

Five-day Course

Individual-based Modeling in Epidemiology

A Practical Introduction

13-17 November, Antwerp, Belgium

WHY ATTEND?

- ⇒ Create your own IBM
- ⇒ Hands-on course
- ⇒ Acquire skills to design, implement and analyze IBMs
- ⇒ Learn NetLogo: an easy accessible multi-agent modeling environment
- ⇒ Combine within- and between-host dynamics

TARGET AUDIENCE

Phd students, postdocs and health science professionals whose work potentially involves the design and/or use of individual-based models in epidemiology. Prior experience with R is a plus. Prior experience with NetLogo is not required

PROGRAM

Monday

Introduction, formulating IBM's

Tuesday

Model concepts: behavior, interaction, stochasticity

Wednesday

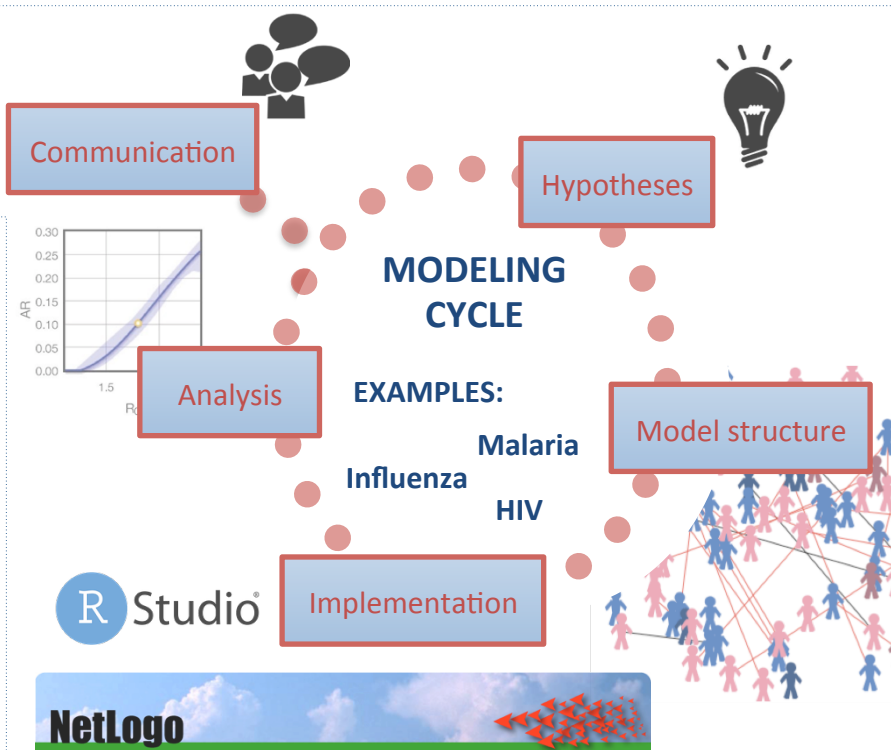
Model analysis: sensitivity, exploration, robustness

Thursday

Model calibration: fitting to data

Friday

Model validation: compare model projections to empirical data



VENUE

Universiteit Antwerpen
Hof van Liere
Prinsstraat 1
2000 Antwerpen

Daily from 9h-17h

(Easy accessible with public transport)

COURSE FEE

Subscription fee per person
(includes tuition, course materials, lunch and coffee breaks): 350 euro

(Pdh students of Ugent can get a refund)

INSTRUCTORS

Prof. Dr. Wim Delva
Medical Doctor and
& Mathematical Epidemiologist

Dr. Lander Willem
Infectious Disease Modeler
& Scientific Computing

More info & registration:

www.uantwerp.be/en/conferences/ibm