



Enhanced Care for Older People Learning Session Number 18

Technology Enabled Care Services (TECS): how this supports independent living & healthcare

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En COP

Enhanced Care for Older People

EnCOP Lead: Lynne Shaw Date: Wednesday 24th May 2023





Housekeeping

- Please ensure microphones are muted and during presentation cameras are turned off.
- The event will be recorded and shared.
- The webinar recording and presentation will be circulated and uploaded on to the website following the event.
- If you have any questions during the session then please use the chat facility. We will attempt to address questions, if we can't then we will follow up after the event.
- Please also use the chat facility to inform us of any technical issues as this will be monitored closely throughout by one of the EnCOP team.
- Occasionally you may have difficulty seeing or hearing video clips that are played, this will usually be due to your own device or software settings and not something we can influence during the webinar session. Please be assured all content will be shared following the event so you will have an opportunity to view afterwards.
- If you need to take a break at any time throughout the session please feel free to do so.

Session Aim & Linked Competencies

Aim: To enhance awareness regarding how TECS can enhance health, wellbeing, independence and autonomy for older people and support improved coordination of care

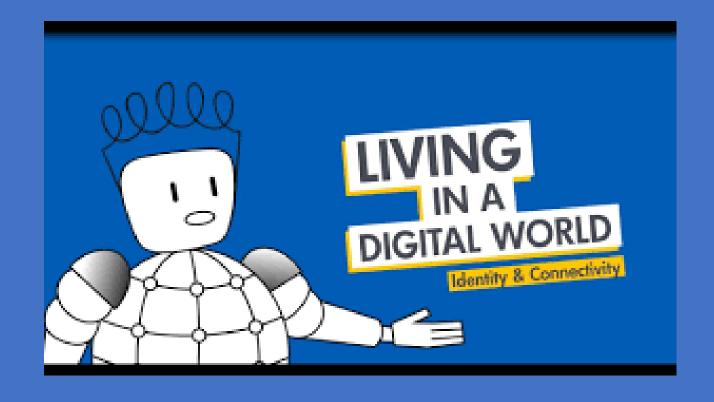
	Domain A: Values, Attitudes and Ethical Practice
	Domain B: Evidence Based Care: Supporting learning, leadership and improving care for older people
	Domain C1: Partnership working and communication with older people, families and others
Linked EnCOP Domains:	Domain C2: Interprofessional and interorganisational working , communication and collaboration
	Domain D2: Ageing Well: Assessing, planning, implementing and evaluating care and support with older people
	Domain D3: Ageing Well: Promoting and supporting independence, autonomy & community connectivity for older people
	Domain D4 : Ageing Well : Promoting and supporting holistic physical health and wellbeing with older people
	Domain D5: Ageing Well: Promoting and supporting holistic psychological health and wellbeing with older people
	Domain D6 : Ageing Well : Promoting and supporting older people with medicines optimisation



Technology Enabled Care Services (TECS): how this supports independent living & healthcare

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Digital capability of the health and care workforce







Existing frameworks and frameworks in development: https://digital-transformation.hee.nhs.uk/building-a-digital-workforce/digital-literacy/digital-capabilities-frameworks

Domains of capability

- 1. Communication, collaboration and participation
- 2. Teaching, learning and selfdevelopment
- 3. Information, data and content literacies
- 4. Creation, innovation and research
- 5. Technical proficiency
- Digital identity, wellbeing, safety and security.

A challenge: Self assess your digital capability

4 levels of capability file:///C:/Users/ihgc1/Downloads/ A-Health-and-Care-Digital-Capabilities-Framework%20(1).pdf

If you assess your digital capability plan how you intend to enhance your competencies





What are Technology Enabled Care Services?

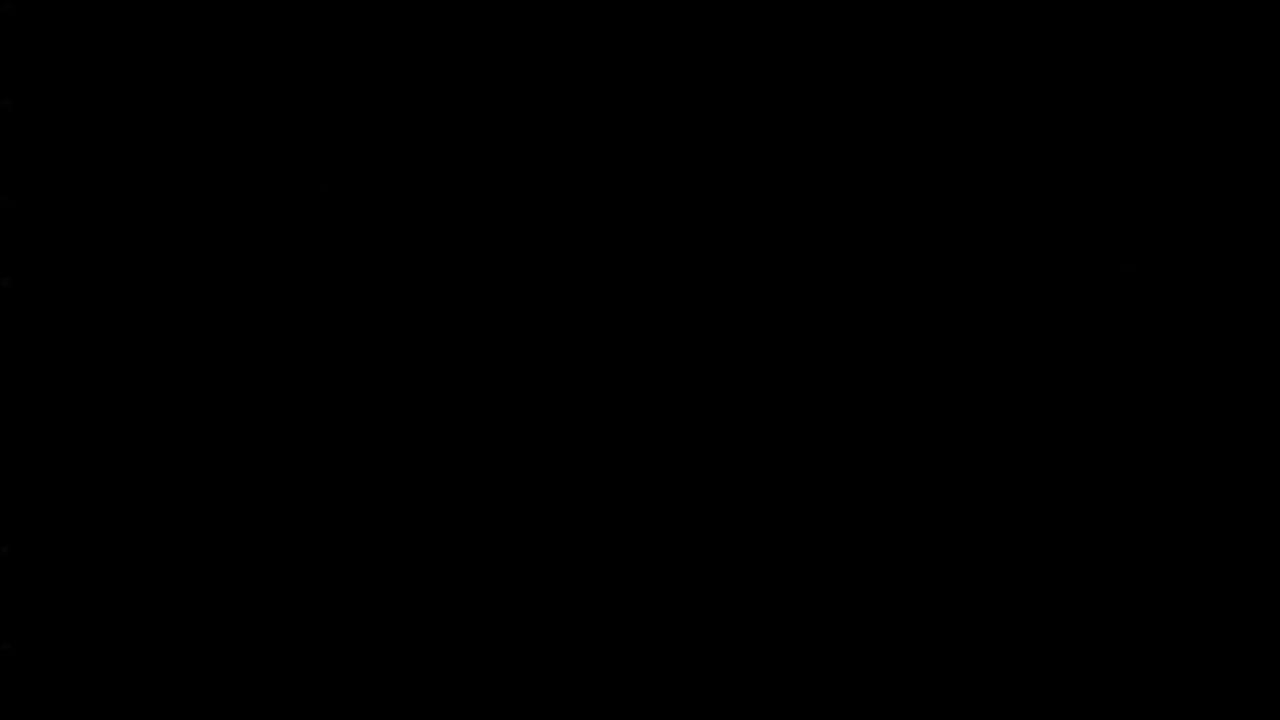
Technology enabled care services refers to the use of telecare, telehealth, telemedicine, telecoaching, self-care technologies (including apps and wearables), smart home technologies in providing care for patients with long term conditions, disabilities, cognitive and sensory impairment:

- supporting people to manage their own health
- supporting informal and professional carers
- enabling better coordination of care
- personalisation of care
- preventative care.

How TECS can provide support



https://www.youtube.com/watch?v=bRO3Uar6wLo





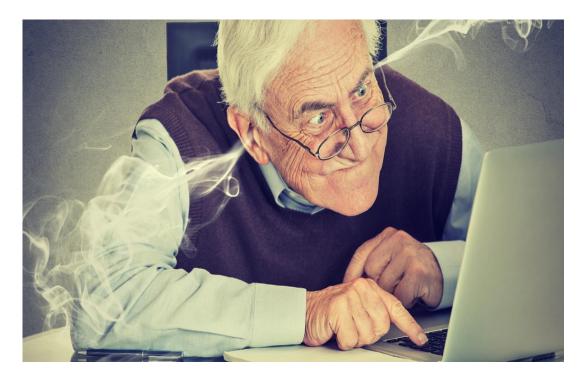
Telecare products, devices and services

- There are many TEC services and the range of TEC is growing exponentially:
 - Personal telecare alarm pendant (worn round the neck or as a wristband)
 - Alerts and activity monitoring sensors –
 'passive telecare' sensors around the home
 (e.g. falls detector, door sensor, epilepsy alert)
 - Environment alerts sensors around the home (e.g. flood alert, CO2 monitor)

Knowing what TEC services exist

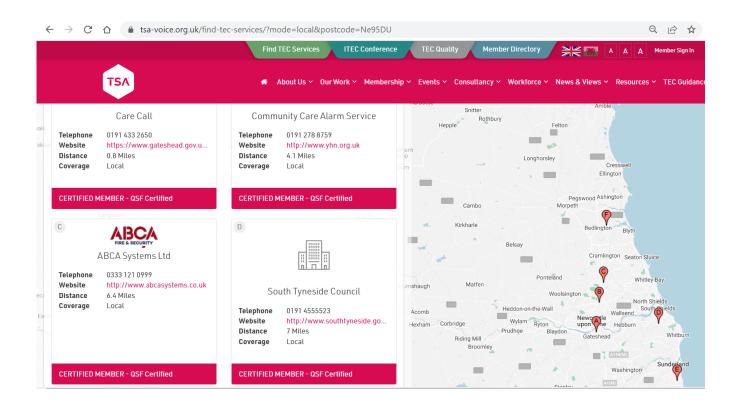


Confusion and frustration



How to access

https://www.tsavoice.org.uk/find-tec-services/

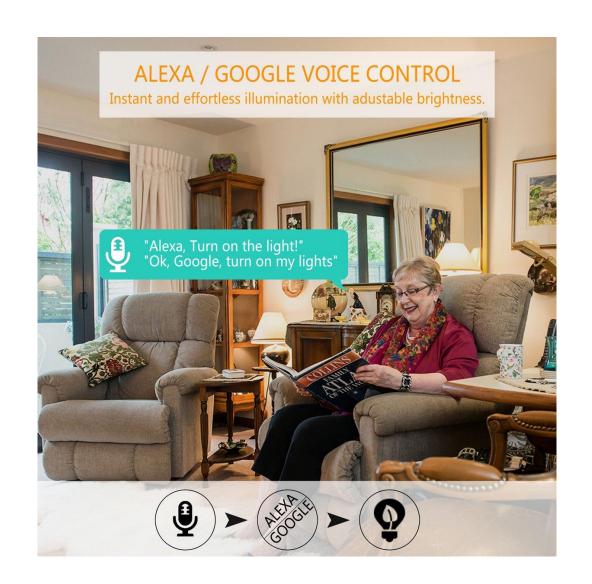


A role for health and care professionals to advise patients how to find out what TEC services exist in the area they are working in

SMART technology is the new revolution in TECS

Cook, G., Holmquist, L.H., Salai, AM., Courtney, L., Stephanou, N. (2020) Personalised everyday technologies to support independent living. RCOT Housing section.

https://drive.google.com/file/d/1kax GMhGYAH4iYW2G40o7F HDa2hgrOJ x/view?usp=sharing



Categories of use cases for smart tech

- **1.Home Automation** automating the house based on sensors (e.g. sound, light, humidity, temperature, and motion) and use of appliance (e.g. fridge, kettle, microwave, and toothbrush) data.
- **2. Skills Maintenance and Development** supporting individuals to maintain and develop skills such as personal care (e.g. nutritional support, planning to dress appropriately for weather), keeping in touch with others, engaging in interests, and activities (independent studying, shopping), and maintaining environmental hygiene (taking out the bins).
- **3. Prompts and Reminders** providing alerts to support individuals to complete routine tasks or activities such as making a telephone call, attending an appointment or event.
- **4. Behaviour and Environment Monitoring** providing supporters, and health and care professionals, access to personal activity and household data.
- **5.Leisure and social interaction** using multimedia and devices to provide access to leisure and entertainment sites; also enabling keeping in touch with others.

Demonstrations of SMART technology to support:

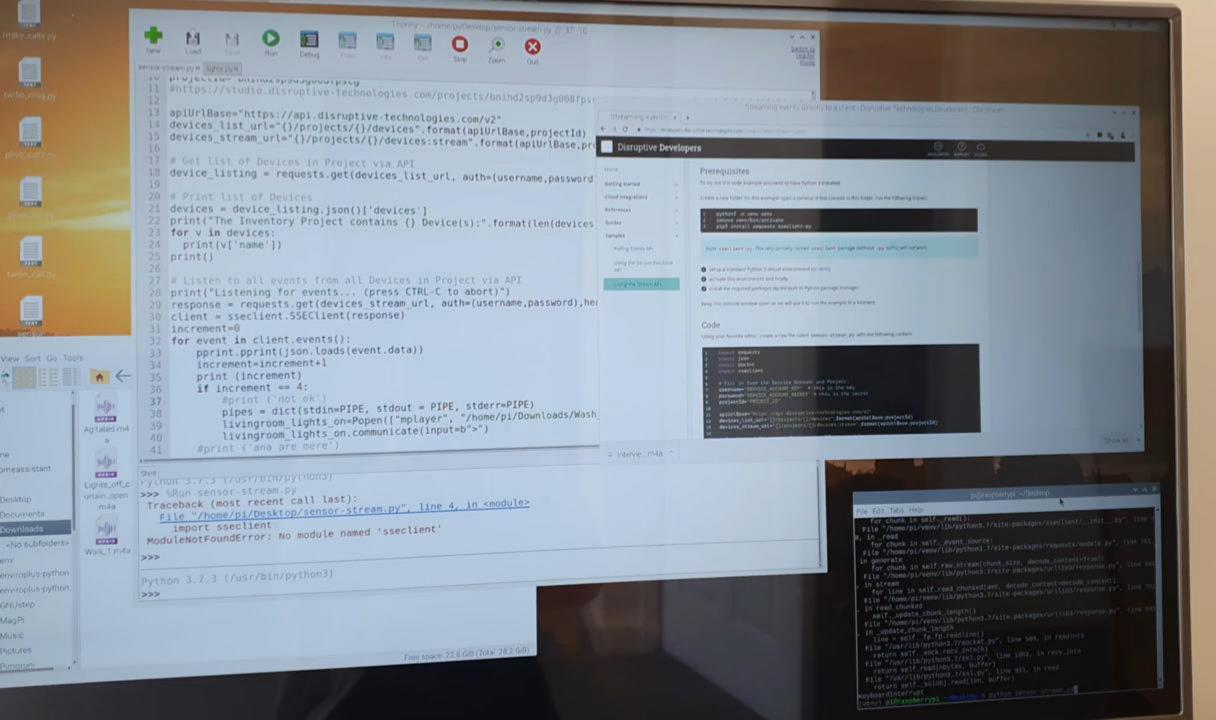
Prompting and reminding:

Here is a demonstration of the use of sensors/IntraVox and Alexa to provide a reminder to wash hands after going to the toilet:

www.youtube.com/watch?v=L8ij3aJCOdo







Demonstrations of SMART technology to support:

SMART buttons can be linked with video clips to support individuals to **develop or maintain skills**:

https://www.youtube.com/watch?v=X2MqOtitcBo









Carers and Professionals experiences of Smart TEC

Alex Kirton - PhD Student — Northumbria University Background in Social work

Methodology

- Qualitative individual interview sequence with 2 carers of older people with cognitive impairments
- focus group interviews with 3 social workers and 5 occupational therapists who use smart assistive technology as part of a package of care at home
- 9 carers for a PWCI and do not currently use smart technology as part of a package of care
- focus group interviews with 4 social workers and 7 occupational therapists who do not use smart assistive technology as part of a package of care at home

What I found out:

Positives

- Supporting carers to care.
- Alleviating caring burden.
- Supporting ageing in place.
- Data reveals the need.

Negatives

- Digital exclusion
- Digital limitations.
- Increased confusion.
- Familial impact.



Where do we go from here?

Implications for practice

- Proliferation of smart homes.
- Local authority interest.
- Intergenerational differences.
- Supporting families gatekeepers.
- Does play a role in supporting people to stay at home.





TECS & public health

NHS app: https://www.nhs.uk/nhs-app/

Available to all 13+

Requires smart phone or tablet for use

Patients in England to be asked to use NHS app to book private hospitals

Proposal is part of government's plan to reduce waiting lists, but experts say choice is already available

Denis Campbell Health policy editor

Mon 22 May 2023 16.22
BST

| Mon are you feeling today?
| To access your MHS services |

□ Under the new plan, patients could see how long they would have to wait for NHS and private hospitals. Photograph: Kirsty O'Connor/PA

https://doi.org/10.1016/j.com/society/2023/may/22/patients-england-nhs-app-book-private-hospitals-backlog-waiting-lists

Enables access to a range of services

New features and functionality

Is there a digital divide?

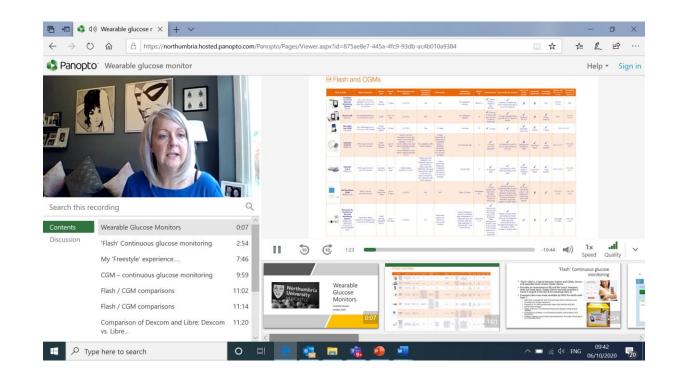
Wearable glucose monitors

Charlotte Gordon

Assistant professor

Northumbria University

https://northumbria.cloud.panopto.eu/Panopto/Pages/Viewer.aspx?id=396efc60-aee3-461c-9d65-af0800f18bd3



Whilst Covid-19 is ramping up telemedicine are some patients missing out?

Chang et al. (2021) Rapid Transition to Telehealth and the Digital Divide: Implications for Primary Care Access and Equity in a Post-COVID Era. The Millbank Quarterly. 99(2): 340–368. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8209855/

Majeed, A., Maile, E.J & Coronini-Cronberg, S. (2020) Covid-19 is magnifying the digital divide. BMJ opinion

https://blogs.bmj.com/bmj/2020/09/01/covid-19-is-magnifying-the-digital-divide/

Is there a digital divide in primary care?

Benefits of virtual consultation in primary care?

Disadvantages of virtual consultation in primary care?

Rethinking TECS in care homes



RITA stands for Reminiscence Interactive Therapy Activities and is an all-in-one touch Screen solution which offers digital reminiscence therapy which is a relatively new tool in the fields of nursing and healthcare; it encompasses the use of user-friendly interactive computers and tablets to blend entertainment with therapy and to assist patients (particularly with memory impairments) in recalling and sharing events

- https://www.myimprovementnetwork.com/my-name-is-rita
- https://www.myimprovementnetwork. com/rita-in-the-press

https://www.nhs.uk/NHSEngland/keogh-review/Documents/quick-guides/quick-guide-technology-in-care-homes.pdf

Summary

- TECS have the potential to transform the way people engage in and control their own healthcare, empowering them to manage it in a way that is right for them
- Though there are benefits arising from use of TECS to patients, carers, health and social care professionals, TECS should augment care not replace human care
- There are challenges and barriers in the implementation and use of technology within care
- It is important that health and care professionals are aware of what TEC services and devices exist in their localities and how to access those services or refer patients and their carers to those services
- TECS need to be considered across all areas of practice and the infrastructure (such as WiFi) should be available to support the use of TECS.

A challenge: Self assess your digital capability and continue to keep abreast of TECS developments





Health Tech Network: https://htn.co.uk/htn-events/

Digital capability assessment: file:///C:/Users/ihgc1/Downloads/A-Health-and-Care-Digital-Capabilities-Framework%20(1).pdf

NHS Scotland: Https://tec.scot/programme-areas/near-me

Carers UK: https://www.carersuk.org/help-and-advice/11-help-advice/4819-technology-care-services

TEC explainers: https://www.tsa-voice.org.uk/campaigns/tec-explainer-films-resource-for-social-care-workers/

TEC stories: https://www.tsa-voice.org.uk/campaigns/telling-the-tec-story/tec-stories

<u>Telecare products, devices and services: https://www.tunstall.co.uk/our-products/product-catalogue/</u>

Thanks



Ideas for Learning Consolidation & Competency Conclusion

Consolidating Learning:

Reflection on the session & considering application to practice & what this means 'your people'

- Think about this session in relation to your own role
- · How much of this was revision?
- What have you learned today?
- How will this help you in your role?
- Think about your EnCOP self-assessment; consider which performance indicators this session may relate to and how this can be used as part of your own development / competency achievement.



A: Values, Attitudes and Ethical Practice

B: Evidence Based Care : Supporting learning, leadership and improving care for older people

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Feedback about today's session and any future sessions you may like to see included in our webinar series....

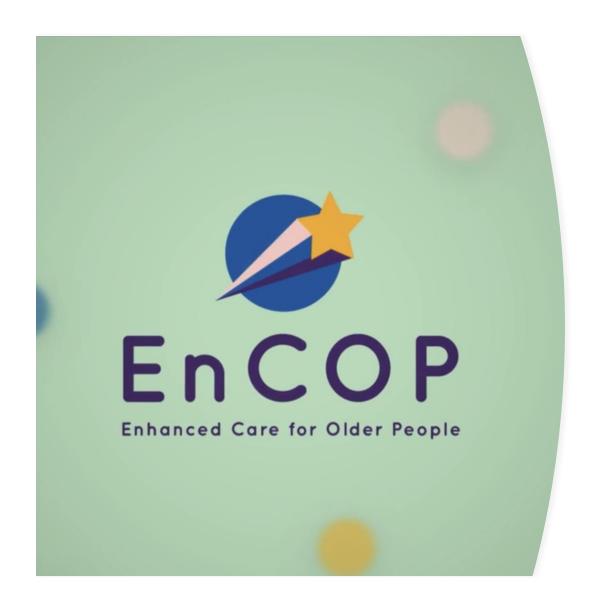
All feedback welcomed; You may want to consider the following -

Was it easy to book onto the session?
Did you find the session went well in this online format?
Was the content of the session relevant to your area of practice / job role?
Did you enjoy the session?

Thinking about future webinar's, which topics linked to older person's care would you be most interested in? Please put any suggestions in the chat.

Please comment in the chat today or feel free to email us: ghnt.encop@nhs.net







More information can be found within the Frailty icare website

www.frailtyicare.org

Our EnCOP pages are located in the workforce section

EnCOP Library of Learning & Development Resources can be found at:

http://frailtyicare.org.uk/making-ithappen/workforce/enhanced-care-ofolder-people-with-complex-needsencop-competency-framework/encoplearning-resources/learning-resources/

