

The Scottish Government

**Data can improve people's
lives...**

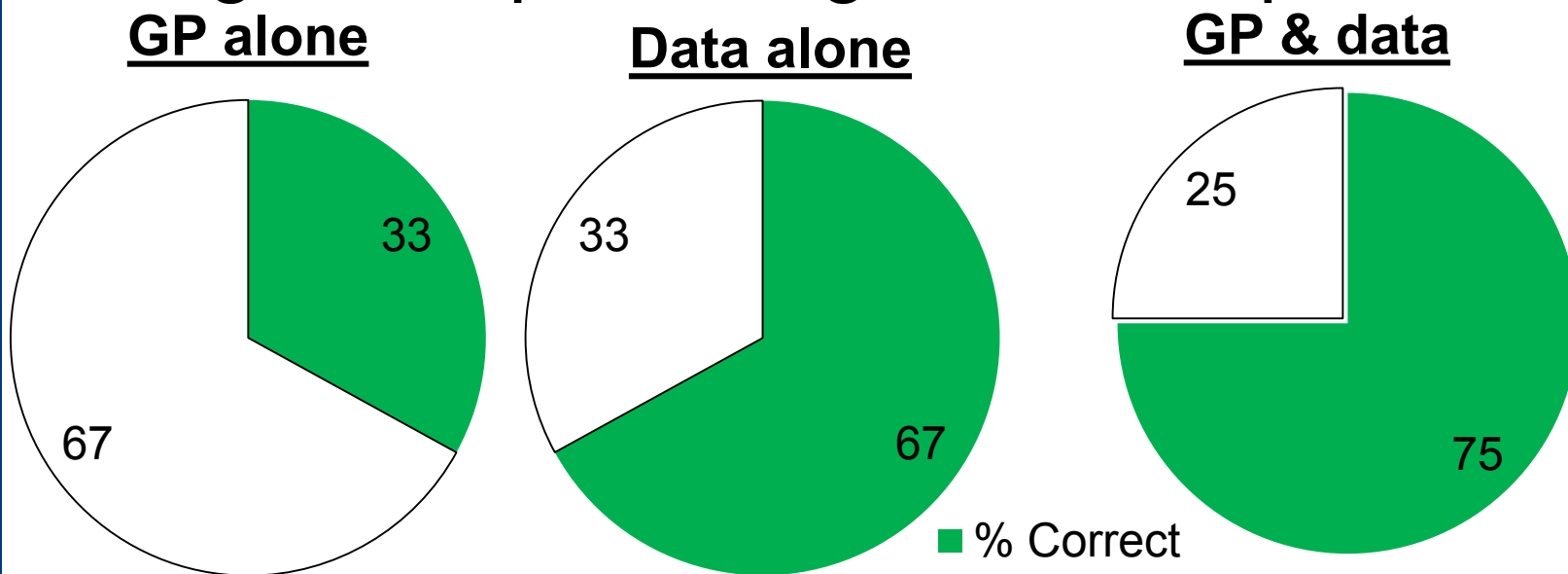
but not data alone

Roger Halliday

13 June 2016

High intensity hospital users

How good at predicting future hospital use?

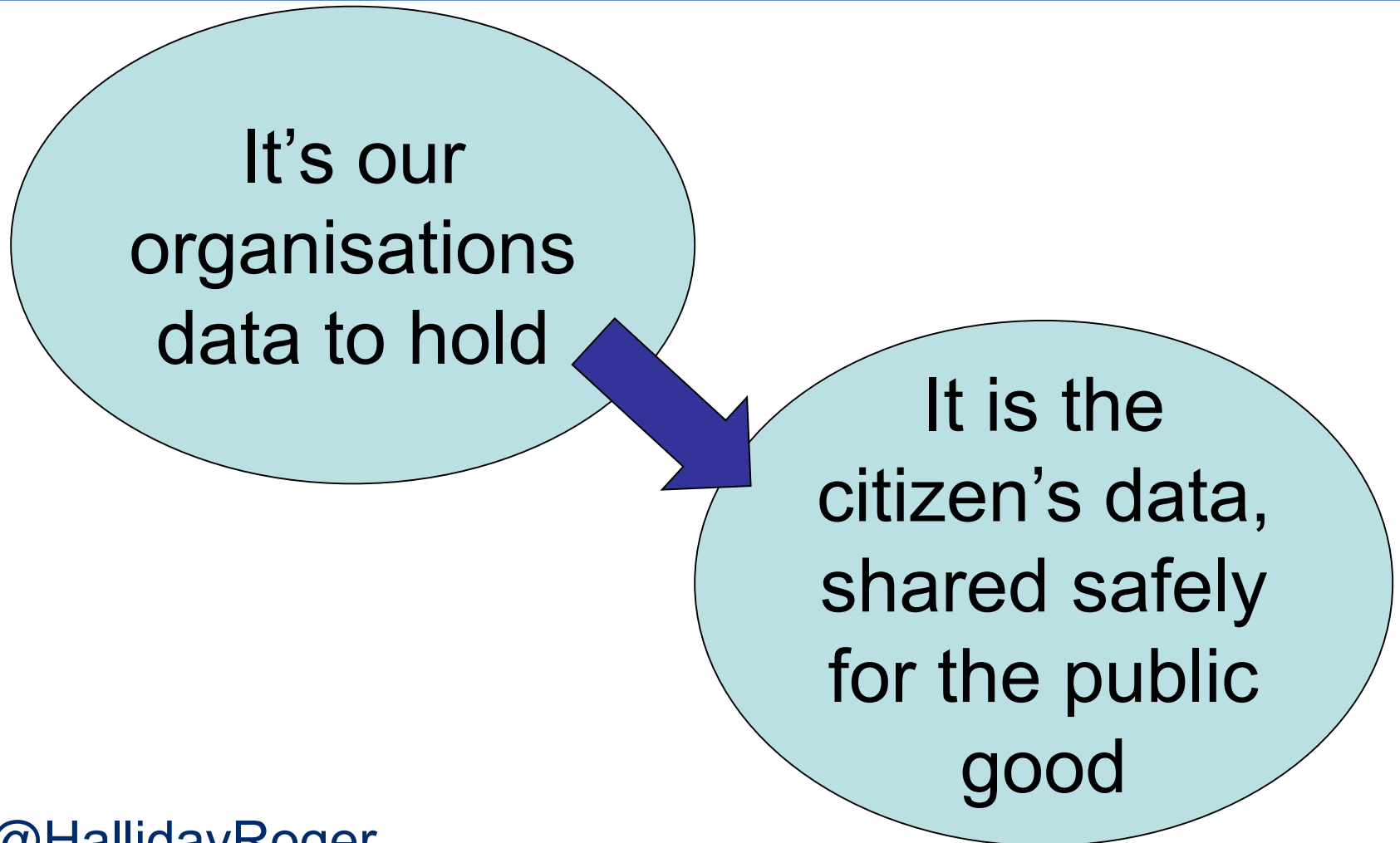


Impacts – Higher quality, longer lives
 + net saving £100million,
 + identify new groups

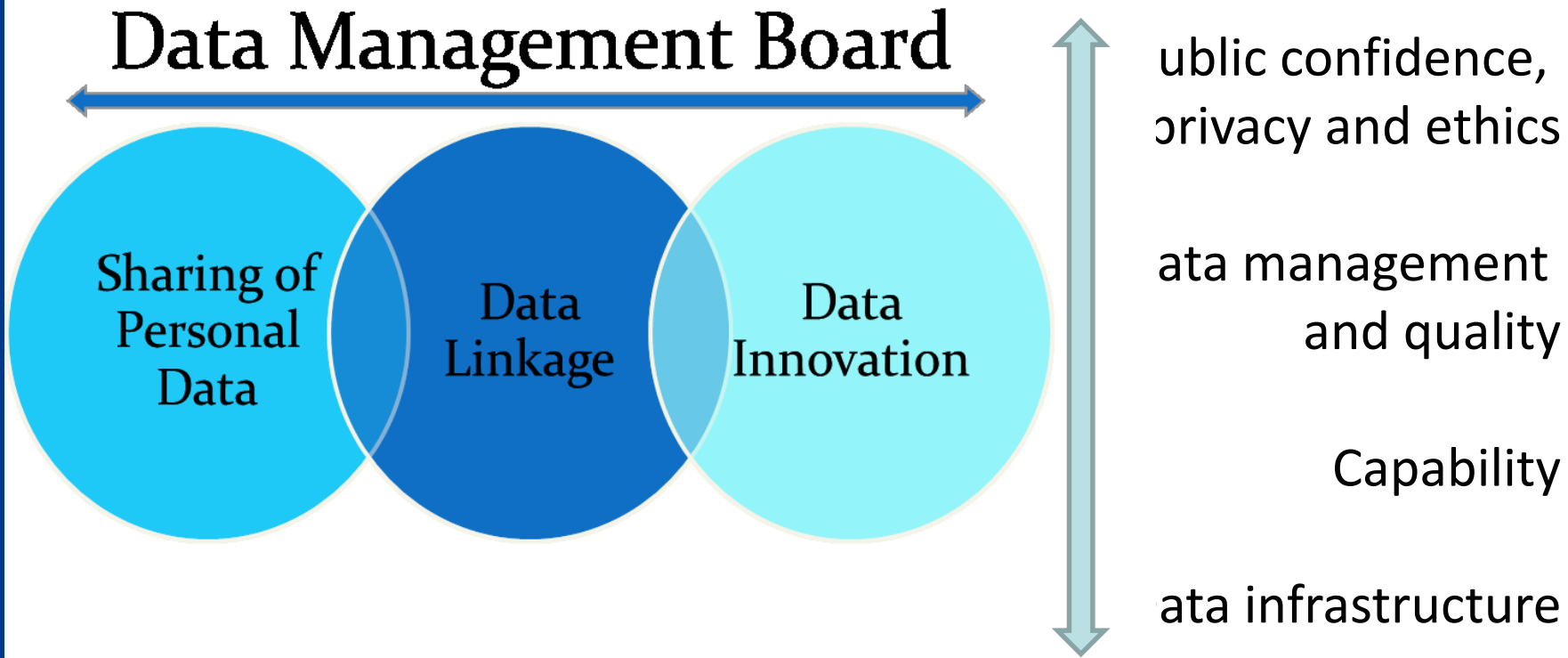
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Scotland's data vision



Driving our approach forward



Data science resources in Scotland

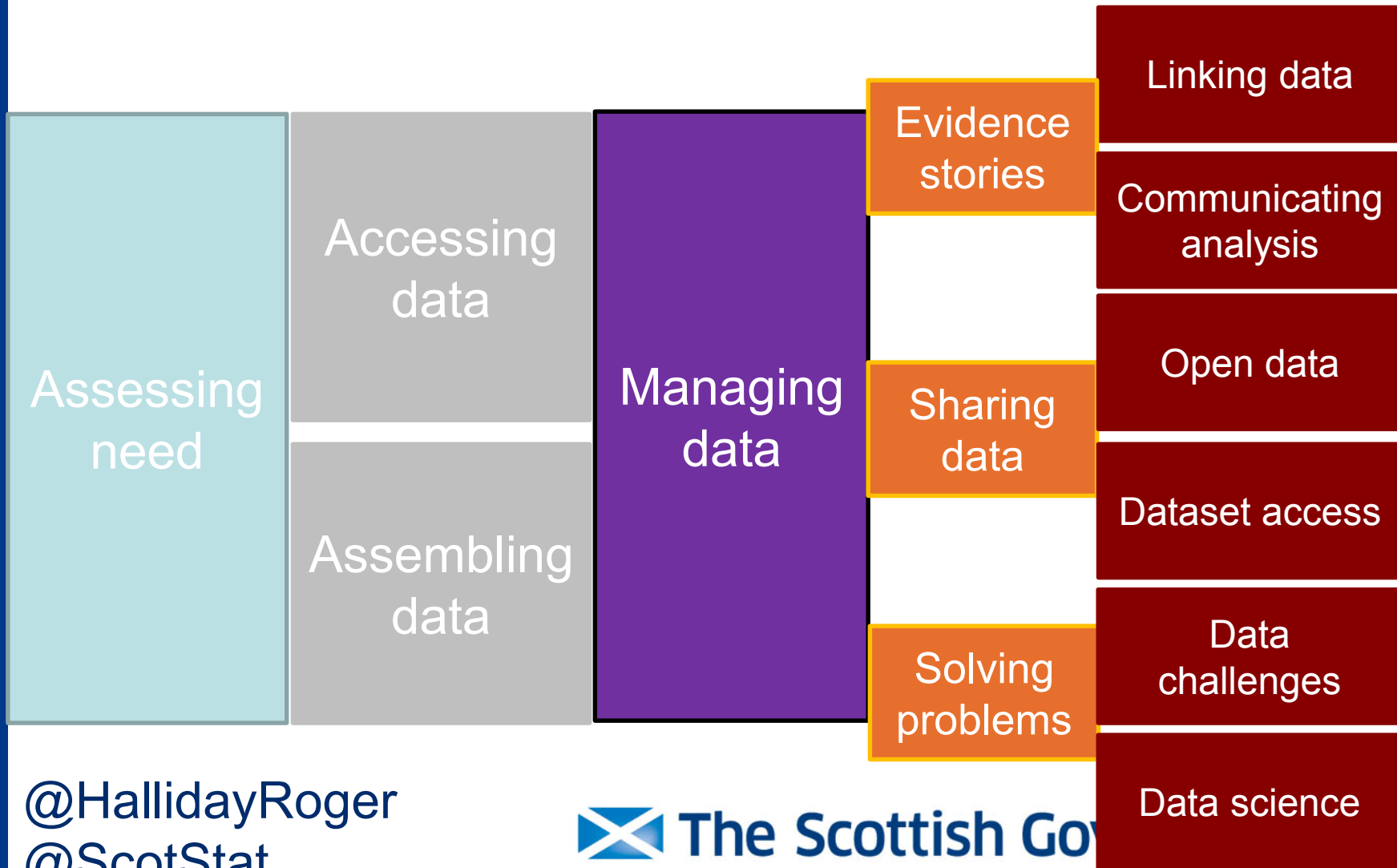


- Significant investment
- Innovation capacity
- Building skills



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Data infrastructure for analysis

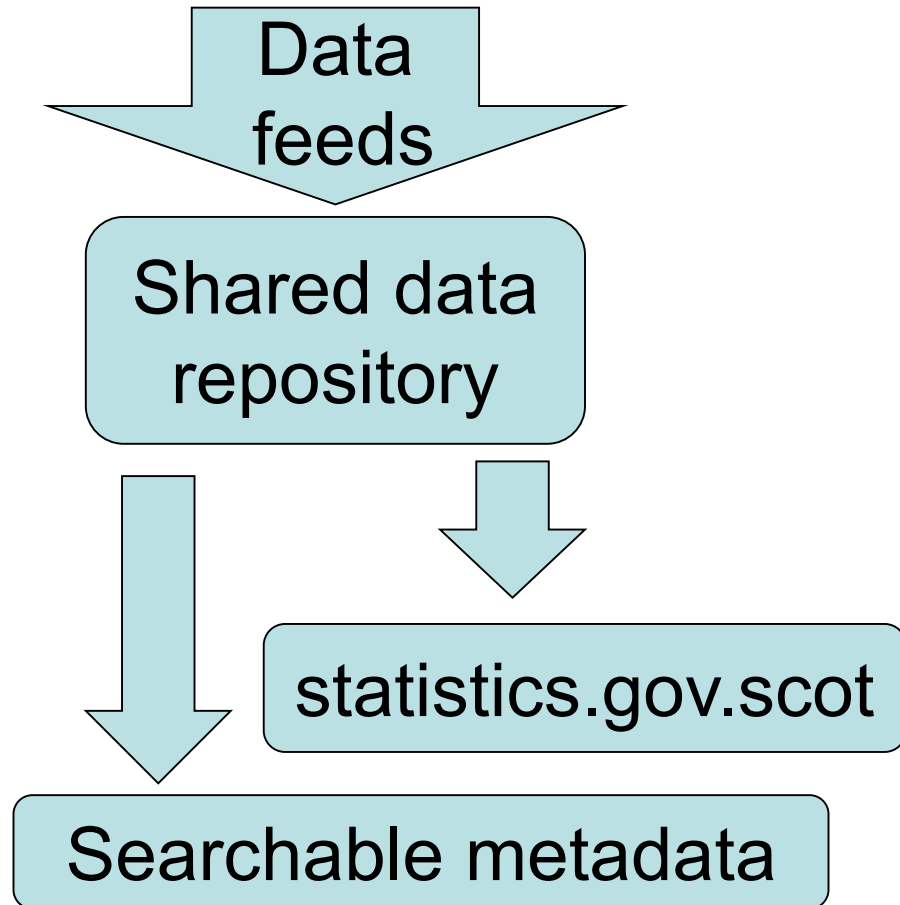


Infrastructure – data management

From



To

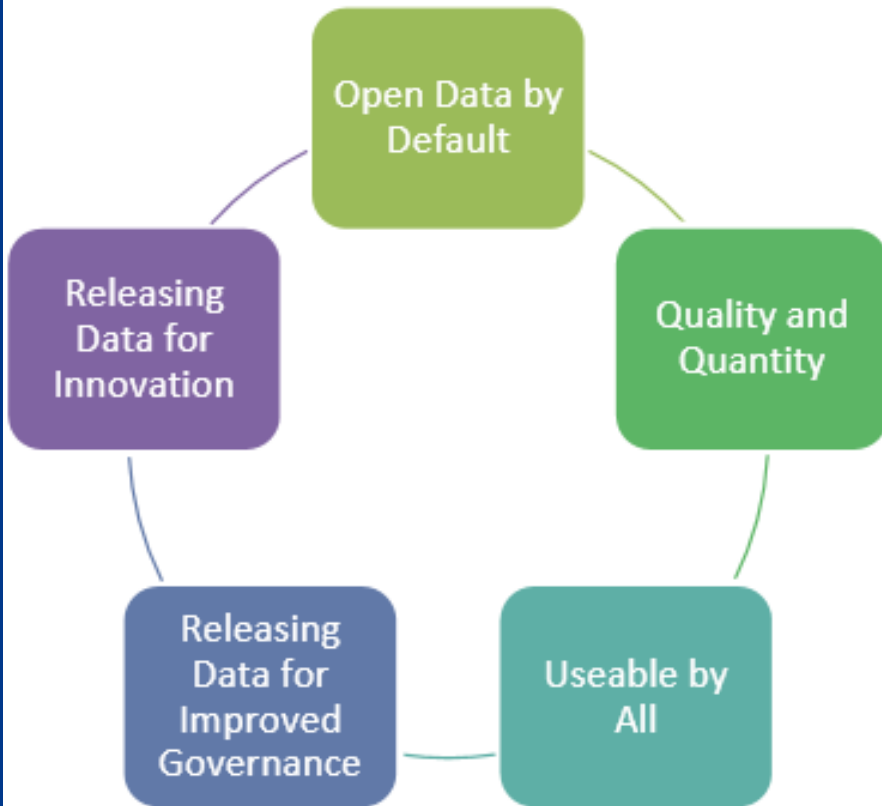


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The Scottish Government

Our open data strategy



Aims = transparency, innovation, efficiency

Our offer

- Building capability – resource packs
- Sharing infrastructure – publishing platform

Infrastructure – Statistics.gov.scot

Show Reference Areas of type:

Reference Area ↓	2005	2006	2007	2008	2009	2010	2011	2012	2013
Country									
Scotland									
Scottish Parliamentary C...									
Aberdeen Central									
Aberdeen Donside									
Aberdeen South and N...									
Aberdeenshire East									
Aberdeenshire West									
Airdrie and Shotts									
Almond Valley									
Angus North and Mear...									
Angus South									

TIME SERIES: MEAN (POUNDS (GBP))

Reference Area	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Scotland	55,200	57,798	58,990	60,277	63,775	66,127	70,595	74,224	78,220	87,144	101,821

STATISTICS.GOV.SCOT BETA
 OPEN ACCESS TO OFFICIAL STATISTICS

Here you can get access to a range of official statistics about Scotland for information and re-use.

You can explore the data by [theme](#), [organisation](#), or [geography](#). You can also [search](#) for datasets, places or enter your postcode to find data about your local area. The data can be viewed as tables, maps and charts or downloaded in various formats.

You can read more about statistics.gov.scot or follow news from the Scottish Statistics team on our [blog](#). We are very keen to receive feedback.

This site hosts **131 linked data datasets** which you can browse and download in multiple formats, and access programmatically using our [APIs](#).

Explore by **geography**
[Scotland](#), [Glasgow](#), [Edinburgh](#)

Explore by **theme**
[Access to Services](#), [Business, Enterprise and Energy](#), [Children and Young People](#), [Community Wellbeing and Social](#)

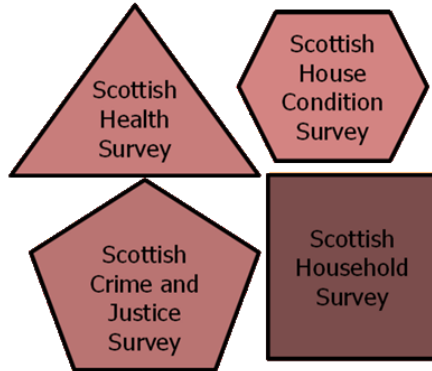
Latest statistical data

Social Work Staffing	11/03/2016
Urban Rural Classification (6-Fold)	23/02/2016
Scottish Index of Multiple Deprivation	10/02/2016
Energy Consumption	10/02/2016
House Prices	10/02/2016

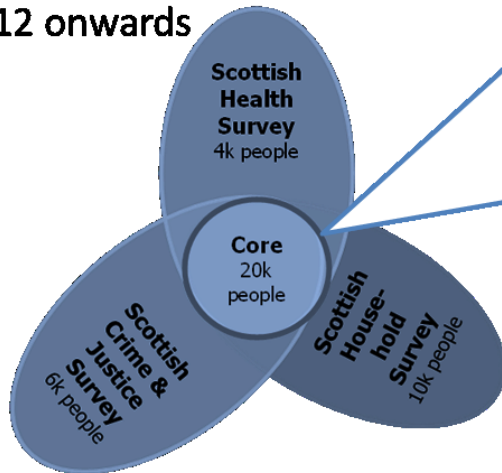
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New data resources: core survey qns

Before 2012



2012 onwards



Equality Groups	age, sex, disability ethnicity, religion, sexual orientation country of birth, deprivation
Geographies	Local authorities, Health Boards, Police Scotland Divisions
Indicators	General health Long-term conditions Smoking Mental wellbeing* Unpaid carers* Local crime rate Police confidence
And more...	Qualifications, economic activity, tenure, household composition, car access, marital status ...
Forthcoming	Combined years for even smaller groups and geographies

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Do we have the right skills?

- Use of data in decision making
- Publishing/sharing data
- Data visualisation
- Data management
- Predictive analytics
- Data Linkage

Need to share learning

Intelligent customer

Analytical
enthusiast

Data
science
expert

Conclusions

- Can't solve this alone – collaboration
 - Data quality
 - Data management
 - Learning & development
- Need champions/expertise: what's possible
 - Make use of new data resources