

# Understanding the role of technology in enhancing and promoting health from home



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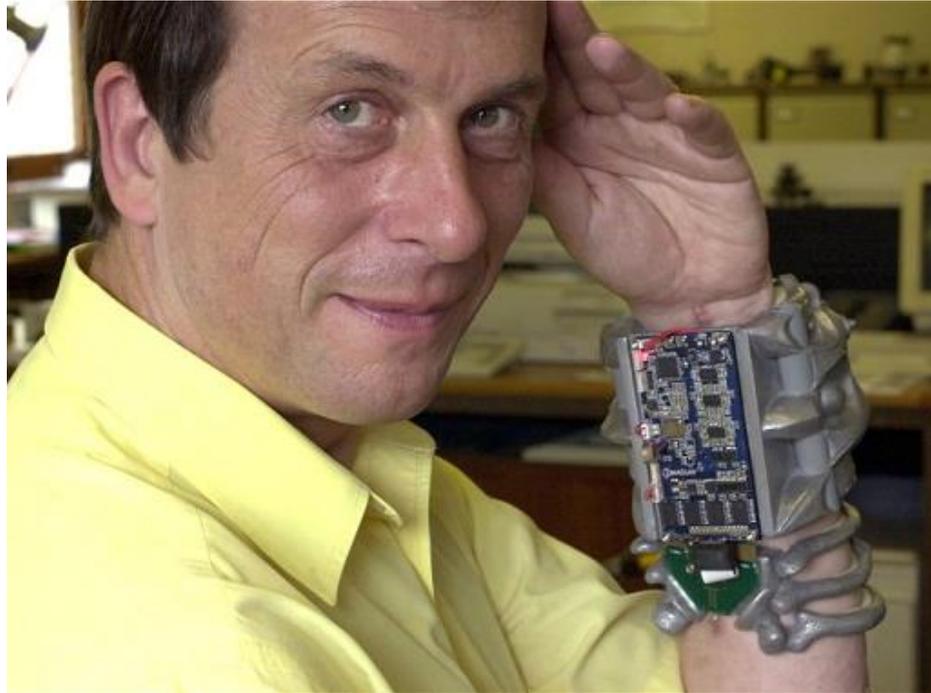


how  
interdisciplinary  
approaches can  
provide new  
insights





## Prof Kevin Warwick, professor of cybernetics at Reading University and the microchip in his arm



<https://www.telegraph.co.uk/news/science/science-news/10888828/Captain-Cyborg-the-man-behind-the-controversial-Turing-Test-claims.html>

### Top health tech trends

Broader adoption of artificial intelligence (AI) and machine learning in population health

Virtual reality and augmented reality as routine treatment for pain control after surgery and as an adjunct for chronic pain control

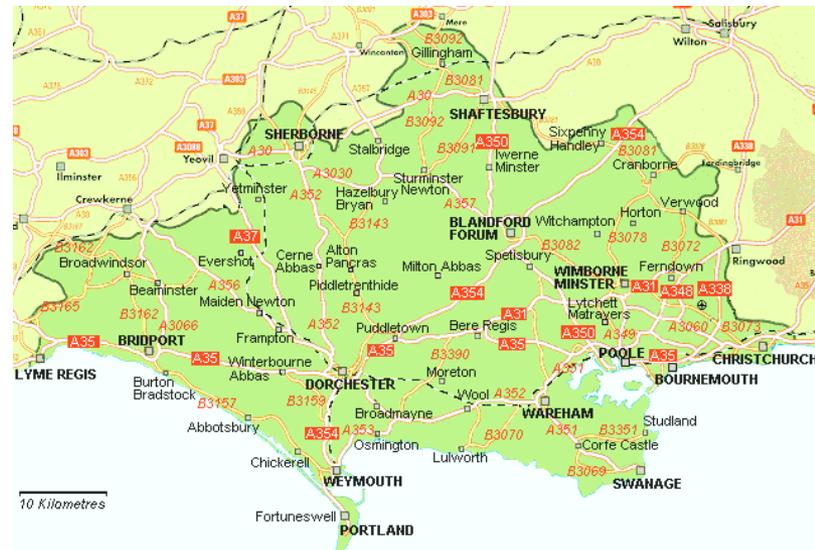
Wearables and implantable health devices to enable more routine detection of chronic conditions and monitor treatment effectiveness

Increased use and impact of digital therapeutics to enhance medical adherence and as an alternative to traditional treatments, such as diabetes prevention programs and other models relating to preventing or mitigating the impact of chronic conditions

Broader use of voice recognition and intelligent assistants to reduce clinical burden

# Key Priorities for Dorset, (Crystal Dennis, Digital Lead for Empowered Self Care & Innovation Catalyst, Dorset CCG

Topic	Approach
Learning Disabilities	Person centred
Care at Home services	Service Redesign /wearables
Hospital discharge	OT first assessment
Carers and Dementia	Promoting independence
Mental Health Services	Prevention, self management, education
Cancer	Rapid Diagnostics
Stroke	High intensity digitally prescribed rehabilitations programmes to compliment and accelerate recovery
Wearables	Understanding behaviours and service planning
Predictive data services	Understanding behaviours and service planning





# Ageing well with technology



Image courtesy of BU PIER Partnership

Ideas/The virtual teaparty/ the hologram GP/ ALEXA health companions  
Putting people and partnerships at the centre of our plans are essential – next  
steps are to consider the changing roles for healthcare workers

# DORSET'S DIGITAL FUTURE

a Smart Rural Place

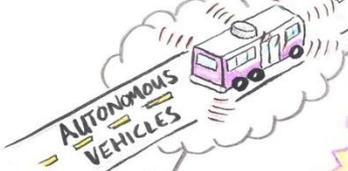


MODERNISE LEARNING

- USE VIRTUAL REALITY TO AID LEARNING
- SOFT SKILLS TAUGHT ALONGSIDE DIGITAL

- KEEPING OLDER PEOPLE UP TO SPEED
- VIRTUAL LEARNING
- ONE TO ONE

GIVE DIGITAL KNOWLEDGE TO PARENTS TO HELP CHILDREN



AUTONOMOUS VEHICLES

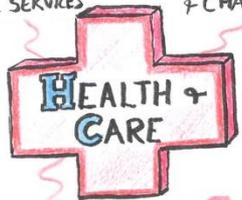
SUSTAINABLE COMMUNITIES

ENVIRONMENT

SMART WASTE

- ★ SCAN PRODUCTS TO KNOW HOW TO RECYCLE
- ★ UNDERSTAND DEMAND AT PURCHASE

- RETAIN SKILLED YOUTH
- DELIVER LOCAL OPPORTUNITIES
- EXPLAIN LOCAL INDUSTRIES IN SCHOOLS



RADICALLY REDESIGNED SOCIAL SERVICES

COMMUNITY OF DIGITAL LEADERS & CHAMPIONS



CHANGE IN ATTITUDE

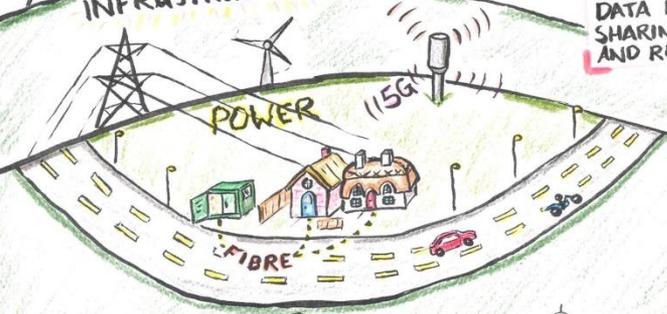
INNOVATION FRIENDLY

CREATING THE RIGHT SPACE FOR COLLABORATION

ECONOMIC GROWTH

HOT DESKS & HUBS IN THE COMMUNITY

IMPROVED INFRASTRUCTURE



FARMING USING CLEAN TECHNIQUES & SHARING INFORMATION ABOUT THE ENVIRONMENT

