Nuffield Data Lab

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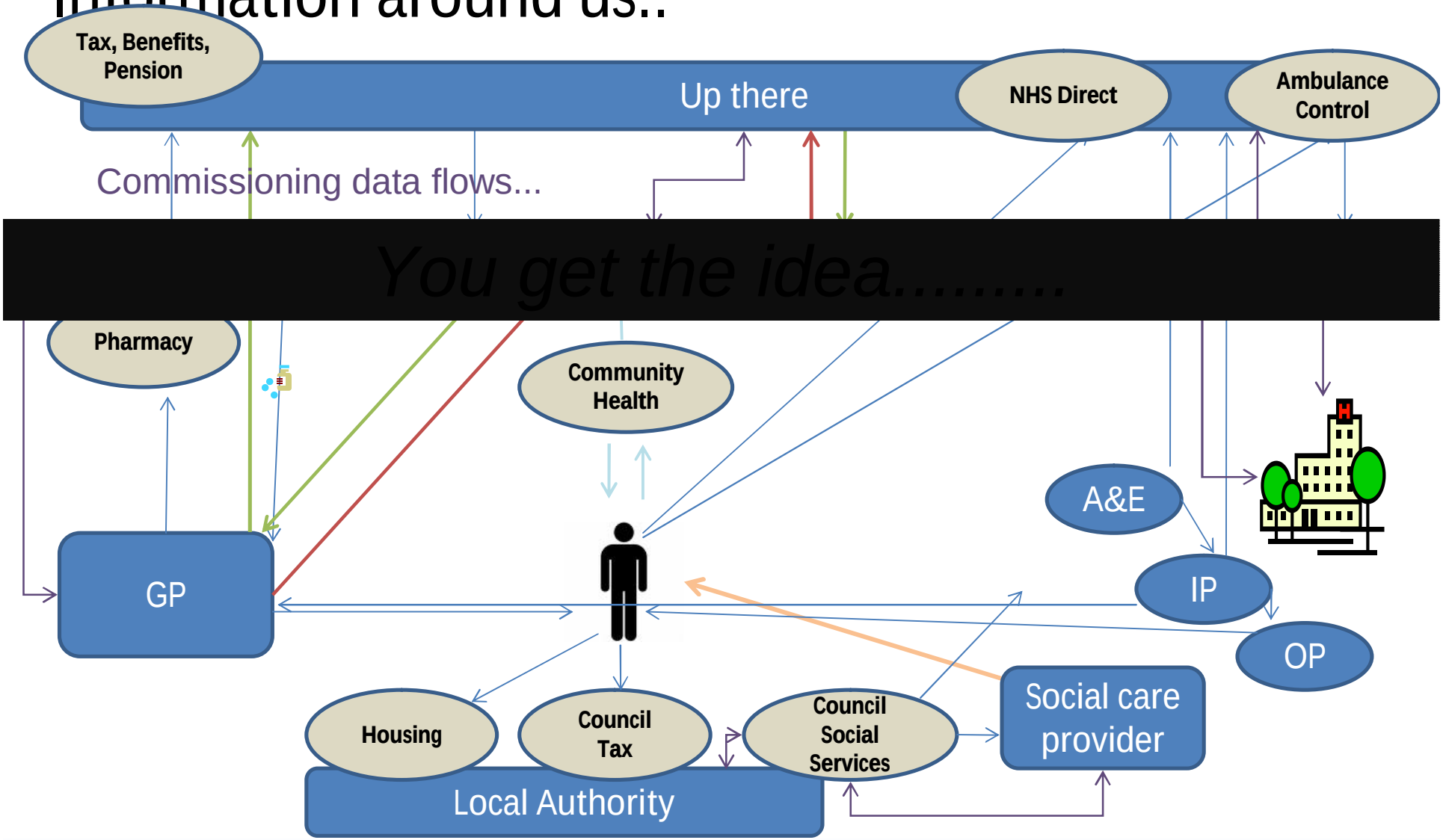
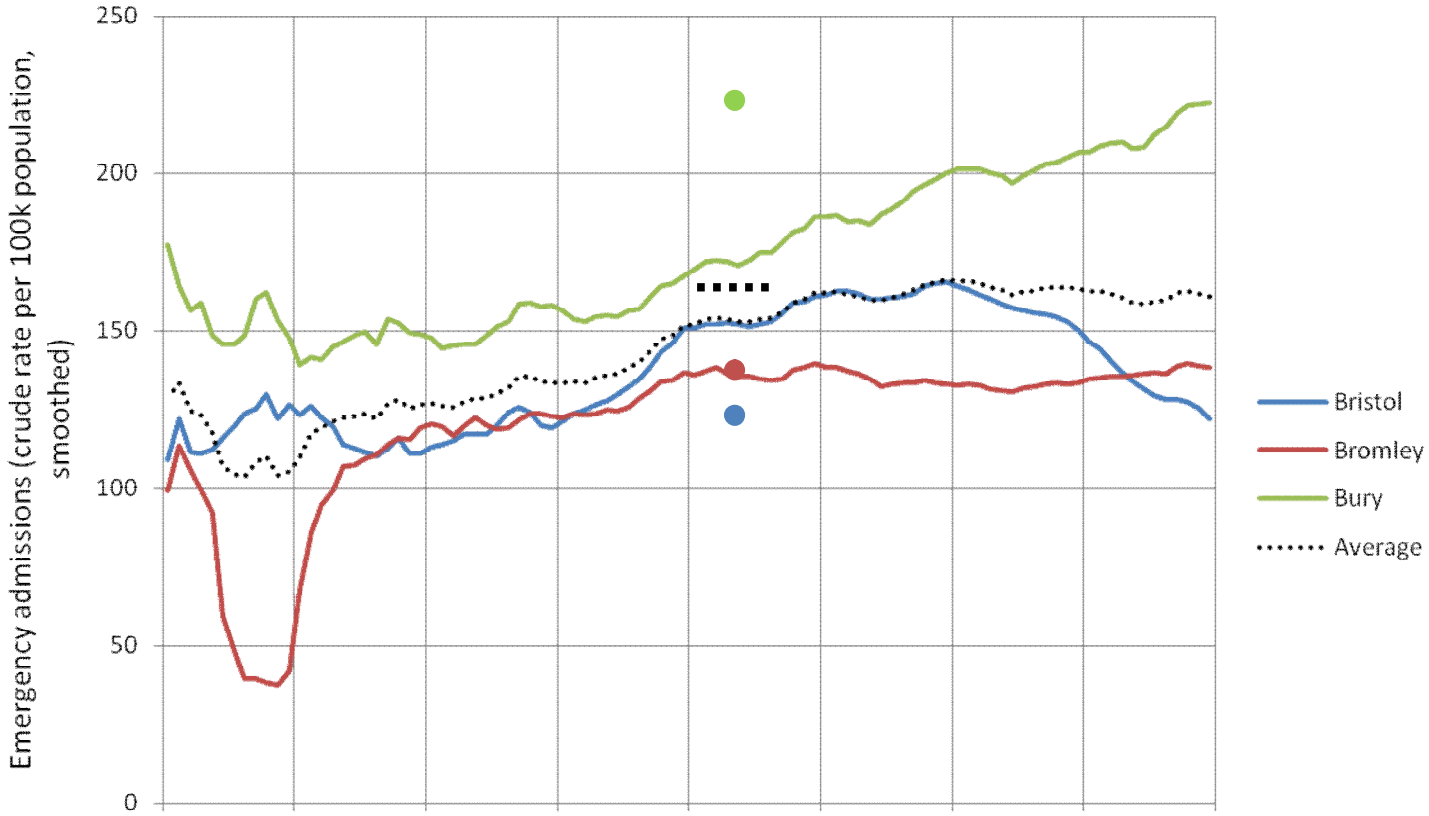
Features of Nuffield Data

- Making the most of existing information
- Exploiting analytical tools such as predictive modelling
- Structuring information around people not events
- Linking data sets

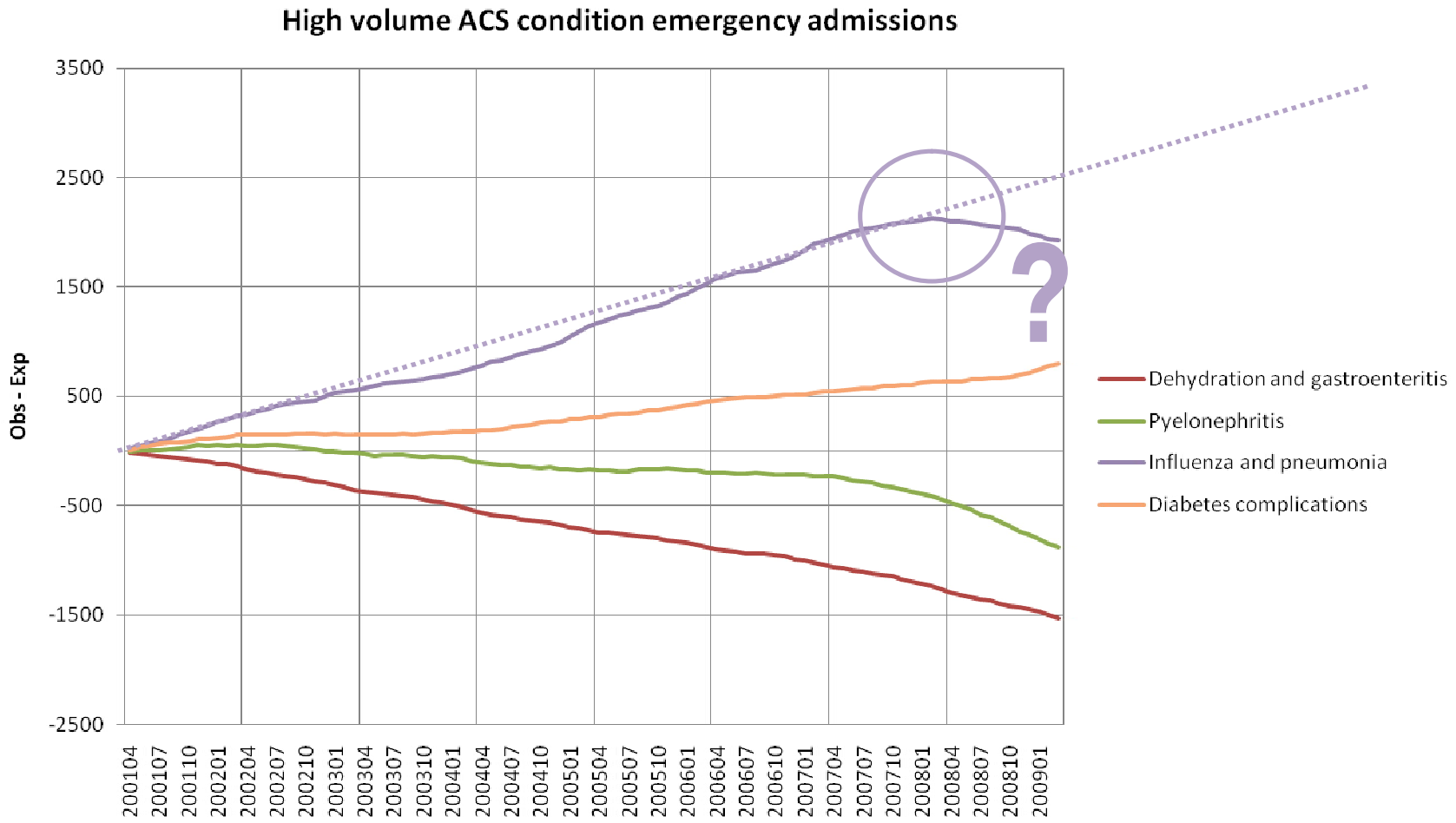
Information around us..



From cross-sectional to time series



Standardised to identify unexplained changes

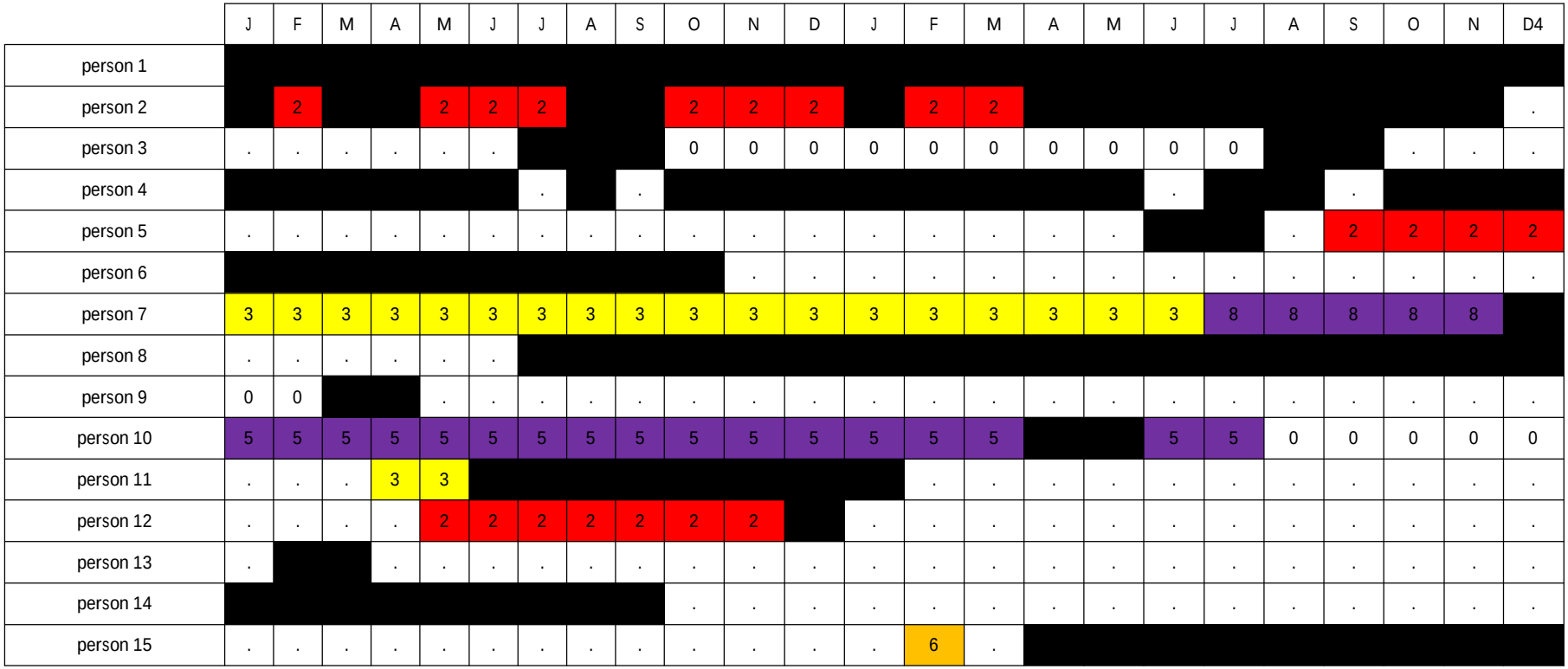


Recently focus on advances in being able to construct individual histories by:

- **Linking data over time to look at what happens to people – not just events**

- **Linking data sets across care providers to build broader picture**

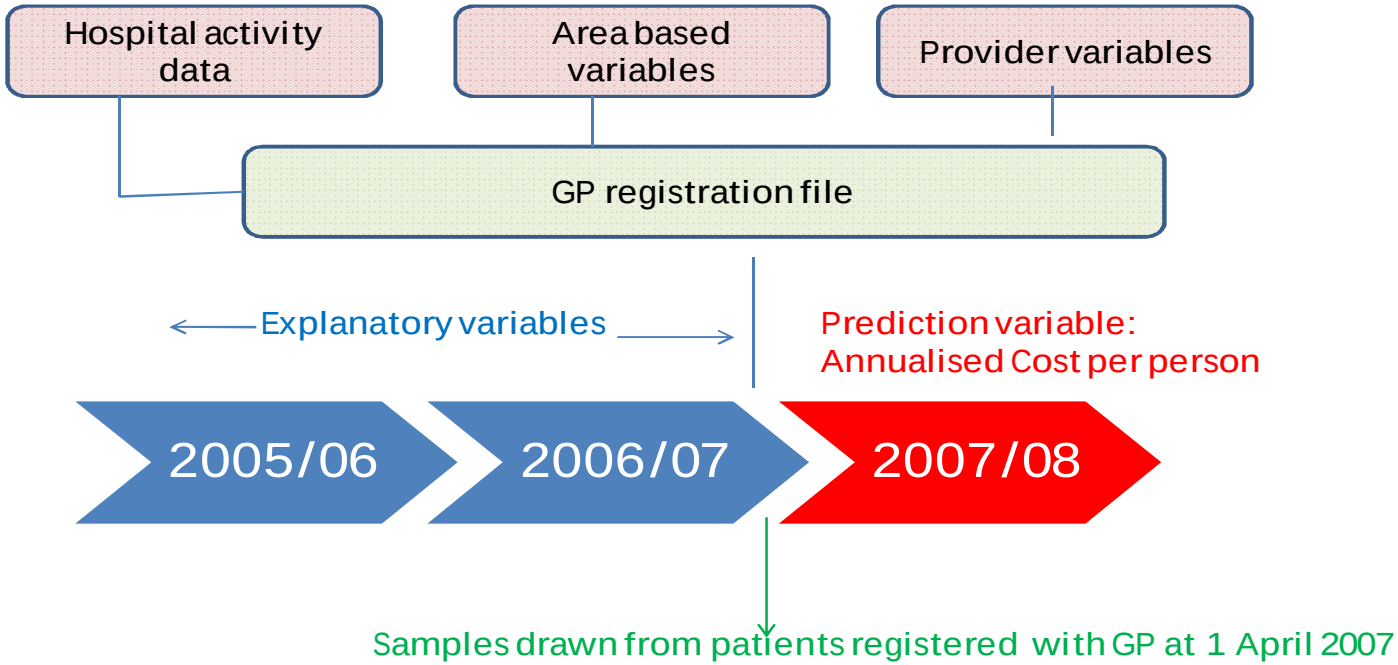
Looking at people not events



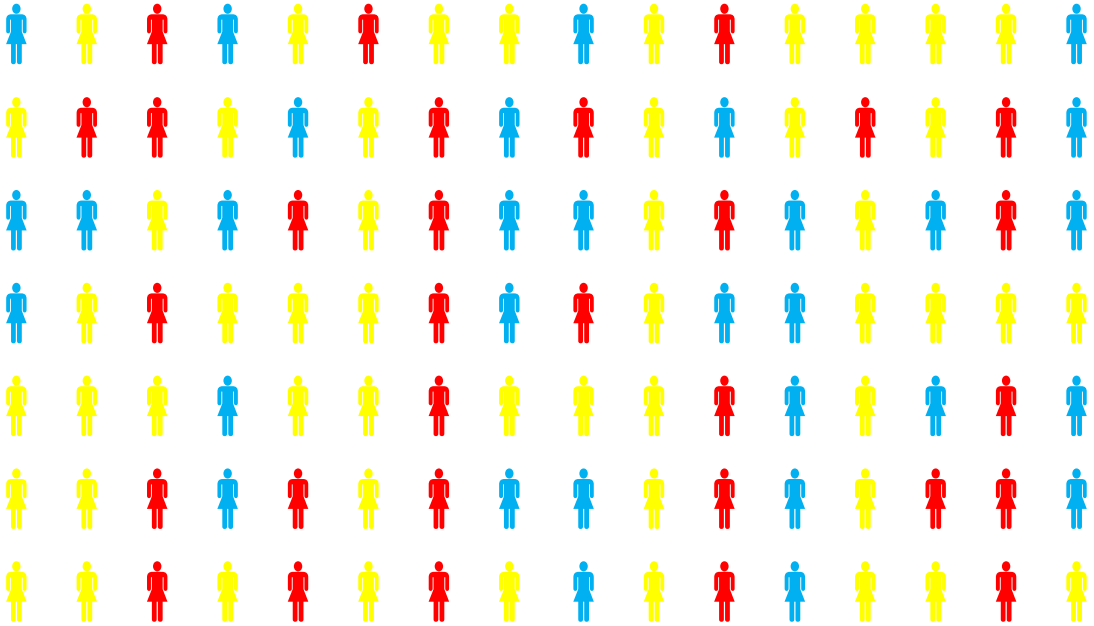
Using Individual Histories

- Predicting Future Costs
- Assess impact across sectors eg health and social care
- Evaluation of the impact of innovation and service change e.g. Whole Systems Demonstrators
- Case finding: identifying a people at risk

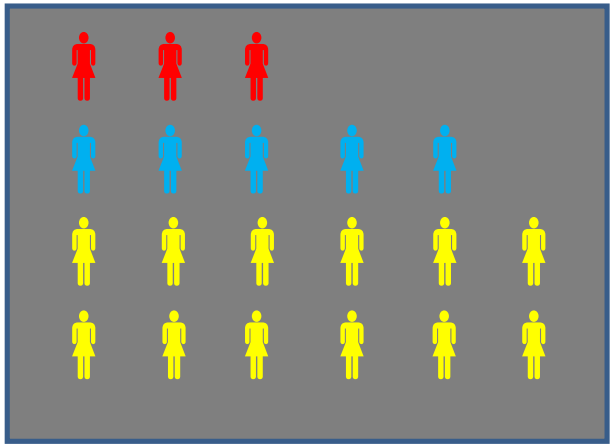
Using individual histories? Predicting Future Costs



Person based resource allocation



General population: Mix of predicted future costs



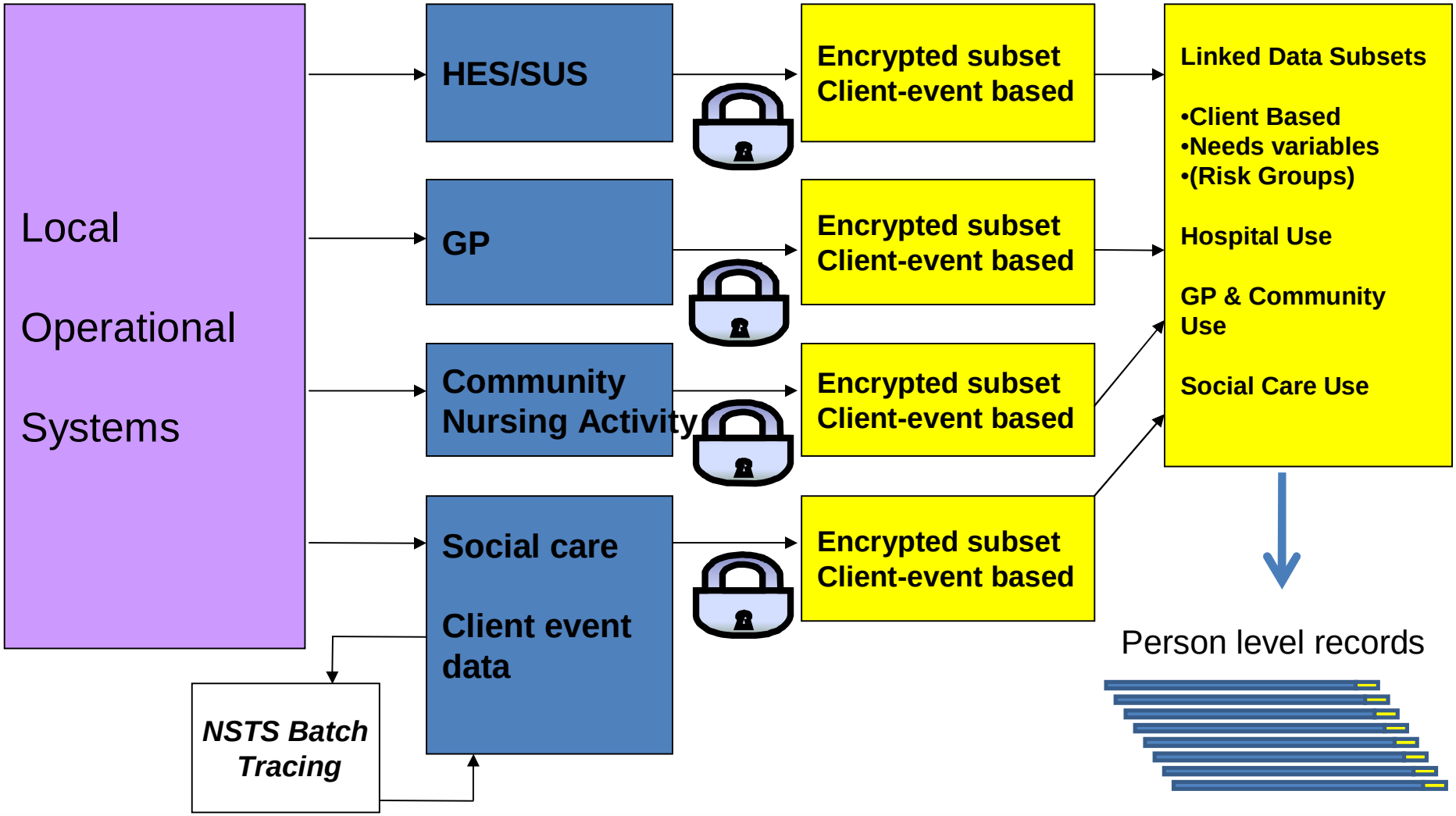
Practice population

@ £10,000 per person per year

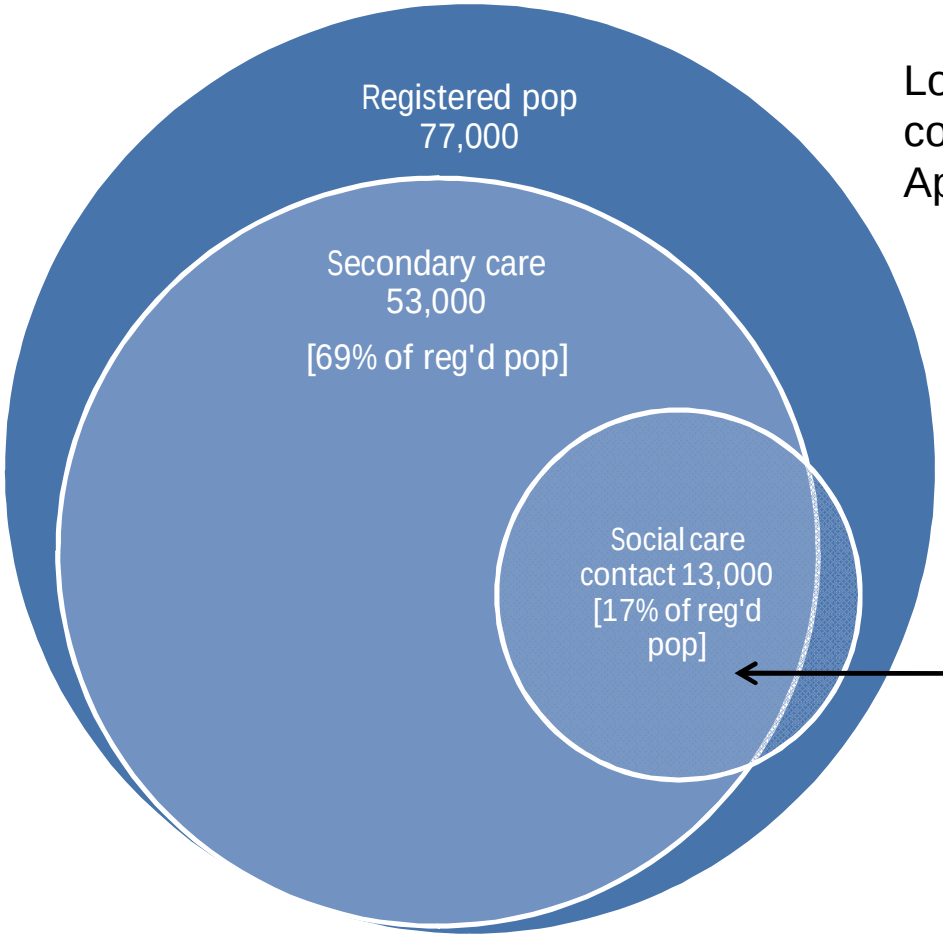
@ £1,000 per person per year

@ £100 per person per year

Linking Information Flows for Evaluation



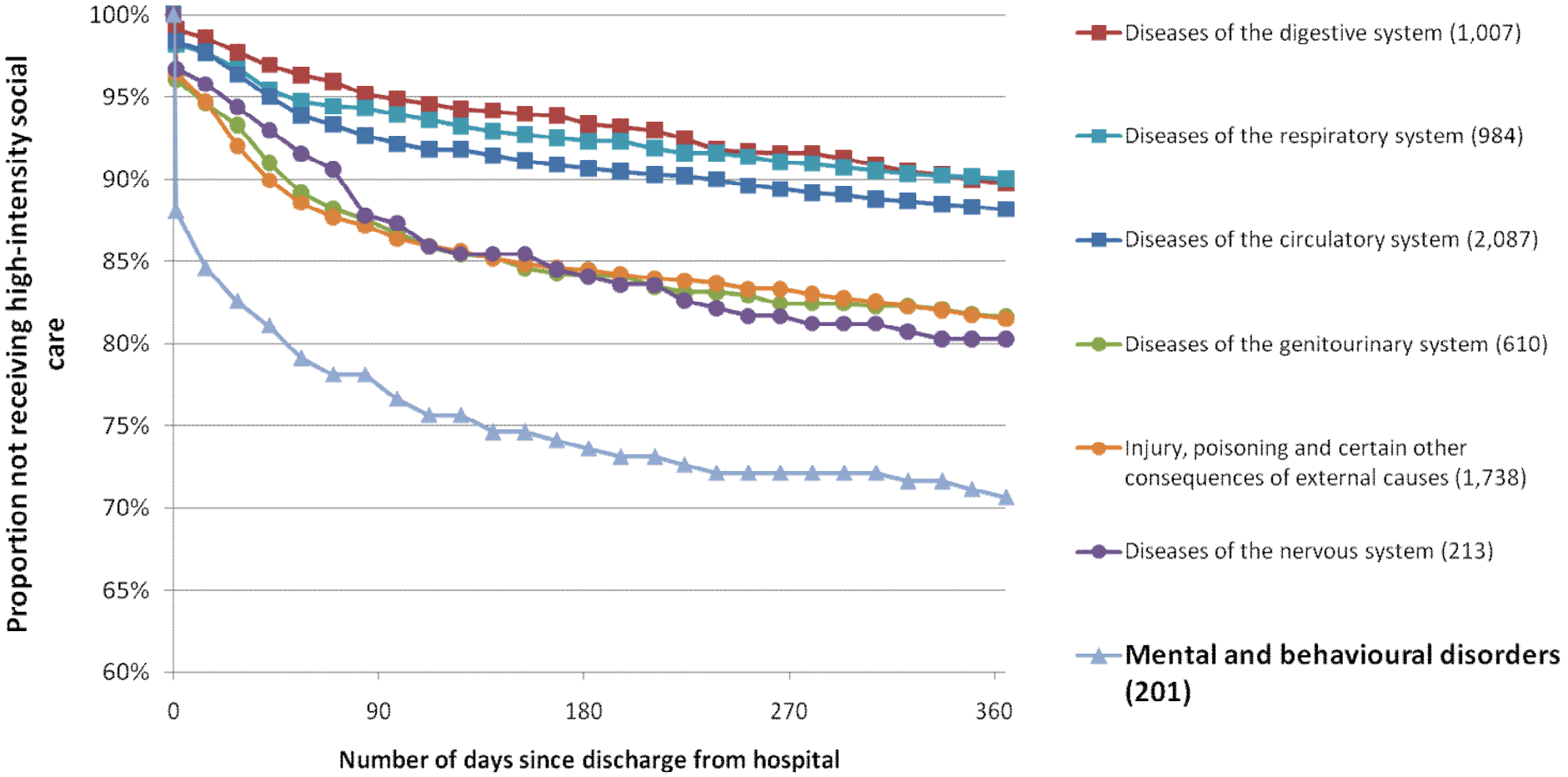
Area 1 social and secondary care interface over three years



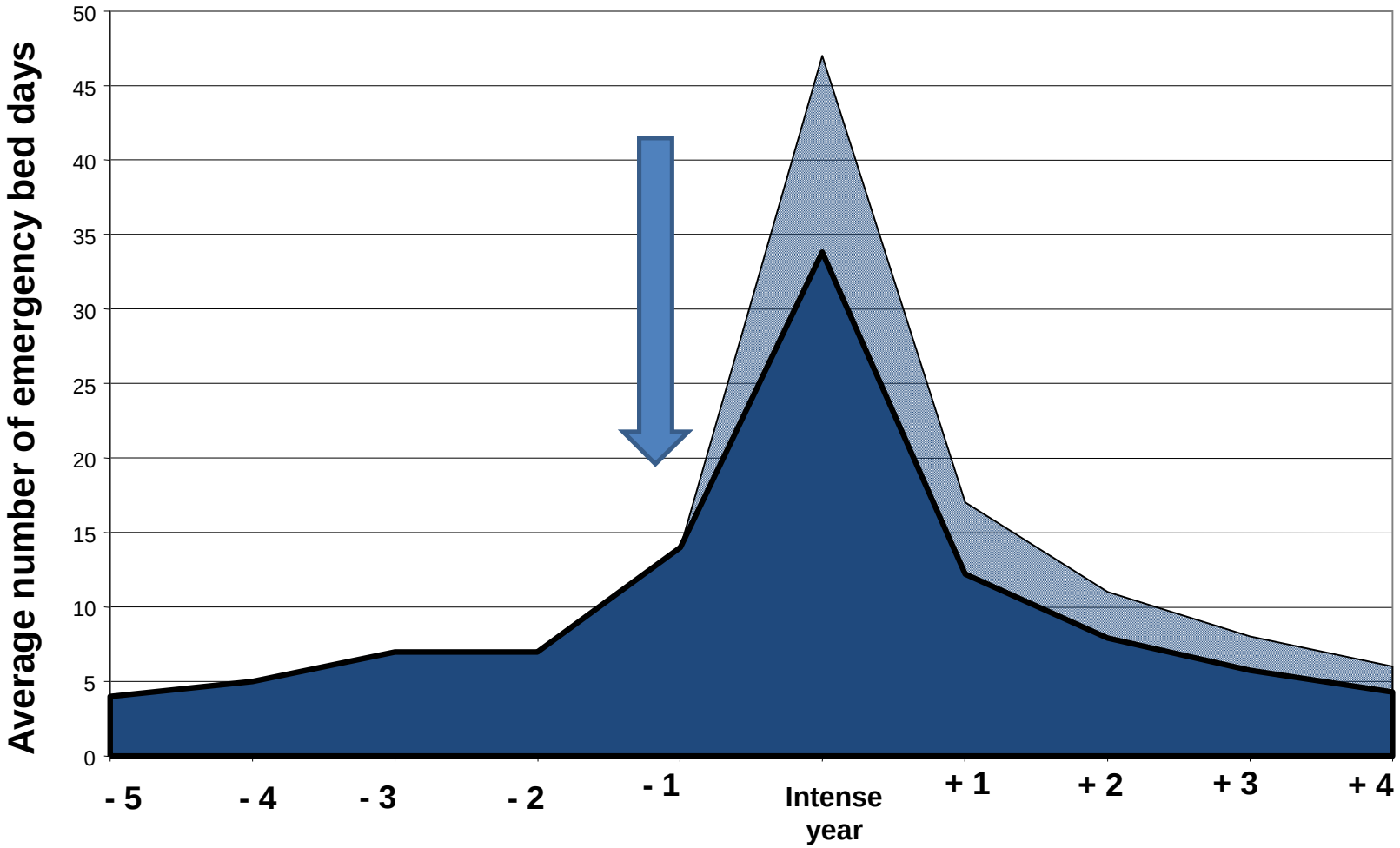
Looking at all over 55s, registered continuously with local GPs from April 2005 to April 2008

90% of those with a social care contact have also had secondary care contact(s) in the three years

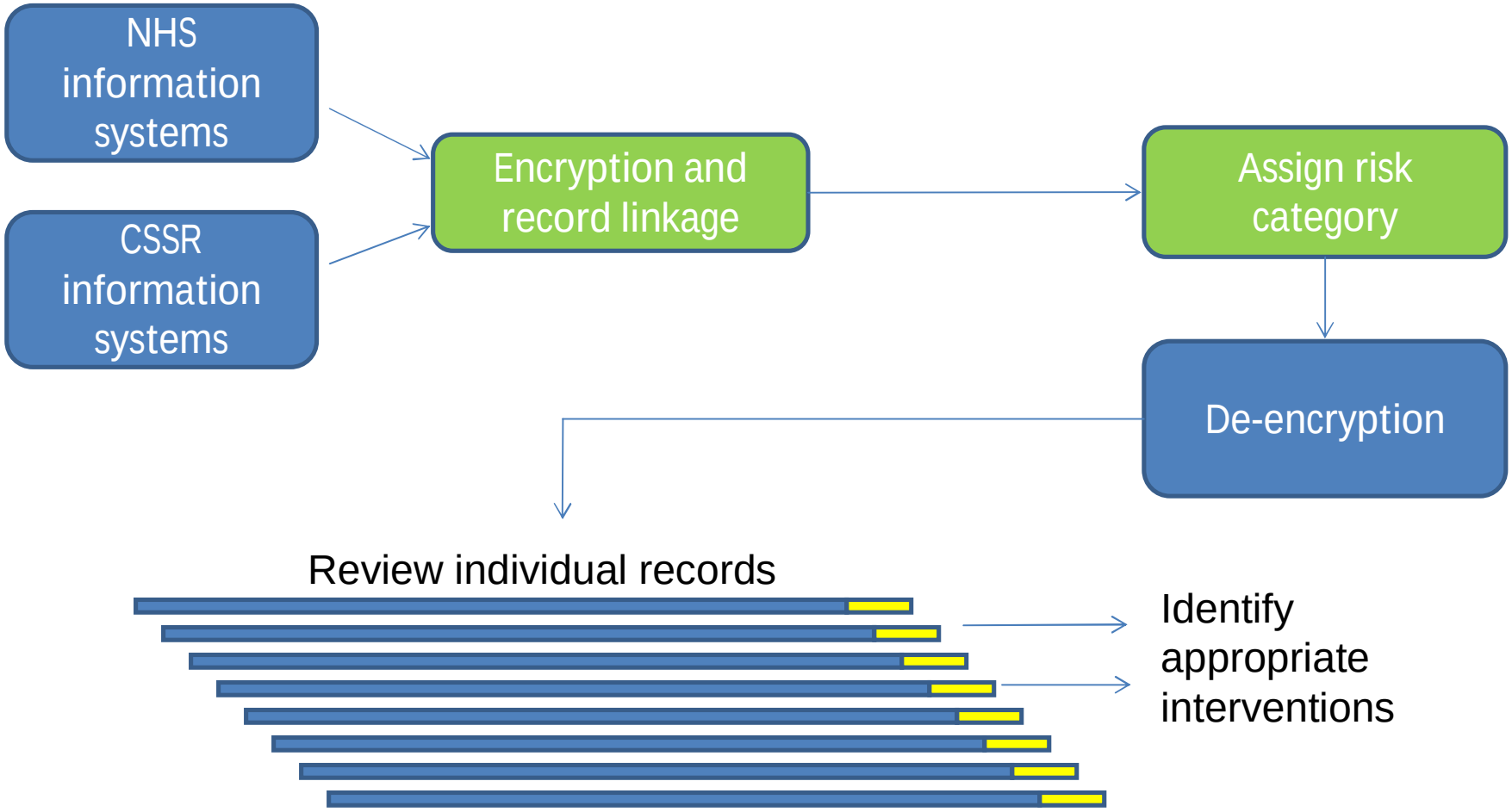
Social care use for people aged 75+ following an emergency hospital admission, by diagnosis on admission



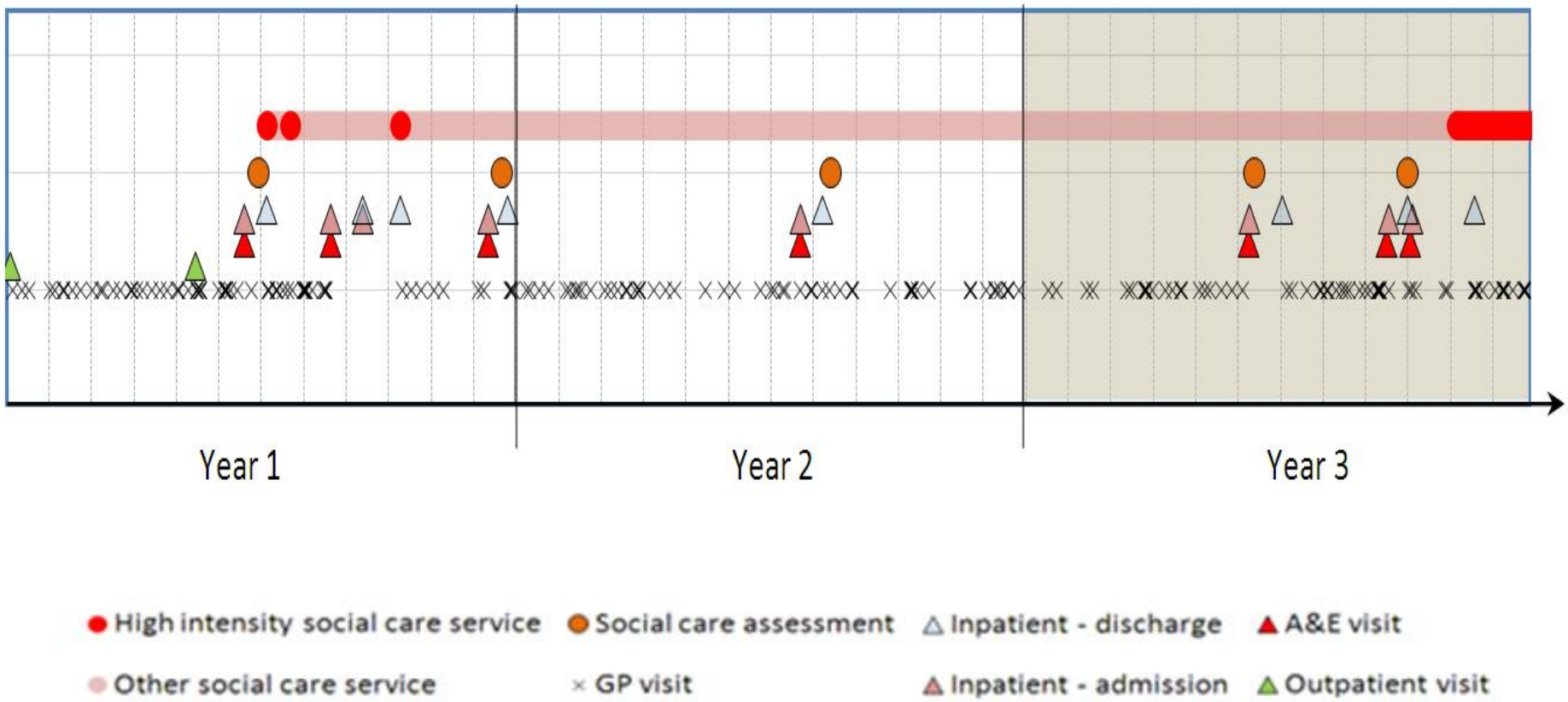
Finding People at Risk



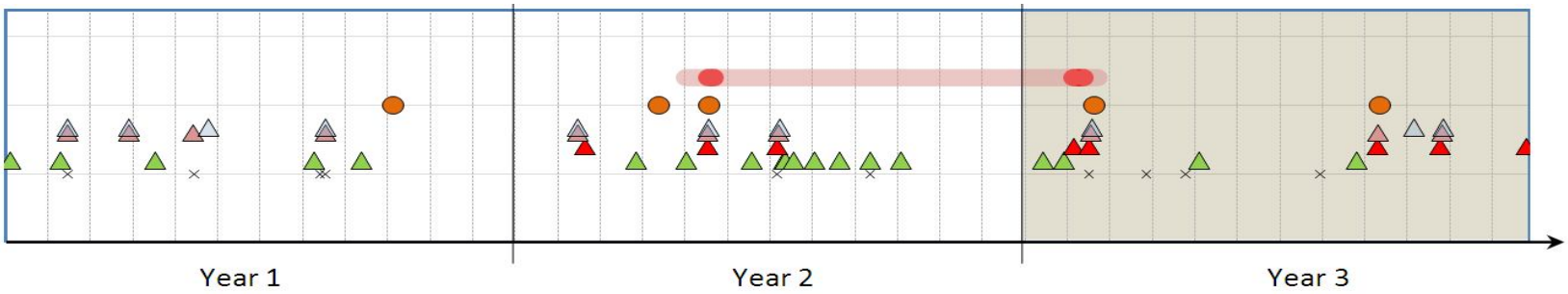
Case finding. Identify individuals at high risk of admission



Health and social care event timeline



Information for.....?



- Policy analysis.
- Commissioning.
- Delivering health care services.
- Clinical staff.
- Service Users.

Reform Lab: concurrent sessions

1. Polysystems: Redbridge: The Future is here?
Azalea

2. How data changed clinical behaviour. United Health. Bay

3. Stemming demand: How we can track what works? Nuffield Trust. Begonia

4. Converging data to create visual information - providing the real-time perspective of operational efficiency and 'releasing time to care.
Walsall Hospitals NHS Trust. Wotton Suite