

NUS Cities Lecture Series: Complexity in Cities || Register by 2 Aug

18 July 2023 || TO NUS Community

Sent on behalf of [NUS Cities](#)

Gain a deeper understanding of the complexity in cities from two experts at this seminar! Professor Michael Batty from The Centre for Advanced Spatial Analysis (CASA) at University College London will give a lecture on Explaining the Complexity of Cities through Digital Twins while Professor Luis Bettencourt from Mansueto Institute for Urban Innovation at the University of Chicago will talk about The Science of Cities from the Bottom-Up: Implications for Urban Planning and Uses of New Technologies.

Register here: <https://shorturl.at/itBKL>

NUS
CITIES Lecture Series



Complexity in Cities

Explaining the Complexity of Cities through Digital Twins

In the quest for an integrated multi-perspective understanding of increasing complexity of cities, the idea of the digital twin has emerged. The lecture would introduce the notion of the digital twin, speculating on its many meanings and then illustrate how different models of the same place are increasingly characteristic of urban problems, posing the key dilemma of how close a model might come to the real thing without it being the real thing, the actual city.

Lecture by: Prof Michael Batty

Emeritus Professor of Planning,
Centre for Advanced Spatial Analysis (CASA), Faculty of the
Built Environment, UCL

The Science of Cities from the Bottom Up : Implications for Urban Planning and Uses of New Technologies

Traditionally, urban planning adopted a top-down approach, but linkages between tools and outcomes remained poorly understood, sometimes with severe negative consequences. Hence, new perspectives have emerged calling for urban planning and policy to be more people-centric, and to directly address issues of livability and equity from the bottom-up.

The lecture would discuss how urban science is built at the intersection of these two approaches, and provides both predictions and tools for understanding and acting in cities. These approaches would be elaborated in light of new technologies and models of community engagement, towards people centric design in the present, and addressing difficult issues of climate change and sustainable development in the decades ahead.

Lecture by: Prof Luis Bettencourt

Pritzker Director, Mansueto Institute for Urban Innovation at the
University of Chicago
Professor of Ecology and Evolution, University of Chicago
External Professor of Complex Systems, Santa Fe Institute.



On 3rd Aug 2023, 6 p.m. (SGT)
At NUS SDE3 Level 4, In Lecture Theatre LT425
Register : <https://shorturl.at/itBKL>
CPD points pending for BOA SIA | SIP | SILA

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NUS Cities Lecture Series investigates ideas, policies and projects developed by urban experts, which aspire to create sustainable, resilient and liveable cities