

3rd International Land Use Symposium



Land use changes: Trends and Projections

4-6 December 2019

Université de Paris

Campus des Grands Moulins

Amphithéâtre Buffon

15 rue Hélène Brion

75013 Paris



Leibniz Institute
of Ecological and
Regional Development



Laboratoire Interdisciplinaire
des Energies de Demain
Paris Interdisciplinary Energy
Research Institute



Wednesday – 4 December 2019

10:30-12:00 **Paris tour**

Paris Rive Gauche: a change in land use relying to History/Paris Rive Gauche
By Christophe BAYLE, Architect/urbanist, SEMAPA

12:00-13:00 Registrations (Hall of amphitheater Buffon)

13:00 Welcome: introductions, welcome coffee (amphitheater Buffon)

13:30 Welcome LIED (Mathieu Arnoux) and IOER (Marc Wolfram)

Session Land Use and Land Cover Change Observations

14:00-15:00 **Keynote of Martino Pesaresi (JRC ISPRA)**
(Amphitheater. Buffon)

Measuring global human settlement dynamics in the perspective of the Global Human Settlement Layer (GHSL)

15:00-16:45 Two parallel sessions (Amphitheatres Buffon and P.-G. de Gennes)

	Buffon	P.-G. de Gennes
15:00	Paul Kilgarriff et al.: Change in Artificial Land Use over time across European Cities: A rescaled radial perspective.	Wissal Selmi et al.: Using geodata to assess urban ecosystem services in Strasbourg city.
15:15	Guangzhao Chen et al.: A global land-use and land-cover simulation model at 1-km resolution for 2010-2100 based on human-environment interactions.	Yulia Grinblat et al.: From Cells to Projects in Analysis and Modeling of the LULC Dynamics.
15:30	Christian Gerten et al.: The sprawling planet: simplifying the measurement for global urbanization trends.	Lu Zhang: Strategies for post-mining decision from the perspective of comprehensive sustainability, take China as an example".

15:45	Christina Karakizi et al.: Challenges in annual land-cover and crop-type mapping at national scale: the case of Greece.	Rodrigue Houesse et al.: New trends in deforestation in northern Benin.
16:00	Yvette Vaguet et al.: Mapping Urban Areas in Arctic.	Anatol Garioud et al.: Joint analysis of SAR and optical satellite images time series for grassland mowing event detection.
16:15	Rémi Lemoy et al.: Radial Analysis and Scaling of Urban Land Use.	Liane Thuvander et al.: Spatial integration of qualitative data – Automated geovisualization of perception of urban places.
16:30	Yunfei Li et al.: An upgraded gravitational urban growth model.	Alexander Hellervik et al.: Regional centrality as a self-reinforcing process – modelling how transportation networks shape urban activity structure.

16:45-17:15 Coffee break (Hall of amphitheater Buffon)

17:15-19:00 *Session poster* (Hall of amphitheater Buffon)

- Javier Medina et al.: Generation of automatic vector cartography for water bodies applying analysis multiresolution at high spatial resolution satellite images in the sacannah of Bogotá – Colombia.
- Elise Simon: Changes in the land-tenure patterns: for a systemic and historical analysis of ownership, land-use and habitat structures. Essay on two regions (France-Germany).
- Samuel Benkimoun: Automatized urban area detection at fine scale and population allocation: toward a better understanding of urban India
- Muhammad Salem Said Muhammad et al.: Dynamic urbanization of peri-urban areas around Greater Cairo in Egypt.
- Moisei Zakharov et al.: Permafrost landscape's structure categorization based on land cover, digital relief model, and land surface temperatures in Verkhoyansk Mountain Range (Russia).
- Esthela Salazar et al.: Configuration of the new metropolitan area of Quito: land uses and future scenarios for planning.

- Paul Gérard GBETKOM et al.: Vegetation cover changes analysis at the Cameroonian shores of Lake Chad and its hinterland between 2000 and 2018.
- Agnieszka Gajda: Big-data approach in delimitation of suburbanization and urban sprawl zones in Poland.
- Rosaria Trovato et al.: Regional foresight for local decision-making: Stuttgart Region's smart approach to sustainable development.
- Erika Upegui et al.: Spatial analysis of urban heat islands in the city of Bogotá - Colombia; the effects of urbanization, a study from remote sensing.
- Dennis Fox et al.: Modeling the impacts of urbanization on runoff using the building footprint (1988-2014).
- Pablo Martin Bender, Eda Goes: How it emerged and how it might die: the use of public space throughout history and current social trends in Brazil.
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- Manon Glockmann et al.: Urban land cover changes – unifying expansion and leapfrogging.
- Berenice Giehl Zanetti von Dentz: Terroir products and their relationship with people and space.
- Cathy Chatel, Maria Encarnação Beltrao Sposito: Questionning "urban sprawl" in Brazil.
- Jiavl He et al.: Portraying urban mixed land use pattern by integrating remote sensing images and social media data.
- Rodrigue Houesse et al.: Différenciations socio-spatiales des consommations énergétiques dans l'aire urbaine métropolitaine de Paris (région Ile-de-France)
- Antoine de Padou Nsegebe: Urbanisation anarchique et impacts sur les territoires en milieu littoral : analyse des pressions sur la couverture forestière à douala (Cameroun).

20:00 **Social Event: Icebreaker** ([La Barge du Crous de Paris](#))

Thursday – 5 December 2019

Session Metropolization: challenges and risks

9:30-10:30 Keynote of **Andy Karvonen** (KTH Royal Institute of Technology Stockholm, Sweden)
(Amphitheater Buffon)

Sustainable Urban Transformations: Experimenting and Innovating in the Twenty-First Century City.

10:30-11:00 Coffee break (Hall of amphitheater Buffon)

11:00-12:45 Two parallel sessions (Amphitheaters Buffon and P.-G. de Gennes)

	Buffon	P.-G. de Gennes
11:00	Eric Koomen et al.: Urban form and commuting in large Chinese cities.	Leonard Nilsson et al.: Predicting and measuring urban structure - Evaluating widely available empirical indicators of activity.
11:15	Maryame Amarouche: The planning challenge in a comparative perspective. The case of Rabat and Lyon outer suburban areas.	Giovanni Fusco et al.: The form of the new city: how does it compare to traditional urbanisation? The case of Nice Méridia.
11:30	Nicolas Palominos: Citywide analysis of streetspace in London.	Yufei Wei et al.: The potential of urban heat island and nitrogen dioxide urban population: a systematic review.
11:45	Martin Behnisch et al.: Global trends of urban sprawl 1990-2014.	Alfred Homere Ngandam Mfondoum: A remote sensing approach to assess the spatial metabolism of a mid-urban/mid-rural area: built-up indices (BI) and Urban Heat Islands (UHIs) versus vegetation indices (VI) in the city of Foumban, West-Cameroon.
12:00	Omer Ben-Nun et al.: Analysis of Urban Heat Island in the Desert City of Beer-Sheva, Israel, Using a Modified Local Climate Zone Classification.	Joan Perez et al.: Multiple Fabric Assessment: Analysis of the Urban Form of Osaka, Japan.

12:15	Claire Aragau et al.: Se loger et se nourrir en métropole : un double défi soumis à des impasses foncières (Analyses croisées Paris-Mexico).	Xiaoping Xie et al.: S, M, L, XL – Assess the impact of population growth on the green belt planning and implementation in Cologne, Frankfurt am Main, London and Tokyo.
12:30	Hanna Poglitsch et al.: Towards Sustainable Energy Systems: Where can 1 billion? photovoltaic modules installed in Germany.	Michael Wurm et al.: The Perceptions of citizens on Urban Green?

12:45-14:00 Lunch/Bufferet ([Hall of amphitheater Buffon](#))

Session Drivers, Mechanisms, Tools

14:00-15:00 Keynote of **Nathalie Gaussier**
(GREThA, Université Montesquieu Bordeaux 4, Bordeaux, France)
([Amphitheater Buffon](#))

Spatial cognition: more than a toolkit, new approaches?

15:00-17:00 Two parallel sessions ([Amphitheaters Buffon](#) and [P.-G. de Gennes](#))

	Buffon	P.-G. de Gennes
15:00	Mathias Jehling et al.: Linking urban morphology and land use policy to understand urban containment strategies in France and Germany.	Judith Versteegen et al.: Past and future land-use changes driven by changing environmental factors in the Vietnamese Mekong delta.
15:15	Juste Raimbault: Worldwide estimation of parameters for a simple reaction-diffusion model of urban growth.	João de Abreu e Silva et al.: Measuring sprawl and identifying its drivers in the Lisbon Metropolitan Area between 1991 and 2011.
15:30	Ryan Unks et al.: Land tenure, access, and landscape change in Ilkisongo Maasai pastoralist commons of southern Kenya.	Gaetan Palka et al.: Strategic spatial effectiveness in land change. Case urban region.

15:45	Matthieu Vignal: Prospective land-cover change modeling focusing on protected areas to study the global change impact on biodiversity in southeastern France.	Alexandra Sandu et al.: The Central and Eastern European city in transition: measuring the urban sprawl before and after 1990.
16:00	Lien Poelmans et al.: Combatting urban sprawl in Flanders. Spatial patterns and consequences.	Alice Colsaet: Land take for business parks in France: drivers and public policy.
16:15	Romain Iliou: The evolution of urban water management at the beginning of the industrial era - Milan, a case study.	Bramka Arga Jafino et al.: Exploring plausible future land-use patterns: An application of the exploratory modeling approach in land-use modeling.
16:30	Itzhak Benenson et al.: Public transport in a Smart City: Are commuters endangered species?	Tomas Crols et al.: Long term simulation of urban development scenarios in support of spatial policy planning in Flanders, Belgium.
16:45	Ramana Gudipudi et al.: The efficient, the intensive, and the productive: Insights from urban Kaya scaling.	Srinath Ravulaparthi et al.: Comprehensive analysis of technical efficiency of business establishments in Santa Barbara County: Evaluation of spatial and aspatial stochastic frontier models.

17:00-17:30 Coffee break ([Hall of amphitheater Buffon](#))

17:15-18:15 Panel discussion, with Mathieu Arnoux (LIED, Université de Paris) Marc Wolfram (IOER, Dresden), and all keynote speakers ([amphitheater Buffon](#))

Do spatial analyses matter? From geodata science to sustainability transformations.

19:30 **Social Event: Gala Dinner at the Sénat**

Friday – 6 December 2019

Session *Varia: Historical data*

9h30-10:15 Keynote of **Norbert Pfeifer** (TU WIEN)
(Amphitheater Buffon)

Understanding and quantifying landscape changes from historic imagery.

10:15-10:45 Coffee break (Hall of amphitheater Buffon)

10:45-12:00 Two parallel sessions (Amphitheaters Buffon and P.-G. de Gennes)

	Buffon	P.-G. de Gennes
10:45	Dominique Laurent: The difficult way towards Land Cover and Land Use data harmonisation in Europe.	Polly Hudson et al.: Colouring London. Developing open, knowledge transfer/spatial data platforms for urban building stocks.
11:00	Gopika Suresh et al.: Using geospatial data to support the calculation of the SDG indicators.	Bastien Bourlier et al.: Ease land use transformation in risky coastal areas with a participative GIS.
11:15	Marco Neubert et al.: Landscape Change in Inner-German and Inner-Korean Border Areas.	Francois Mialhe et al.: Etude des v. démographiques des grands he sauvages à travers le prisme changements paysagers dans et auto aires naturelles protégées en Afr l'Ouest et Centrale.
11:30	Cristian Henriquez: Land use change in Chilean intermediate cities: simulation in tourist, coastal and sub-regional cities.	Jonathan Bourne: Empty homes: mapping the extent and value of low-use domestic property in England and Wales.
11:45	Hervé Gazel: Story Maps of Urban Land Cover.	Marianne Cohen et al.: Greening the desert to promote urban resilience? A study case in Abu Dhabi (United Arab Emirates).

12:00-13:30 Lunch/Bufferet (Hall of amphitheater Buffon)

13:30-14:15 Keynote of **François Moriconi-Ebrard** (CNRS, UMR LIED)
([Amphitheater Buffon](#))

Urban vs rural sprawl? A time approach of the land use facing population growth

14:15-15:30 Two parallel sessions ([Amphitheaters Buffon](#) and [P.-G. de Gennes](#))

	Buffon	P.-G. de Gennes
14:15	Arnaud LE BRIS et al.: Archival aerial photogrammetric surveys: a data source to study land use/cover evolution over the last century – opportunities and issues.	Robert Hecht et al.: Knowledge acquisition on urban green spaces and their usage with open data, VGI and Social Media.
14:30	Hendrik Herold et al.: Crowdsourced data acquisition in the context of large-scale digitization processes for reconstructing land use history from old maps.	Gabriele Bitelli et al.: Remote sensing for mapping changes: eastern mosul and the archaeological site of nineveh between urban sprawl and the war.
14:45	Bénédicte Bucher et al.: Retrieving relevant land cover and land use data to study urban climate change.	José Luis San Emeterio et al.: Multi-scalar analysis of coastalisation in Mozambique.
15:00	Hadrien Salat et al.: Using mobile phone data for electricity infrastructure planning in developing countries.	Bin Jiang (University of Gävle), Gävle (Sweden): Goodness of Space a Matter of Fact Under the Third View of Space.
15:15	Apeksha Tare et al.: Effect of Density on House Prices in the Randstad Region.	Dmitry Pavlyuk: Data-driven spatial structure: a case of traffic flows.
15:30	Iason Jongepier et al.: Building the Antwerp Time Machine - ongoing developments and future challenges	Jochen Jaeger: Switzerland: A Model for Sustainable Urban Development?"

16:00-16:30 Outlook to ILUS 2021 with Bin Jiang ([Amphitheater Buffon](#))

Important information

Paris Tour - 4 december 2019, 10:30-12:00 -

A terrain visit will take place before the Symposium on Wednesday, December 4th from 10:30 am to 12:00 pm (meeting at the Buffon Amphitheater, 15 rue Hélène Brion, 75013 Paris).

Christophe Bayle, architect and urban planner at SEMAPA, will take us to visit Paris Rive Gauche, where the conference takes place in the campus of Grands Moulins. In particular, we will visit the Tolbiac and Masséna areas and we will be welcomed at SEMAPA's Maison des Projets.

Strike on 5 December

A strike is scheduled for December 5, 2019. This strike affects transport (tram, train, RER, subway). We advise you to think of other means of transport (walking, bike, scooter, taxi) and to plan your transport times.

Gala Dinner : before

The Senate closes at 20:00.

After 20:00 it will be impossible to enter even if you have reserved your dinner.

Be careful: the 5th of December is a day of general transport strike. It will be very difficult to move in Paris and to use public transport. It will therefore be necessary to leave the University to join the Senate from 18:30.

Location of Amphitheatres

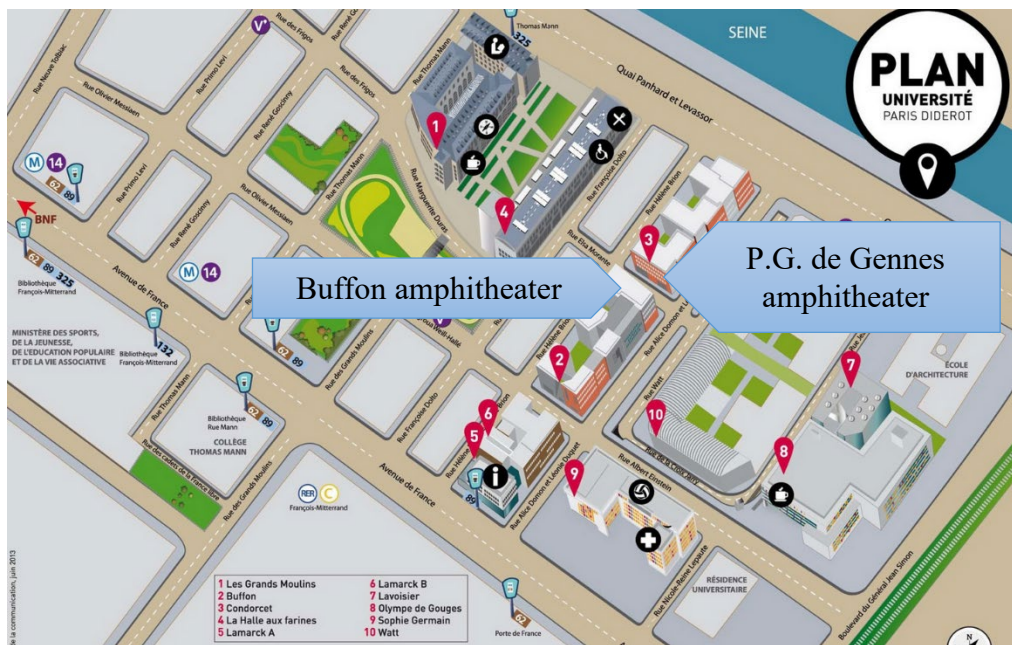
Location (principal):

Université de Paris
Campus des Grands Moulins
Amphitheater Buffon
15 rue Hélène Brion
75013 Paris



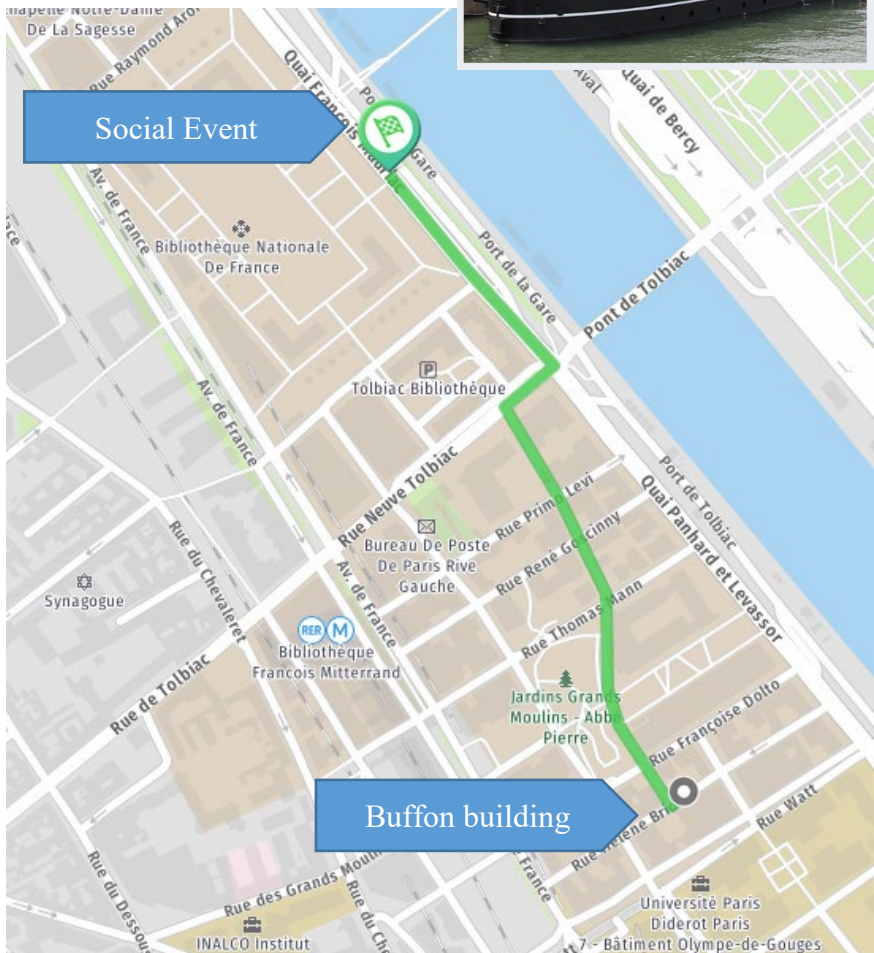
Location (secondary):

Université de Paris
Campus des Grands Moulins
Amphitheater Pierre Gilles de Gennes
Building Condorcet, niveau -1
4 rue Elsa Morante
75013 Paris



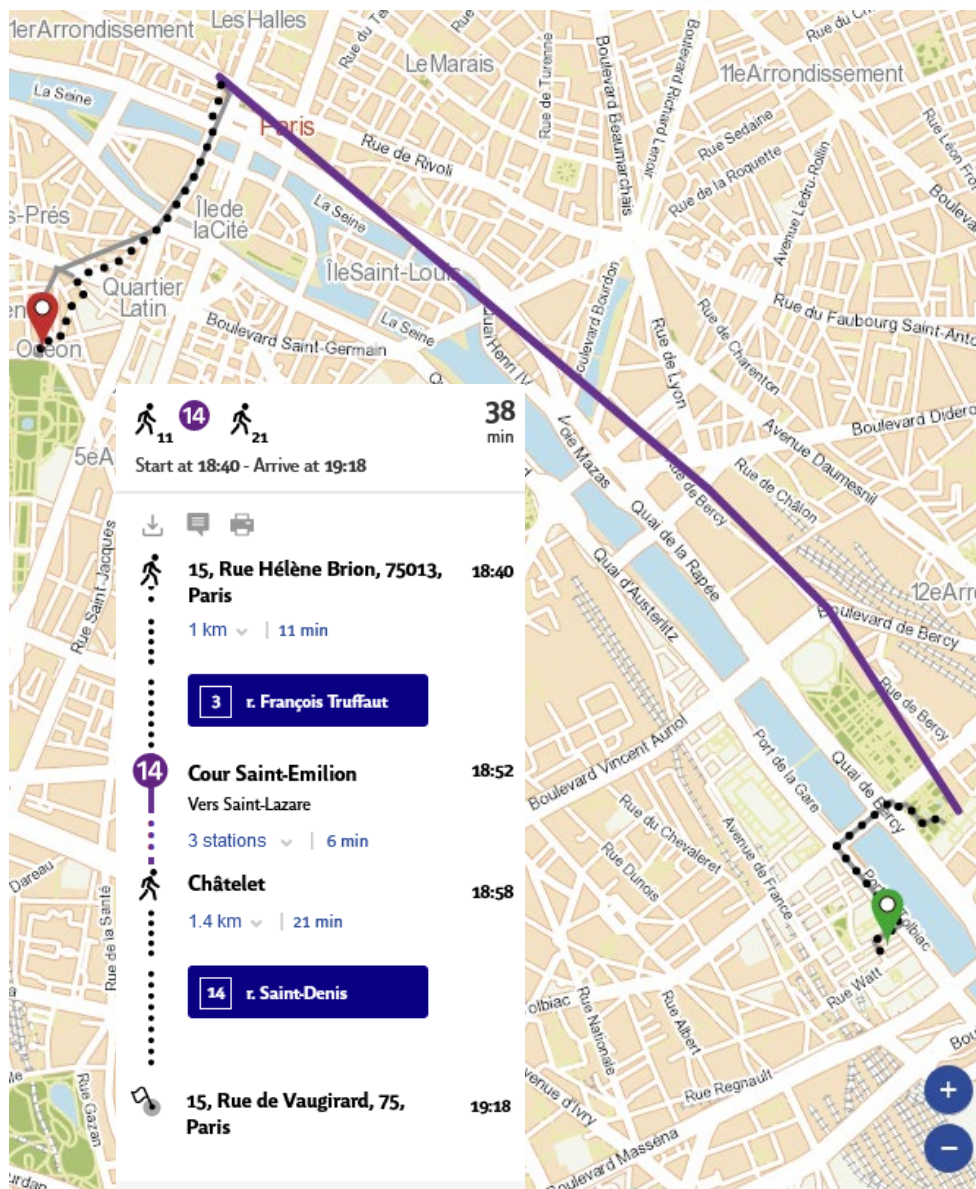
Social Event at “La Barge du CROUS“ (20h00, the 4th December)

Address :
RU La Barge du Cros de Paris
Port de la Gare Quai François
Mauriac 75013 Paris

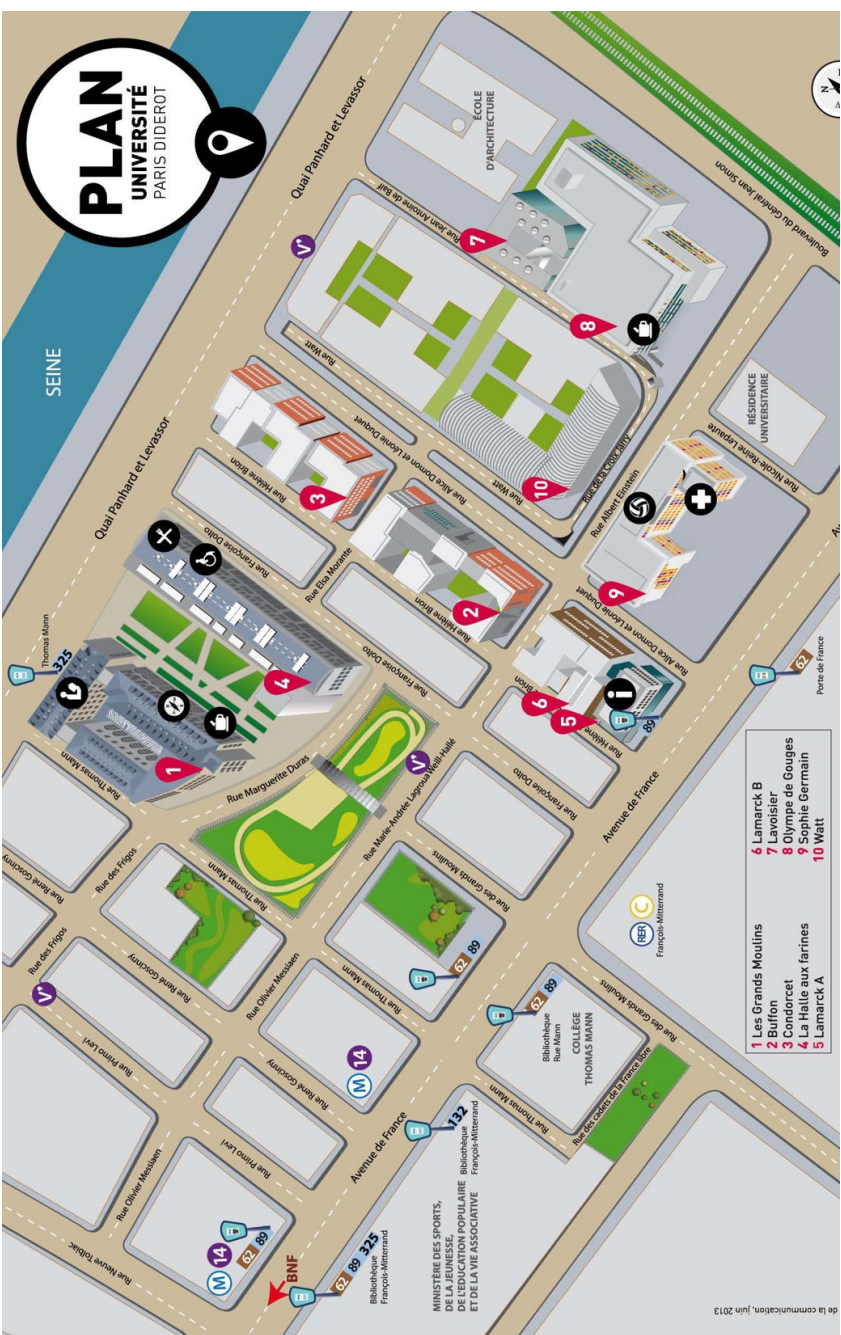


Gala Dinner at Senat (19h30, The 5th December)

Address : Palais du Luxembourg
15 bis, rue de Vaugirard 75006 PARIS



PLAN UNIVERSITÉ PARIS DIDEROT



- 1 Les Grands Moulins
- 2 Buffet
- 3 Condorcet
- 4 La Halle aux farines
- 5 Lamarck A
- 6 Lamarck B
- 7 Lavoisier
- 8 Olympe de Gouges
- 9 Sophie Germain
- 10 Watt