

social care institute for excellence

### Webinar: Digital innovation in Scotland

# Showcase webinar from the Social Care Institute for Excellence

#### 30 August 2023









### Your panel

- Chair: Gerard Crofton-Martin. SCIE
- Sammi Allan. Project Manager at Technology Enabled Care
- Nicola Cooper, Technology and Digital Innovation Lead, Scottish Care
- Nicky Cronin, Senior Improvement Advisor, Care Inspectorate and Nicola McCardle, Senior Improvement Advisor at the Care Inspectorate
- Ruth Callander, Evidence Programme Lead, Scottish Commission for People with Learning Disabilities.





## Digital Health & Care Social Care Programme Sammi Allan

### **Policy context**





Aim 1: Citizens have access to, and greater control over, their own health and care data – as well as access to the digital information, tools and services they need to help maintain and improve their health and wellbeing.

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Aim 2: Health and care services are built on people-centred, safe, secure and ethical digital foundations which allow staff to record, access and share relevant information across the health and care system, and feel confident in their use of digital technology, in order to improve the delivery of care.



Aim 3: Health and care planners, researchers and innovators have secure access to the data they need in order to increase the efficiency of our health and care systems, and develop new and improved ways of working.





Ethical Approaches to Data

### **Digital Social Care team**





Project Manager, Technology Enabled Care Programme



**Ruth Callander** 

Evidence Programme

Commission for People

Lead, Scottish

with Learning Disabilities (SCLD)



Calum Campbell

Digital Social Work

Policy and Practice

Scotland

Advisor, Social Work



**Fiona Campbell** 

Digital Social Care &

Support Officer

Digital Inclusion, Project



Nicola Cooper

Innovation Lead

(Scottish Care)

Technology and Digital



#### **Nicky Cronin**

Senior Improvement Advisor, Care Inspectorate

#### Megan Williams

Policy Programme Lead CCPS



Social Care Lead/Telecare Lead

**Rikke Iversholt** 

### **Programme principles**

- Creating conditions and foundations to foster innovations and drive forward local deployment and growth to facilitate transition to routine
- Cross sector leadership/collaboration and coordination with national delivery partners
- Once for Scotland Approach driving efficiencies, national models, procurement, knowledge exchange and evidence
- Supporting cross sector excellence/expertise building capability.





### THE FUTURE OF CARE C/O SCOTTISH CARE Prestwick KA9





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Ageing Better. (2022). Age Positive Image Library [Online]

### WHAT DOES OLDER AGE LOOK LIKE?

HOW WE IMAGINE OLDER AGE IMPACTS ON HOW WE DESIGN AND PROVIDE FOR IT



### EXPECTATIONS ARE CHANGING.... NHS & SOCIAL CARE ARE 75 YEARS OLD



**UN projection** 



Health inequalities worsened in last 10 years

20 year gap between years of good health in most and least deprived areas, 48.2 years and 72.3 years respectively

Public Health Scotland, 2023



1 million people in Scotland are unpaid carers

1 in 4 over the age of 50



#### DID YOU KNOW?



The majority of people in Scotland over 18 with long term care needs receive care at home, in comparison to care homes & hospitals.

#### DID YOU KNOW?



This means that

2%

of Scotland's population receive homecare.

estimated amount people of any age who receive homecare in Scotland.



#### NHS in Scotland 2022, Audit Scotland, 23rd February 2023

Workforce capacity is the

biggest risk to NHS

recovery

There's been a 17 per cent rise in people who can't leave hospital because often the social care they need is not available 351 local people in Dumfries & Galloway awaiting 3222 hours of assessed social care at home, as of 27th Feb 2023

### A BURNING PLATFORM.... UNMET NEED+ RECRUITMENT & RETENTION

25% leave within 3 months 33% in first year

# DOING THINGS DIFFERENTLY

### **OUR APPROACH**

the Design Council's Framework for Innovation

#### Put people first.

Start with an understanding of the people using the service, their needs, strengths and aspirations. Communicate visually + inclusively.

Help people gain a shared understanding of the problem and ideas. Collaborate + cocreate.

Work together and get inspired by what others are doing. Iterate, iterate, iterate.

Do this to spot errors early, avoid risk and build confidence in your ideas.











### .....what we did

#### The Care Technologist

Specialising in facilitating the interactions between assistive technology, people drawing on care and support, and the wider care team in order to provide meaningful and personalised support.

#### **Care Connector**

Specialising in facilitating meaningful relationships - both physical and digital for people drawing on care and support at home and supports service users to work toward their aspirations and goals.

#### FUTURE WORKFORCE ROLES

#### **Care Navigator**

Specialising in coordinating the multidisciplinary care team through gathering, making sense of and organising different flows of data in order to provide responsive, personalised and relationshipbased care at home.



### .....what happened



### .....what happened

#### The Care Technologist

Specialising in facilitating the interactions between assistive technology, people drawing on care and support .....enables greater independence, flexibility and choice for service users as a result of care and support needs being assessed and delivered *differently*.

- Conversation about what's important
- Tech and digital as a choice
- Optimising existing tech
- Layering in new tech
- Bringing tech together in recipes e.g. morning routine; medication reminders; home automation; environmental monitoring; AI and data analytics
- 5-6 home visits and/or calls



.....what a CT does















Olivia starts her day around 6am, she is an early riser. It's still dark outside so the light is on and is slowly becoming brighter. She enjoys the sounds of her favourite playlist. As the blinds open she stretches and begins a guided yoga session with Adrian, which she does by her bedside. She goes to the kitchen when the smell of coffee floats through. The radio is on and she catches up on the news before being reminded of what's in her calendar for the day. She's not sure if she's hungary or even if she's eaten yet, but when the doorbell rings she goes to the door to find warm scrambled eggs with a side of vitamins and her medication, and she sits down to eat. There's another reminder and an update on the weather forecast - dress warm it's a little cold out. Olivia is going to meet friends. The hallway from the kitchen to the bedroom doesn't get much light but the sensors pick this up, so it's never too gloomy and in fact the lights seem to know that she'll visit the bathroom first, as they come on in there as well. Mila from the hub calls to check in. She helps Olivia pick out an outfit and sensible boots in case it's icey. She also reminds Olivia to make sure her wearable is charged and that she has it on. A vehicle will be along for her soon.

That evening, when Olivia returns, her home is warm and welcoming, and her streaming service is playing the show she likes. She can't explain why, but she doesn't settle and her mood is low. She drops in virtually on her daughter in New Zealand and they chat about the grandchildren, making Olivia feel brighter. Her son calls to talk about her appointment tomorrow - it's nothing to worry about he says, just a check up because there's been a change in her sleep pattern and visits to the loo. Olivia isn't sure she likes being told this but looks forward to seeing him anyway. She is satisfied that this small concession means people worry less about her and she gets to stay where she is, she isn't ready to give up her independence, not yet. There are mixed, often low levels of digital literacy in the front line roles.

Attitudes to technology are mixed with some concerned that technology will replace jobs.

Embedding the Care Technologist in the multidisciplinary team is challenging and takes time.

Workforce churn diminishes the ability to establish workplace Digital Champions to support the transformation.

## challenges

Most independent homecare providers are SMEs and struggle to have an equal voice in health and social care partnerships.

Lack of parity with roles in health and a career structure.

Complex commissioning landscape.

Complexity of accessing Self Directed Support.

Enabling the delivery of care and support in remote and rural areas where there is a limited workforce to draw on, and in areas of deprivation where demand for care packages is high.

Potential to reduce hours of unmet assessed need and support prevention, early intervention and reablement.

Some benefits were seen around the growing need for mental health support in the community, which technology helped with and could relieve carer burden to some extent too. Choice, flexibility and greater control for service users as part of a human rights-based model of care.

Attracting a more diverse workforce, potentially adjusting gender balance – currently 77% of care at home workforce is female.

Sustainable services and businesses, less vulnerable to workforce shortages, energy price increases etc.

benefits



### POSTCARDS FROM THE FUTURE

for a sustainable model of integrated care



### EVERYONE CAN BEN FROM TECHNOLOGY & HAS ACCESS TO A SKILLED PRACTITIONER WHO CAN HELP





### INTEGRATED TEAMS USE DIGITAL, DATA & TECHNOLOGY TO GET CARE & SUPPORT RIGHT FOR EVERYONE



### DO YOU WANT TO DO THINGS DIFFERENTLY?

**GET IN TOUCH** 

Nicola Cooper, Technology & Digital Innovation Lead nicola.cooper@scottishcare.org

@digitalme\_NC @CareTech\_Scot

#### PainChek

- The use of innovative technology aligns with the Scottish Government Digital Approaches in Care Homes Action Plan and National Dementia Strategy
- PainChek<sup>®</sup> is an app which uses artificial intelligence (AI) technology and smart automation to assess pain in people who are unable to verbalise pain
- This improvement project aligns with the Cl's strategic outcom care for all and improved outcomes for all; and with the pillar distribution



- As a person's dementia progresses the prevalence and inter increases whilst their ability to express pain diminishes
- Pain is often under-recognised and undertreated in people cognitive impairment
- In care homes up to 80% of people with dementia regularly experience pain

### What is PainChek?

PainChek<sup>®</sup> is an app which uses artificial intelligence (AI) technology and smart automation to assess pain in people who are unable to verbalise pain







Scoring Domains

- Facial analysis
- Behavioural
- Activity
- Voice
- Movement
- Body

#### PainChek: Ease of use

The number of staff competent to complete pain assessments increased from 9 to 27 with assessments now being seen as the responsibility of the wider care team

Baseline data highlighted 0 documented pain assessments; 831 pain assessments completed in the 6 months since PainChek<sup>®</sup> introduced (median of 135 assessments per month)

Median of 100% of residents now have had at least one pain assessment per month



#### PainChek: Medication

Analgesia 22% reduction in prescribed rate

#### Laxatives

24% reduction in prescribed rate

#### Other psychoactive medications

No significant changes - low prescribing rates

#### PRN (when required) medications

- 4 people who had prn analgesics prescribed and used in both baseline and test periods in each case the rate of use was significantly changed in test period. The average change was 51%
- 4 people who were prescribed but rarely given prn analgesia in baseline period. In each case the pain scores at the start of the test period indicated low or no pain, and the analgesia was discontinued



### Impact: Quality of life

#### Falls

Initial reduction (first 12 weeks) of 75% Overall reduction (24 weeks) of 42%

#### Stress and distress

Initial reduction of 42% Overall – no change

#### Body Mass Index (BMI)

Half of residents had an increased BMI at end of project

#### Dependency

Half of residents had a reduced dependency score at end of project



#### Case Study – Resident A



Average PainChek Score History Feb 2022-Jan 2023 ()



Baseline Period	Test Period
6 stress and	4 stress and distress incidents in 24
distress incidents	weeks
in 12 weeks	

### Key learning from Phase 1

- The impact of sector challenges
- Current practice around pain assessment
- The benefits of digitally maturity



- GP engagement where pain assessments inform prescribing
- Relationship building throughout the project

#### Phase 2

Upscale the use of PainChek to test in different contexts



- Test in different user settings, service types, user groups and geographical locations.
- User groups: Adult learning disabilities, older adults not requiring nursing care, adults with substance dependency, adults with autism and adults with mental health conditions
- Service types: Local authority, independent providers, and voluntary sector

#### Phase 2 Service Engagement stage



- Working closely with the Care Inspectorate's scrutiny teams to identify services
- Early engagement with services, GPs, social work and inspectors
- Engagement webinar and on-going in person support
- Monthly data review to identify when additional support may be required
- When required in person support from the project team throughout phase 2

#### Phase 2 – timeline

- Phase 1 Identification and agreement from services. September 23
- Phase 2 Training and onboarding rolling programme October to March 2023
- Phase 3- Live test period November 23 to September 24
- Phase 4 **Reporting** Reporting throughout the duration of the project
- Phase 5 Evaluation and key learning







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