

New directions in microsimulation

8 February 2018, 9:00 – 4:30

A workshop hosted by NATSEM, University of Canberra and Commonwealth Treasury

Microsimulation is used in Australia and internationally to assess the impact of different Government policies. The aim of this workshop is to bring together those working in the microsimulation field, to discuss the latest methods, learn from different areas and different groups and establish connections.

While there is a reasonably long history of academics and government using tax/transfer microsimulation models, the field of microsimulation in Australia is rapidly expanding and now also encompasses: farm microsimulation models; spatial microsimulation models; transport microsimulation models; and health microsimulation models. Overseas, microsimulation has been used to model environmental policies, labour supply, consumption, macro-economic change, demographic change, transport and firms.

The workshop will consist of four sessions starting with a short introduction to the area followed by contributions covering new developments in the field and a discussion of future directions. This discussion will be chaired by an invited expert in the area.

Please register for the workshop at the Eventbrite site:

<https://www.eventbrite.com.au/e/australian-microsimulation-workshop-tickets-42615900305>

Program

Time	Session	Presenter
9:00 – 9:15	Coffee	
9:15 – 9:25	Welcome	Robert Tanton (NATSEM, University of Canberra)

Tax / transfer modelling:

Chair: Susie Kluth

Time	Session	Presenter
9:25 – 9:30	Introduction	Susie Kluth (Treasury)
9:30 – 9:45	Stretching Groundhog Day: challenges of modelling part-year effects	Brendan Price (Department of Social Services)
9:45 – 10:00	Innovations in STINMOD+	Jinjing Li (NATSEM, University of Canberra)
10:00 – 10:15	New developments in Treasury models	Susie Kluth (Treasury)
10:15 – 10:30	Using Tableau and R to create PoEM cameos for everyone	Adam Cullen (Department of Finance)
10:30 – 11:00	Discussion – Where to from here?	

Morning Tea 11:00 – 11:30

Dynamic / Behavioural modelling

Chair: Matt Smith

Time	Session	Presenter
11:30 – 11:35	Introduction	Matt Smith (Treasury)
11:35 – 11:50	Introduction to the measurement of welfare changes in behavioural microsimulation models	Nicolas Haurat (University of Melbourne)
11:50 – 12:05	MARIA	Matt Smith (Treasury)
12:05 – 12:20	Medium term projection model	Greg Bateman (Department of Social Services)
12:20 – 12:50	Discussion – Where to from here?	

Lunch 12:50 – 1:30

Spatial modelling

Chair: Robert Tanton

Time	Session	Presenter
1:30 – 1:35	Introduction	Robert Tanton (NATSEM, University of Canberra)
1:35 – 1:50	Mixing models: using a synthetic population to bring together different microsimulation models	Robert Tanton (NATSEM, University of Canberra)
1:50 - 2:05	An intelligent system based microsimulation modelling for estimating and mapping of small area agricultural data	Azizur Rahman (Charles Sturt University)
2:05 – 2:20	Towards the right ordering of the sequence of models in microsimulations	Johan Barthélemy (University of Wollongong)
2:20 – 2:50	Discussion – Where to from here?	

Afternoon tea 2:50 – 3:10

Health modelling

Chair: Laurie Brown

Time	Session	Presenter
3:10 – 3:15	Introduction	Laurie Brown (NATSEM, University of Canberra)
3:15 – 3:30	Recent developments in Health microsimulation	Deborah Schofield (Macquarie University)
3:30 – 3:45	Challenges in the dynamic modelling of chronic disease	Laurie Brown (NATSEM, University of Canberra)
3:40 – 4:10	Discussion – Where to from here?	
4:10 – 4:30	Wrap up and future workshops	Gillian Beer (Treasury)