

The benefits of technology and data in social care



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Technology has done amazing things



DEATH BY



INKFIDEL.COM

inkfidel

POWERPOINT

MakeAGIF.com



Technology has done amazing things

Weather forecasting

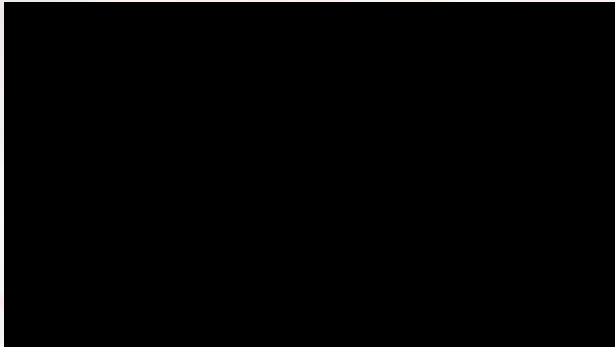
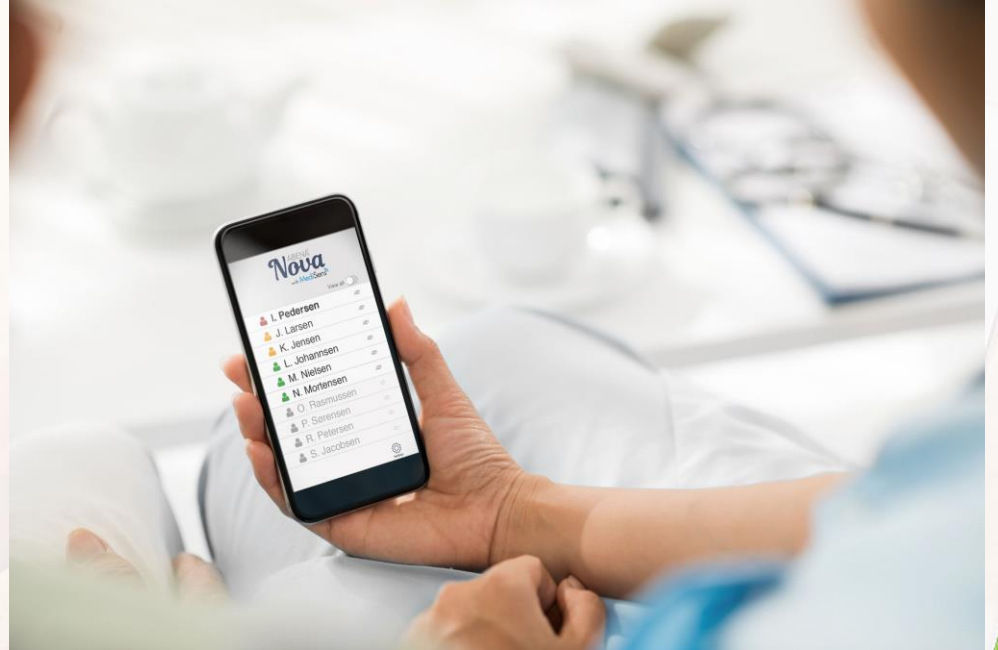
Abena Nova – Smart continence pads

30% less pad usage

Staff time saving

Dignity

GYENNO SPOON



Data has driven change since we learnt to count

Small amounts of data of data from a survey group of 0.001% would be used as the justification to change processes, funding etc.



Stonehenge

Doomsday book

Life insurance

Problems with data without technology

- Very time consuming
- Small sample size, needs a lot of expert review
- Inaccuracies
- Out of date

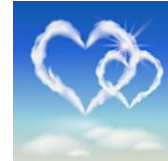
Technology and Data



Different to technology on it's own

Different to Data on it's own

A match made in heaven



Technology and Data



Lots has been written, look for independence.

<https://www.kingsfund.org.uk/publications/eight-technologies-will-change-health-and-care>

<http://www.abenanova.com/Files/Images/abena/abena-nova/From-Big-Data-to-Real-Time-Actionable-Insight-in-the-Care-Sector.pdf>

http://connell-consulting.com/wp-content/uploads/2015/12/HI_Dec_Jan_Connell.pdf

Technology and Data - The chance to share information

Computer data transmitted(copied) in milli seconds

Digitising the Sutton red bag (hospital pack)

Hoped to reduce admission rates from A&E to ward

Hoped to increase number dying in their place of choice

Facetime to keep manager at home

Nurse Manger lives 2 miles from care home

Likes to drink a little after work some times

Has walked to the care home many times

Screens calls using facetime and MCM

- The biggest problem is that the data is copied and not transferred
 - More and more data
 - You still have a responsibility to it

Technology and Data - The chance to find hidden Gems

Data mining

Everyone sampled, so the 0.1% cases can be seen

Decades of data to mine

be Cross correlation between rich data sets allows the 0.1% to be understood

Does better hydration lead to less falls

How often does a medication change lead to a change of mood

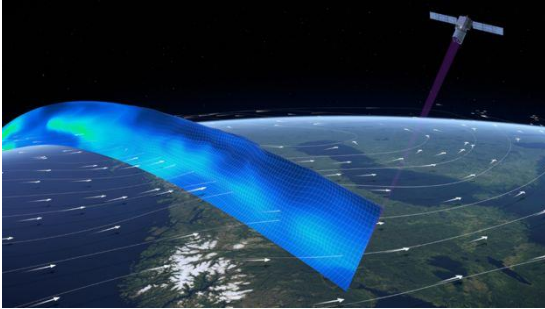
The quality of sleep and the effect on dementia suffers

The biggest problems

- Finding time to step back and examine the data
- The number of changes data suggests



Technology and Data - The chance to predict with certainty



Weather forecasts

- Without data model based
- With data, set to become much more accurate

The human genome project started the mapping of us all

- equivalent to the space program
- 20 years ago
- Can be done for \$1000 per person today in china
- By mapping known anomalous people and comparing to known non anomalous people genetic screening has become possible.
- High amounts of data

Quality indicators

- Moving beyond the PIR to care intelligence

Machine learning

- Use predictive analytic models for early identification of adults with complex morbidities to design/improve intervention programmes

The biggest issues

- Privacy
- So many big data projects all contending for funding

Technology and Data - What have I missed out

Apple watch / Fitbit

- To new for dementia patients
- Requires charging nightly
- No base line, never has so many been monitored



Questions and Answers



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