

### December 2016 Newsletter

## Welcome

Welcome to the December 2016 newsletter from the Telecare Learning and Improvement Network.

Our news service has been available since October 2005. Our Housing LIN and Telecare LIN membership database exceeds 40,000 people from around the world.

From January 2016 we are now back with a monthly Telecare LIN roundup as well as maintaining weekly headlines together with daily news via Twitter (follow @clarkmike and #TLINnews).

As in the past, we will be continuing to bring you an extensive curated coverage of digital health and technology enabled care references from the UK and around the world including telehealth, telecare, mobile health, telemedicine, ehealth, smart home technologies and Internet of Things. We will also be including more in the future on health informatics (including electronic health and care records), big data, artificial intelligence as well as health and care robotics.



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## 1 Main News Items

## 1.1 Digital Health and Social Care Strategy in Scotland

The Scottish Government is developing a new, integrated Digital Health and Social Care Strategy that will build on achievements to date and set out future development and priorities. More information and opportunities to comment are <u>available</u>.

A new <u>literature review</u> covering 'Digital Exclusion and Technology-Enabled Care (TEC)' has also been published.

It provides a review of the current literature on the use of TEC in the provision of care and support to older people and disabled adults, with a focus on these populations within Scotland.

The review is presented in two parts. The first looks at the evidence relating to the need for this technology, the second to the evidence of the effectiveness and cost effectiveness of this type of TEC. It concludes with a summary of the findings and research gaps.

The Scottish Centre for Telehealth and Telecare has produced a new **<u>guidance document</u>** on Home and Mobile Health Monitoring to help inform Health and Social Care services in Scotland.

The aim of the document is to support the redesign of services using technology to provide better outcomes for citizens, while achieving productivity and efficiency gains.

It is the first of a suite of guidance documents that can be accessed as modules. Each will be published on the <u>SCTT</u> website where they will be routinely updated to reflect ongoing developments and learning.

The contents include:

- An Introduction to Home and Mobile Health Monitoring
- The Case for Adoption in Scotland
- National Service Model Framework
- Enabling the Delivery of Home & Mobile Health Monitoring Services at Scale
- Developing and Refining The National Service Model

# 1.2 New from the Nuffield Trust - The digital patient: transforming primary care?

The digital patient: transforming primary care? from the Nuffield Trust reviews some of the evidence that exists on digital technology and its impact on patients in primary care and the NHS.

It explores the impact of seven types of digital services offered by the NHS:

- Wearables and monitoring technology
- Online triage tools
- Online sources of health information and advice, targeted interventions and peer support

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- Remote consultations
- Online access to records and care plans
- Apps

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The report warns that policy-makers and politicians should avoid assuming that self-careenabling technology will produce significant savings, at least in the short term.

The report also presents a series of lessons and recommendations to NHS professionals, leaders and policy-makers about how best to harness the potential of technology and avoid the pitfalls.

## 2 News Headlines

This section includes a selection of links compiled over the last month under five headings.

# 2.1 Telecare, Telehealth, Mobile & Digital Health, Telemedicine

AMA approves list of guiding principles for digital health tools - via MobiHealthNews

Are wearables on the decline or poised for a comeback? - via MobiHealthNews

Carer on demand' service launched - Cera - via digitalhealth2

Digital Health and Care Congress 2017 - last day for submissions - 9 Dec - via TheKingsFund

Discount Apple Watch offered for health data (UK health insurance) - via digitalhealth2

How a Digital Health Advisor Could Help High-Need, High-Cost Patients and Their Caregivers - via <u>commonwealthfnd</u>

How do we bridge the gap between telehealth and telemedicine? - via medcitynews

Medtronic, Fitbit partner to integrate data from CGM device, activity tracker into one app - via <u>MobiHealthNews</u>

Most mHealth apps aren't effective for chronic conditions - via FierceHealth

One Drop is revolutionizing diabetes care through an app - via mashable

Shona Robison MSP launches programme for web-based video consultation for h'care appointments - via <u>SCTT\_NHS24</u>

Telehealth helping practitioners to share real time expertise from Sumatra to Somaliland - via guardian

Telephone GP consultations show promise. Less tangible benefits for video - via digitalhealth2

These Five User Types Are Key to Boosting Mobile Adoption in Healthcare - via <u>SamsungBizUSA</u>

Too many mental health apps put style over substance - via MashableUK



U.S. survey: Consumers embrace digital healthcare more than insurers - via iHealthMgmt

Welcome to the revolution ... of digital healthcare - via NewStatesman

Who's listening? The ethical and legal issues of developing a health app - via ConversationUK

Apple emails show possible plans for two FDA-regulated cardiac devices - via MobiHealthNews

From the U.S.: From futuristic to within reach: Telehealth gains steam in health care - via <u>DeloitteUS</u>

Given a jolt by the pacemaker... with a heart: device is able to detect emotions - via MailOnline

Handheld device for people with glaucoma wins £3k bursary at 'Patients as Partners' awards - via <u>HealthITCentral</u>

Heal raises \$14.8M for app-based house call service - via MobiHealthNews

Japan identifies people with dementia with QR codes attached to fingernails - via BBCNews

Medical Wearable Devices Strain Health IT Infrastructure - via HITinfrastruct

New sensor system predicts heart failure events before they occur - via penn\_state

Study: Many Mobile Health Apps Target High-Need, High-Cost Populations, But Gaps Remain - via <u>Study</u>

Wing - FDA-cleared, app-connected lung function monitor, now available to consumers - via <u>MobiHealthNews</u>

Comparing applets & oranges - Barriers to evidence-based practice for app-based psychotherapies – via <u>Study</u>

These Wearables Detect Health Issues Before They Happen - via techreview

A new brain health app from Neurotrack could warn users of memory decline - via TechCrunch

A National Service Model for Home and Mobile Health Monitoring - via SCTT\_NHS24

Berkshire Primary Care introduce a new smartphone app for patients on warfarin - via InHealthcareUK

First home-use implant allows ALS patient to communicate in everyday life - via medical\_xpress

In new study, Adherium's Smartinhaler reduces hospitalizations, exacerbations - via MobiHealthNews

Smartlists for Patients: The Next Frontier for Engagement? - via nejmcatalyst

Digital hub cuts care home referrals to GPs by more than a third - @AiredaleNHSFT - via <u>bmj\_latest</u>

Digital Exclusion and Technology-Enabled Care in Scotland – Literature Review - via CarnegieUKTrust

Five Public Health Needs for Digital Health Technology - via dlschermd

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Innovative health technology launched in Birmingham will revolutionise finding care at home - adam LIFE - via <u>adamLIFE</u>

Technology Enabled Care In Highland - via NHSHighland

# 2.2 Connected Care, Internet of Things, Smart Homes

China's LingLong launches DingDong smart home speaker - via BBCNews

From smart toothbrushes to cancer, Philips bets big on software - via Reuters

Verily launches Liftware Level, a smart spoon to counteract uncontrolled movements - via MobiHealthNews

Why is IoT not catching on faster in healthcare? - via <u>HealthITNews</u>

Microsoft's Home Hub ambitions aim to crush Google Home and Amazon Echo - via windowscentral

Opening new doors with technology for people with disabilities - via MicrosoftEU

Watchdogs say that what your child tells a "smart" doll is being recorded and monitored - via <u>qz</u>

### 2.3 Health Tech

AXA PPP Health Tech & You Awards 2017 - deadline 16 Jan 2017 - via 2020health

English outpatient cancellations at record high of 7.68m in 2015 - via guardian

Event: NIHR #MindTech2016 Mental Health Symposium 2016 - 8 Dec, London - via <u>NIHR\_MindTech</u>

How tech-enabled consumers are reordering the healthcare landscape - via McKinsey

How tech can help people with LTCs and Dementia across Lancashire and South Cumbria - via <u>LCIATestBed</u>

Many genetic conditions come with clues in a person's face - tech can help doctors diagnose them - via <u>techreview</u>

Meet the country that's ripping up the rules on health records - Estonia - via HSJnews (£ subs)

NHS cuts a deal with the Google DeepMind to scan medical records to find at-risk patients - via <u>CNET</u>

Oxehealth uses cameras to monitor your heartbeat from across the room - via TechCrunch

Partially-sighted Paralympian gets to see boyfriend clearly - assistive tech on BBC Click - via BBCNews

Why Don't You Use Technologies to Live Healthier? - via Berci

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Why it's dangerous to outsource our critical thinking to computers - via guardian

#WeAreNotWaiting: Diabetics hacking their health, because traditional systems have failed them - via <u>TechRepublic</u>

The debate continues about access to GPs and telephone/webcam triage - via MailOnline

The invention that helped me write again - via BBCNews

### 2.4 Robotics, AI and VR

Access to data will be the key enabler as artificial intelligence comes of age - via InformationAge

Artificial Intelligence and Life in 2030 - via Stanford

Babylon racing against Google/Amazon to build AI doctor - via theMemo

Big Life Fix: Bespoke watch for Parkinson hand tremors to help person draw and write again - via MailOnline

Duke study to evaluate use of virtual assistant in rehabilitation for total knee replacement - via MobiHealthNews

Google's AI can now lip read better than humans after watching thousands of hours of TV - via verge

Humanity and AI will be inseparable (Manuela Veloso, Carnegie, Mellon Univ) - via verge

In five years, machine learning will be a part of every doctor's job, Vic Gundotra (AliveCor) says - via <u>Recode</u>

JAMA Forum: Are Virtual Physician Visits About to Become Mainstream Medicine? - via <u>JAMA\_current</u>

JAMA Network: Translating Artificial Intelligence Into Clinical Care - via JAMA\_current

Opinion: Artificial intelligence is more artificial than intelligent - via WIRED

Our automated future - How long will it be before you lose your job to a robot? - via NewYorker

Robochops - on the road with a food-delivery droid - via guardian

Stanford researchers: Artificial intelligence is ripe for healthcare - via HealthITNews

Uber Bets on Artificial Intelligence With Acquisition and New Lab - via nytimes

Uber Buys a Mysterious Startup to Make Itself an AI Company - via WIRED

Uber launches artificial intelligence lab - via BBCNews

Will the future of #MedEd Be Learning From Machines or Teaching an Artificial Intelligence? - via <u>sherbino</u>

#### 2.5 Policy, guidance, announcements, miscellaneous

#FabVanguardWeek continues with more great examples - important to see progress & innovations - via <u>FabNHSStuff</u>

@supercarers: product quality is more important than growth - via Telegraph

A doctor with a bad knee runs into one-size-fits-all medicine - via washingtonpost

A toolkit to enable deafblind to access the world - important new blog from @MollyWattTalks - via MollyWattTalks

A&E and maternity wards could close if spending on agency doctors is not slashed - via Telegraph

Amazon Echo Dot review - via guardian

Amazon Is Reportedly Building a High-End Echo Speaker & touchscreen - via TIME

Amazon Partners With Chipmakers To Push Alexa Voice Assistant Into More Devices - via Forbes

Amazon unveils plans for grocery shop with no checkouts - via BBCNews

Ambulance pressure: Five ways services are innovating - via BBCNews

Ambulances 'too slow to 999 calls - via BBCNews

Andrew Lansley chides chancellor over lack of NHS and social care funding - via guardian

Ascensia gets FDA clearance for Contour Next One connected glucometer - via MobiHealthNews

Autumn Statement: Missed opportunity for NHS? - via BBCHughPym

Autumn Statement: Row as care funding omitted from measures - via BBCNews

Baby boomers 'should work for longer to stay healthy' - CMO Sally Davies - via guardian

Beat the Street turns town into game where participants walk, cycle or run between sensors - via guardian

Brexit means 'only major crisis will focus ministers on to NHS' - via guardian

BT ordered to legally split from Openreach (broadband infrastructure) by Ofcom - via <u>BBCNews</u>

Can startups save the NHS? - via courierpaper

Care for elderly 'close to collapse' across UK as council funding runs out - via guardian

CCGs overspend budget by £240m but NHS England 'on course' - via HSJnews

Cost of social care has rocketed over last year, analysis shows - via guardian

Council funding crisis 'not a reason' to block STPs, warn Stevens and Mackey - via <u>HSJnews (£ subs)</u>



Council tax hike being considered to cover social care costs - via guardian

Councils planning tax rises to cover mushrooming cost of social care - via Independent

Creating dementia friendly GP surgeries – iSPACE - via WessexAHSN

Cut locum doctor rates or close services, Stevens tells trusts - via HSJnews (£ subs)

Department of Health offers £220k salary for new commercial chief - via HSJnews (£ subs)

Developing People - Improving Care - via NHSImprovement

Diagnosing why innovation hasn't stopped healthcare productivity declines - via medcitynews

Digital checklists at discharge may improve patient engagement, outcomes - via FierceHealth

Digital natives can handle the truth. Trouble is, they can't find it - John Naughton - via guardian

Dr. Robert Wachter on Healthcare's Digital Transformation: "We Haven't Seen Anything Yet - via <u>HCInformatics</u>

eHealth and Care Strategy for Northern Ireland -@R1chardatron at #TECscot - via <u>#TecScot</u>

Excess winter deaths in England & Wales halve to 24,000 - via BBCNews

From the U.S.: Should doctors check your electric bill? (treating the person's whole life) - via politico

FRS interventions: reducing risk in winter-related illnesses - via PHE\_uk

Full listing of nominees and winners for Fab Awards 2016 - via FabNHSStuff

Give with one hand, take with the other. NHSI and NHSE are confused on Health IT - via Ethicalhealthuk

Giving Patients an Active Role in Their Health Care - via HarvardBiz

Government inaction on social care funding needs a radical response - @RichardatKF - via <u>GdnSocialCare</u>

Hammond facing growing Tory rebellion over social care crisis - via guardian

Health inequalities: Why GPs should become involved in 'health creation' - via GPonlinenews

Hospitals told to send patients to private sector to avert winter crisis + ban on 'black alerts - via guardian

How Brexit/US election could be impacting your health IT budgets - price increases up to 22% - via <u>HSJnews</u>

How will rise of digital assistants impact on how search engine optimization is performed - via <u>sengineland</u>

Huge rise in hospital beds in England taken up by people with malnutrition - via guardian



In IBM's future, Watson will be your doctor - via engadget

Is a digital pill the key to in-flight customer service? - via RWW

Jeremy Hunt says calls for more NHS money are a 'misjudgement - via guardian

JMIR: The Impact of Activity Trackers on Adults in a Physician-Led Wellness Group - via Study

LGA briefing - HoL debate on 1 Dec - The challenges in the current system of social care - via LGAcomms

Life expectancy in UK rises but so do years spent in bad health - via guardian

Liverpool To Pave The Way For Carers Network -#dementia - via GoodNewsLpool

Local authorities 'spend close to nothing on mental health' - via Independent

'Magic Table' game helps dementia patients relax and reminisce - via guardian

Mental wellbeing and independence for older people (QS137) - via NICEcomms

Ministers consider council tax rise to cover social care funding - via BBCNews

Multimorbidity – the biggest clinical challenge facing the NHS? – Dawn Moody and David Bramley' - via <u>NHSEngland</u>

my diabetes my way - NHS Scotland interactive diabetes website - via TecScot

Nanowear gets FDA clearance for cardiac-monitoring clothing - via MobiHealthNews

Need to know about vanguards/new care models & what they are doing? - via FabNHSStuff

New diabetes treatment could possibly eliminate need for insulin injections - trials planned - via guardian

New manifesto for social care is essential – service users should write it (@BeresfordPeter) - via guardian

New telephone triage system gets thumbs up from GP patients at Bondgate Practice in Alnwick - via <u>N\_LandNHS</u>

NHS cancer testing service at breaking point - via BBCNews

NHS chief executive wants 'one-stop' GP practices to do 'all of the -ologies - via pulsetoday

NHS completely absent from 72-page Autumn Statement document - via Independent

NHS England sending anorexic patients to Scotland for treatment - via guardian

NHS patients told to lose weight and quit smoking or possibly face operation delays - via guardian

NHS 'struggling to cope' with increase in people undergoing cancer tests - via guardian

NHS to use private firms to beat the winter crisis - via Telegraph



NICE calls on third sector & public bodies to work together to prevent loneliness in older people - via <u>NICEcomms</u>

NICE urges collaborative working to prevent loneliness in older people - via nhenews

No additional funding for NHS/social care - BBC summary of Govt's Autumn Statement - via BBCNews

No extra money for NHS/Social Care in Govt's Autumn Statement - via HSJnews(£)

Older carers putting their health at risk to care for spouses and partners - via CarersTrust

One in 10 jobs in learning disability services at risk - report - via guardian

One Obstacle to Curing Cancer: Patient Data Isn't Shared - via HarvardBiz

Patient safety at risk because of GPs' 'unmanageable' workloads, BMA survey finds - via Independent

Patients Increasingly Influence The Direction Of Medical Research - via NPR

Pharmacist-led care of people with long term conditions - via rpharms

Run the NHS and social care like John Lewis, says Frank Field - via guardian

Scotland's Digital Participation Charter Fund - via scvotweet

Scottish councils' cash reserves are running out, says watchdog - via guardian

Scottish diabetes equipment funding increase - via BBCNews

Shock figures show Tory plans are 'making social care worse - via guardian

Sick children moved as NHS intensive care units run out of beds - via guardian

Simon Stevens sets out action to improve survival & quality of life for people with cancer - via <u>NHSEngland</u>

Sleep deprivation 'costs UK £40bn a year with possible higher risk of health problems - via <u>BBCNews</u>

Social prescribing: Making it a reality for everyone - via SCIE\_socialcare

Stop asking us to deliver the impossible, NHS trusts urge ministers - via guardian

Study finds 7m Britons in poverty despite being from working families - via guardian

Survey of Trusts - 90 per cent of the UK's NHS still relying on Windows XP - via TheRegister

Taking Charge – Six Months In - Greater Manchester Devolution - via GM\_HSC

TalkTalk wi-fi router passwords stolen - via BBCNews

The art of the impossible - capitated budgets for long term conditions - via NHSEngland

The enormous pop-up clinic trying to bridge America's health divide - via guardian



The future of shopping: drones, digital mannequins and leaving without paying - via guardian

The NHS is being destroyed by political vanity projects (by Margaret McCartney - via Independent

The Observer view on social care - via guardian

The right to choose your own care is the latest casualty of council cuts - via guardian

Thousands 'miss out on stroke treatment - via BBCNews

Top 7 things not to miss at the European Ageing Summit - 6 to 8 Nov - via DSMeu

Transform Ageing launches to redesign the experience of later life - via designcouncil

Two-wheel takeover: bikes outnumber cars for the first time in Copenhagen - via guardian

UK government's autumn statement: no relief for NHS and social care in England - via <u>bmj\_latest</u>

Underfunded and overstretched – the crisis in care - via guardian

Unmet need for health and social care: a growing problem? - via TheKingsFund

Using Florence with people with asthma - video - via NHSHighland

Welcome to the Dementia Information Service - new from @NHSChoices - via NHSChoices

What would it take to make an age-friendly city? - via guardian

Why Doctors Can Be Good at Inventing But Bad for Innovation - via StanfordBiz

Why privatisation of social care may not be the answer to a coming crisis - via ConversationUK

Why the big secret over plans to transform NHS services? - Zara Aziz - via guardian

Wise Council: Insights from the cutting edge of data-driven local government - via nesta\_uk

With success of Amazon Echo - Has voice control finally started speaking our language - via guardian

World's first surgery broadcasted on Snapchat Spectacles - via thehaptical

Years of missing out on support taking toll on health & finances of those caring for loved ones - via CarersUK

Acutely ill children waiting nine hours for beds in intensive care - via guardian

Chancellor's failure to fund social care will have 'human cost', says leader of Tory council - via Independent

Citizens must get a say in NHS sustainability and transformation plans - via guardian

Community enterprises – building capacity in Worcestershire - via SCIE socialcare

Could NHS transformation fund be raided for social care in Manchester? - via HSJnews (£ subs)



Deeply worrying waits for hospital beds - via BBCNews

Former Google Ventures CEO Bill Maris is raising a new \$230 million fund to focus on health care - via <u>Recode</u>

Government scolded by watchdog over NHS funding claims - via guardian

Hospital proving patient waits can be cut - via BBCNews

If austerity is over, why can't Britain afford proper social care? (John Harris) - via guardian

Is Uber getting too vital to fail? - via BBCNews

Junior doctors' sleep deprivation poses threat to patients, says GMC - via guardian

Ministers considering letting councils raise council tax to fund social care - via guardian

No lines, no registers, no self-checkout machines - new Amazon Go store - via verge

One in 14 people now waiting for operations as demand on NHS soars - via guardian

Revealed: millions paid to social care companies amid crisis in standards - via guardian

Scottish Government seeks experts to evaluate digital services - via HolyroodDaily

Sharp rise in 'trolley waits' for hospital beds in England - via guardian

What ambulance pressures tell us about strain on NHS - via BBCNews

JustEat is now delivering takeout with self-driving robots in the UK - via TechCrunch

New Tool Lets AI Learn to Do Almost Anything on a Computer - via techreview

Digital training for MPs to be more tech-savvy - via SkyNews

How 'Amazon Go' works: The tech behind the online retailer's groundbreaking new grocery store - via <u>geekwire</u>

21 technology tipping points we will reach by 2030 - via BIUK

Cyber security and resilience for Smart Hospitals - via enisa eu

What does it take to make digital technology work in children's services? - via guardian

Will technology soon replace radiologists? - via medcitynews

Google's DeepMind is using "blockchain related" technology to increase data transparency - via <u>CityAM</u>

A luxury care home for people with dementia - but at what price? - via guardian

China care home rewards visits to elderly parents - via BBCNews

CMA launches review of UK care and nursing homes - via CMAgovUK

Enhanced health in care homes – good relationships are key - via HealthFdn



Enhanced health in care homes - Lessons from the vanguards on integration in practice - via TheKingsFund

Every older person in a care home needs access to high quality healthcare - via GeriSoc

IoT threatens patient safety, but regs could stifle innovation - via FierceHealth

London care home closure rate nearing crisis levels - via BBCNews

Savour not 'slop': the revolution transforming care home catering - via guardian

Scottish homelessness charity plans village of low-cost eco homes - via guardian

UK homes lose internet access after cyber-attack - via guardian

Working together for better care - learning from enhanced health in care home vanguards - via <u>NHSEngland</u>

Labor platforms: technology-enabled gig work - via pewresearch

We let technology into our lives. And now it's starting to control us (Rachel Holmes) - via guardian

The Role of Patient Data in Health and Social Care - via safeathomeUK

Alexa and Google Home Record What You Say. But What Happens to That Data? - via WIRED

Digital evangelist role at Department of Health - via digitalhealth2

Digital Health interview: Norman Lamb - via digitalhealth2

Digital roadmaps weak on "how" - review of South of England LDRs - via digitalhealth2

Merck Manual for Healthcare Professionals Is Now Offered As a Free App - via Medgadget

NHS Digital proposes analytics service to disrupt market - via digitalhealth2

NHS Digital pushes on with new community data set - via digitalhealth2

NHS Digital sees off patient privacy challenge - via digitalhealth2

NHS plans for digital transformation are unambitious with no money - time to be brave - via digitalhealth2

New clinical IT framework launched - via digitalhealth2

Apple confirms it is working on self-driving cars - via guardian

Apprentice nurses could treat hospital patients in bid to tackle shortages - via guardian

Beyond Buurtzorg: What can we learn from the Dutch on long-term care? - via JudithSmith

DoH goes to market for ambulance mobile data solution - via UKAuthority

Forty-one 2016 digital health mergers and acquisitions - via MobiHealthNews



NHS is 'swamped' by flurry of initiatives - Lamb - via digitalhealth2

99% of fake Apple phone chargers tested failed a basic safety test (insulation) - via <u>BBCNews</u> Integrated care for older people with frailty: innovative approaches in practice - via <u>rcgp</u> Mixed digital ambitions for STPs - via <u>digitalhealth2</u>

## 3 Learning and Events

Click on the links below for conferences and learning events over the coming months.

DHACA meeting - 18 January, London http://dhaca.org.uk/events/event/dhaca-day-xi/

## 4 Other useful links

Housing Learning and Improvement Network <u>www.housinglin.org.uk</u> Twitter: @HousingLIN Telecare Learning and Improvement Network <u>www.telecarelin.org.uk</u> #TLINnews Telehealth and Telecare Aware – daily news and comments <u>www.telecareaware.com</u> DigitalHealth.net <u>http://www.digitalhealth.net/</u> TSA – The Voice of Technology Enabled Care <u>https://www.tsa-voice.org.uk/</u>

Newsletter prepared by Mike Clark (@clarkmike) and brought to you by the Telecare LIN

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