

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# Digital healthcare - Transforming care

## Technology

- Point of care tests, sensors
- Communication tools – carer to carer, carer to patient to carer
- Apps
- Websites
- Social media
- Big data

## Transformation

- Support patients at home
- Manage healthcare in the community
- Enable patients and the healthy to self manage
- Promote prevention of disease at scale
- Identify opportunities for healthcare intervention

# Background

- NHS £22billion funding gap
- Considered digital technology could significantly contribute to bridging this gap
- Dorset is rising to this challenge

# Dorset Partnerships



Network connecting partners in Dorset

Led by NHS commissioners

High rate of IT start-ups

# BU Capability and expertise

- cybersecurity data analytics internet of things
- internet of services
- electromechanical engineering
- computer animation
- web site design
- app development
- evaluation of effectiveness of online tools on user behaviour
- evaluation of user experience
- enabling functions - product design, legal affairs and commercialization
- tele operation systems
- mobile applications/devices
- monitoring equipment
- wearable sensors and devices
- remote sensors and monitoring devices
- communication networks
- cloud computing
- secured wireless communication devices
- statistics and Informatics
- software engineering
- decision support systems

# BU Digital Healthcare Hub

## The home of Digital Healthcare at BU



Generating solutions





# Dorset as a Digital Healthcare laboratory

- Considerable population diversity
  - *Age – young vs very elderly*
  - *Income - social deprivation vs wealthy*
- Cohesive organisation and partnerships
- Ideal environment for international partnerships to develop technologies to transform care pathways for UK and abroad