Doing Digital in Later Life: A Practical Guide

Review of evidence and good practice.

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1. How this search was carried out

This document reports on the findings of a review of UK and international grey and academic literature, supplemented with data gathered across Good Things Foundation and GMCA. The review was framed around understanding the digital engagement and needs of the over 75 population and identifying examples of what works to enable this cohort to digitally engage. Due to the fast-paced nature of digital (particularly in light of Covid-19) – evidence from the last 5 years is prioritised – though examples from up to a decade ago are included if viewed as particularly robust/relevant.

As there is limited evidence of activities which focus exclusively on people aged over 75, the search strategy was designed to be pragmatic and drew on evidence related to known risk factors and interventions that target specific identified digital needs for this group.

To ensure we captured a range of examples, case studies identified across Greater Manchester considered different kinds of evidence, which included formal research and evaluation reports, as well as monitoring data and collection of anecdotal information around impact and learning.

This report is broken down into four sections:

1. Key messages: profile and context



- 2. What to consider when designing activities for people aged over 75
- 3. Measuring the impact of your activity: what "good" looks like
- 4. A selection of case studies to illustrate best practice

In addition in the appendix you can also find much more detailed evidence that supports the findings and background on our search strategy.



2. Key messages: profile and context

This section provides an overview of contextual and demographic information that should be considered when providing an activity aimed at people aged over 75. Whilst a "one size fits all" approach should not be applied, the data shows that people aged over 75 have a distinct profile compared to young older age groups which will no doubt influence their ability and willingness to use digital. The information below provides an overview of key messages – more detailed tables can be found in Appendix One.

Demographic profile

- The 75+ age group are the most likely to be clinically extremely vulnerable and live with long-term health conditions, including physical disabilities and cognitive and/or sensory impairment. This may limit their ability to use some digital tools and devices, and/or attend activities outside of the home.
- People aged over 75 are more likely to live in poverty than their 'younger older' counterparts. For example 22% of those aged 85+ and 19% of those aged 80-84 live in poverty, compared to 17 per <u>cent of 65-69-year-olds</u>). Asian or Asian British and Black or Black British pensioners are <u>nearly twice as likely to be</u> in poverty than their white British counterparts (33 and 30 percent compared to 16%)



People aged over 75 are the most likely age group to live alone (38% of those aged 75-84 and 59% of those aged 85 and over). This group are also the most likely to experience loneliness - with strong overlap across other risk factors for this age group (e.g., living alone, poor health, living in a care home etc.).

Digital profile

- People aged over 75 make up the highest number of <u>lapsed</u> <u>digital users</u>, with reports that progressive health conditions (such as sensory and cognitive impairment) create barriers as people age. Tips on ways to ensure accessibility is factored into activities aimed at people aged over 75 is covered in the next section).
- The evidence shows that a higher proportion of people aged over 75 have limited digital skills and are the least likely to use digital. The difference between this age group and younger older people is stark, with three quarters of 65–74-year-olds in England using the <u>internet every day</u> or almost every day, compared to under half (46%) of those aged 75+.
- Only 15% of digital non-users aged 75+ say they would like to use the internet more – with the most common reported barrier a lack of digital skills (at 79%).



- Confidence is likely to be a particular factor for 75+- with <u>23%</u> of internet users aged over 75+ reporting they are 'not at all' confident in aspect of internet use (compared to 8% of the general population).
- Studies show that the 75+ age group are the most likely to express <u>concerns around internet safety</u>, with this cited as a reason to avoid activities such as online banking (as of 2017 -93% of people aged <u>over 80 have never used internet banking</u>). This suggests a need to unpick whether reluctance to use digital for activities are due to preference, or the need for support to build skills and confidence.
- The oldest old may have different needs and motivations compared to their 'younger older' counterparts. For example use of the internet for social networking and streaming is more common among 'younger older' people (referenced by 63% and 59% respectively for those aged 50-64, compared to 26 and 35% for people aged 75+). This highlights the importance, supported across the literature - of taking the time to find out how digital can enhance or meet an existing interest or need.
- Though age is the largest predictor of non-digital use there is a need to factor in intersectionality:

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- Women <u>who live alone</u> are at particular risk of digital exclusion – with 51% of men aged 75+ had recently used the internet compared to 38% of women.
- Evidence points to a strong socio-economic gradient, with less <u>than a fifth of the</u> 75-79 age group in the poorest wealth quintile (18.5%) going online frequently, compared with over half of people aged 75-79 in the wealthiest quintile (at 57%).
- Older carers are more likely than the general population and their younger counterparts to <u>describe themselves as</u> <u>a 'limited' internet user</u>, due to being on a low income and lacking the time to develop their skills (nearly a quarter of <u>people aged over 80</u> (23%) reported providing unpaid care during the pandemic).
- As identified by a <u>recent review</u> funded through the NIHR, there is a lack of robust data which considers the level of digital exclusion for older ethnic minority groups. That said, as higher levels of digital exclusion have been flagged across the whole ethnic minority population and based on data which highlights higher levels of poverty – this merits consideration when ensuring an activity in inclusive.



3. What to consider when designing activities for people aged over 75

The literature uncovered some common themes around what needs to be in place to support effective digital engagement activities for the 75+ age group. The learning and recommendations tend to reflect processes, rather than specific activities. In other words, it is not necessarily the intervention(s) per se, but rather, the context in which they take place that can make it work, so long as participants can access the activity, feel strongly motivated and can appreciate the functional benefits of digital for them (see Table 4, Appendix One for a detailed overview of the evidence consulted for this review).

Ensuring activities are accessible and inclusive

The best way to ensure an activity is inclusive and accessible is to ask intended participants what they need. Box One below provides some pointers around which areas to consider, and is based on the evidence identified through the review (Table 3, Appendix One provides further details of the sources accessed).

Box One: Before you get started: things to consider when designing an activity to ensure it is accessible and inclusive

Materials are accessible and appropriate

Look to provide materials in different formats (e.g., written and audio) and give regard to use of colours, font size and layout. Adopting Easyread as a standard approach is the best way to maximise accessibility.



Organisations such as AbilityNet offer free resources about what to consider around accessibility requirements.

Ensure that materials are written in plain language and ideally avoid badging the activity as "digital learning" – as evidence suggests this can draw people away from envisaging how digital can benefit them in their everyday lives – which can be particularly off-putting for those with limited experience of using digital. Also ensure that ageist language is avoided (<u>The Centre for Ageing Better</u> provide some useful guides on this topic).

Physical and remote learning spaces are accessible

It is important to pre-empt potential issues that may occur when an activity is offered across settings, be that at the person's home, or in a community or residential home setting - to ensure activities are not disrupted due to poor quality connectivity and to consider any potential access issues.

When using a physical space outside of the participant's home, ideally ask people what their requirements are beforehand. Ensure the venue is easy to travel to and consider starting later to ensure people travelling by bus can use a free pass. A good rule of thumb is to take appropriate steps to ensure an activity is accessible to everyone – an approach recommended by the Dementia Engagement and Empowerment Project (DEEP), who provide free step by step guidance on how organisations should go about this.

Look to train staff and volunteers involved in running activities about how they can ensure accessibility is at the forefront (e.g., for online sessions,

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consider position relative to the screen to allow for lipreading, include a text reading function etc.).

Any required devices, platforms and tools are accessible

As people over 75 are more likely to experience physical dexterity, sensory or cognitive related conditions, any technology used may require additional accessories or access to specialist assistive software. The Age UK Think Digital project worked with older people at the outset to identify what they needed to start using digital, such as supporting someone to purchase a digital 'pencil' (a stylus) to support calibration of finger swipes. This consideration is also necessary to ensure ongoing use of digital once activities come to an end (particularly if loaned equipment needs to be returned).

To maximise the likelihood of older people with accessibility needs to continue using digital between and beyond activity sessions, it may be necessary to link in with, and where necessary provide support, to the participant's wider network. This might include carers, family members and/or health and social care workers.

Providing easily digestible step by step written and visual guidance to supplement digital training sessions has also been found to support ongoing digital use through allowing people to practice in between sessions or use for reference once an activity had ended.

The activity is affordable

It will be necessary to ensure people do not face barriers due to affordability, particularly as evidence shows 75+ are at particular risk of experiencing poverty. Recent ARC interviews with people aged over 75 across GM identified cost as one of the main barriers to getting online.



Therefore, providing access or signposting to the devices and/or data needed may be necessary at the outset.

Where a loaning service is offered – consider extending the lending period so older people feel they have the time to learn the skills they need; this worked well for Age UKs <u>One Digital</u> Programme.

Running digital skills activities

Box Two provides pointers on some of the main areas to consider when delivering an activity aimed at people over 75. The aim here is not to offer a prescriptive approach – but rather, to summarise the evidence about what has led to improved likelihood of an activity leading to positive outcomes. Overlaying each of the themes is the need for a person-centred approach, which is flexible, culturally sensitive and provides an opportunity to build trust with participants.

Box 2: A "checklist" of components that can support successful implementation of a digital activity for people aged 75+

Tailor learning approaches

Framing an activity around supporting the person to "do what they want" rather than "improving digital skills" improves the likelihood of older people continuing to use digital beyond an activity. Interviews across the 75+ age group carried out by ARC in GM identified that social interaction and convenience are motivators to get online, so tapping into these at the outset is recommended.



A tailored approach will generally require some level of one-to-one support to understand interests, motivations, and preferences, which should be accommodated where possible (e.g., some people may prefer larger interfaces, digital visual experiences, or require help with digital household appliances and not wish to get online at all).

Allow participants to learn at their own pace

Based on an assessed lack of skills and increased likelihood of 75+ experiencing cognitive and/or sensory impairments, longer sessions with repetition of information may be necessary to reinforce learning. Keep sessions as straightforward as possible, particularly when supporting people with limited or no digital skills. This may entail "easing into it" – such as through supporting someone to check the results of a sporting event or hear a favourite song.

Keep it informal

Research suggests that people aged over 75 do not respond well to a formal approach. Where possible, activities should be offered "where people are" – be that in a care home, at home, or a safe community space (Covid-19 restrictions allowing).

Offer reassurance around safety

Evidence shows that concerns around safety are particularly pertinent for the 75+ age group, so actions to pre-empt and address any concerns should be considered, such as providing devices that have anti-virus software, or incorporating awareness raising around e.g., phishing scams. It may be worth linking in with local services who can provide additional support and reassurance.



Provide an opportunity for participants to form meaningful connections

Self-efficacy has been found to increase when good, trusting relationships are built into digital learning environments. Research has identified several mechanisms through which this can be supported, such as through: peer to peer or reverse mentoring; training up digital champions; getting care home staff and volunteers involved; working with family members and carers. Linking in with others increases the likelihood of ongoing digital use beyond time limited funded activities (e.g., supporting care homes to embed digital across day-to-day activities).

Working with existing local partners and building on community assets may also offer a useful "way in" – where digital activities can be offered alongside any existing activity offer. As part of the Widening Digital Participation programme, Leeds Library Service introduced digital tools and support around using them across venues running non-digital dementia friendly activities. "Tech and Tea" (running in GM) combines social and digital activities.

Consider digital in its widest sense

Evidence and local feedback shows that older people experience negative financial and health related outcomes in their day to day lives because of struggling to use digitally enabled household appliances (DEHAs). For example, some referred to using expensive alternatives or "sitting in the cold" due to being unable to work digital heating systems. Therefore, offering support around use of DEHAs may provide that initial "hook" to encourage people to participate in a digital learning activity.



The learning relating to digital access more generally can be applied to supporting use of DEHAs, such as the need for reassurance around safety and (where relevant) privacy concerns, working with the person's wider support network, and helping to increase confidence around using DEHA and seeing potential benefits to everyday life.

There are a few services across GM that can support older people to use DEHA, with Salford CFS looking to introduce sessions around using smart technology following feedback from members. However, this is patchy and there is limited targeted resource in place (Table 5 in Appendix One provides an overview of local GM and wider evidence).

Understand digital engagement as a process, rather than an intervention

This might include working with staff, leaders, and residents across communal housing settings, or communicating with carers, friends, and family to support them to build confidence around digital. In some cases (e.g., care home settings) this may be necessary to ensure participants are able to benefit from digital after an intervention ends through supporting the building of an adequate infrastructure to enable digital use to continue. Care homes involved in digital inclusion activities as part of the Good Things Foundation Widening Digital Participation programme were encouraged to embed digital in the day to day running of the care home. Supporting ongoing digital engagement can be challenging in an environment which tends to follow time limited funding models – though where possible, more open-ended, even light touch support after an activity ends can be an effective way to ensure participants do not become lapsed users due to getting "stuck" (this proved an effective



mechanism to ensuring older people continued using digital for the <u>Age</u> <u>UK Think Digital</u> programme).



4. Measuring the impact of your activity: what "good" looks like

Our review identified a lack of evidence about what works when designing and implementing digital activities for people 75+. It is therefore recommended that any future activities targeted toward this age group across GM put procedures in place to measure how an activity is working and whether it is achieving what it set out to do. This will provide useful learning which can be shared and help inform future activities. Demonstrating how your organisation has supported digital engagement for the 75+ population can also showcase the quality and value of the activity to external stakeholders, funders and peers as well as contributing to a broader evidence base.

An evaluation may consider the following questions (adapted from <u>What Works Wellbeing</u>):

- Did it work? About the progress you've made with your intended outcomes (effectiveness)
- Was it worth it? About how well you've used your resources to support digital engagement (efficiency)
- What difference it made in the medium and long-term? About the transformative and longer-term effects of the activity (outcomes and impact)

There is not necessarily a right or wrong way to measure how an activity is working, you might choose to carry out interviews or send



out a survey to gather feedback from participants, staff and volunteers involved in the activity. Whichever method is chosen, an important consideration is ensuring an inclusive design to maximise participation (such as ensuring someone is available to help a participant complete a survey, identifying an accessible setting to carry out an interview, ensuring questions are jargon free – this will generally follow the advice provided in Section One).



APPENDIX ONE: Evidence Tables

Table One: National and GMCA level overview/context

This table provides an overview of the wider digital context for 75+, with a focus on digital access, confidence, skills and motivation for 75+

Source	Key learning	What does the evidence tell us about engaging 75+ in digital?
<u>The Greater</u> <u>Manchester</u> <u>Digital</u> <u>Inclusion</u> <u>Strategy</u> – Oct 20	This has background/overview about demographics – though only goes up to age 70 – shows that in GM 52% of those offline are between 60 and	It highlights a tendency for digital use to decrease with age Data highlights living alone as a risk factor for lacking an
	70	internet connection - as 75+ are more likely to live alone
	Households with a single adult are less likely to have a home internet connection.	they will be disproportionately affected by this. Interventions that support connectivity may therefore be helpful.
Age UK,	Three quarters of 65-74 year	Need for interventions that
2021,	olds in England use the	support skills development
Briefing	internet every day or almost	
Paper	every day, compared to	Low number of 75+ who say
<u>Digital</u>	under half (46%) of those	they would like to use the
inclusion and older	aged 75+.	internet more may indicate need for interventions to
people –	Among those aged 75+	tackle low levels of
how have	more than two out of five	motivation – links in with UoM
things	(42%) do not use the	and previous work with Good
changed in	internet.	Things Foundation and Thrive
a Covid-19		by Design for the need to
world?	Although the over 75s make	target interventions toward
	up the highest proportion of non-users, only 15% of	things that are of interest –



	these say they would like to	rather than as a 'digital'
	use the internet more.	intervention.
	Among those who would like	
	to use the internet more,	Based on evidence 75+ tend
	the most common barrier	to use digital for shopping
	was lack of digital skills with	rather than social networking
	nearly four out of five 75+	or to access health or
	(79%) mentioned this.	government related
		information. However – lower
	Sending or receiving emails	use of the latter may be
	was the most common use	linked to a lack of confidence
	of the internet among	due to not having developed
	people aged 75+ at 90%.	the skills – rather than
		preference.
	59% of 75+ use internet for	
	online shopping, the use of	
	the internet for social	
	networking and streaming	
	was more common among	
	'younger older' people aged	
	50-64 (63% and 59%) than	
	people aged 65-74 (47% and	
	47%) and people aged 75+	
	(26% and 35%). Among	
	those aged 75+ just over	
	one in three people (36%)	
	used it to find health-related	
	information and one in four	
	(25%) for information on	
	government services.	
Age UK,	Over 800,000 people in the	This data suggests that 75+
2020, Not	UK are lapsed users and	are numerically the most
like riding a	most are in the older age	likely to fall into the category
bike: Why	groups: 150,000 are aged	of lapsed user – this
some older	55-64, 200,000 are aged	highlights importance of
people stop	65- 74 and 320,000 are	interventions not assuming
using the	aged 75+.	this age group have never
internet		been online.
(lapsed	Older internet users are	
users)	more likely to be narrow	



Age UK, 2018, Digital Inclusion Evidence Review	users, with 75+ making up the highest number in this category – at 54%. Among all people aged 75+ around one in twelve had used social media and one in ten online banking in the previous week. Among those aged 65 – 74, men are a little more likely to use the internet – but there is a marked difference in the oldest age group as 51% of men aged 75+ had recently used the internet compared to 38% of women. As nearly 1.6 million women aged 75+ live alone, and over a third (34%) of all 'never users' are women aged 75 or over – it is	This suggests the need to pay particular attention to targeting women aged 75+. One thing highlighted in a review is that older people specifically mentioned liking visual interactions with people, either via photos or videos. Another study found that people of all ages find that these visuals make communications feel more
	reasonable to assume that a large proportion of the households without internet access are occupied by single women aged 75+.	'real' and intimate, and can lessen feelings of social isolation. Many studies have shown that older people want to get online to reconnect or strengthen existing bonds with family and friends (though not many wish to meet new people by this
Lloyds Bank, 21, UK Consumer Digital Index 2021	This only considers people aged up to 69. Though reference to older people with impairments or conditions	means). Suggests tendency for older cohorts to be more reluctant to turn to support.



	not getting access to the	
	assistive tech they may	
	need to use digital tools.	
NIHR What	Older age is the strongest	75+ less likely to use the
factors <u>have</u>	single predictor of internet	internet – need to consider
impacted on	access and use.	intersectionality –
<u>older</u>		particularly those on a low
<u>people's</u>	Across all ages, people from	income. Though also consider
<u>(75+)</u>	lower socioeconomic groups	evidence suggests that age is
access/exp	are less likely to use the	the biggest predictor of
erience of	internet, but older people	exclusion
digital	are more likely to be digitally	
public	excluded. Lack of robust	Support around using
services	data to consider issues of	financial services potentially
during	intersectionality, e.g., area	a gap (though unpicking the
covid-19?	deprivation or racial	reasons for this is
Rapid	inequalities	problematic – e.g. a mixture
review, part		of choice, fear, lack of
of a small	93% of people aged 80 and	motivation)
scale	over do not use <u>internet</u>	
qualitative	banking. House of Lords	
study	Select Committee on	
Main	Financial Exclusion	
authors –	suggested that a third of	
NIHR	people aged 80 and above	
Applied	had never used a cash	
Research	machine or preferred to	
Collaboratio	avoid them	
n GM		
Working	Age UK analysis of the	
with:	English Longitudinal Study	
Greater	of Ageing (ELSA) Covid-19	
Manchester	Substudy conducted early	
Combined	in the pandemic (June/July	
Authority	2020) showed that 45% of	
Ageing Hub	52-64 year olds and 41% of	
Greater	65-74 year olds used the	
Manchester	internet more since the	
Health and	outbreak, but only 24% of	
	those aged 75+ increased	
access/exp erience of digital public services during covid-19? Rapid review, part of a small scale qualitative study Main authors – NIHR Applied Research Collaboratio n GM Working with: Greater Manchester Combined Authority Ageing Hub Greater Manchester	are less likely to use the internet, but older people are more likely to be digitally excluded. Lack of robust data to consider issues of intersectionality, e.g., area deprivation or racial inequalities 93% of people aged 80 and over do not use <u>internet</u> banking. House of Lords Select Committee on Financial Exclusion suggested that a third of people aged 80 and above had never used a cash machine or preferred to avoid them Age UK analysis of the English Longitudinal Study of Ageing (ELSA) Covid-19 Substudy conducted early in the pandemic (June/July 2020) showed that 45% of 52-64 year olds and 41% of 65-74 year olds used the internet more since the outbreak, but only 24% of	the biggest predictor of exclusion Support around using financial services potentially a gap (though unpicking the reasons for this is problematic – e.g. a mixture of choice, fear, lack of



Social Care Partnership	their usage and 9% were using it less.	
Understandi ng digital engagemen t in later life May 2015 Katey	Internet use is less frequently observed among those in lower wealth quintiles regardless of age group. In the 75-79 age group less than a fifth of	These associations suggest that differences in internet behaviour occur not only as the result of age, but of social position.
Matthews and James Nazroo University of Manchester	people in the poorest wealth quintile (18.5%) frequently access the internet, compared with over half of people aged 75-79 in the wealthiest quintile (57%)	This lends strong support for interventions that target older people in the lowest wealth quintiles – as statistically they are far less likely than their wealthier counterparts to access the internet.
Ofcom (2017) Adults' media use and	Internet users over 75 are more likely than in 2015 to have a social media profile (41% vs. 19%).	Again – shows the importance of intersectionality – a person aged 75+ who is female and in a lower socio-economic
attitudes <u>Ofcom</u> (2018)	Smartphone use increased from 8 to 15% between 2015-16 for 75+ (*18% as of 2018 – however, research showed that this age group	group – for example, is the least likely across all groups to feel confident using the internet or being aware of advertising etc. – focus on
	tend to prefer larger devices for internet use. just under half of older (75+) consumers do not have home broadband.)	case studies that identify cumulative/additional inequalities/risk factors. Figures suggest a need to
	While most internet users stated that they were	support 75+ with online safety
	confident that they could recognise advertising online, only half of search engine users recognised adverts on Google. Internet	75+ feel less confident going online than other age groups – interventions that are evidenced to improve confidence for older people



users aged 55-64 (12%),	(such as Age UKs One
65-74 (15%) and 75+ (18%)	Digital/Think Digital online
are more likely than other	peer support – should be
age groups to say they are	particularly effective for this
'not confident' identifying	age group).
advertising online.	
Compared to the average,	Identifies that 75+ may also
awareness of personalised	benefit from interventions
advertising is higher among	that work to expand digital
25-34s (64%) and those in	skills – not just provide basic
AB households (64%). Lower	skills.
awareness is found in 75+	
(28%), as well as among	Evidence suggests 75+
those in C2 (49%) or DE	benefit from being supported
(48%) households	through a family member
	(*this could be a younger
While 8% of internet users	family member)
are 'not at all' confident in	
aspect of their internet use	Important for interventions to
- this rose to 23% for 75+	give regard to digital
Over 75 , are the least herry	platforms – 75+ tend to
Over 75+ are the least happy	prefer larger devices – so
giving out personal details	smartphone interventions
online (59% compared to the	may be less suitable
average of 46%) – and are	
less likely to fact check	
information provided online	
(44% vs. 67%)	
Except for anti-virus	
anti-spyware packages and	
using strong passwords on	
devices that can be used to	
go online, internet users	
aged 75+ are less likely to	
use a range of security	
features.	
Users aged 75+ are more	
likely to say they would ask	



		l
	a friend or family member	
	for help (80% versus all age	
	average of 58%) and less	
	likely to say they would work	
	it out for themselves (21%	
	for over-75s vs. 43% overall).	
	Compared to the average	
	(18%), those aged 75+ (1%)	
	are also less likely to say	
	they would watch 'how-to'	
	videos. There is a gender	
	element here – with women	
	more likely than men to ask	
	for help across all ages (67%	
	vs. 49%).	
	2020-21 (*this publication is	
	65+)	
	65+, less likely to have	
	adopted smart technology,	
	such as a smartphone,	
	smart TV, or smart speaker –	
	with a preference for	
	larger-screen devices; they	
	were more likely than any	
	other age group to use a	
	computer to go online (87%)	
	and just as likely as the	
	average internet user to use	
	a tablet to go online.	
	Those aged 65+ were less	
	likely to feel confident, both	
	online and in managing their	
Cood Things	personal data.	For older and dischlad passis
Good Things Foundation,	Charities working with older and vulnerable adults have	For older and disabled people
		who have gone online for the
2020, Digital inclusion	flagged an increase in	first time during the
	cybercrimes masquerading	pandemic - having access to
and	as NHS, government or	support will be critical in



		1
online	charity support. Single older	shaping their longer-term
safety for	people, those aged over 75	relationship with digital
adults in the	years, and living alone are	technology.
UK:	more likely to be targeted by	
A review of	fraudsters and scammers	Interventions that tackle
evidence,	(ref to Age UK, 2017)	online safety – particularly
policy and		for new users – would be a
practice	Fears around safety may	good model and help reduce
	cause older people to step	fear around online safety
	back from going online	identified across the research
	entirely. Qualitative research	
	with older people learning to	
	use the internet found that	
	worries about online safety	
	did not stop them from	
	carrying out activities which	
	they felt to be safe, but it	
	was consistently cited as a	
	reason to avoid	
	certain activities, especially	
	online banking.	
	5	
	Limited' users are more	
	likely to be older retired	
	citizens from lower	
	socio-economic groups,	
	who lack a post-16	
	education and may have a	
	chronic	
	health condition.	
	Being a carer, especially an	
	older carer, makes it more	
	likely that someone is a	
	'limited' internet	
	user - using the internet	
	only for a very few things -	
	reflecting lack of disposable	
	income but also lack of time	
	to learn how to benefit fully	



Good Things Foundation, 2021, Digital exclusion and health inequalities (with Health Foundation and Kings Fund)	 *This article considers older people of all ages – though also gives reference to 75+ Reasons for older people not using digital: fear, mistrust, lack of confidence, concerns about online safety or things going wrong. Older people may step back from using the internet due to changes to dexterity, cognition, and finding it harder to keep up – or want to keep up – with changes in technology. While older age remains the strongest single predictor of internet access and use among adults, poverty (and related disadvantages such as low literacy and low educational attainment) are the most reliable predictors across all 	Lends further weight to intersectionality – and relevance of interventions that work with older people who are more likely to experience other forms of inequality (particularly poverty) Some of the challenges referred to allude to identified risk factors for people aged 75+ particularly where health conditions may deteriorate (e.g., changes to cognition/dexterity) – again –for interventions aimed at 75+ it will be particularly important to ensure there is a support element – lending/ accessibility will be insufficient.
CtEL, 2021, Loneliness beyond Covid-19 Learning the lessons of the pandemic for a less lonely future	age groups. Organisations struggle to engage people with remote support if they have: hearing loss; dementia; lack confidence with remote connection; care home residents with restricted access; those living where community infrastructure is poor; poor or intermittent internet access.	Interventions aimed at 75+ need to give regard to health-related barriers and restricted WIFI access in care homes. Without giving regard to accessibility – the data suggests many 75+ may struggle to participate. Also recommends using technology that people are



	It can be harder for some organisations to support people who have limited English skills due to the difficulties of using text-based apps and that gestures or facial expressions that would otherwise aid understanding cannot be used.	familiar with e.g. a landline telephone can help to ensure that older people can participate in activities/clubs if they do not have the digital skills/equipment
I <u>riss</u> , 2020, ESSS Outline Digital inclusion, exclusion and participatio n	Digital participation can minimise loneliness and depression among older people (Koss, 2014; Lelkes, 2013; Aguilar, 2010; Sum, 2008). Barnes (2006) finds older people who have internet access are three times less likely to be socially excluded.	Lends weight to offering activities to support older people over 75+ - as provides evidence that digital can lead to positive outcomes across particular risk factors (loneliness; poor health, disabilities and sensory impairment).
	Also refers to positive impacts on social interaction for people affected by disabilities and carers.	
	Specific accessibility barriers: physical dexterity (difficulties using a mouse or keyboard), complicated presentation of information, colours, size and layout of text - can be off-putting, or make websites and services unusable (Reform, 2019).	



Table Two: Key stats around risk factors relevant to this

demographic

(e.g. health, comorbidities, living alone, carer status, other inequalities as identified through the search)

Source		
Independent Age, 2022. Poverty in later life: How people in older age move in and out of poverty, and what should be done to reduce it	Poverty is a particular risk for older age groups – also identified issues around not claiming benefits that they are entitled to.	As services go online – benefits going unclaimed may increase – this would be a good digital support service to offer – building skills and reducing poverty.
Age UK, Poverty in Later life, 2021	 2.1 million (18 per cent) of pensioners in the UK live in poverty. Those who rent accommodation and Asian or Asian British and Black or Black British pensioners are nearly twice as likely to be in poverty than white British (33 and 30 percent compared to 16%) The oldest old are at greatest risk of living in poverty, making up 22 per cent of those aged 85+ and 19 per cent of those aged 85+ and 19 per cent of those aged 80-84 compared to 17 per cent of 65-69 year olds. 	Proportionally – people aged 75+ are more likely to be living in poverty than 'younger older' people – so interventions that support digital accessibility would be relevant to this group. Also highlighting intersectionality – BAME over 75+ at higher risk of living in poverty.



		Demonsting a setimate device
Alzheimer's Society	1 in 6 people over the	Dementia particularly
Risk factors for	age of 80 have	impacts on 80+ and makes
dementia	dementia.	up 70% of care home
	70 per cent of people	residents – so
Facts <u>about</u>	in care homes have	interventions based in care
<u>dementia</u>	dementia or severe	home settings will likely to
	memory problems.	particularly relevant to 75+
AgeUK, 2021, Impact	Based on an online	This identifies that
of Covid-19 on older	survey – so more	Covid-19 may have
people's mental and	likely to have some	disproportionate impacts
physical health: one	level of digital skill.	on particular groups – as
year on	70% of respondents	75+ are more likely to
	were aged 70 or	experience cognitive
	above and more than	impairment or a long-term
	60% reported living	health condition – further
	with at least one	strengthens relevance of
	long-term health	interventions that target
	condition.	these groups.
	Older people from	
	ethnic minorities	
	have been	
	disproportionately	
	impacted by	
	Covid-19	
	Levels of anxiety	
	have increased 36%	
	Cognitive decline	
	due to isolation has	
	made older people	
	more forgetful	Deeple aged 75 + (in and
AgeUK Later Life in	3.8 million	People aged 75+ (in one
the United Kingdom	individuals over the	instance 70+) are the most
2019	age of 65 live alone,	likely age group to live
	58% of whom are	alone, experience multiple
	over 75 (around 2.2	health condition and
	million individuals)	sensory impairment – so
	(ONS, 2017a).	interventions aimed at



	An estimated 4 million older adults in the UK (36% of people aged 65-74, and 47% of those aged 75+) have a limiting long-standing illness	older people that target these factors likely to be relevant to the oldest old.
	1 in 5 people aged 75+ are living with sight loss; 1 in 2 people aged 90+ are living with sight loss (RNIB, 2018).	
	More than 40% of people over 50 years old have hearing loss, rising to 71% of people over the age of 70 (Action on Hearing Loss, 2019).	
	70% of people in care homes have dementia or severe memory problems (Alzheimer's Society, 2019b).	
ONS, 2019, Living longer: caring in later working life Examining the interplay between caring and working in later life in the UK.	Though 60-69 year olds (22%) are proportionally the most likely age group to be unpaid carers, the 70-79 age group makes up one fifth (20%) (*though more	Though there are a reasonably high proportion of carers aged over 70 – may have specific health needs themselves – so ideally – would identify an intervention aimed at older carers. Intervention ideally



AgeUK, 2021, New Age UK research finds the numbers of UK over age 65s caring unpaid nearly double during the pandemic to more than 4 million	recent research indicates that this is now much higher) New analysis has found that during the second wave of the pandemic, the numbers of over-65s in the UK who were providing unpaid care for someone almost doubled to more than four million (one in three)	focuses on the needs of carers – and how this may interact with older age. Nearly a quarter of people aged 80+ are carers.
ONS, 2020, Coronavirus and shielding of clinically extremely vulnerable people in England: 24 June to 30 June 2020	million (one in three) - with 780,000 over 80, meaning 23% of all over 80s were providing care. When comparing the age distribution of clinically extremely vulnerable people with the general population of England – the 75+ groups represent 30%, compared to 13% of those aged 70-74.	75+ are 2.5 times as likely to be clinically extremely vulnerable when compared to 70-74 – strong support for interventions aimed at supporting people with multiple health conditions – or targeted to those shielding due to Covid.
RNIB, <u>Evidence-based</u> <u>review</u> Older people	Sensory impairment -sight loss is linked to age; the older you are the more likely you are to be living with sight loss. Around 1 in 7 people over the age of 65 and 1 in 3 people over the age of 85 in	Sensory impairment particularly relevant to 75+ interventions targeted to this group – at all older ages likely to be useful.



Barnett K et al, 2012. Epidemiology of multimorbidity and implications for health care, research, and medical education: a cross-sectional study. The Lancet, Volume 380, Issue 9836, pp37–43, 7 July 2012.	the UK are living with sight loss Most people over 75 have three or more long term health conditions	Multiple health conditions disproportionately impacts people 75+ so interventions that target health conditions particularly relevant to this group
Campaign to End Loneliness, risk factors in older age	Risk factors linked to loneliness: Personal Being socially isolated or having no family or friends Being single, divorced or separated Living alone Being aged 75+ Poor health Developing or living with a life-limiting illness or disability Living with a mental health condition	Based on identified loneliness risk factors – most are relevant to 75+ group – and the campaign specifically identify this age group as being at risk – will also likely overlap with other 75+ risk factors – such as living alone, being in poor health, bereavement, sensory impairment, loss of mobility, living in a care home etc. – this suggests identifying D.I interventions that target older people affected by loneliness would be relevant to the 75+ age group. This data also directly links digital exclusion to risk of loneliness.



[
	 Living on a low income- poverty 	
	Transitions in life that can contribute to loneliness Bereavement, becoming widowed Retirement Geographical relocation Living in a residential care home Becoming a carer Loss of mobility Sensory loss Giving up driving	
	 Wider Society Lack of public transport Physical environment (e.g.no public toilets or benches) Fear of crime High population turnover Digital exclusion 	



Table Three: relevant design resources

Accessibility considerations	
Health Literacy Online	Choose a font that's at least 16 pixels, or 12 points. If many of your users are older adults, consider using an even larger font size—19 pixels or 14 points.6,24 A small font size is more difficult to read, especially for users with limited literacy skills and older adults.
	Set up your site so that users can adjust the size of the text on the page.24 Web designers can make this possible by using what's called relative type size. However, it's still important to test out your website with different font sizes to make sure it's still easy to read and navigate. Always check how your content looks on a mobile device, as well—newer, high-resolution screens that render more pixels per inch can make text look smaller.
	Unusual fonts with unnecessary flourishes can be hard to read. Choose a mainstream font that will feel familiar to your users. It's easier to read text printed in simple, familiar fonts like Verdana.
	Also, while you can use a different font for headings and body content, don't use more than 3 fonts on a page. Use fewer, simpler fonts to make your page look more cohesive.
	The bottom line: Choosing sans serif fonts is best practice when writing for the web.24,57,58 Use a familiar sans serif font like Verdana, Lato, Open Sans, Proxima Nova, or Source Sans
	To maximize readability, use a line height that is 130% to 150% larger than the font size.56 This helps keep users with limited literacy skills from losing their place in the text as they start reading a new line—and makes it easier for them to use their



	fingers to help keep their place. Line height is also an important consideration for mobile users. When paragraphs or bulleted lists include multiple links, extra height between lines helps ensure that users have enough room to tap the item they want. Clean, uncluttered webpages are easier to read24,30—they're less distracting and less overwhelming for everyone, especially people with limited literacy skills and very busy users.
	Use white space in your content to break information into chunks. Leave space between sections of text and around images and buttons. White space around site features also helps mobile users interact with buttons and links without accidentally tapping the wrong place.
Good Things Foundation, Doing Digital Inclusion: Disability Handbook	 This handbook outlines some of those barriers, and offers advice and resources, for those already delivering digital skills who would like to better support disabled people, and to disability support organisations wishing to offer digital inclusion activities for the first time. Some tablets have good speech controls, and touchscreens can be easier to use than a mouse for some people with poor hand dexterity. Support your learners to understand everything that a device can do and consider home loans where possible. Get the environment right (Someone who is uncomfortable is unlikely to return); Check that the learning venue is fully accessible and not just for wheelchair-users. Are your lighting levels and signage helpful for visually impaired people? Have you a quiet area with good acoustics for hearing-aid users, people with speech impairments and for anyone who needs a calm space?



	 Are your toilets and refreshment areas accessible? Do you have a range of chairs to suit different people's needs? Have you at least one height-adjustable desk or workstation?
	 Empower individuals to take charge of accessibility: For some issues there are quick fixes, such as making text bigger, reformatting, changing colours and showing people shortcuts to improve their user experience. If relevant, find strategies to help individuals get the most out of less accessible sites rather than rule them out altogether. BBC's My Web My Way and AbilityNet's My Computer My Way have some useful accessible help links.
W3C <u>Web Accessibility</u> <u>initiative</u>	Many older people have age-related impairments that can affect how they use the web, such as declining:
	 vision – including reduced contrast sensitivity, color perception, and near-focus, making it difficult to read web pages physical ability – including reduced dexterity and fine motor control, making it difficult to use a mouse and click small targets hearing – including difficulty hearing higher-pitched sounds and separating sounds, making it difficult to hear podcasts and other audio, especially when there is background music cognitive ability – including reduced short-term memory, difficulty concentrating, and being easily distracted, making it difficult to follow navigation and complete online tasks These issues overlap with the accessibility needs of people with disabilities. Thus, websites,
	applications, and tools that are accessible to people


AbilityNetOffer a range of free resources - including factsheets, webinars and podcast providing digital accessibility information. These include those dedicated to supporting people to use particular tools or adaptations (e.g., a smart speaker in the home, keyboard and mouse adaptations, screen readers) or working to support particular conditions (e.g., visual impairment, arthritis, dementia) or requirements (using a computer single handed).AbiltyNet How technology can help older people with sight issues Guest BloggerSuggests 5 ways technology can help those with sight loss.AbiltyNet How technology can help older people with sight lossMobile voice assistants for people living with sight lossGuest Blogger for all ages)01 OctAbiltyNet How settings on your iPad and other dexterity difficulties (AbilityNet)Suggests 5 ways technology can help those with sight loss.Christopherson, 2022 How changing the settings on your iPad and other dexterity difficulties (AbilityNet)Sumart home The advent of smart speakers and other technology are making it easier to adapt the home for older people 4. Apps to improve the lives of people with visual impairments For example, Microsoft's Seeing Al, which performs a number of tasks including the ability to identify a product audibly using just the barcode. 5. Braille translation software is used when speech output systems would be less effectiveDigital UniteHave several guides which cover digital related		with disabilities are more accessible to older users as well.
technology can help older people with sight issuessight loss.Guest Blogger01 Oct 20191. Mobile voice assistants for people living with sight lossGuest Blogger01 Oct 2019Mobile voice assistants notable Apple's Siri and Google's Voice Assistant make technology accessible to the visually-impaired. You can ask either a plethora of questions.ALSO SEE (designed for all ages)2. Video magnifiers For those with impaired vision there are a number of ways of magnifying text. Many are built-in to the software (operating system) installed on your device.How changing the settings on your iPad and iPhone can help people with tremors and other dexterity difficulties (AbilityNet)3. Smart home The advent of smart speakers and other technology are making it easier to adapt the home for older people4. Apps to improve the lives of people with visual impairments For example, Microsoft's Seeing AI, which performs a number of tasks including the ability to identify a product audibly using just the barcode. 5. Braille translation software is used when speech output systems would be less effectiveDigital UniteHave several guides which cover digital related	<u>AbilityNet</u>	factsheets, webinars and podcast providing digital accessibility information. These include those dedicated to supporting people to use particular tools or adaptations (e.g., a smart speaker in the home, keyboard and mouse adaptations, screen readers) or working to support particular conditions (e.g., visual impairment, arthritis, dementia) or
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output systems would be less effectiveDigital UniteHave several guides which cover digital related		
Digital UniteHave several guides which cover digital related		Braille translation software is used when speech
topics – including computer basics, online safety	Digital Unite	3



Independent Age	 Offers step by step advice on helping older people to get online – including helping people to get set up – including how to support people remotely – such as advice on setting up screen sharing tools, making use of voice assistants. Also advice such as offering any written resources in largeprint. "There are some extra things to consider if you're showing someone how to get online from a distance. Use the same device – if there's a device you know how to use, consider getting the same one for your friend or relative. You'll know exactly how it works and can go through the same thing at the same time. Use screen sharing tools – these allow you to see their screen from your own, so you can talk them through the steps. Examples include Windows Quick Assist, Mac Share Screen or Chrome Remote Desktop. Pick easier to use smart devices – such as simpler tablets or smart speakers. See our smart devices page. Make use of voice assistants – such as Siri, Alexa or Google's assistant. These can make a device easier to use. Avoid jargon – it's even more important to explain things simply when you're not with them."
Dementia	There are 80 DEEP groups across the country
Engagement and	(including 5 in GM) – which are run by people living
Empowerment (DEEP)	with dementia. The website offers a range of online resources including advice on ensuring written
	(paper and website based) materials, language,
	inside and outside spaces are accessible "for
	everyone – not just people living with dementia".
Good Things	This resource discusses the social and digital
Foundation, <u>Dementia</u>	barriers facing people with dementia and their carers, provides information on how the UK online
and Digital	centres network is already helping to overcome



	these barriers, and offers advice on what can be done at a local and national level.
The Centre for Ageing Better "A guide to talking about ageing and older age" A guide to talking about ageing and older age"	The Centre for Ageing Better provide some advice about how to go about this " <u>Challenging ageism</u> : A guide to talking about ageing and older age"

Table Four: learning and evidence on the processes and activities that

work well for 75+

(this draws on wider research – assessed as relevant based on the assessed digital needs and relevant risk factors for this age group – as highlighted across tables one and two). Split by: a, evidence reviews, b, Research and evaluation of activities.

Damodaran, L.,	COMMON BARRIERS	FACILITATORS: WHAT WORKS	
2021, Barriers and	Access issues/problems;	•Ease of access;	
'What works'	Low confidence;	•Empowering users;	
solutions to Digital	Support void;	Appropriate design;	
•	Stress & fear;	Light-touch administration;	
Participation For All	 Poor design; 	Supportive human facilitation of learning	
	 Perceptual-motor and cognitive challenges. 	Building confidence.	
	PERCEPTUAL-MOTOR AND COGNITIVE CHALLENGES		
	Perceptual-motor and cognitive capabilities		
	encompass mental processing speed; working		
	memory; ability to read, process or abstract		
	information; ability to learn new skills; and speed and		
	accuracy of hand-eye coordination. Any or all of		
	these capabilities can be compromised as a result of		
	particular existing or acquired conditions and/or		
	circumstances, including ageing. Such changes in		
	capabilities have important implications that can		
	impede use of digital technologies.		
	Difficulty using a mouse or completing		
	mouse-based tasks (e.g. to select items or drag		
	and drop an item on screen);		



Leela Damodaran1, Wendy Olphert2 and Jatinder Sandhu	 Difficulty using touchscreen devices that require accuracy (e.g. selecting keyboard characters or placing cursor for editing). Cognitive challenges include: Losing their location on a screen; Becoming overwhelmed by features or large amounts of information; Difficulty remembering sequences or steps required to complete a digital task; Trouble recalling log-in details, such as usernames and passwords; Difficulty navigating websites and devices. Effects of taking medication are also known to negatively impact cognition and performance and can result in slower processing speeds and difficulties with concentration What has been shown to work where other 'interventions' and approaches fail is compassionate, empathetic and non-judgemental one-to-one support from a trusted person. When recruited and assigned by providers, they are often given the title 'digital champion', but the title can be a disengaging factor for many people. (It is noticeable that where users themselves make the choice, they choose to their helpers by such titles as 'IT buddies', 'Skype Mates', community digital volunteers', 'digital companions' and 'IT tutors'). Digital device selection and set-up: the iPad was chosen "on the basis that the accessibility functionality is superb plus the simple layout is less
	Digital device selection and set-up: the iPad was
	functionality is superb plus the simple layout is less daunting"; adjustment of the settings so that Maureen was able to see the various apps clearly.
Switching the focus from training to	Cognitive issues: learning new terms, memory, comprehension. Registering her fingerprint in order
support – getting and keeping the	to unlock the iPad was challenging, as Maureen did not know where to put her finger; terminology such as "finger recognition" initially confused her: Maureen
digitally excluded online: a case study in the UK during the	as "finger recognition" initially confused her; Maureen forgot about the finger recognition procedure and, since she was alone, could not get the iPad to work;



COVID-19 pandemic	Maureen did not understand what was meant when her family was telling her to touch the "button" on the iPad in order to unlock it. Her family had to make regular phone calls to remind her of this feature. It took a few failed attempts at FaceTime before Maureen was able to respond to an incoming FaceTime call correctly.
How can slower adaptors to changes in technology be equipped to develop and maintain digital skills for (a) the	Cognitive changes to fluid intelligence (i.e., processing speed and working memory) resulting from normal ageing - result in individuals losing their location on screen or experiencing navigational difficulties in websites or interfaces, make more mistakes if rushed, also difficulties remembering passwords
increasing proliferation of online services; and (b) the future workplace? (commis sioned by Foresight, Government Office for Science 2017).	Recommended /remedial actions: 1. Ensure supported personalisation of commonly used features (for example toolbars and menus) to reduce clutter on the screen. 2. Allow longer time for task completion. 3. Create opportunities to utilise the skills that older people have built over the course of their lifetime to benefit others and to allow older people to be recognised as assets/contributors.
	Vision Contrast discrimination declines significantly with age, also of diseases such as glaucoma, age-related macular degeneration, cataracts, and diabetic retinopathy which affect vision increases with age. Recommended /remedial action: Ensure that high contrast text options are available, that extra time is allowed and that magnification and screen reading software (as well as ongoing support to use such software) is available for those who want to use it.
	Motor changes Older people can experience issues carrying out mouse-related tasks and touchscreen movements including rotating onscreen objects



Recommended/remedial action: Use large icons for easy selection and allow extra time for task completion. Ensure that workstations are adapted to user needs/preferences (i.e. length of time for mouse clicks, mouse speed etc.)
Hearing changes Hearing decline is also a part of ageing Recommended /remedial action: Keep background noise to a minimum where verbal communication, thinking and concentration are needed.
Effects of attitudes, experience and access Recommended/remedial action: Understand and respect the choice of older users to either choose or refuse to use assistive technologies. Recognise the likely requirement for help and support where users do decide to use assistive technologies.
Side effects of medical treatments The effects of medicine on cognition and as a consequence on use of digital technologies are known to have a negative impact on performance (Gregor and Dickinson, 2007) Recommended /remedial action: Allow people suffering from chronic conditions extra time and breaks so they can move around to ease their symptoms
Interactional effects Recommended/remedial action: Understand the physical limitations of older people with multiple minor impairments and adjust job requirements/arrangements appropriately
Overall effect of ageing on performance The effect of ageing on performance is multifaceted and varies from person to person. However some generalisations can be made



(*see doc)

Evidence reviews			
Source	Key learning	What does the evidence tell us about engaging 75+ in digital?	
What factors <u>have</u> <u>impacted on older</u> <u>people's (75+)</u> access/experience of digital public services during covid-19? Rapid review, part of a small scale qualitative study Main authors – NIHR Applied Research Collaboration GM Working with: Greater Manchester Combined Authority Ageing Hub Greater Manchester Health and Social Care Partnership	Identifies a weak evidence base around what works for all OP and digital – identify that some reviews are pre-pandemic – and change has been fast paced. Due to the limited research targeted specifically toward 75+ - this review covers older people more generally. Good to link to the interview data that will be carried out Jan/Feb by UoM – this will provide invaluable data about local gaps/facilitators for 75+ - which can be potentially used to 'triangulate' this review.	Need to focus on how digital can be used to help people do what they want - less focus on the technology itself (all OP) Recommend initiatives to support people to keep up with skills – refer to high proportion of over 65s being lapsed users (evidence in Table Two shows this is a particular issue for 75+) Refer to NIHR Older People and Frailty Policy Research Unit (all ages) rapid evidence synthesis on use of remote interventions to alleviate social isolation and loneliness (focus on over 70) found mixed evidence regarding online discussion groups and approaches using combinations of technologies, and weak evidence for the potential of social networking sites. Though found that	



		approaches that supported the development of close relationships between people, ensured people had shared experiences or characteristics, and offered light-touch oversight (e.g., pastoral guidance) were likely to be more successful. Found that supported video consultation was regarded positively by older people There was also a small amount of evidence showing that use of the telephone was felt to be beneficial, which highlights that more traditional, non-digital approaches may be preferred by some older people.
Good Things Foundation, 2018 I am connected: new approaches to supporting people in later life online	This report covers 75+ - learning and recommendations aimed at all older age groups. Van Duersen and Helsper (2015) note that non-users over 75 are much more likely to say they are 'too old' to	Ensure support is in place when people are initially getting to grips with digital. Tutors that take the time to build trust and good communication channels with increase learners confidence and self-efficacy Appropriate messaging
	start using the internet. Stereotype threat may influence older people's	and marketing should be used to attract people willing/ interested to learn digital skills



attitude towards learning digital skills - and can create a self-fulfilling prophecy around digital skills, or can exacerbate real cognitive impairment	A fixed curriculum that moves at a fixed pace risks leaving behind older learners who may learn better at a more tailored pace
Family members can provide a range of support options including: proxy use; learning and engagement; and	Avoid jargon – as it draws users attention towards the tech and away from the specific activities or benefits of digital.
troubleshooting and access	The wrong kind of digital inclusion provision (e.g. short taster courses, fixed
Community signposting of digital learning facilities has the potential to	curriculum) may cause people to completely disengage
successfully refer	Many older people have
people to appropriate	access to social resources
services via a 'wellbeing champion'	and networks which could be utilised for digital
who will suggest a	inclusion delivery.
range of services, not	Peer-to-peer digital
just digital options, and	inclusion has unique
gain the trust of a	advantages for older
potential user	people: based within
Several factors affect	existing communities,
cognitive function in	such support is more likely
older age, and the	to be sustainable and
extent to which	self-supporting;
cognitive function	peers are likely to be
influences digital	known and trusted, and
behaviour. Even outside	seeing 'people like me'
of the various forms of	succeed with digital is a
dementia, varying levels	valuable source of
of non-pathological	self-efficacy (Bandura



physical deterioration of the brain are universal and irreversible as age increases (Hedden and Gabrieli 2004). These changes make it more difficult to learn and retain new skills and information, a process which generally starts at age sixty and increases more rapidly from the midseventies (Crawford 2004). Research has shown that memory problems can contribute to digital disengagement: they make it harder to retain knowledge between learning sessions; even where the individual tasks in a process may be remembered, the correct ordering may not (Damodaran et al, 2014). But whatever the influence on lapsed use, evidence from our participants suggests that non-pathological cognitive decline is not a major barrier for older people getting online in the first place, since it is only when they start actively learning that they have to grapple with its	1997). In addition, a user-designed curriculum is more likely to be based around real needs and interests, rather than on what older people 'should' want to learn online. But creating the conditions in which peer digital support can flourish is not simple. Our findings suggest that several elements are vital for success
 implications.	



	Self-efficacy seems to play a much more important role. Without it, the smallest setback - caused by cognitive impairment or anything else - can be taken as evidence that success will never come; where it exists, almost any obstacle to learning a new skill becomes negotiable	
Age UK, 2017, <u>Making</u> <u>Intergenerational</u> <u>Connections</u> – an Evidence Review What are they, why do they matter and how to make more of them	The review revealed that aspects of intergenerational contact programmes affect their likelihood of success, and therefore should be considered when planning intergenerational programmes. Though this does not refer directly to digital – the recommendations seem transferable – and there is limited evidence on digital intergenerational initiatives.	Programme design and preparation Use groups of equal numbers of people of different ages Locate the project in a neutral environment Provide frequent contact between participants Use a pre-intervention tool (extended or imagined contact) Use extended contact as a post programme intervention Content/activity design Sharing goals between the two groups is one way of encouraging cooperation Design activities that encourage sharing of personal information Allow or encourage the groups to learn about each other as individuals



		Features to avoid Patronising communication towards any participant Communication from older adults that is overtly personal Unequal groups (either size, or status) Environments unfamiliar to, or uncomfortable for, either group Situations or tasks that confirm negative stereotypes of either group
		Points to consider Stereotypes (images and assumptions about a group) are often widely recognised across society and may be harder and slower to change than individuals' personal attitudes about older people and age.
		Aim to create intergenerational friendships. Be aware of, and aim to reduce, anxieties about interacting with each other
Age UK, <u>Briefing Paper</u> <u>Digital inclusion</u> and older people – how have things changed in a Covid-19 world?	As highlighted in the overview table above – 75+ far less likely to be online – and use it in different ways to 'younger older' people.	For most older people (including 75+), the best approach to gaining digital skills is through ongoing support, tailored to their needs and preferences,



	Refer to the need to ensure services continue to be offered in other ways – digital led offer should be part of a hybrid approach	and delivered on a one-to-one basis. Interventions need to factor in additional time to build confidence of OP
Age UK, Mind the digital gap	This gives reference to all OP – though evidence shows the main barriers around lack of confidence/skllls will be particularly relevant to 75+ age group. Covid was a key driver to some older people getting online – as they felt they were missing out	Teaching should be provided in easily digestible step by step guides to increase confidence and trust online Volunteers need good digital skills and to be able to work with people facing multiple barriers e.g. language Provide accessibility support to help the older person understand and
		compare broadband contracts
Review carried out for Age UK (Alden, S. et. Al., 2020 UNPUBLISHED)	Though there are a number of examples of LAUKs running digital based services (e.g. Newham and IOW run a drop-in service, IOW also offer 'iPad café courses' and technical at home support, Tower Hamlets offer drop in sessions and home visits, Camden have developed a range of computer training sessions, Age Scotland	Best not to 'sell' intervention from a digital perspective, but rather, link to interests. There is a sense that it is not necessarily the intervention, but rather, the context in which it takes place, that can increase effectiveness. An intervention needs to: be 1, person-centred, 2, tailored/flexible, 3, provide a mix of online and face to



	have established a	face, is ongoing, gives
	computer club for older	regard to cultural needs,
	veterans, Leicester City	utilises local community
	and Leicestershire use	assets, gives regard to
	digital champions to run	accessibility/safety
	sessions in different	
	locations – where	Some evidence suggests
	people can bring their	particular areas will be of
	own device) – these are	more interest to older
	not generally evaluated.	people – e.g. incorporates
		social interaction/digital
		visual experiences. For
		older people/people living
		with dementia/in care
		home settings, research
		suggests that
		touch/visual/intimacy are
		needed for meaningful
		connections to develop
Good Things	Social isolation caused	For classroom-based
Foundation	by the COVID pandemic	interventions
Scheinberg research	has made a lot of older	Older people are more
review	people realise the	likely to become engaged
(UNPUBLISHED)	importance of digital	with digital skills if classes
	skills, but has also	are targeted towards skills
(N.b. reports related	exacerbated factors	that are relevant to their
to this overview are	which make learning	interests (research shows
dotted around this	digital skills harder e.g.	video calling and
review)	anxiety, low confidence	messaging work well to
	and cognitive	increase motivation to use
	decline	the internet)
	*Though some of the	Sessions should be paced
	discussion here is linked	according to the learners,
	to classroom-based	with plenty of
	support – which may be	opportunities for
	less suitable for some	knowledge consolidation
	75+ much of the	_
	learning is transferable	Identify mechanisms to
	across settings – in line	minimise technical hitches
	· · · · · · · · · · · · · · · · · · ·	



	Ι	г
	with general findings (e.g., Good Things	and limit use of jargon – which are barriers to new
	Foundation/Alden	users
	review on loneliness	Deer to peer support is
	and digital) which identify that the	Peer to peer support is effective in motivating
	components needed to	people to become digitally
	run a successful intervention are less	included
	about 'what' is delivered	Clear step by step guides
	– and more about 'how'	including visual
	it is delivered	instructions should be produced, ideally also
		available as print out
		versions
		Ongoing support should be
		available, even after a
		project ends
		Having their own devices
		alleviates fears about breakages – so ideally
		factor in support or
		signposting to services
		that can support this – if needed.
		Teaching should take place in an easily accessible
		location
		The internet can reduce loneliness if part of a
		blended offer
The Campaign to	Reference to the mixed evidence about what	No one size fits all – this
End loneliness, 2020, Promising	works when using	lends support to the need for tailored and
Approaches	digital to alleviate the	personalised digital
Revisited: Effective	loneliness of older	interventions.



action on loneliness	people is mixed – e.g.	
in later life	social media has been	Blended online and face to
	found to both	face support – none of this
Also identified in	exacerbate and reduce	is targeted at 75+ though
unpublished work	loneliness	
with Good Things		
Foundation – around	Reference to blend of	
loneliness	digital and community	
	support and the	
	DevicesDotNow	
	Campaign is a joint	
	programme by Good	
	Things Foundation and	
	Future Now – reference	
	to positive impacts of	
	forging relationships	
	with local centres	
Maureen Moroney &	Chronically	Older people who are
, Alison Jarvis	isolated/lonely people	lonely encouraged to try
February 2020,	are more likely to have a	online if motivated with a
Loneliness and	negative experience of	clear goal; and appropriate
Digital Inclusion: A	online social	support is provided
Literature Review	interactions.	
		Also need to ensure
	Three non-material	language is simple and
	factors contribute to	jargon free where possible
	use of the internet:	
	perceived value to the	Showing how internet use
	user; self-efficacy; need	can contribute to financial
		savings was found to be a
	Digital can be	motivator (e.g.,
	'disempowering' when	demonstrating how to
	the perceived	access cheaper deals).
	complexity and	
	language associated	Some older learners will
	prevents interest in its	require repetition to
	use	reinforce learning - topics
		must constantly be
	Reference to avoidance	reviewed and the pace of
	of using abstract	learning must be slower
L		



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	language – such as 'going online'	Group sessions specifically for older learners may be more effective than intergenerational groups Ongoing support and training should be readily available and well signposted
		To address any concerns over internet safety: provide devices that have anti-virus and anti-malware software and raise awareness of phishing etc related to email and online banking
<u>CfAB</u> , 2021,	*Report aimed at 50-70	Need for interventions to
COVID-19 and the	year olds	be targeted/marketed to
digital divide	Reference to lack of	the 75+ age group and
	awareness of what is	those most likely to be
	available – digitally	digitally excluded within
	excluded older people	these groups for them to
	don't know where to	benefit from them. – good
	turn to access support	to find interventions that
		actively market the
OFAD 2010 The	Colf porception of	activity to this group
CfAB, 2018, The	Self-perception of	Need to ensure intervention is
digital age: new approaches to	cognitive ability is more of a factor in engaging	personalised to interests
supporting people in	with digital	of older person - need to
later life	than actual cognitive	view the internet as being
get online (with	ability	relevant and valuable to
Good Things		them and their interests
Foundation)	Families play a complex	
	role in the relationships	Need to factor in time to
	of older people to the	help build confidence.
	internet -enabling and	Frequent repetition is
	encouraging use whilst	needed to consolidate



simultaneously being a disabling factor A 'lack of interest' in the internet may in fact be due lack of self-efficacy	learning. Support should be open-ended so that learners can return when queries arise. Trusted intermediaries eg libraries are effective in generating engagement Highly structured courses dedicated to achieving set digital skills are unlikely to maintain interest or
	improve self-efficacy
	Simple language should be used and jargon avoided
	Self-efficacy is increased when tutors build a good relationship with their learners.
Some people, especially	Build motivation through
older people, feel the internet is 'just not for	finding a "hook'
them' (French, Quin & Yates 2019). Others	Focus on encouragement rather than training (Since
believe the internet is	the internet is an
too complicated for	'experience technology',
	trust grows with every
	positive experience (French, Quin & Yates 2019
	- Digital Motivation:
	Exploring the reasons
Reference to national	people are offline.).
guidelines, such as	
Good Things	Encourage individuals to
-	use the internet in a
	familiar setting for a short
guide to ornine safety	amount of time each day can help build positive
C Airc ScittAttft() FSCFV	A 'lack of interest' in the internet may in fact be due lack of self-efficacy Some people, especially older people, feel the internet is 'just not for hem' (French, Quin & 'ates 2019). Others believe the internet is oo complicated for hem to use or are earful of it and do not hink it is safe Fitzgerald 2020). Reference to national guidelines, such as



		routines and slowly develop trust and motivation online (French, Quin & Yates 2020). Suggestions for all ages tend to be similar to those targeted at older people (person-centred approach, avoiding jargon, allow space for repetition, long term support, use digital buddies)
BLCF, 2019 Bridging	This document focuses	Projects work well when
the	on 50+ though based	members feel: motivated;
<u>Digital Divide</u> –	on other evidence – the	have peer support; in a
Learning	main recommendations can be relevant to 75+	trusted group.
from Ageing Better		Three practical areas for
	Understanding where	helping people move
	OP are with their skills	online:
	can facilitate tailoring	
	the help they need:	Initial packages/kits (offer a support line with this –
	*Accessibility only:	or offer advisor to help
	People who have digital	those who wish to buy
	skills but cannot afford a device/data	their own)
		Ongoing bespoke support
	*Accessibility and skills People who do not have digital skills/interest to	(person-centred; finding that initial 'hook'
	learn and cannot afford	Guides and training (the
	a device/ data	entire internet can often
		be overwhelming for new
	*Motivation People who	users so breaking it down
	can afford a device but	into more manageable
	are not interested in	elements is less
	digital skills	intimidating; also avoid
		jargon; 'How to guides' are



*Skills only People who can afford a device/data and are interested in acquiring digital Skills	particularly helpful if they contain screenshots and simple language to guide a learner through a task) Digital Connector roles are key during the relationship building phase and ensure that the learner has tailored content, type and frequency of support Peer support is effective (ideally familiar with the participants device). A further key feature as to why this approach is working is reciprocity and the value of peer support. This has also been a common finding from our wider Ageing Better research. People value the opportunity to support each other. We also heard that linking into this as a motivation can be helpful – so explaining that family would like to see the person could be a useful tactic in encouraging someone to try and use video-conferencing.
	Telephone befriending can be a good route to beginning conversations around



	1	· · · · · ·
		engaging in digital
		opportunities,
Independent Age,	Main assessed barriers:	Show value ('hook'): tuning
Older people,	lack of home access to	into
technology and	the internet; low	interests, attitudes and
community	awareness of what can	expectations and
the potential of	offer (refer to 60-69	designing programmes
technology to help	years – though would	around needs.
older people renew	expect this to increase	
or develop	with age?); inadequate	Training and ongoing
social contacts and	marketing;	support help older people
to actively engage in	inappropriate design	overcome some
their communities	and anxieties.	of their anxieties, build
(for Calouste		skills and develop their
Gulbenkian	Based on review:	confidence in using
Foundation)	provision is patchy and	technology.
	often short-lived. In	
	general, projects	The view of most experts
	focused on getting	is that we have all the kit
	older people online as	that is needed. What we
	opposed to providing	lack is the human element:
	them with the ongoing	the people and
	support they need to	programmes to deliver the
	stay online.	necessary training and
		support
	Identified examples of	
	sustained good practice	Key features of
	– of the one still	interventions that worked
	running – <u>Digital Unite</u> ,	well: Good design,
	which applies	including appropriate
	technology creatively to	interfaces for the target
	enable older people to	group; Training focused on
	make connections, build	how older people want to
	social networks and	use technology; Ongoing
	actively engage in their	support from a trusted
	communities.	source;
		Low costs for participants.
NIHR, COVID-19:	This review is focused	Supported
Remotely delivered	on loneliness	video-communication
interventions to	specifically, and looks at	interventions are regarded
	· · ·	· · · · · · · · · · · · · · · · · · ·



reduce social isolation and loneliness Full Report Rapid review of reviews: what remotely delivered interventions can reduce social isolation and loneliness among older adults? Elisabeth Boulton*, Dylan Kneale*, Claire Stansfield, Paul Heron Katy Sutcliffe, Brenda Hayanga, Alex Hall, Peter Bower Dympna Casey, Laura Jefferson, Dawn Craig, Simon Gilbody Barbara Hanratty, Dean McMillan, James Thomas, Chris Todd *Joint first authors	over 50s, so focus on younger older – these factors need to be considered against interventions that look to tackle loneliness in older people (evidence above shows this is a particular issue for people ages over 75) Interventions vary greatly, making it difficult to isolate the effective elements – making comparisons and conclusions challenging. Online discussion groups and forums are less clear with mixed results, with increases in social support, but less evidence for improvements in loneliness. The evidence for social networking sites is weak.	 positively by older adults and have positive effects on loneliness and social support. Telephone befriending has not been widely researched, but qualitative studies suggest improvements in loneliness and social isolation. Multi-tool interventions (PC, training, messaging, chat groups) show decreases in loneliness, but not always increases in social support. Detailed analysis of the intervention components, which focussed mainly on social support (an indicator of social isolation), shows that following characteristics are present in effective interventions, supporting: Development of close relationships Interactions through ensuring participants share experiences/charact eristics Interactions through pastoral guidance??



		Assistants should be present to help people navigate new technology (but the presence of assistants can also be intrusive if they are present when participants are talking to family members etc) Group numbers should be small to minimise any technical difficulties encountered when working with people
		remotely One off training sessions are not sufficient - backup support is required High speed internet
		desirable to ensure smooth operation of online communication methods eg video call
Digital Communities Wales, 2021, good practice guide to digital for care homes	Guide aims to provide care homes with information required to understand how digital technology can be	Staff and leadership buy-in (need to consider confidence and skills of care home staff)
Digital communities Wales: digital confidence, health and well-being	used. Digital Communities Wales provide training, information, and equipment to support	Use of digital champions – doesn't specify if staff or resident – assume can be either.
	care homes to implement changes.	Quality internet connection crucial



Gives specific advice on how to set up digital activities, how to ensure residents can benefit from accessibility features.Digital devices - specific reference to tabletsUse a digital checklist (the can be viewed by clicking on left link - if potentially relevantUse a digital checklist (the can be viewed by clicking on left link - if potentially relevantOry, M. G, 2021, COVID-19 as a "Digital Push?"*International research on challenges with digital uptake in careSuccess of interventions to support internet use in care homes is highly	nis 9 /
ensure residents can benefit from accessibility features.Training and guides - offered free by digital communities WalesUse a digital checklist (th can be viewed by clicking on left link - if potentially 	9 /
benefit from accessibility features.offered free by digital communities WalesUse a digital checklist (th can be viewed by clicking 	9 /
accessibility features.communities WalesUse a digital checklist (th can be viewed by clicking on left link – if potentially relevantUse a digital checklist (th 	9 /
Ory, M. G, 2021, COVID-19 as a*International research on challenges withSuccess of interventions to support internet use in	9 /
Ory, M. G, 2021, COVID-19 as a*International research on challenges withSuggestions include music, reminiscence, 	. –
COVID-19 as a on challenges with to support internet use in	
1 "Digital Duch?" I digital untako in caro I caro homoc ic highly	ר
Research homes dependent not only on th	
Experiences From interest and motivation of)Ť
Long-Term Care and Review of research residents but also, and	
Recommendations shows care home even more importantly, o	
for the residents are less likely institutional mechanisms	3,
Post-pandemic Era, to take advantage of support structures, and	
Front. Public Health digital due to (a) opting opportunities. So activiti	es
not to use the Internet, need to take this into	
(b) living in an account at the outset	
Internet access is not Need to consider	
available, (c) not having connectivity, working with	h
sufficient support from staff, carers and relatives	
inside or outside their providing tailored suppor	
nursing homes, and (d) to those with	
having physical or health-related limitation	s.
cognitive limitations	
that limit or prevent ICT Understand digital	
use without assistance. engagement as a proces	S.



		rather than an intervention, that requires continuous engagement and support, as well as adequate infrastructures and skills, for both residents and care staff. Developing and implementing a different perspective on digital technologies that understands technologies not merely as an artifact or an instrument but also as a learning process that needs to be professionally supported. Support care homes to build an adequate infrastructure to enable the digital engagement of their residents Giving residents the ICT skills and training that they need by providing free-of-charge learning opportunities and ICT support.
Research and evaluat	ion of activities	·
Good Things Foundation	As part of the NHS Widening Digital	Person-centred design – provide opportunity for



Domontio and digital	Things Foundation	them and provide in a
Dementia and digital	Things Foundation	them and provide in a
participation for	supported Leeds	setting that they trust.
health and	Library Service to	Through listening to
wellbeing:	deliver a Dementia	participants - Leeds
supporting carers	Pathfinder in Leeds.	Library Service were able
and people living	This experimented with	to purchase equipment
with dementia	ways to support local	that was more likely to
	organisations, carers	benefit carers.
	and people living with	
	dementia to engage	Make the most of
	with digital. The	community assets:
	approach built on	Working with existing local
	existing community	partners and building on
	assets, working with	community assets was an
	organisations and	important focus for the
	groups across the city,	pathfinder. Early on, Leeds
	training Digital	Library Service did a
	Champions, lending	mapping exercise to
	digital devices, and	update existing
	providing resources and	information about services
	ongoing face-to-face	for carers and people with
	support.	dementia.
		Provide digital champion
		training to carers, as well
		as staff and volunteers:
		Digital Champion training
		proved a positive way to
		build digital confidence.
		Making this available to a
		wide range of people
		helped to build wider
		buy-in from local
		organisations and carers'
		groups, and increase the
		potential for sustainability.
		Embed digital activities in
		, , , , , , , , , , , , , , , , , , ,
		groups: Integrating digital
		Embed digital activities in community and carers'



		as an ongoing part of
		carers' groups and
		memory cafés helped both
		carers and support
		workers to develop digital
		confidence, in a supportive
		and social setting. It gave
		people confidence to try
		digital in different ways.
Good Things	Staff across 8	Interventions that operate
Foundation, 2020,	participating care	in care homes should look
Supporting Health	homes (WDP	to:
and Social Care Staff	programme) talked	
to Embed Digital in	about supporting	Provide support and
the Workplace	residents to benefit	training to staff
	from a range of digital	
	tools and platforms,	Offer a range of tools and
	including VR headsets,	platforms, to identify
	Fitbits, iPads, Amazon	those more suitable for
	Alexa and Skype.	the needs of residents
	The care home worked	
	with the provider to	Care homes should be
	identify ways in which	supported to embed digital
	staff could effectively	into the 'day to day'
	introduce digital to	
	residents:	
	Reference to effectively	
	using digital to support	
	reminiscence and	
	introducing digital as a	
	regular activity or part	
	of everyday life ("techie	
	Wednesdays", Alexa	
	introduced across a	
	care home).	
	As well as residents,	
	staff were learning	
	more about technology	
	too, and using this to	
L		ıI



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	offer further support to	
	residents and their	
	families.	
Good Things	Through Pathfinder	Engage unpaid carers -
Foundation, Digital	projects, explored how	they could be a key route
Health Labs: older	older people can be	into getting the people
people	supported to engage	they care for digitally
	with digital.	included and may
		themselves find benefit
	As older people are	from these skills
	increasingly being	
	diagnosed with	Consider accessibility:
	co-morbidities, digital	Signpost people who
	skills relating to online	cannot afford technology
	appointments and	to local library
	viewing health records,	services/venues
	can help	
	them regain confidence	Pitch skills support right:
	and control over their	Teach the basics first,
	health	including how to use the
		device safely. Think about
		how to offer tailored
		support to people with low
		confidence
		If "classroom based"
		teaching in small groups
		can help learners open up
		to each other and help
		with small problems.
		Classroom style learning
		will not be suited to all,
		consider offering one to
		one in a home
		environment or running
		more informal models.
Good Things	Refers to two case	Thanet assisted living
Foundation, 2020,	studies based on social	Go where people go:
Digital	care referral model in	hosting digital inclusion



	1	1
Inclusion in Health	Sunderland (working	sessions at assisted living
and Care: Lessons	with Age UK – worked	facilities ensures that
learned from the	with older people in	sessions are easily
NHS Widening Digital	deprived communities,	accessible for residents
Participation	acted as a referral route	
Programme	for social care) and	Digital champions were
(2017-2020)	using a peer led model	instrumental in shaping
	in an assisted living	sessions to be more
Good Things	facility in Thanet –	interesting and useful to
Foundation, 2019,	where older residents	other participants. They
Designing digital	were trained and	did this by prioritising the
skills interventions	supported to be digital	things that would improve
for older people	champions (with this	people's access and
	network reaching half	day-to-day experience of
	of all residents across 7	the internet. Since the
	schemes).	pathfinder ended, the
		peer-led group has
	71% of older and	continued to thrive. Digital
	disabled people	champions require
	supported to use Learn	ongoing support to help
	My Way 2019/20 felt	them help others.
	more independent as a	Co. docian online convioes
	result (Good Things	Co-design online services
	2020a)	with people with low
		digital skills older
	Also has useful learning	residents were critical of
	for HCPs that may be	poorly designed online
	useful across GM – so	services.
	though less relevant	
	here – may be useful to	Pay attention to disability
	signpost.	and diversity: Many older
		disabled people had
	Housing associations	struggled to use the
	have a growing and	internet without
	important role in	accessibility features.
	enabling digital	Digital champions brought
	inclusion of older	accessibility to the fore in
	people with care and	sessions. Many people had
	support needs. In	disabilities and valued
	Thanet, older people felt	support with managing



their housing	their anxieties about using
association could: (1)	the internet, learning to
improve internet access	stay safe online, and
and Wifi in communal	finding the right devices
areas and individual	and assistive tools.
apartments; (2) improve	
their own website,	Provide good and
especially log-ins; (3)	affordable internet access.
find ways to bring down	
the costs of devices	Digital aids and
and data packages for	accessories should be
residents.	included in workshop
	learning e.g Alexa can be
Access to online	used by people who find
resources reduces	typing difficult
isolation and increases	
wellbeing and personal	Sunderland (Age UK)
confidence for people	Linking to key staff can
with dementia. The use	support ongoing digital
of puzzles and games	use social care teams
helps people with	recognised the
dementia feel they are	opportunity to build
keeping their brain	support for digital skills at
active, and improves	a transition point: when
their sense of	older people are first
confidence and	referred to their service -
independence. The use	the start of their social
of reminiscence tools,	care journey (though
such as YouTube videos,	assessed challenge in
engages individuals	maintaining these links
with hobbies,	once funding ends).
memories, people and	
places - improving their	The social aspect of digital
sense of wellbeing.	inclusion classes can be
	equally or more important
Age-related, physical	to older people, helping to
barriers can stop people	reduce loneliness.
using technology. It's	Outreach classes were
essential to overcome	
	held in community
any physical barriers	settings in more deprived



	with adaptivo	areas to reduce travel
	 with adaptive equipment to ensure technology can be used successfully by people with dementia Tablets more effective than keyboard and mouse for delivering digital inclusion training for people with dementia Tailored, personalised interfaces on screens (no superfluous icons) Use a 'multi 	areas to reduce travel barriers that can prevent participation. Home visits were offered where this was more appropriate
	 Use a multi sensory' approach to support people with digital (visual prompts, smells) 	
Good Things Foundation, 2019, Intergenerational Digital Mentoring Anna Donaldson, Founder & CEO of Lively, gives us insight into their successful intergenerational learning model.	Mentoring model trains and employs young jobseekers aged 18-25 to help older people get online and use technology to connect, providing young people who are struggling to break into a job with valuable employment and experience. At the same time, focus on building meaningful connections between the young and older people who participate.	Ensure young people are trained to be digital mentors Many older people recounted experiences of asking their grandkids for help, only to have them whip through at a pace they couldn't follow, leaving them feeling silly and slow when they have to ask again. Part of the training is learning to empathise with a person who isn't familiar with technology and to ensure that they move at an appropriate pace.



	The employment model is that it provides extra dimensions of impact. Many young people who come to Lively hadn't previously thought about digital mentoring or working with older people – but find the experience so rewarding that it opens their mind to the possibility of working with older people in other ways, including in aged care. For many older people, knowing that they're supporting a young person's employment helps them feel more comfortable with the idea of taking all the time they need to get their heads around their technology questions.	One-to-one support: digital mentoring is always more effective when individualised support is offered. Friendly and informal environments avoid 'classroom' setups – more success when undertaken in comfortable and informal settings, such as a lounge, and preferably with morning or afternoon tea close to hand. We also know that coming along to a digital mentoring session can be a daunting step for many older people, so pay particular attention to providing a warm and friendly welcome to everyone who walks through the door. Interest-based learning don't have set programmes or 'curriculum'
Be Connected Evaluation This evaluation assessed the appropriateness, effectiveness and efficiency of the Be Connected program.	Australian context – includes interviews with participants 75+ Identify local mentors, older adults themselves and can build trust.	Proximity to a community partner mitigates barriers caused by reduced mobility 'The hook': hobbies and interests are key to getting older people interested in what the internet can offer



By Good Things Foundation Australia • 12/03/2021	When interests of the individual are at the forefront of learning, digital skills are effectively shaped	Learning modules should be accessible to beginners and should assume no prior knowledge of digital skills – also offer one to one even in group settings Resources must be kept up to date in line with changes in technology and the needs of the community Online safety is of concern to many people so starting courses with safety modules helps to alleviate these fears. Recommend: taking small steps, avoiding jargon, pre-empt potential connectivity/access barriers, written notes are helpful Games can be a good introduction to using a device (e.g. building confidence with a touch
		J J
Age UK, 2012, The digital inclusion of older people in care homes: Learning and	This is dated – have included due to high relevance based on GM priorities.	Importance of supporting training and confidence of staff, linking in with ICT expertise, and attending



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good practice from Reach for IT	Reach for IT engaged with 20 care homes, where 34 volunteers delivered a broad range of IT training sessions to 234 residents. Learning around wide variation of care homes - not just in terms of size - but culture.	resident and family meetings. Reference to importance of factoring in issues around connectivity, access to devices etc. prior to training sessions – need to give regard to residents who require specialist software – also ensure tailored to needs of residents – so offer a range of different equipment Need to give regard to care home scheduling/times. Incorporate an element of 'training the trainer', so the staff member feels confident and empowered to train and empower residents. Match volunteers and residents Encourage an approach that gives the resident access to equipment outside training sessions. For those with cognitive impairment need to factor in: the need to repeat information – also offer flexibility.



		One-to-one support was generally found to be the best way of ensuring that a resident learnt the
		necessary skills to carry out a particular activity.
		Suggest use of individual learning plans – involve family and friends if appropriate.
		Some reference to activities – e.g. reminiscence and life story, keeping digital
		activities interesting, link to hobbies - particularly for those with more basic skills.
<u>One Digital</u> <u>Programme</u>	Age UK worked with nine local Age UKs to	Loaning tablets for an extended time allows
	recruit and train	learners to become
Embodding digital	specialist volunteer	familiar with the device at
Embedding digital inclusion through	Digital Champions focused on the needs of	their own pace
Digital Champion	older people. The Digital	Digital Champions believe
approaches: lessons	Champions were	that one-to-one home
learned	integrated into the local	sessions are the most
	community.	effective way to support
	Como porticipanto mars	older people although they
	Some participants were over 70 – e.g. South	are resource intensive
	Lakeland – 41% were	Matching IT volunteers
	aged 70+ (some were	with clients
	aged between 80 and	
	90)	When learning in group
		settings, high ratios of
		Digital Champions ensure learners get the extra
L	1	learners get the extra



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		support they need, with
		the option of one-to-one
		sessions
		Digital Champions with
		language teaching
		experience can run
		specialised
		ESOL/digital skills sessions
Age UK (Alden et al.,)	Think Digital	through carrying out
Think Digital	Age UK, with funding	interviews with
programme 2021	provided by Santander,	participants at least a
(this offers a detailed	supported five local	month following formal
process evaluation –	partners to support	support via a digital
to support the	older people to develop	champion found that the
outcome evaluation)	their digital skills	following factors helped
	through individually	people to maintain digital
Offered tailored one	tailored support. Each	skills (thus reducing risk of
to one online	area employed a Digital	becoming a lapsed user:
support – using	Coordinator to offer	
younger and older	training and support to	Offering ongoing-
trained digital	staff and volunteer	light touch support
champions.	Digital Champions. Due	(e.g. providing a
champions.	to Covid-19 restrictions	phone number where
	training and support via	someone could
	telephone/or socially	check on something
	distanced face to face	they had forgotten)
	(such as in a Tesco	Provision of easy to follow, stap by stap
	carpark).	follow – step by step
		instructions of what
	Learning perceived as	was taught following
	particularly relevant to	the sessions
	75+ due to high	
	assessed proportion of	
	participants with	One Digital and Think
	complex and multiple	Digital
	health conditions,	Proven models that tend
	sensory and cognitive	to work with older people
	impairment, limited	to use digital include peer
	mobility (including in	support, flexibility, the


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the hands), and hearing	right language,
and visual impairments.	appropriate regard for
Many were also	accessibility, time to build
shielding due to Covid,	trust, the right pace, and
mainly living alone and	ongoing support.
retired. Some also	
struggled due to	Tailor service to an interest
affordability.	or need – and not as
	ʻdigital skills'.
Older carers and those	
with health conditions	Factor in time to offer
that meant they were	access related signposting
-	
housebound expressed preference for online	(signposting to Age UK services that support
•	
digital champion	financial checks/cheaper
support – once they	equipment)
had grasped how to use	
digital – as it was	Supplement with written
assessed as more	step by step resources.
convenient, a few	
expressed they could	Digital champion
not in fact attend face	mentoring models both
to face – so had in fact	with older peer and young
been excluded from	volunteers achieved
Age UK face to face	positive outcomes for
digital support.	participants in their late
	70s and 80s discussing
Some older people	how digital champions
(including those in their	contributed to improved
70s) identified that they	skills, confidence,
were 'missing out' when	self-esteem and
Covid hit – and they	motivation.
were no longer able to	
participate in the things	Importance of identifying
they had previously	a 'hook' for some
enjoyed (e.g., going to	participants the main
church)	'hook' was to remain
	independent and avoid
Follow ups showed	· ·
Follow ups showed	going into a care home –
nearly all those	the champions therefore



	interviewed had	shaped the learning
	continued to use and	around online financial
	develop their digital	transactions (such as
	skills after the support	shopping and banking
	ended.	online when they could no
		longer drive). Others were
		unable to attend their local
		church due to shielding –
		so were supported to
		access it via zoom (with
		one discovering she could zoom in on Vatican
		services – and began
		attending services 'across
		the world')
		Offering ongoing- light
		touch support assessed as
		useful – and longitudinal
		data suggests contributes
		to people maintaining
		digital skills – thus reducing risk of becoming
		a lapsed user)
		Recommend drawing on
		lived experience when
		designing interventions;
		the value of a place-based
		approach (being a known
		organisation, ease of
		signposting to local services.
Evaluation of the	The project supported	To ensure that particularly
Digital Angels	older people/care home	isolated, or housebound
project (Age UK	residents to get online	older people are reached,
Leeds)	as well as helping them	the project team felt that
Alden and Wigfield,	to network in their local	running a digital inclusion
2018	communities, such as	project that was not
	through running digital	



	I	
	tea parties in community centres and libraries	classroom based, was particularly important.
	Though older people	Need to factor in sufficient
	attended group online	time to support people to
	sessions and engaged	get online (needed to
	with online learning,	double the initial duration
	volunteer trainers observed that many	of support)
	turned up to meet	
	others in their local	
	area: "I found people	
	who turn up for groups	
	were doing it more for	
	social than technical reasons, some didn't	
	turn the machines on	
	they really appreciated	
	getting out of the	
	house" (Volunteer)	
BLCF (Big Lottery	Qualitative research: 9	Project location can
Community Fund)	interviewees – 7 were	influence the diversity of
21, Can the use of technology help to	over 75. Of 83 participants – 51 were	participants attending projects – with some
reduce social	over 75.	requiring targeted
isolation and		outreach – this included:
loneliness?	This report shares	men and older residents
An in-depth study of	learning from an	from Asian and Chinese
digital inclusion	in-depth study of two	communities. Ensure
projects for older people living with, or	Connect Hackney digital inclusion (DI)	sufficient capacity for dedicated outreach,
at risk, of social	projects – @online club	promotional work and
isolation and	and Silver Connections	relationship building with
loneliness before	– which were delivered	other organisations to
and during the	by local community	reach these participants.
COVID-19 pandemic	organisations. @online clubs were 8-week	Drovido o worm occial
	group sessions which	Provide a warm, social learning environment;
	aimed to build older	focus on basic technical
	people's skills in using a	content using plain
-		· · · · · ·



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	tablet device while	English and simple
	Silver Connections	analogies.
	groups were 6-week	Employ facilitators with
	group sessions in using	Employ facilitators with
	a smartphone. Both	high levels of social and
	projects aimed to	communication skills
	develop participants'	Attend presetively to
	confidence and skills in	Attend proactively to
	using applications	accessibility issues to
	('Apps') and the internet	support participants with
	- which evaluation	physical, cognitive, or
	findings show were achieved.	sensory impairments.
BLCF, 2021, <u>Micro</u>	This is targeted at over	Peer support from group
Funding Digital	50s – though	members and/or younger
Inclusion Learning	specifically those	family members was
from Ageing Better	affected by loneliness	crucial to sustaining
in Birmingham	and social isolation –	participation, especially
	which is statistically a	for those who initially
	particular issue for	struggled to use new
	people 75+	technology.
	This is also an	
	interesting 'micro	Participants showed
	funding' model.	strong commitment to
		connecting online with
	Issues identified	peers, which helped
	included: some	motivate them to sustain
	participants reported	participation and build the
	feelings of	confidence to learn
	embarrassment about	something new.
	their lack of digital	
	skills. Differing COVID	
	vulnerability levels	
	meant some members	
	were more likely to	
	continue shielding	
	when in-person activity	
	was allowed, leading to	
	potentially discordant	
	group dynamics	



	between those that could and couldn't meet in person. Once online, people report using the internet for other activities such as shopping, playing games, connecting with family, reading news and exercise classes etc.	
	Reference to specific challenges running online activities and reports of technical issues.	
HMR Circle, 2020,	* Based on a survey	Older people prefer to
Bridging the Digital	administered online and	learn in an informal
Divide (Greater	paper (210 responses).	environment, where
Manchester	Half (49%) of	learning can be tailored to
organisation – case studies included	respondents were 75+ (a further 22.3% were	their specific needs.
later)	70-75 years)	HMR Circle applied
		services based on the
	Included paper, as well	feedback, including
	as online survey	promoting digital services
	platform.	to raise awareness of the
	This report identifies	benefits of digital, as well
	the	as running introductory
	reasons for the digital	level informal workshops
	divide experienced by	
	HMR Circle members.	Supporting accessibility:
		allocated budget to
	The main barriers to	purchasing 4G dongles to
	digital technology for	provide internet access to
	older people include	all members who own or
	lack of knowledge,	borrow a device - whilst



	 absence of faith in security and privacy, limited self-confidence, and apathy. 3 in every 4 HMR Circle members who completed the survey worry about being scammed. 	HMR Circle await their funding to provide WiFi for members. Also building a partnership with BT to arrange affordable WiFi connection deals for HMR Circle members. Recruiting digital support volunteers – focus on one to one peer support from practical helpers who currently volunteer with HMR Circle in informal environments. Also running more formal workshop to help upgrade skills – including around safety and use of apps – with Good Things Foundation.
Hackney Council Buddy system (intergenerational)	Hackney created a Buddy System to help connect local school-age (16-18 years) volunteers with older residents to support them getting online. Adapted the buddy system developed by the Salford Foundation to provide one-to-one tuition (digital skills training) by younger volunteers. Every buddy is required to go	For scalability - ensure that the scheme is volunteer-based. Existing resource - Hackney utilised current cohort of ICT Support Apprentices and made volunteering a part of their training. Set clear expectations to all sides (volunteers and older residents) Take the time to understand the motivations of older people before rolling out



	through a training programme. Beyond staff time, the scheme did not incur any additional costs. The resources had already been created by Salford Foundation, and further resources have since been developed by the Hackney team and are available for reuse.	specific courses/subject matter Not everyone can be helped directly, but it's important to still support those whose needs cannot be met through the scheme through effective signposting (Digital skills, AbilityNet) Marketing is key - circulate offline materials, and online, create engaging
		content such as social media posts and videos. For ease, standardise copy so it's ready to go, and repeat. Relationships - encourage those with healthy and effective relationships with schools to support the scheme.
Fincap.org.uk, 2018, Get £ F+IT - does increasing the digital skills of older people increase their financial capability?	Run by Cornwall Rural Community Charity (CRCC) and aimed at 60+ The target group experienced a range of accessibility and deprivation issues - aimed to increase digital financial literacy and capability. Activities focused on developing participants online skills to manage their money, through	Being 'hyper local', finding venues that older people could walk or 'scoot' to worked well. Ensuring the right format was important. Fun and engaging content that was applicable to the needs of older people helped to maintain participants' interest. Recruiting and supporting
	six half-day digital	local community



inclusion sessions. Tools and online resources were also provided. The project was delivered by three members of staff, and local community volunteers. 132 people participated in the programme.	volunteers led to peer-to-peer support and the on-going championing of financial capability. Maintaining partnerships helps provide participants with wraparound support (e.g. care planning, benefits take-up, debt
Outcomes showed improvement to digital literacy	advice). Co-design: older people are an invaluable resource, and were an integral part of, the project. They helped CRCC design and deliver the project. Some participants became volunteers ('community champions'), to continue developing financial capability in rural communities after the project.
As with most interventions – this discontinued once funding ended. The pilot tested the viability of lending tablets with mobile internet access and basic digital skills training, as a way of reducing digital exclusion in the capital.	Supporting accessibility through equipment and data access may be insufficient for some without more resource and time provided to develop skills. Need to factor in cost – particularly where access to technology or data is time limited – importance of offering public access
	Tools and online resources were also provided. The project was delivered by three members of staff, and local community volunteers. 132 people participated in the programme. Outcomes showed improvement to digital literacy As with most interventions – this discontinued once funding ended. The pilot tested the viability of lending tablets with mobile internet access and basic digital skills training, as a way of reducing digital



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	Targeted toward	Recommend community
	Londoners over the age	venues such as libraries to
	of 55, in receipt of	provide access point to
	benefits, and disabled	lending and training –
	or housebound	working as
		connectors/gateways
	Tablets were lent via	, <u>g</u> , e
	borough libraries and	
	other community	
	centres.	
	Outcomes:	
	predominately older	
	Londoners, nearly half	
	said they would	
	consider buying their	
	own devices - over	
	50% felt they needed	
	more training.	
	Linked likelihood of	
	borrowing a tablet to	
	access to training.	
Lee, Othelia	*USA based research	Adopt an active learning
Eun-Kyoung; Kim,	setting	approach environment
Do-Hong (2018).	5	focused on producing
Bridging the Digital	A total of 55 older	intergenerational relation-
Divide for Older	adults (mean age =	ships that can help older
Adults via	73.82) based in	adults to perceive the
Intergenerational	residential settings	benefits and efficacy of
Mentor-Up.	participated in	the Internet. Taking a more
Research on Social	six-session tutorials.	learner-centred approach
Work Practice	Positive outcomes	
		may facilitate behaviour
	reported - eHealth	change to comprehend
	literacy, technophobia,	and adapt to new
	self- efficacy, interest,	technology. Older people
	self-confidence, and	were asked what they
	social isolation,	wanted to learn prior to
	demonstrated medium	each session – then paired
	to large effect sizes.	with an appropriate



		mentor who was best placed to support this.
		Ensure training adopts
		cultural sensitivity when
		communicating with older
		people.
Breck BM, Dennis	Reverse mentoring can	Qualitative analysis
CB, Leedahl SN.	improve social	revealed three themes
Implementing	connection by	related to social
reverse mentoring to address social	increasing the digital competence of older	connection:
isolation among	adults so they can use	(1) an increased sense of
older adults. J	technology for social	self-efficacy for older
Gerontol Soc Work.	benefit, and by	adults as they build
2018	facilitating	confidence in
Jul;61(5):513-525.	intergenerational	technological use, and for
	connections with young	young adults as they
	adult mentors.	develop leadership skills
		through mentoring,
	In this paper, reverse	
	mentoring is examined within an	(2) the breaking down of
	intergenerational	age-related stereotypes, and
	program that serves	
	older adults and utilizes	(3) intergenerational
	the native technological	engagement and
	knowledge and skills of	connection.
	young adults who	
	mentor older adult	The findings demonstrate
	participants.	that reverse mentoring
		can be used in various
		settings to decrease the
		social isolation of older adults by developing
		intergenerational
		connections and
		increasing older adult
		usage of technology.



	1	1
<u>Journal of</u>	N.b. project from 2011	iPads provided a flexible
<u>Gerontechnology</u>	This article explores the	and adaptable means of
The iPad project:	experiences and	engaging residents, their
Introducing iPads	potential benefits and	relatives and staff in both
into care homes in	barriers of iPad use in	one-to-one and group
the UK to support	63 care homes for	sessions – though some
digital inclusion	residents with	issues around touch
	dementia, their	sensitivity for residents.
	family/friends and care	
	staff and considers	Though relatively low cost
	ways in which iPads can	for the iPads – need to
	be used in care	consider initial outlay and
	settings.	need to consider provision
		of support.
	Barriers to the	
	deployment of	iPads offered a new means
	technologies for use by	to increase social
	professionals, which	interaction and resident
	could affect use in care	engagement.
	homes. These include	
	lack of usability;	Suggestions for
	problems with access	interventions: Need a
	to the health IT	comprehensive IT
	applications; low	infrastructure, training
	computer literacy in	and support, provision of
	patients and clinicians;	iPad, identify staff to
	insufficient basic formal	manage the iPads
	training in health IT	
	applications;	
	physicians' concerns	
	about more work;	
	workflow issues;	
	problems related to new	
	system implementation,	
	including concerns	
	about confidentiality of	
	patient information;	
	depersonalization; and	
	incompatibility with	



		,
	current health care	
	practices	
Othelia Eun-Kyoung	*USA based	One to one - personalised
Lee and Do-Hong	Intervention that	training, helped to
Kim, Bridging the	engaged college	decrease anxiety and
Digital Divide for	students in	boost confidence.
Older Adults	tutoring older adults (n=	
via Intergenerational	55, mean age 73.82),	
Mentor-Up,	participated in tutorials	
Research on Social	– found significant	
Work Practice	improvement in eHealth	
2019, Vol. 29(7)	literacy, technophobia,	
786-795	self-efficacy,	
	and interest in	
	technology.	
	Intergenerational	
	interaction helped to	
	decrease social	
	isolation among older	
	adults.	
Martínez-Alcalá,	*Mexico based study –	Conclude that older adults
Claudia I.;	average age for men 73	learn digital literacy skills
Rosales-Lagarde,	years.	in different
Alejandra;	This study involved 09	environments/settings -
Alonso-Lavernia,	This study involved 98	as long as they are
María de los Ángeles;	adults aged 60 and	strongly motivated, or they
Ramírez-Salvador, José Á.;	above, 72 Females (68.5 ± 6.9) and 26 Males	know the functional benefits related to ICT.
Jiménez-Rodríguez,	(73.3 ± 7.4). 61 older	
Brenda;	adults participated in	
Cepeda-Rebollar,	the face-to-face	
Rosario M.;	workshop (FFG) on	
López-Noguerola,	digital literacy and 37	
José Sócrates;	participated in a	
Bautista-Díaz, María	blended workshop	
Leticia; Agis-Juárez,		
	(BLG).	
J. J	(BLG).	
Raúl Azael (2018).	(BLG).	
Raúl Azael (2018). Digital Inclusion in	(BLG).	
Raúl Azael (2018).	(BLG).	



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Between Face-to-Face and Blended Digital Literacy Workshops. Frontiers in ICT, 5(), 21–. doi:10.3389/fict.201 8.00021		
López Seguí F, de San Pedro M, Aumatell Verges E, Simó Algado S, Garcia Cuyàs F An Intergenerational Information and Communications Technology Learning Project to Improve Digital Skills: User Satisfaction Evaluation JMIR Aging 2019;2(2):e13939	Digital Partners" is a digital learning project carried out in Catalonia from April to May 2018. Created a training space with 38 intergenerational partners (aged 14-15 years and >65 years), with the aim of improving the older person's digital skills in terms of use of smartphones and tablets. Project was evaluated	Ensure older people have the chance to practice with the device Ensure it is holistic: individuals choose what they wished to learn Provision of written materials. Recommend ensuring sufficient time during sessions and increasing number of sessions to reflect level of support needs.
Haase KR, Cosco T, Kervin L, Riadi I, O'Connell ME Older Adults' Experiences With Using Technology for Socialization During the COVID-19 Pandemic: Cross-sectional Survey Study JMIR Aging 2021;4(2):e28010	Focus on 65+, Canadian context - conducted a cross-sectional, population-based, regionally representative survey by using the random-digit dialing method to reach participants aged >65 years who live in British Columbia – 400 adult's average age. 72.	Activities should look to apply elements of identified facilitators – including linking in with family and friends, giving regard to access and accessibility and explore ways to motivate older people through linking digital to an interest.



	Older adults reported the following key barriers to using technology: (1) a lack of access (including finance, knowledge, and age-related issues); (2) a lack of interest (including a preference for telephones and a general lack of interest in computers); and (3) physical barriers (resultant of cognitive impairments, stroke, and arthritis).	
	Facilitators: (1) a knowledge of technologies (from self-teaching or external courses); (2) reliance on others (family, friends, and general internet searches); (3) technology accessibility (including appropriate environments, user-friendly technology, and clear instructions); and (4) social motivation (everyone else is doing it).	
Based on DIGITOL Context analysis report: A cross-country analysis of digital	Considers needs and preferences of older adults for digital and media literacy training with a focus on	Training should give regard to practical and accessibility needs



literacy training for generations to combat fake news together (Erasmus + programme of the EU)	combating disinformation and hate speech online – covers Bulgaria, Germany, Greece, and Italy. Most older people are trained, most initiatives focus on digital skills to use digital devices and the Internet but very few address how to understand and interact with online content.	Ensure training content is tailored Trainers need strong social skills of - especially in interpersonal relationships, as well as a participatory and collaborative atmosphere ensuring mutual respect and ownership by participants from all age groups. *This article references a
		range of intergenerational initiatives across the participating countries.
Chen YR, Schulz PJ	*It isn't clear what age	YouTube enables older
The Effect of	parameters are used for	people to engage with
Information	this reviewMixed	younger people outside of
Communication	evidence about	their family circle that
Technology	interaction between the	share similar interests
Interventions on	internet and loneliness	
Reducing Social	for older people	
Isolation in the revy:	High drop off rates in	
A Systematic	High drop off rates in	
Review J Med Internet Res	studies imply that digital skills (at least in	
2016;18(1):e18	the form provided by	
	the studies) is not	
	suitable for everyone	
Seifert A, Cotten SR,	*international in scope	Interventions need to train
Xie B. A Double		and support staff who may
Burden of	Older adults who are	need to in turn support
Exclusion? Digital	frail and/or live in a care	care home residents with
and Social Exclusion	home and are not online	cognitive impairment who
of Older Adults in	struggle with the	may require assistance to
Times of COVID-19. J	double burden of social	use digital.
Gerontol B Psychol	exclusion.	-



Sci Soc Sci. 2021 Feb	Providing
17;76(3):e99-e103.	equipment/access alone
doi:	insufficient – need to
10.1093/geronb/gba	couple with skills support.
a098. PMID:	
32672332; PMCID:	
PMC7454901.	

Table Five: Smart homes/digitally enabled household appliances

Wider evidence base		
Housinglin, Sept 2021,	Although this article	Ten foundational TAPPI
The TAPPI Inquiry	focuses more on	principles: Adaptable;
Report: Technology for	design elements, and	Co-produced; Quality
our Ageing Population:	therefore out of scope	focused; Cost effective;
Panel for Innovation –	– have included as it	Choice-led;
Phase One	provides a useful	Preventative;
	overview of what	Person-Centre;
TAPPI = Technology for	should be considered	Interoperable;
our Ageing Population		Outcome-focused;
Panel for Innovation		Inclusive
NIHR, 2018, Help at	This review presents a	Refer to the need to
home – use of assistive	selection of recent	engage with community
technology for older	research on assistive	nurses, OCTs and similar
people	technology for older	when supporting older
	people funded by the	people to use digital in
	National Institute for	the home.
	Health Research (NIHR)	
	and other government	Reference to research
	funders.	which found that
		installation was often
	Important to	wrongly seen as a
	understand how older	one-off event, rather
	people use technology	than an ongoing process
	in the home – less	for getting the best out
	research focus on this.	of the technology.



	Reference to the fact that research has tended to focus on more high-end tech rather than more basic devices that support day to day tasks	Overall, this study found that users of telecare often struggle to understand and engage with the technology in their homes with most depending on existing networks, including family carers and volunteers.
Ghorayeb, Abir; Comber, Rob; Gooberman-Hill, Rachael (2020). Older Adults' Perspectives of Smart Home Technology: Are We Developing the Technology That Older People Want?. International Journal of Human-Computer Studies, (), 102571–. doi:10.1016/j.ijhcs.2020. 102571	Participants have different understandings of smart home technologies. Among participants who had already tried it, acceptance increased over time and with use. They expressed fewer concerns than non-smart homes participants regarding privacy, trust, usability, and more concerns about utility.	Older people must be able to know how, where and what kind of information is transmitted. Older people need to see the benefit of the technology, to be able to customize it and to have control over it. The technology needs to be able to be 'self-taught'. Family members, children, and carers may influence older people's adoption of new technology and could be included in discussions about it.
Cannizzaro S, et al (2020), Trust in the smart home: Findings from a nationally representative	Older people were the least trusting about smart home device reliability	Suggest need for interventions to work on building trust and confidence – this will likely require one to one holistic support –



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survey in the UK. PLoS		potentially in the older
ONE 15 (5).		person's home.
Jo TH, Ma JH, Cha SH.	*international study	Identified a need to raise
Elderly Perception on	Evaluated benefits and	sufficient awareness
the Internet of	negative responses. A	regarding the potential
Things-Based	set of sensors required	benefits of smart
Integrated	for an ISHS was	technology for the home
Smart-Home System.	determined, and	(as well development of
Sensors (Basel).	interviews were	ensuring "age friendly")
2021;21(4):1284.	designed based on four	design
Published 2021 Feb 11.	factors – identified via	
doi:10.3390/s21041284	an evidence review as	
	important factors	
	supporting adoption:	
	perceived comfort,	
	perceived usability,	
	perceived privacy, and	
	perceived benefit. Subsequently,	
	technological trials of	
	the sensor-set followed	
	by two focus group	
	interviews were	
	conducted on nine	
	independently living	
	elderly participants at a	
	senior welfare centre in	
	South Korea.	
'Smart homes' to help	A number of 'smart	Though still running – a
older and disabled	homes' with digitally	useful model which
people get digital skills	savvy older people	adopts peer support to
and tackle loneliness in	demonstrating tech in	increase confidence and
rural areas	their own homes are	skills around smart
The scheme is part of	being created as part	home tech.
funding from DCMS	of an innovative	
awarded to innovative	scheme to boost the	
projects to help people	nation's digital skills.	
develop digital skills		
	The homes, to be	
	created in rural West	



	Essex by a partnership led by Uttlesford Council for Voluntary Service, will see home owners become trained 'digital boomers' to help others improve their digital skills. They will receive a digital assessment, before having their homes 'kitted out' in tech.	
	The experts will then open their homes for older people to visit so they can learn first hand from their peers how to make the most of smart technology to control household appliances, book GP appointments online, contact friends and family by video, and shop online. Younger, 'digital buddies' will also be on hand to support with digital skills.	
Barnicoat, G., Danson, M., 2015, The ageing population and smart metering: A field study of householders' attitudes and behaviours towards energy use in Scotland, Energy Research & Social Science, Volume	Reference to price being one of chief factors when purchasing smart tech. Identified older people who struggled to understand how to use smart meter – examples of people	Feedback suggested some older people preferred to learn how to self-manage e.g. gas CH through a smart device – and did not wish this to be controlled by an external supplier – due to perception of losing



	· · ·	.
9, September 2015,	using more expensive	freedom and choice –
Pages 107-115	options due to	though there was some
	operational difficulties	move toward
	e.g. using an	acceptance of this if it
	immersion heater as	meant saving money.
	unable to boil kettle)	
		Following (S. Darby, E.
	Many older people	McKenna, Social
	across the UK show no	implications of
	wish to switch and	residential demand
	have little knowledge	response in cool
	of smart technology. In	temperate climates,
	all, individually and as a	Energy Policy 49 (2012)
	group there is a lack of	759–769): uptake would
	awareness of the	be facilitated through a
	changing energy	series of features being
	technologies with little	embedded into supply
	evidence of peer	contracts: simple, clear
	pressure or other	tariffs; data privacy and
	drivers to change	security; good feedback
	behaviour	systems for both
		consumers and
		suppliers; and better
		customer education.
CfAB, 2021, <u>The Good</u>	The increasing use of	Highlight a need for
Home Enquiry,	digitally enabled	ongoing
Enhancing	technology within the	awareness-raising and
	home means that	education on the
our homes through		
digital connectivity, CfAB.	anyone left without a	benefits, potential and
CIAD.	good internet connection or the skills	opportunities of digital
	to make use of it will be	connectivity and the
		associated applications
	left at a disadvantage.	and devices as well as
		support for people to
	Currently the language	understand issues of
	of connectivity and	data use, consent and
	technology does not	security.
	resonate with	Important to address
	significant numbers of	access and affordability
	people, so engagement	issues due to cost – this



	in a challense i	
	is a challenge as is	can be positive (e.g.
	getting information to	highlight savings) –
	those who need it most	though also support
	and in ways that	around initial outlay
	register with people.	(purchasing DEA)
Greater Manchester cont	text	
Feedback from GMOPN (GM OP network) (obtained via email from Jo and Bernadette Elder, CEO, Inspiring Communities Together, AFS delivery lead	Identified widespread issues - a gap in skills and confidence to use digital appliances is having a significant negative impact on older people's ability to live independently. Bury's social prescribing service, most of the older people said they had issues with digital equipment from washing and drying machines, microwaves, thermostats for the central heating boilers and cars and services which have a digital interface such as smart ticket readers on public transport. Examples provided: • An older woman pays her cleaner	Interventions that focus on helping people 75+ learn how to use DEAs. Care & Repair Manchester's handy person service provides some technical support, but this is beyond the formal remit of their contact. They have 11 handy persons visiting around 7,000 people in their homes every year – help with tuning TVs and setting up virtual assistants such as Alexa. Their support doesn't currently include internet related support, but they would like to do more
	to go to her house to switch on her washing machine, the	
	reason being it's	



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 digital and she's frightened of it An older man who trailed around every shop to try and buy a non-digital washing machine, but he couldn't get one An older woman had her heating on during the recent warm spell because she didn't know how to switch it off Older people seen asking for help at tram stops to use their travel pass on yellow smart readers the 	
Metrolink Suggest wider digital inclusion issues around household appliances are more pressing for over 75s than access to the internet, having a negative impact on their wellbeing and ability to live independently (important to note there is limited evidence as to whether this is something that can be said for the 75+	



		1
	population more	
	generally).	
	Supporting 75+ to use	
	DEA can be	
	steppingstone to	
	getting online.	
Feedback from Salford	Participants were	Offer responsible and
(AFS)	asked what their	flexible support
	thoughts were on the	identified as a useful
Discussion took place	wider use of digital	exercise as highlighted
as part of virtual Brew	equipment. Response	an opportunity to
and Chat session	was mixed – some felt	explore the wider digital
Number of participants:	it would be useful,	agenda when delivering
14	others worried about	tech and tea. Volunteers
Number of volunteers:4	privacy, safety and	offered advice and
	choice.	resource links during the
		session (e,g. loTs in
	Examples of	accessible language,
	participants	using Bluetooth to set
	embracing:	temperature,
		information about smart
	**Jane explained that	meters) – also looking to
	she had left her mobile	identify someone to
	on the bus and called	come to a session to
	it, when the driver	discuss smart meters in
	answered he said he	response to this being
	was passing her house	assessed as useful.
	and gave a timeshe	Concerns also to be
	asked Alexa to remind	addressed during a
	her to collect it at the	"tech and tea" session
	time the driver gave	
	her, without doing that	Service also promotes
	she could quite easily	use of youtube to find
	of forgotten.	how to guides and often
		share links or watch
	AND	together as part of the
		session to help people
	**Margaret I have a	build their confidence to
	new security system,	try new technologies.



bryonie.shaw@ ageukwiganborough. org.uk (Age UK Wigan)Based on discussions with home help and handy person services and we do have a number of examples where our older customers really struggle digitally with items around the homeHH and HP service help customers setting up TVs, telephones and answer machines. The HHs have also said if family live away the HH have followed the family's instructions to sort the problem especially this time of year when the clocks change.Dorothy Evans MSc, MCMI, Chief Executive, African Caribbean Care GroupService users report difficultly using DEA - reference to it being "fidgety" and "complicated" - reference to struggling to use a microwave or being unable to read and follow instructions due to language or sensory barriers (e.g. eyesight problems). An 81 year old attributed DEHA to losing herHH and HP service help customers setting up TVs, telephones and answer machines. The HHs have also said if family live away the HH have followed the family's instructions to sort the problem especially this time of year when the clocks change.Dorothy Evans MSc, MCMI, Chief Executive, African Caribbean Care GroupService users report difficultly using DEA - reference to struggling to use a microwave or being unable to read and follow instructions due to language or sensory barriers (e.g. eyesight problems). An 81 year old attributed DEHA to losing herHH and HP service help		which take photos of anyone at my door. I find this very reassuring.	Advice from volunteers who can relate own experience (e.g. of volunteer talking about her Bluetooth hearing aids)
MCMI, Chief Executive, African Caribbean Care Group difficultly using DEA – reference to it being "fidgety" and "complicated" – reference to struggling to use a microwave or being unable to read and follow instructions due to language or sensory barriers (e.g. eyesight problems). An 81 year old attributed services to focus on supporting independence through helping people to feel safe/comfortable using DEA.	<u>ageukwiganborough.</u> <u>org.uk</u>	with home help and handy person services and we do have a number of examples where our older customers really struggle digitally with	customers setting up TVs, telephones and answer machines. The HHs have also said if family live away the HH have followed the family's instructions to sort the problem especially this time of year when the clocks
independence – due to becoming reliant on others.	MCMI, Chief Executive, African Caribbean Care	difficultly using DEA – reference to it being "fidgety" and "complicated" – reference to struggling to use a microwave or being unable to read and follow instructions due to language or sensory barriers (e.g. eyesight problems). An 81 year old attributed DEHA to losing her independence – due to becoming reliant on	services to focus on supporting independence through helping people to feel safe/comfortable using
Trafford Carers,Examples of carersThis expresses a realMichelle Groganstruggling toneed to fund resources		Examples of carers	·



	understand instructions for an oven – which directs person to go online to find out more – but they don't have the means to get online. Also examples of carers not using a smart meter or heating – with one "sat in the cold" due to not knowing how to use the auto functions and not wanting to be "constantly calling on people"	that can offer tailored support – feedback showing negative impact on independence, and also potential negative impact on health ("sitting in the cold")
Aidan Mcilroy, Digital Inclusion Officer, Didsbury Good Neighbours	Provide examples of participants struggled to set up Smart TV, a dashcam and a microwave – though do not receive many enquires (though acknowledged service is aimed at supporting older people to get online) "My personal opinion is that this particular aspect of digital inclusion is one that will surface a generation down the line as the technology becomes more affordable and accessible over time,	Worker referred to offering tailored, one off support to help someone understand microwave settings – who wrote down clear and simple instructions following a demonstration – however – this is not part of the service offer – which focuses on going online. Also need to consider if require ongoing support – based on evidence to support 75+ to go online – it seems reasonable to suggest the need for tailored, ongoing support will also be



appliances."



Appendix 2: Search strategy

Research Plan: collation of evidence across Greater Manchester and elsewhere of activities that have aimed to engage older people digitally, focusing on those over 75 years old.

The search strategy will cover national and GM level academic and grey literature and its purpose is to inform a blueprint and more detailed report (the latter will provide details of the evidence collation – including key gaps).

 National and GMCA level overview/context, information relating to:

This stage will provide an overview of the wider digital context for 75+, with a focus on inequalities experienced by particular groups, will look at:

- Digital access, confidence, skills and motivation for 75+
- Key stats around risk factors relevant to this demographic (e.g. health, comorbidities, living alone, carer status, other inequalities as identified through the search)
- Index of multiple deprivation and GM digital exclusion risk index tool.
- 2. Mapping the solutions

Brought to you by



a, Evidence review of what works/does not work/barriers/enablers/gaps etc:

- Documents provided through GMCA (including from Joe's 'call for evidence', any other resources)
- Internal review of Good Things Foundation and other research resources (e.g. previous D.I work; evidence been involved with/are aware of)
- Desk based academic and grey literature review (covering evidence reviews, reports, monitoring and evaluation).

We already know there is a lack of evidence of what works for the 75+ group – this search will be pragmatic and draw on evidence related to known risk factors for this age group. Evidence will focus on: a, processes (e.g., key learning such as ensuring intervention is person-centred) b, outcomes (e.g. which models are most effective for developing skills of 75+ etc.)

b, good practice examples (case studies, blogs, briefings etc.)

- Desk-based search and targeted search of key GM organisations/funders (e.g. NIHR – Greater Manchester; Manchester university NHS foundation trust/Great Manchester ICS; Age UK; National lottery community fund; United for all ages)
- Internal review of Good Things Foundation evidence



 Examples of good practice will shine spotlight on GMCA context AND prioritise 75+ OR targets relevant groups (e.g. OP, cognitive impairment) OR provides a solution to a known barrier to 75+ (e.g. lack of skills)

Keywords

Mix of generic terms: e.g. digital

inclusion/exclusion/accessibility/connectivity/divide/technology 75+ (with specific local keywords for GM area); older people (generic; 65+ - will identify if these stratify findings for 75+ will also search terms used to describe older people ('elderly' 'pensioners' etc.)); this will mainly draw on variables in table below.

Will search for all age examples of services and interventions/evidence reviews if potentially split by age group (reverse mentoring, befriending, tackling social isolation, skills and confidence training etc)

Identified GMCA priorities (focus for blueprint):

- 1, Reverse mentoring
- 2, Fear of digital (tackling confidence/motivation

Table: Main search parameters

Population

• Older people living across Greater Manchester



- 75+ (first level)
- Older age (i.e., all OP, people over 65)
- Older people with health or care needs (disability, LTHC) including though not limited to: arthritis, asthma, diabetes, epilepsy, angina, heart failure, high blood pressure (hypertension), COPD, cognitive impairment, falls risk, MSK, sensory impairment. Focus on conditions more likely to be experienced by 75+ (cognitive impairment, physical, sensory etc. multimorbidity/comorbidly, frailty)
- Specific communities (will be overlap here with other variables): older people from minority ethnic groups (focus on Bangladeshi backgrounds – identified as having challenges in terms of health and deprivation across GM; language groups (Pakistani, Bangladeshi), Chinese population; the deaf community; LGBT; faith groups
- Socio-economic status: focus on lower income groups, low educational attainment, social housing (based on evidence of indicators of deprivation)
- People living alone without family support (e.g.: Ageing without Children, also overlap with some community groups e.g., LGBT community, single women)
- Older people who are lonely and socially isolated
- Older carers

Services and intervention type (though have split out the below – these overlap -particular 1 and 2)



1, Addressing access/accessibility skills and confidence, and motivation barriers

- Financial support to gain Wi-Fi (public and private settings)
- Digital skills training (including staff): financial, accessing health, using tools, refresher training for lapsed users etc.
- Supporting people to stay safe online and get support if things go wrong
- Social prescribing
- Examples of collaborations/translating knowledge across different settings e.g. GPs

2, Providing support with data connectivity and devices (supporting independence) to include support around using digital devices in the home – e.g., digital operated heating

- Provision/lending of equipment
- Support to use digital equipment
- Assistive technology

3, Mentoring approaches

- Intergenerational mentoring
- Reverse peer approaches
- peer to peer support/digital champions
- 4, Social inclusion activities
 - Befriending
 - Social connection (reducing loneliness and social isolation)



• Virtual activities (e.g., coffee mornings, exercise classes, art and culture based)

Co-design/coproduction approaches?

Any examples of 75+ contributing to design or delivery of services and interventions

Within this – will focus on design and delivery mechanisms, promotional tips, any learning or feedback collated, evidence of outcomes/impact.

Location

- Providing support in the home
- Providing support in community/health and care settings
- Providing support in care homes (residential and nursing, sheltered housing and similar support housing schemes)

OUTPUT

An overview which draws out the evidence and examples of good practice of relevance to 75+.

