

# Data & the Ageing Revolution

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**UN Expert Meeting**

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# What is Crowdsourcing?



# Crowdsourcing Data

***“We’re living in a culture of crowdsourcing, where more and more people are willing and interested in sharing what they know through social media.”***

Joel Gurin. Founder & Editor OpenDataNow.com



# The Data: Is Everywhere WE Go



# Key Issues



# The Stakeholders are Getting on Board



# From National Governments...



# To Cities....



Future City Glasgow

In Glasgow we're exploring ways to harness the power of data and technology to make our city a better place to live, work and play.

Here is our story...



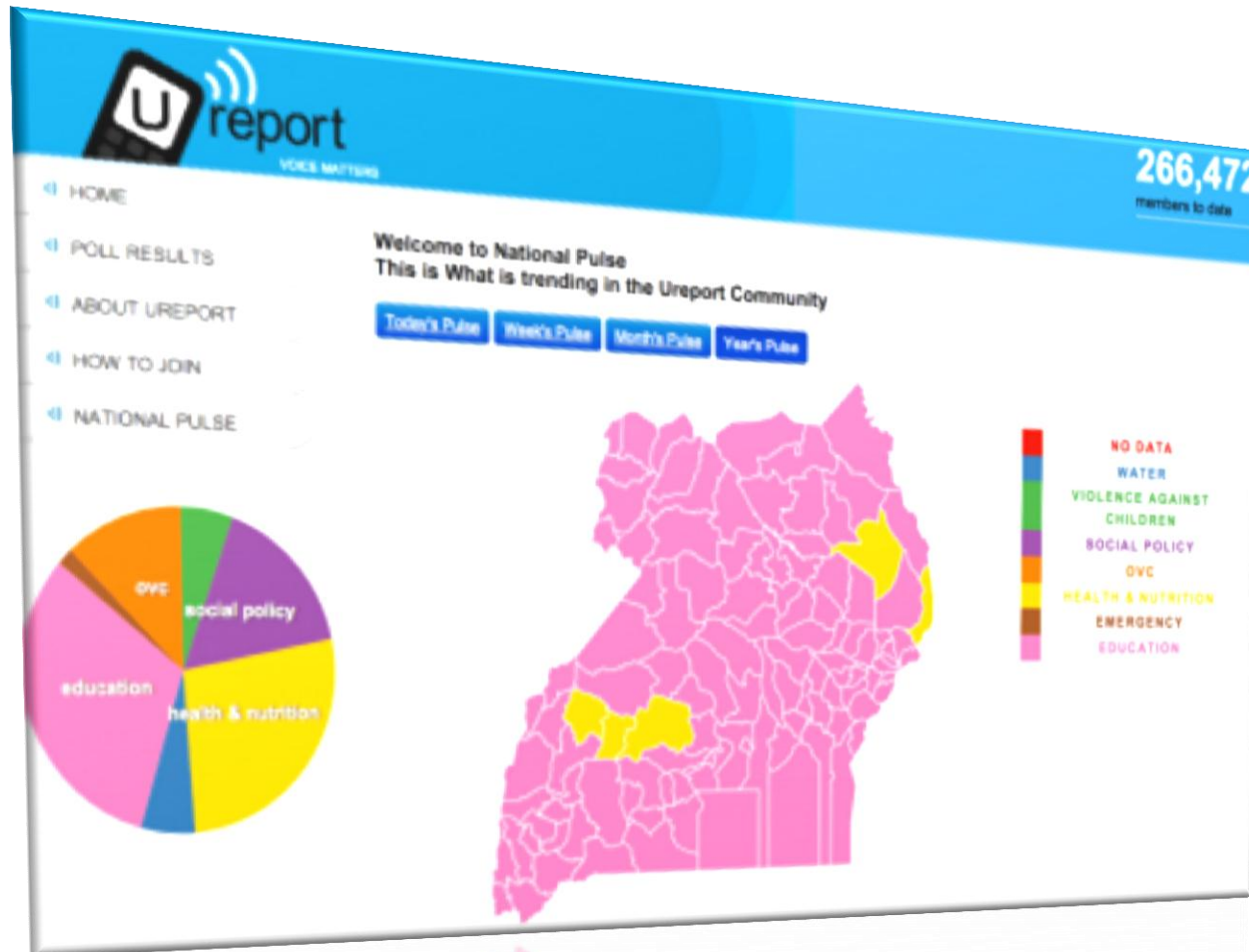


# Private Sector ...

Google now



# Citizens....





**So What Does this Mean for Public Services?**

# From Weather ...



# And Street Bumps ....





# To Space Stations....



# And Archives.....



**Government is Harnessing the Crowd to.....**

# Gather Data....



# Assess Data....



# Innovate with Data!





# Discussion for Today....

**Can Crowdsourcing enhance data collection, policy making & monitoring when it comes to the Ageing Revolution?**

# An Example to Kick Start....

*“Few other countries have information which combines high quality data, consistency, national coverage and the ability to link data to allow patient based analysis and follow up”*

NHS Information Services Division

<http://www.isdscotland.org/>

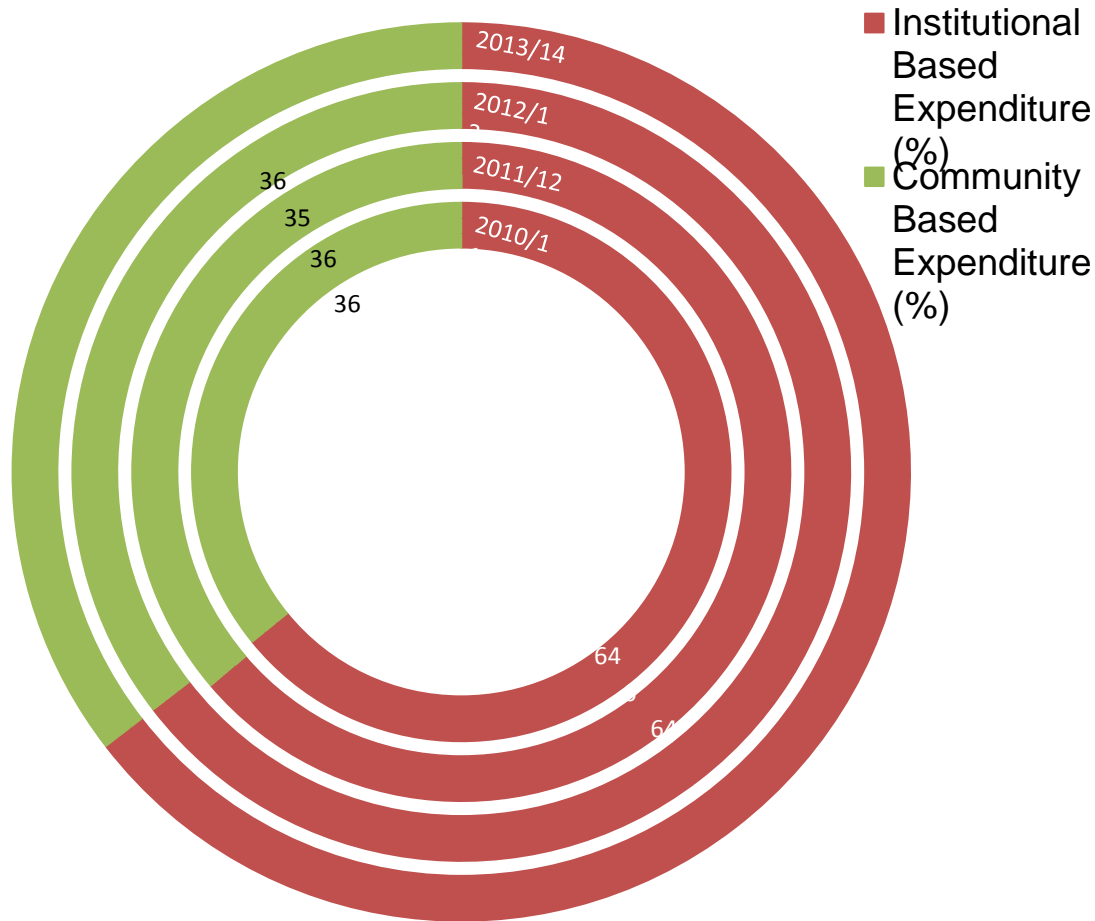
# Scotland

- Fortunate in Scotland than around 60%-70% of health expenditure is available at patient (individual level).
- All hospital based activity (emergency and elective inpatient and day) available and attributable to individuals.
- Prescribing (drugs) also available at individual level.
- Gaps including health community and primary care.

# Scotland

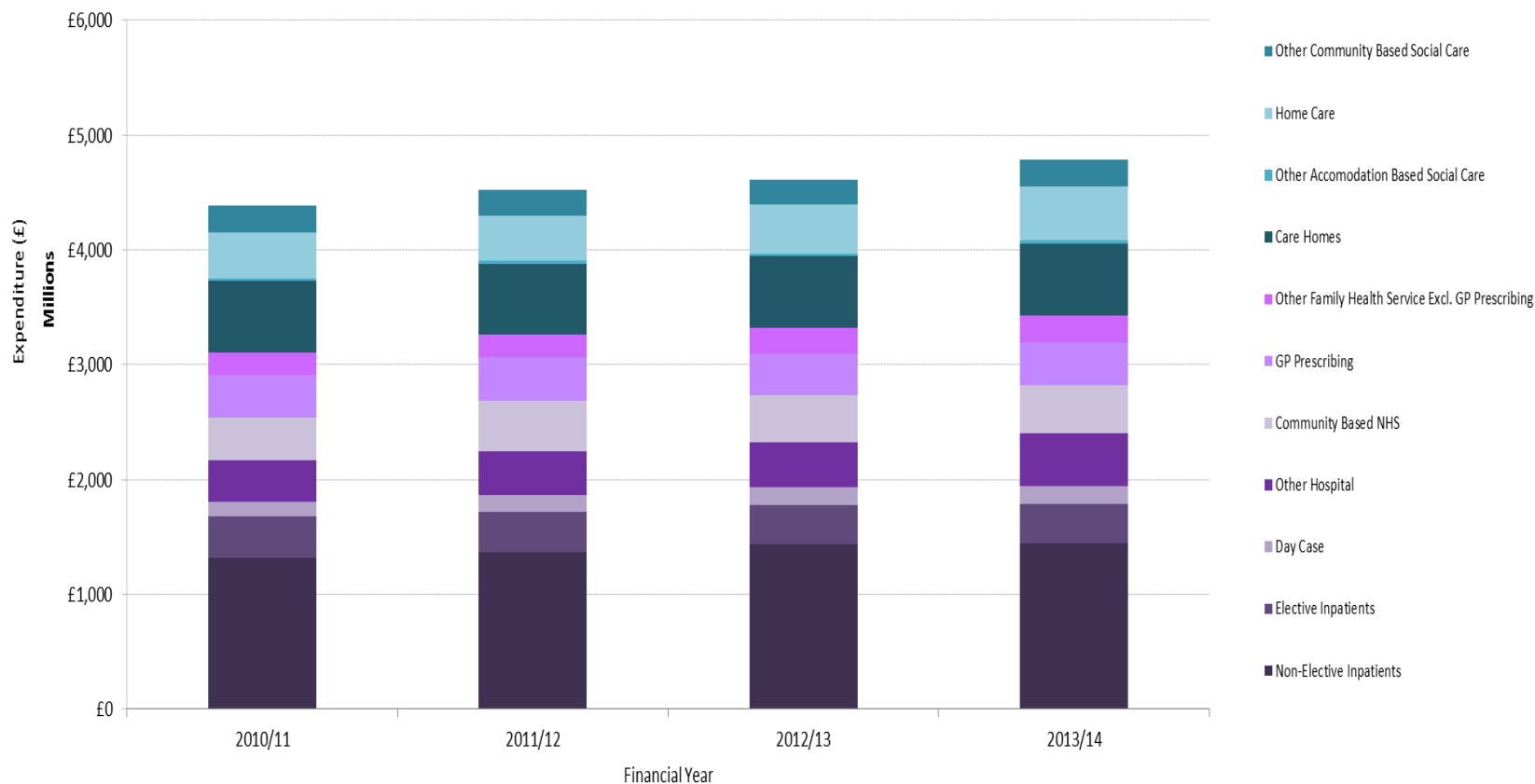
- A range of operational/activity statistics produced by data service for health provider.
  - Waiting times.
  - Infection rates.
  - Number of hospital cancellations.
  - Number of beds.
  - Number of prescribed items.
  - Costs of running NHS.
  - <http://www.isdscotland.org/>

# Scotland - Balance of care (£4.5bn) for 65 plus Institutional (hospital and care homes) and non-institutional (community based settings) – expenditure still predominately in institutional based care.



# Scotland - Health and social care expenditure (£4.5bn latest year in chart) for 65 plus

## 2010/11 – 2013/14 – emergency care (non elective) biggest proportion of overall spend

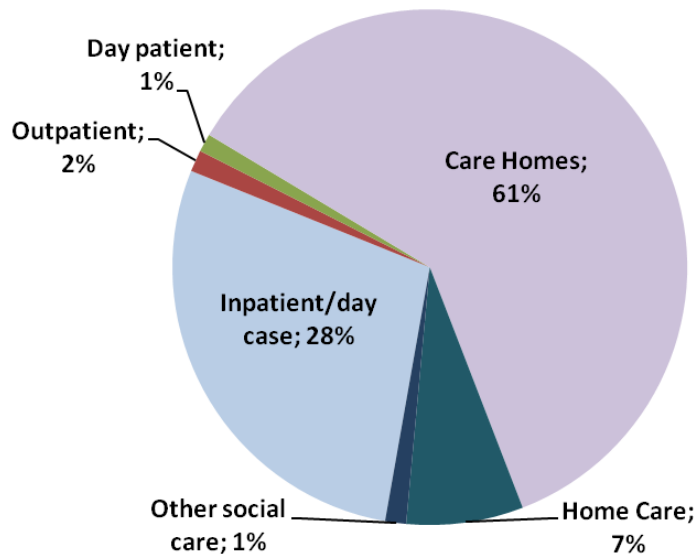




# Scotland – cohort specific analysis — dementia

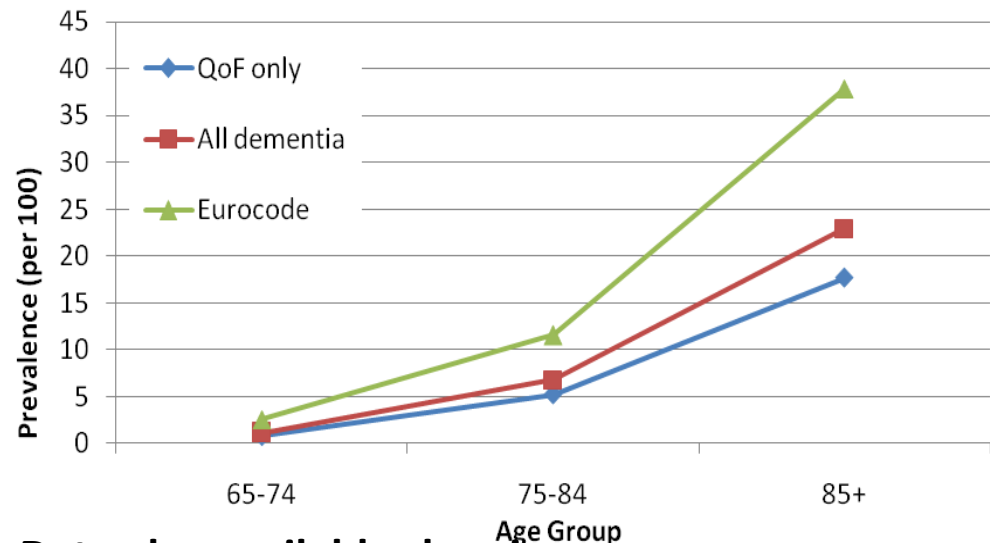
Those with dementia compared to control use a greater number of services and in one area this was predominantly care homes  
Suspected prevalence underestimation based on eurocode

## Cost attributable to dementia:



- 5% of 65+ diagnosed with dementia
- Dementia patients consume 25% total H&SC budget for 65+
- Dementia costs - £15,610/person
- Non-dementia costs - £2,880/person

## Age specific prevalence:

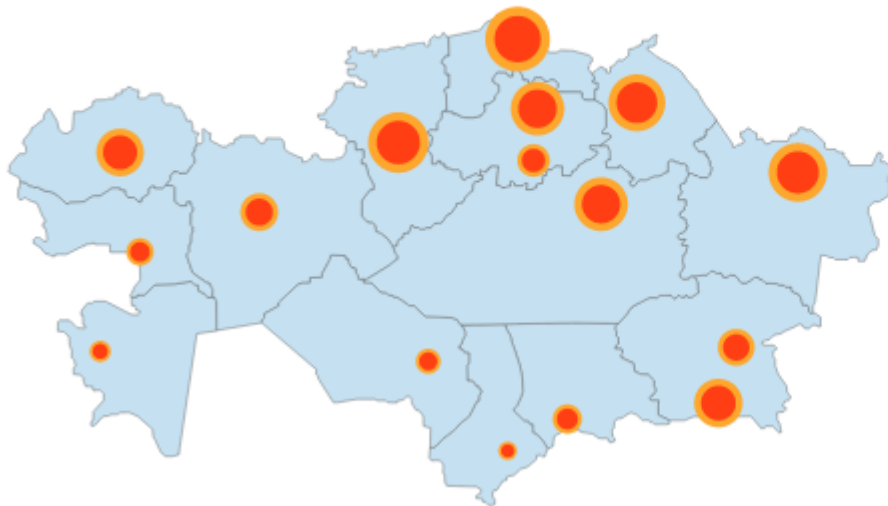


## Data also available showing:

- Breakdown of differences in activity between dementia and age/sex matched non-dementia population
- Crude population based forecasting

# Kazakhstan: Taldau Information and Analysis System

Average age by regions, 2014 Средний возраст населения, 2014 год



# Kazakhstan: Taldau Information and Analysis System

