

## Call for Communications

### FUTURE Days 2020 SCIENCES AND PUBLIC POLICY FOR CITIES

2 | 3 December 2020  
Université Gustave Eiffel, Marne-la-Vallée

Global research and higher education systems are questioned by a rising number of flagship reports and cross-disciplinary initiatives showcasing the lack of relevant urban science to meet the 2030 Agenda in times of urbanization, resources limitation and global warming : "Science and the Future of cities", *Nature Sustainability*, 2018; "Global Research and Action Agenda on Cities and Climate Change Sciences", 2018; "The Future is Now: Science for Achieving Sustainable Development", UNO, 2019, etc. These reports strengthen the necessity to enhance to science-policy interface to link the knowledge base to inform action.

Systemic changes in the production of knowledge are key to address digital, energy and environmental transitions while developing new skills and strengthening social capital. Navigating uncertain futures require ever expanded abilities to innovate, to understand and meet disruptions, and for the academia, to bring along public, private, civil society partners to foster much needed paradigm shifts.

Under the supervision of Université Gustave Eiffel, the FUTURE Days 2020 will take place the 2nd and 3rd of December 2020. This event will bring together world-class experts, researchers from various disciplines, practitioners, public and private leaders, members of the civil society in order to share and learn from experiences coming from all over the world. The aim is to share their knowledges, solutions, questions, choices relevance and operational implementations modalities. It will focus on actionable policy making recommendations at local and global scales, as well as in a European perspective including the implementation of Horizon Europe programs and the development of the Global Covenant of Mayors for Climate and Energy. The FUTURE Days 2020 will confront the new research and innovation results and knowledges to the technical, paradigmatic or political choices made in urban public policies intervention.

A part of the FUTURE Days 2020 will be organised around sessions built on the selected proposed communications. Urban public policies cover a wide areas like transportation and mobility, building and housing, urban planning and architecture, resources management and



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associated services (wastes, water, energy, materials...), health and well-being, culture, education, business development and social progress. This event will highlight the potential of a renewed dialogue among disciplines to shape the future: material sciences, civil engineering, geosciences, ecology, digital sciences, mathematics, logistics, psychology, sociology, political sciences, arts, history, literature, etc.

Communications will be organized around three main topics:

## Technical, paradigmatic and political debates on urban public policies

In order to face climatic, energetic and societal urban challenges, sectorial urban policies have to deal with a great number of technical or methodological choices on construction materials, design, operation, building, infrastructures and networks maintenance while taking into account economical, environmental, security, resilience and circular urban issues. New knowledges, tools, methods are consequently needed and must be shared.

These sectorial urban policies are also guided by paradigmatic choices and development models. What are the main debates on these technical choices? What are the main disruptive innovations in progress? What type of knowledges are needed to progress to a new type of "urbanity"?

## Implementation of urban public policies

The second area deals with debates on the implementation of sectorial urban public policies: How effective are the various policy levers? What is the reality and what are the modes of cooperation between players? What changes are under way with regard to means of implementation, in view of the growing diversity of players involved, of this increase in both number and in type? What can we learn from the so-called "hybrid" governance schemes? What is the actual situation regarding citizen participation: what are the key issues and methods? What role should be given to "data" in governance? What are the challenges with regard to skills and budget? Levels of intervention are also a key matter for consideration, from the local to the national and even international level. Lastly, the fact that urban policies remain fragmented should not discourage reflection on how to address the issues at stake and reinvent ways of decompartmentalising our approach.

## Urban public policies assessment

Urban policies have undergone many sectorial evaluations over the last decade. What lessons can be learnt, not only regarding economical, social and environmental impacts, but also regarding the safety and security of the choices made? What tools and methods can be



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developed for evaluation purposes? How can digital advances improve the processes of information and data collection? How should the matter of levels be approached in these evaluation exercises (spatial levels, temporal levels)? How should the notions of risk and uncertainty be incorporated?

Communications can be proposed around these 3 axis on studies coming from all over the world. The aim is to share and mix presentations on new knowledges, methods, tools, feedback experiences in order to propose a pertinent program.

Others very interesting and pertinent proposals not directly linked to these 3 axis could also be selected.

This call for communication is both for researchers from all disciplines, and public and private stakeholders (state organizations, local authorities, private societies, start-ups...) that are willing to share experiences and be part of a new king of urban innovative community.

## Call for communications schedule

**Communication proposals can be submitted in English (or French) (1,500 words maximum), before 20th March 2020 on <https://www.futuredays.fr/en/call-for-communications/>.**

Proposals will be selected by the FUTURE Days scientific committee (see the composition below).

The selection will be based on:

- The relevance of the proposal to the main topic of the FUTURE Days
- The relevance of the proposal to the three axis
- The innovative and disruptive approach proposed
- The diversity of cities contexts presented

Selection of the proposals: 30th March 2020.

## Scientific Committee members

- **Anne Aguilera**, Researcher, Mobility Practices and Urban Representations, IFSTTAR, Univ. Gustave Eiffel
- **Bénédicte Bucher**, Senior Researcher, Spatial Data Infrastructures, ENSG; Univ. Gustave Eiffel



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- **Richard Buswell**, Professor, Building Energy Systems, Loughborough University
- **Olivier Français**, Research Director, Micro-Systems / Micro-Sensors, ESIEE Paris, Univ. Gustave Eiffel
- **Valérie Gouet-Brunet**, Senior Researcher, Shape recognition / 3D reconstruction, IGN
- **Xiaofeng Guo**, Associate Professor, Sustainable Energy / Thermal Exchanges, ESIEE Paris, Univ. Gustave Eiffel
- **Martin Hendel**, Assistant Professor, Thermoclimatic Characterization of Urban Exchanges, ESIEE Paris, Univ. Gustave Eiffel
- **Pierre-Benoît Joly**, Senior Researcher, Sociology of Innovation, INRA, Univ. Gustave Eiffel
- **Stéphane Kampelmann**, Circular Economy and Urban Metabolism, Université Libre de Bruxelles
- **Dominique Mignot**, Senior Researcher, Transportation, IFSTTAR, Univ. Gustave Eiffel
- **Caroline Lasser**, Professor, Mathematics / Partial differential Equations, TU München
- **Fabien Laurent**, Senior Researcher, Transport Network Modelisation, École des Ponts ParisTech
- **Gaëlle Lissorgues**, Professor, Micro-Systems, Sensors, Telecommunication, ESIEE Paris, Univ. Gustave Eiffel
- **George Lomne**, Professor, Urban History, Univ. Gustave Eiffel
- **Anastasia Loukaitou Sideris**, Professor, Urban Planning, Luskin School of Public Affair
- **Giuliano Milani**, Professor, Urban Political History, UPEM, Univ. Gustave Eiffel
- **Elyes Nefzaoui**, Assistant Professor, Energy Efficiency of Buildings, ESIEE Paris, Univ. Gustave Eiffel
- **Margot Pellegrino**, Lecturer, Urban Energy Transition, UPEM, Univ. Gustave Eiffel
- **Jeffrey Raven**, Associate Professor, Sustainable Urban Design, New-York Institute of Technology
- **David Rey**, Senior Lecturer, Integrated Transport Innovation, UNSW Sydney
- **Emmanuel Rey**, Associate Professor, Architecture and Sustainable Technologies, EPFL
- **Arjan van Timmeren**, Professor, Smart and Sustainable building, TU Delft
- **Franck Scherrer**, Professor, Sustainable Development, UDM – HEC Montréal – Polytechnique Montréal
- **Gisèle Seginger**, Professor, Biological Littérature, UPEM, Univ. Gustave Eiffel
- **Jacques Teller**, Professor, Urban Planning, Université de Liège
- **Jean-Michel Torrenti**, Senior Researcher, Mechanical and Materials Engineering, IFSTTAR, Univ. Gustave Eiffel
- **Remko Uijlenhoet**, Professor, Environmental Sciences / Hydrology and Quantitative Water Management, Wageningen University



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- **Anthony Wachs**, Professor, Fluid Mechanics / Numerical Simulation and Modelling, University British Columbia
- **Karl Matthias Weber**, Sociology of Innovation, Director of the Austrian Institute of Technology GmbH



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