



Moving beyond the pendant alarm....

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University of Sheffield















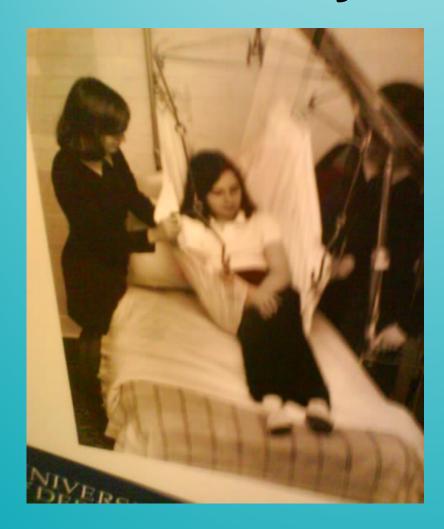
Technology – associated with youth?



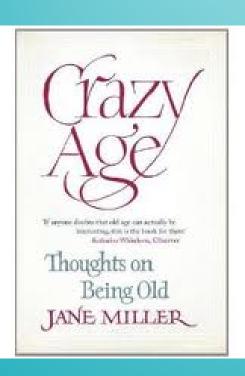
Technology in later life – is this what we envisage?



Not a reality until later life



When is ageing a reality?



Because ageing is so unpredictable it is experienced as a series of unpleasant surprises *Germaine Greer, 2004*

I have looked and listened mostly in vain for news of what it is like for other older people who inhabit it as I do *Jane Millar, 2010*



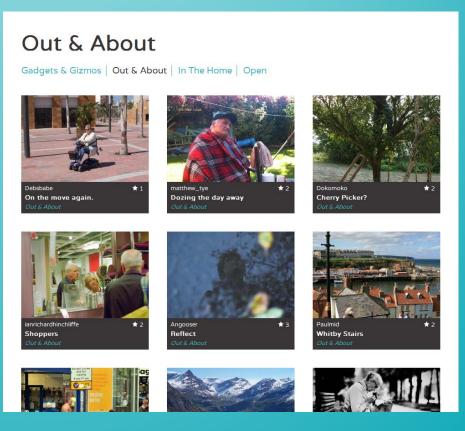
The authoring of my own ageing..... has become more apparent as my lifecourse matures and enters new points of transition..... Chris Phillipson

What do we want from technology in our later life?



Left to Our Own Devices Photo Competition – a way of confronting old ideas





http://lefttoourowndevices.org.uk/

Closing date for entries 31 January 2012

Nantendo – Copyright Abbi Higgins



On the phone – Copyright Charlotte Overton-Hart



Untitled -Copyright Ian Hinchcliffe



I need better Apps – Copyright Vu Du Loc



What about technology for health and social care?

 Current methods of delivery of health and social care are not sustainable – how can technology support individuals and lessen reliance upon services?

How can technology support active ageing and help prevent ill health in older people?

Telecare

Remote monitoring to manage risks, thereby assisting the individual (older or disabled person) to live independently

(Brownsell and Bradley, 2003)



Telehealth –a more recent policy led technology initiative

Remote monitoring of signs and symptoms

Three million lives "will improve through Telehealth" Paul Burstow 04 January 2012



However the evidence is not conclusive – see Steventon A, Bardsley M, Billings J, Dixon J, Doll H, Hirani S, et al. Effect of telehealth on use of secondary care and mortality: findings from the Whole System Demonstrator cluster randomised trial. BMJ 2012;344:e3874.

Challenges for implementation; for example

Practitioners need training and support

Public need to be made aware

Devices have to be acceptable, reliable and easy to use

Connectivity has to be ensured

In the meantime new developments continue in Sheffield, BIME and elsewhere....







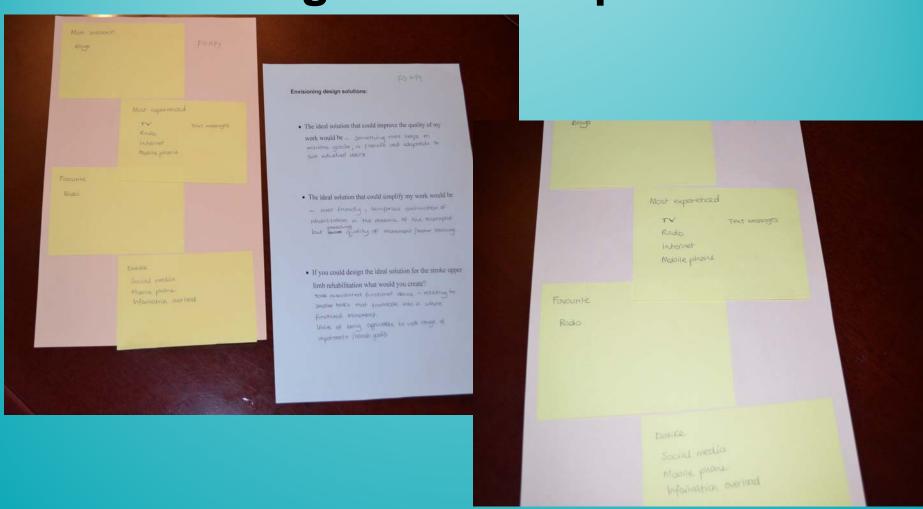
Focus on two examples from Sheffield

The Script Project; Supervised Care and Rehabilitation Involving Personal Tele-Robotics



The project is developing and designing robotic technology and therapeutic games for the homebased exercises of hand and wrist at the chronic stage of stroke.

Determining needs and preferences



(2) The SMART Project; integrating everyday technologies to enable self management

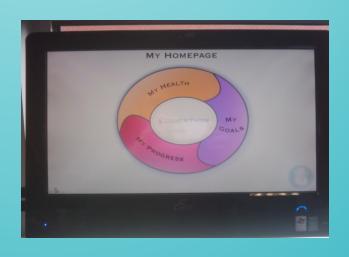
<u>www.thesmartconsortium.org</u>

Prototype System Architecture

Home hub; touch screen computer

Mobile device with inbuilt GPS and accelerometry

Other devices added to meet the specific needs of people with each of the LTCs





The underpinning clinical and design work

Comprehensive clinical reviews to identify;

- Best practice/optimal self management interventions for people with each of the long term conditions
- Life goals
- Outcome measures

Home hub



Home hub

My Daily Plan

My Health

You have not completed your health data today

My Goals

DONE

Home hub



My Information and Advice

To help prevent heart failure you should try to quit smoking, exercise and limit foods high in cholesteral and saturated fat.



Your answer is incorrect. True is the correct answer
The most common symptoms of heart failure include
shortness of breath or difficulty breathing, feeling tired
and swelling. Swelling usually occurs in the ankles,
feet, legs and sometimes in the abdomen.

Heart failure can be controlled by:
A: Bed rest, fluids and long term
medication

B: Lifestyle changes and medication



B is the correct answer.

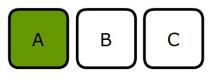
Treatment for heart failure includes lifstyle changes, medications and specialised care for those who are in the advanced stages.

If you have heart failure you should eat:

A: A diet low in salt

B: Diet soda and low fat chips

C: A low carbohydrate diet

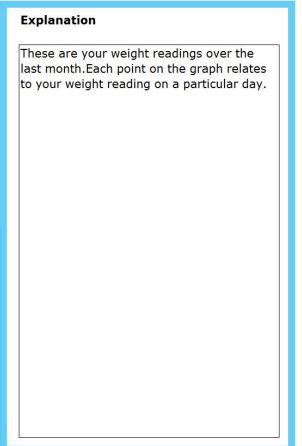


A is the correct answer.

Those who suffer from heart failure need to watch their salt intake. Salt can cause extra fluid to build up in your body making

Done

My Weight





Out and about – the mobile device

Walk 5 Minutes

Before You Begin . . .

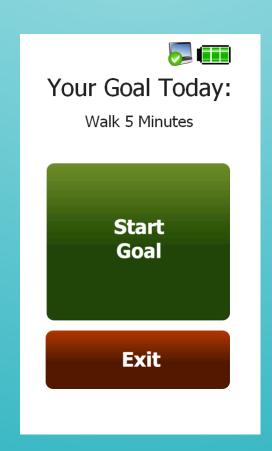
Although regular activity is good for you, do not exercise or increase your activities when you:

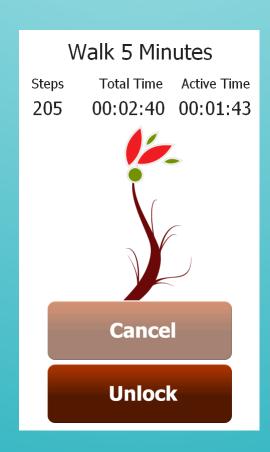
- (1) Have more shortness of breath at rest or more symptoms than usual
- (2) Feel exhausted
- (3) Have a fever, infection or feel ill
- (4) Have chest pain
- (5) Are going through a major change in your medication regimen

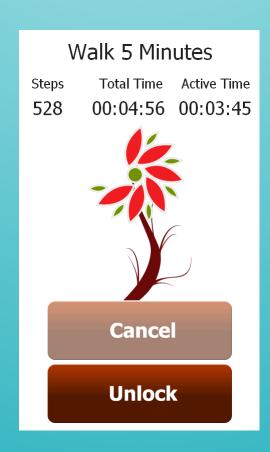
Do you wish to continue?

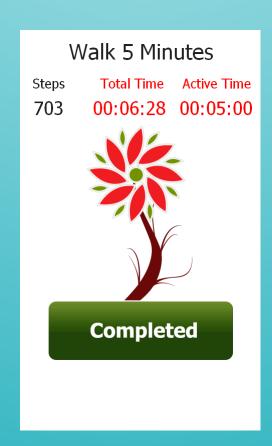


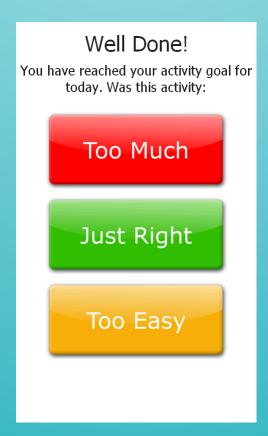














Information

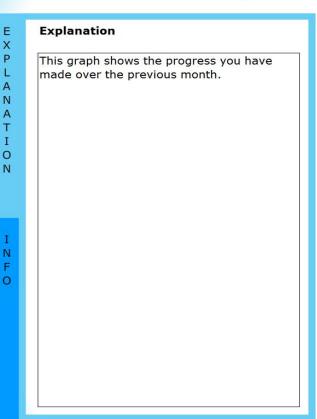
Thank You. Please remember to dock the mobile device and access the 'Goals' screen on the Home Hub when you get home. NB: The device needs to be able to upload data to the Home Hub when it is docked and is in range.

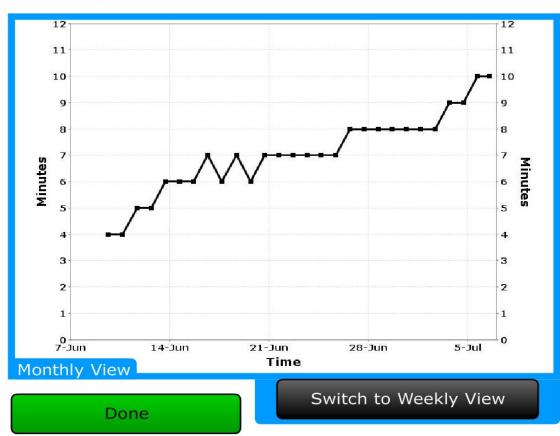
OK



Progress

My Walking Intervention

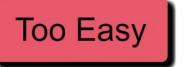


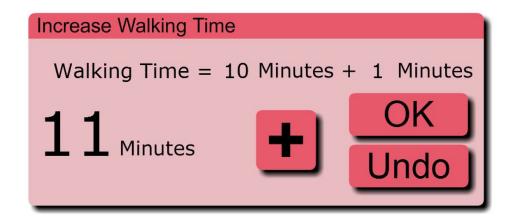




My Review

You rated your activity:











As everyday technology becomes more pervasive and sophisticated it offers increasing potential in many life domains including leisure as well as care needs



What is it about new technology that makes it so alluring?





How can we exploit the potential?

What about for people with dementia?



Good design is fundamental

Useful – usable- desirable



So what about our own later life?





What are our expectations?

It's a personal agenda

Views are slowly changing but the debates continue...

http://www.guardian.co.uk/commentisfree/20 12/oct/01/population-future-caring-ageinggood-news

Visit the KT-EQUAL website



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KT-EQUAL is a consortium of UK researchers dedicated to extending quality life for older and disabled people.

We work to ensure that years of investment in high-quality research translate into real benefits that have an impact on people's lives.

What we do

We set out to show how ageing and disability research can make a difference to people's lives.

- We bring together researchers, policymakers and service users to focus on the issues that are important to older and disabled people.
- We influence regulations and good practice across a range of industries

 including inclusive product design, rehabilitation, and the built
 environment
- We gather and share knowledge and expertise about people's health and wellbeing, independent living, self-management and quality of life.
- We seek out the views and involvement of older and disabled people and their advocates

Working together to improve lives

We know that the challenges we face transcend traditional scientific boundaries. We also recognise that older and disabled people and their carers have knowledge and expertise which is crucial to developing solutions that improve quality of life.

Upcoming Events

National photography competition

Date: 13 October 2011 00:00 to 31 January 2012 23:45 Summary: Left to our own devices more >>

CARDI International Conference

Date: 2 November 2011 09:00 to 03 November 2011 17:00 Summary: Ageing Globally – Ageing Locally: Planning all Our Futures more >>

Improving stroke care in the community

Date: 23 November 2011 09:30 to 16:30 Summary: Bringing together researcher, engineers and clinicians, with community rehabilitation teams to share expertise and how to break down barriers more >>



How can you get involved?

- Join our mailing list http://www.equal.ac.uk
- Come along to our events (free!)
 - Comment on our blog
 - Follow us on twitter (@KT_EQUAL)