

Current Progress

- Andy Turner
- <http://www.geog.leeds.ac.uk/people/a.turner/projects/MoSeS/documentation/meetings/archive/2006-12-20/CurrentProgressAndyTurner.pdf>

Demographic Modelling Background

- Aim to develop a demographic model of the UK population from 2001 to 2031 at individual, household and small area level
- Base the model on available 2001 UK Population census data
- Proposal
 - Select from the SARs and fit to aggregate census area statistics

Progress as of a year ago

- 12 months ago
 - After 6 months work, an age and gender constrained and parallelised version of a population initialisation based on the Individual SAR was set running for the UK
 - Optimised for a selection of variables
 - Household composition
 - Health
 - Employment
- The results were available by around February and provided to Belinda for dynamic simulation

Progress in the last year

- The data provided to Belinda could not easily be formed into households
 - The household formation code was integrated into the population initialisation routine so as to provide individuals that could be aggregated into households
 - New data was generated for the UK
- In March the Household SAR became available
 - It was decided this should be used
 - A new version of the population initialisation code was to be developed

Complications

- Move to use MSOAs
- Sampling without replacement was demanded, but this was unreasonable
 - Once the code worked I realised some results were poor
 - In general the results were declared poor
- A new version using sampling with replacement was developed
 - Alternatives, such as boosting the household SAR data were considered

Progress in the last month

- Data visualisation programs were developed to compare observed and expected statistics at small area level
- Data analysis lead to more rapid development cycle
 - The results improved to a level where Mark has confidence in the continued development of this part of the project
 - At the last progress meeting it was decreed that if results were not shown to be sufficiently good in the next week that a different method based on IPS would be developed instead

General Progress

- Embracing open e-Research
 - Web content development
 - Blog it all
 - Distill the information
 - This is now saving me time and enhancing my research considerably
 - Open source
 - Using open source APIs
 - Publishing code as open source
 - Collaboration
 - Becoming networked and plugging our efforts

Organisation

- People are the most important part of any organisation
- Team work is essential to our success
 - I think we are doing well
 - We are always challenged to do better
- Concerns over communication
 - More regular developer meetings
 - I want to know more about Mark's work
- I want to know more about Belinda's progress