
SPENSER

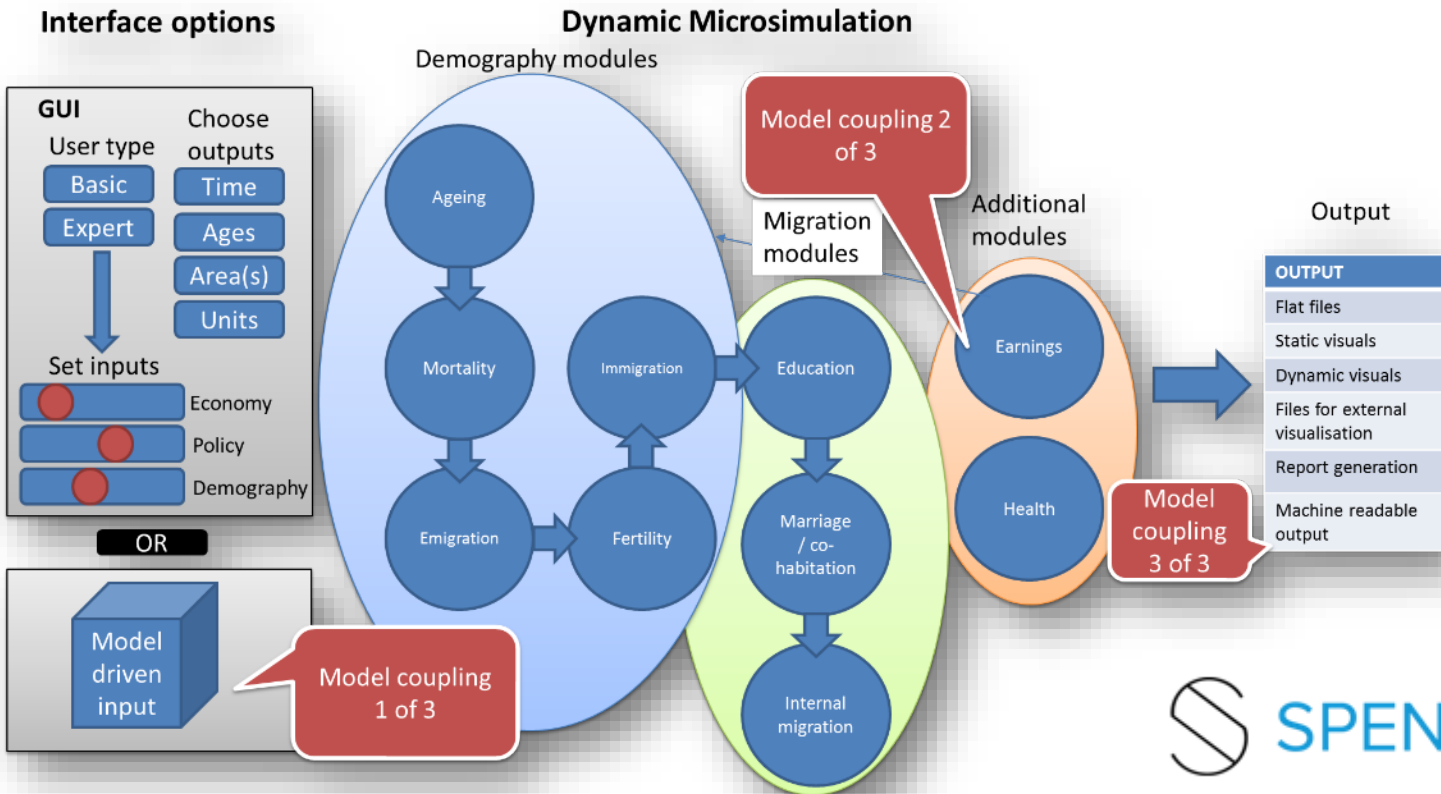
A Synthetic Population Estimation and
Scenario Projection Model

Nik Lomax

SPENSER - Concepts

- A synthetic population estimation and projection model which uses dynamic microsimulation
- Provides the framework for high resolution population projections and tools for user customisable scenarios
- SPENSER will make demographic forecasting accessible to a wide range of stakeholders
- The model interface will allow SPENSER to be called by other models being developed both within and outside of the Turing Institute

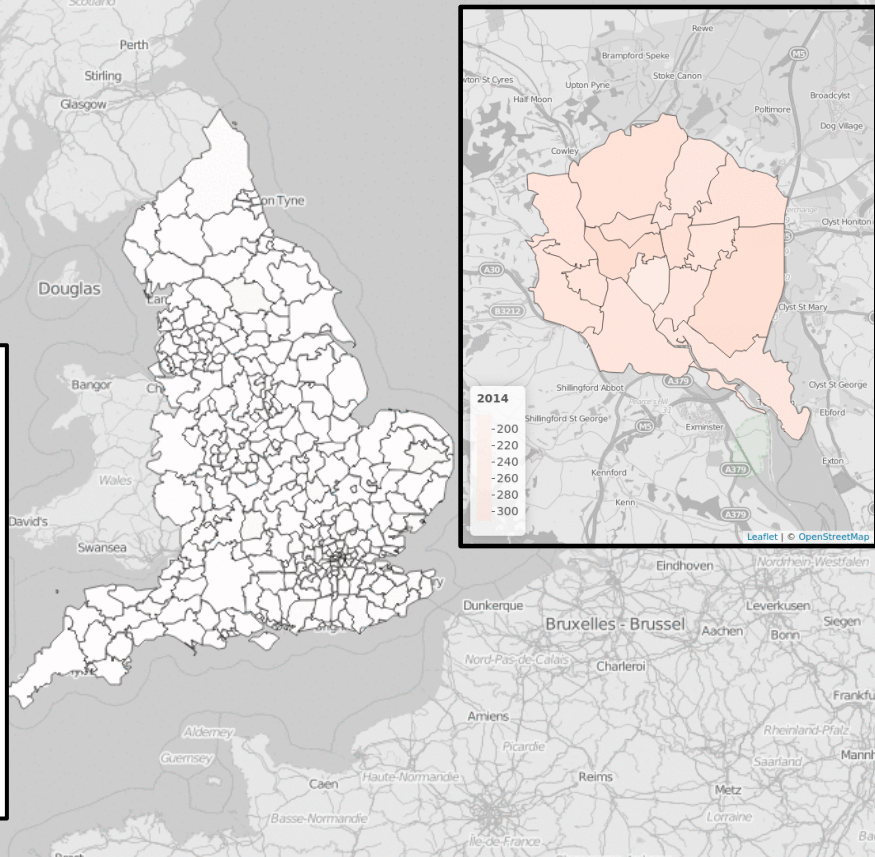
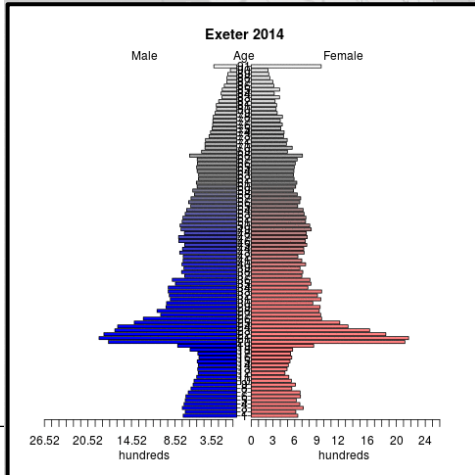
SPENSER - Workflow



SPENSER - Outputs

2012-2011 household density change

- 0.990%
- 0.995%
- 1.000%
- 1.005%
- 1.010%
- 1.015%
- 1.020%
- 1.025%
- 1.030%



DAFNI – Scaling up

Pilot 4: SPENSER, SIMIM - UK Population Model

LOGOUT

Welcome

Scenario


Config

Create Simulation

Visualise

Chord Visualise

Select Scenario File
scenario1.csv



Add Scenario Information

LAD ID: E07000079

Place Name: Gotswood

Start Year
2020

End Year
2030

Annual Job Growth 0

Annual Households Growth 0

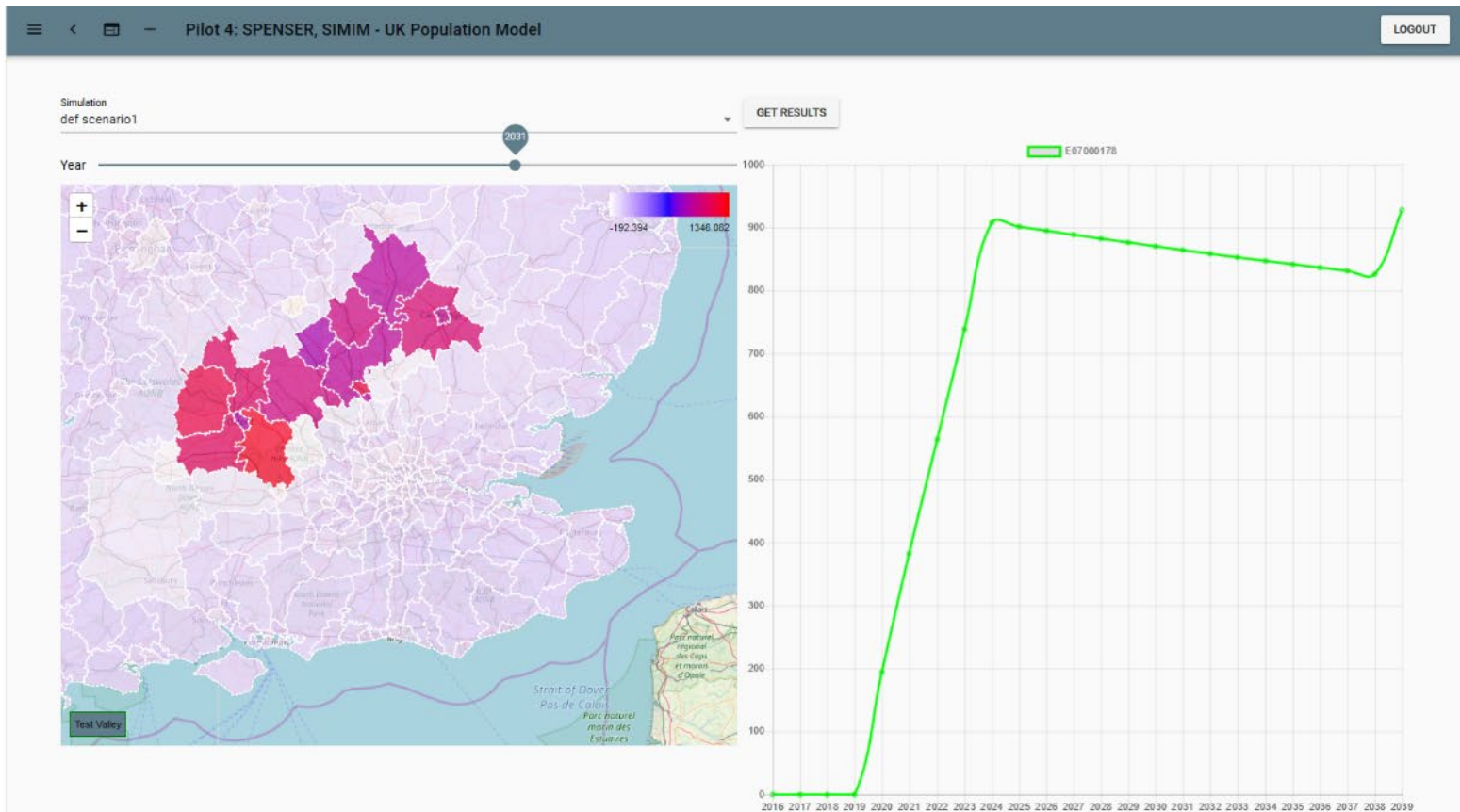
Annual GVA Growth 0

SAVE CHANGES CANCEL

GEOGRAPHY_CODE ↑	LAD NAME	YEAR	HOUSEHOLDS	JOB	GVA		
E06000032	Luton	2020	4032	0			
E06000032	Luton	2021	4032	0			
E06000032	Luton	2022	4032	0			

DAFNI – Scaling up

- Welcome
- Scenario
- Config
- Create Simulation
- Visualise
- Chord Visualise



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