URBAN CIRCULAR SYSTEMS

CNRS SUMMER SCHOOL

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https://us06web.zoom.us/j/86769792579?pwd=TWZuNEZlaHhOU1VlYlZhN1hLaUU4UT09

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The CNRS "Urban Circular Systems" school intends to bring together a community of scientists from many disciplines (economics, geography, political science, mathematicians, statisticians, physicists, sociology…) likely to meet these challenges.

Five objectives

(1) To review modeling techniques, urban models (LUTI models, 4-step model, Urban Dynamics) and extensions that capture the complexity of such an ecosystem (population growth, energy consumption, transportation, CO2 emissions, etc.));

(2) To address the issue of data from scale (local level) and new sources (sensors, mobile phones administrative data). Models provide a conceptual framework for thinking through data needs.

(3) To identify the issues of modeling new sectors and nexus than transportation, housing and jobs), for example energy – food – water; mobility – energy - GHG emissions…

(4) To understand how actors (Agent Based Models) and stakeholders (Participatory modelling) are involved (or not) in the modelling process;

(5) To analyse models from the perspective of scenarios and different visions of the future.

CNRS Summer School (Program)

Location : Laschamps, June 27th - July 1st

Monday 27	Tuesday 28	Wednesday 29	Thursday 30	Friday 1st
9.30 – 10.00 *Summer School Presentation* Arnaud Diemer et Cécile Batisse 10.00 – 12.00 Keynote speaker Michael Batty *Centre for Advanced Spatial Analysis, London College, UK* **Development of computer models of cities and regions**	9.00 – 12.00 Jean Philippe Antoni *University Bourgogne (France)* **Model MOBSIM Soft**	9.00 – 10. 30 Reza Argandeh *HVL (Norway)* **Energy Modelling** **1.30 – 3.30** *Oscar Montes* *(Scion, New Zealand)* **Modelling regional bioeconomy initiatives**	9.00 – 10.15 Arnaud Diemer Cécile Batisse *UCA, CERDI, ERASME (France)* **Urban Dynamics, Model and Applications** 10.30 – 12.00 Alessandro Sciullo *Turin University (Italy)* **Agent Based Models**	9.00 – 10.30 Aneta Ivanovska *Jozef Stefan Institute (Slovenia)* **Articifial intelligence for Sustainable Food Systems** 10.45 – 12.15 Heather Jean Arghandeh Paudler *HVL (Norway)* **Involving citizens and stakeholders (role of communicating scientific methods and results)**
12.00 – 1.30 Lunch	12.00 – 1.30 Lunch	12.00 – 1.30 Lunch	12.00 – 1.30 Lunch	12.15 – 1.45 Lunch
1.30 – 3.30 Seghir Zerguini, Simon Gorecki *University of Bordeaux, Gretha (France)* **Model LUTI and MUST B Part 1**	1.30 – 3.30 Stéphanie Souche Le Corvec, Aurélie Mercier *University Lyon 2 (France)* **Four Steps Model for transports Part 1**	1.30 – 3.30 Yann Robiou du Pont *HVL (Norway)* **Subnational level Carbon accounting**	1.30 – 3.30 Derek Chan *International Livestock Research Institute (CGIAR, Senegal)* **Participatory Modeling with System Dynamics for Sustainability**	*End of the summer school*
3.30 – 4.00 Break	3.30 – 4.00 Break	3.30 – 4.00 Break	3.30 – 4.00 Break	
4.00 – 5.30 Seghir Zerguini, Simon Gorecki *University of Bordeaux, Gretha (France)* **Model LUTI and MUST B Part 2**	4.00 – 5.30 Stéphanie Souche Le Corvec, Aurélie Mercier *University Lyon 2 (France)* **Four Steps Model for transports Part 2**	*Free time*	04.00 – 05.30 Matteo Pedercini, *Millennium institute (USA)* **iSDG at City level : challenges and issues**	
7.00 – 9.00 Dinner	7.00 – 8.30 Dinner	7.00 – 9.00 Dinner	7.00 – 9.00 Dinner	

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https://www.inshs.cnrs.fr/fr/liste-des-ecoles-thematiques-shs-2022

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Night Walk in the Vulcanoes Area is planned Tuesday at 8.30 pm, take good schoes and clothes