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CSSG Operational Group and Regional Care Leads
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Scotland’s Innovation Centres

Innovative sensor and imaging solutions. Reducing risks, costs and time to market for industrial applications.

Building the Future: Blending industry demand driven challenges with world-leading academic expertise to supercharge growth across the construction sector in Scotland, through a mixture of collaborative R&D, explorative new technologies and disruptive innovation, creating global opportunities for local companies.

The Data Lab, Unlocking Value from Data

Constructively disrupting health and care provision through innovating the right products and services and establishing a new digital health economy for Scotland.

Bio-based solutions for the chemical, life science and energy industries – Led by Industry for Industry

Delivering a University matchmaking service and providing access to innovation funding for the entire oil and gas supply chain.

Industry success through research partnerships: driving applied research to boost the long-term economic benefits of farmed fish, shellfish and aquatic plant life.

Right patient right drug, right time. Applying genomic medicine to the NHS and Pharma/bio clinical development.

Constructively disrupting health and care provision through innovating the right products and services and establishing a new digital health economy for Scotland.
Knowledge - DHI Phase 1

- 1000+ Members
- 63 project partners
- £2.4 Grant Awards
- £3.7m In-kind contribution
- 5000+
- 105
DHI Focussed Themes

Theme 1 Wellness Services
(Supporting co-management, building trust in distributed data)

Theme 2 Living Well in the Community
(Predictive analytics driven home care)

Theme 3 Unscheduled Care Decision Support
(Supporting the best possible decisions)

Bridge gap between consumer technology & H&C systems & services to improve outcomes.
Health & Care Drivers for Change

Public Finances
Aging Population
Health Inequalities

Multiple and Chronic Conditions
Reduce Avoidable Admissions
"The future is digital"

The Scottish Government eHealth strategy is expected to make a “truly transformational contribution to the way health and care professionals work and to how patients access safer, more person-centred and more effective health and care services” by 2020.

-Scottish Government, 2015
In 2016, ca 203,200 people were employed within social services in Scotland = 7.8% of all workforce.
Changing conditions for work – Changing skills requirements for staff

The world of digital health in numbers

- Consumer IT
  - 43,000 medical apps are now available on iTunes
  - 71% of all UK citizens had a smartphone
  - 88% of adults used the internet
  - The average adult spends almost 2 hours a day online on a smartphone
  - 33% of users see their smartphone as the most important device for going online

- 50% of the UK population use the internet for self-diagnosis, while 75% search the web for health information
- But only 2% of the population report any digitally enabled transaction with the NHS

Image: Imison et al., 2016
Changes in health and care data:

- Increasing amounts and types of data
- Automation
- New practices needed for handling and governing data – what will these be like?
- How will the influx of data impact day to day work of health and social care workers?

Image: Imison et al., 2016
Digital skills crisis?

- 16.5 million people in the UK without appropriate skills to become digital workers (ECORS 2016, 25)
- Training and education are the key solutions to this problem, but the training levels have remained static since 2013 (UKCES 2016).
What can the college sector do?

Prepare the workforce for the future by ensuring that all students are digital-ready – able to pick up and use new technologies, and work within digitally enabled services as part of their daily practice as and when these are made available to them.
What can the DHI offer:

• Promote “digital-preparedness” of health and social care staff by endorsing and supporting core digital skills training in Scotland

  • Investigation of the core digital skills training provision under way.
  • Investigation of emerging skills gap within the work force forthcoming.
  • DHI could support curriculum development at colleges, and facilitate the creation of modules in collaboration with relevant stakeholders, if necessary. E.g. Core digital skills for social work by Skills for care
  • DHI can deploy these skills modules at scale as part of on the ground innovation work in health & care environments.
Thank you for listening!

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