

## French-Swedish Workshop - Smart Cities and Mobility

### PROGRAMME

## DAY 1 – 11<sup>th</sup> June 2019

**09h30-10h00 Welcome Coffee**

**10h00-11h00 Opening Session**

10h00-10h05 Welcome by Representative of ESIEE School of Engineering

**Didier Degny (ESIEE Paris)**

10h05-10h10 Opening Address by Co-chairs

**Ghazwan Al-Haji (Linköping University)**  
**Agnès Jullien (IFSTTAR)**

10h10-10h20 Opening address by official Representative of Gustave Eiffel University

**Hélène Jacquot-Guimbal General Director, IFSTTAR)**

10h20-10h40 Opening address by French Ministry for an ecological and solidary transition, France

**Hervé Boisguillaume (Ministry for an Ecological and Solidary transition)**

10h40-11h00 Opening address by the Embassy of Sweden in France

**Henric Råsbrant, Minister Counsellor, Deputy Head of Mission at Embassy of Sweden in Paris**

Workshop organized by:



In cooperation with:



With the support of:



This event, supported by the I-SITE FUTURE project, received Funds by the *Agence Nationale de Recherche* (ANR) under the *Investissements d'Avenir* Programme (ANR-16-IDEX-0003) in addition to the contributions of the institutions involved.

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#### 11h00-12h30 Plenary Session 1 - Setting the scene

##### Session description:

Cities in France and Sweden have high ambitions when it comes to environmental and sustainability targets and substantial progress has already been made. However, we need to speed up in order to deliver on our collective environmental ambitions with smart and efficient solutions. A lot of attention is currently being paid to innovation around concepts of Mobility-as-a-Service (MaaS). Equally important is the movement of goods and sustainable supply chains, that keep cities and markets running. Growing urbanisation, a labour market in transition and changing consumer behaviour, will call for interdisciplinary and collaborative research as well as innovative business models, smart mobilities and smart streets. The purpose of this session is to set the urban research and innovation scene, with particular focus on city logistics and infrastructure.

11h00-11h05 Introduction by chairs

Chairs: **Anders Wretstrand (Lund University)**  
**Bernard Jacob (IFSTTAR)**

11h05-11h35 Research Point of view

Speakers: **Laetitia Dablanc (Ifsttar)** - What's new in research and innovation on smart city logistics? French point of view  
**Ivan Sanchez-Diaz (Chalmers Uni)** - What's new in research and innovation on smart city logistics? Swedish Point of view

11h35-12h05 Innovation Point of view

Speakers: **Dan Hill (VINNOVA)** - The Infrastructure of Everyday Life  
**Patrick Porru (IDRRIM)** - Private/public partnership in innovating road construction

12h05-12h30 discussion with chairs + speakers + audience

#### 12h30-13h30 Lunch

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#### 13h30-15h30 Plenary Session 2 – Academics meet Innovation

##### Session description:

The future of smart cities is strongly dependent upon the triangle climate-energy-mobility. Future Transport systems that will fit increased and rapid mobility needs are switching towards clean technologies, connectivity and automation for all modes of transport. Building-Energy relation aspect is seeking smart infrastructures that ensure life-quality, interoperability and inter-modality. Mobility – energy relation is focusing on infrastructures and systems including mutual interfaces and interoperability and the use of digital technologies. The purpose of this session is to deepen discussions on the aforementioned aspects.

Chairs: **Jonas Jansson (VTI)**  
**Monsef Drissi Habti (IFSTTAR)**

13h30-13h35 Introduction by chairs

13h35-14h05 « Electrical mobility »

Speakers: **Jan Pettersson (Trafikverket)** - Swedish roadmap for electrified roads  
**Patrick Duprat (Alstom)** - The Electric Road System proposed by Alstom

14h05-14h35 « Future with Digitalization – Smart Cities and Logistics »

Speakers: **Stefan Engevall (Linköping University)** - Construction logistics: Reducing urban transportation through coordinated information & cooperation  
**Tarik Bourouina (ESIEE)** - Water Resource Sustainability: Smart Water Networks versus Low-tech Solutions

14h35-15h05 « Innovation in buildings and infrastructures »

Speakers: **Bijan Adl-Zarrabi (Chalmers University)** - Smart cities and infrastructures  
**Simon Pouget (Eiffage)** ECO DESIGN - Bio-based binders for road industry

15h05-15h30 discussion with chairs + speakers + audience

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#### 15h30-16h00 Coffee Break + posters session

- Poster 01: **A. Jandial & L Février (VeDeCom)**  
Challenges in smart roadside infrastructure with autonomous vehicles implementation
- Poster 02: **I. Najeh<sup>1</sup>, L. Bouillaut<sup>2</sup>, D. Daucher<sup>2</sup>, and M. Redondin<sup>1</sup> (1: VEDeCom, 2: IFSTTAR)**  
A first approach of a road infrastructure preventive maintenance
- Poster 03: **M. Redondin<sup>1</sup>, L. Bouillaut<sup>2</sup>, D. Daucher<sup>2</sup> (1: VEDeCom, 2: IFSTTAR)**  
An age-based replacement of the road surface signing according to characteristics of the road infrastructure
- Poster 04: **A. Padyab and A. Habibipour (Luleå University of Technology)**  
Tackling IoT Adoption Barriers: A Study from Individuals' Perspectives

#### 16h00-17h30 Match Making Event

##### Bilateral and European Funding opportunities – Amphitheatre ESIEE + Hall ESIEE

**Visit of Sense-city equipment:** small groups of 15-20 people (10 min walk + 30 minutes visit)

Please register at welcome desk

##### Face-to-Face meetings – Meeting Rooms 113

Companies-companies, companies-Academic, Students-Lecturers, Students-companies

Unique chance to meet partners and exchange with them in a dedicated meeting room.

The list of partners attending the workshop is attached to the programme in order to prepare appointments.

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#### Pitching Session - Meeting Room 114

Each project will be presented in a 5 minutes pitch-presentation. After all presentations, networking activities will be organized in the meeting room by small groups of participants.

- Automatic conductive hand free charging for EV, **Eric Marsan**, GULPLUG
- Automatic V2G connection to grid; **Eric Marsan**, GULPLUG
- Vibrail - Smart Railway Maintenance to Reduce Noise Pollution and Extend Service Life, **Henri Saucy**, VIBRATEC
- CLEAR-Doc – City Lab Education and Research Doctoral programme (H2020 MSCA COFUND), **Bastien Pincanon**, UPEM
- Autonomous shuttles in public transportation, **Lars Polgren**, NOBINA
- IoT for Smart Buildings, **Sylvain Cherrier**, UPEM
- Cap Digital - Digital&Ecological hub, **Julia Morawski**, CAPDIGITAL
- ENAC - LiU academic collaboration: Smart City airspace for Urban Air Mobility, **Leonid Sedov**, Linköping University
- Sweden's export and investment platform for smart sustainable solutions, **Hanna Eriksson Lagerberg**, Smart City Sweden
- Preparing for future transport systems based on connectivity and automation, **Mikael Ivvari**, City of Gothenburg

### 17h30-18h30 Plenary Session 3 – Panel discussion on “The Cities of tomorrow”

Chair: **Gérard Hégron (IFSTTAR)**

Panel: **Pr. Jérôme Monnet (UPEM-LVMT)**  
**Pr. Stefan Engevall (Linköping University)**  
**Sofie Vennersten (DriveSweden)**

### 18h30-20h00 Cocktail – Walking Dinner at ESIEE

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## DAY 2 – 12<sup>th</sup> June 2019

**08h30-09h00** Welcome Coffee

### 9h00-10h30 Plenary Session 4 – Academics and Innovation meet Society

Chairs: **Börje Svensson (AFSR general secretary)**  
**Ariane Dupont-Kieffer (Sorbonne University)**

09h00-09h05 Introduction by chairs

09h05-09h35 « Design and Human factors »

The research on 'Design and Human Factors (Preliminary)' focuses on inter-relationship between human and technology with an emphasis of user-centred development of products, services, technology etc. The research is mainly multi and inter – disciplinary and encompasses behavioural and design theory, ergonomics as well as socio-technical system perspectives. The research include technology use and adoption, interactive human-machine systems, sustainability for everyday life products, and user experiences.

Speakers: **MariAnne Karlsson (Chalmers)** - Designing Transport Systems for People  
**Mercedes Bueno-Garcia (Vedecom)** - Human Factors Issues in Automated Driving

09h35-10h05 MAAS, equity, sharing urban spaces title to be defined and more attractive

Speakers: **Marie Ljungberg (Scania)** - One year with Scania Go – what's next?  
~~**Ariane Dupont-Kieffer (Sorbonne University)**: Links between engineering sciences and human sciences in the construction of smart cities.~~

10h05-10h30 discussion with chairs + speakers + audience

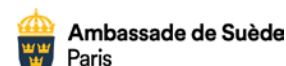
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**10h30-11h00 Coffee break + staff and students exchanges experiences**

### 11h00-12h30 Plenary Session 5 - AFSR laureates presentation

Chair: **Claude Trink**, Vice President of the Industrial Foundation - AFSR

Speakers: **Ali Padyab (Luleå University of Technology)** - Social Media Data Mining and User Empowerment  
**Mohamed Mabrouk (IMT Atlantique)** - How Energy systems modelling supports decision-making: the example of District Heating Systems  
**Tatiana Babicheva (VEDECOM)** - Distributed and dynamic management of a fleet of autonomous taxis

### 12h30-13h00 Plenary Session 6 - Towards a twinning experience

French Environment & Energy Management Agency (ADEME)

**Philippe Masset**, deputy director for European and international affairs

National Research Agency

**Pascal Bain**, Scientific officer - Challenge 2 (Energy) & 6 (Sustainable Urban Systems and Mobility)

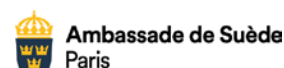
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#### 13h00-13h30 Cloture Session (recommendations and actions for the future)

- 13h00-13h15 Cloture address by European commission  
**Christos Fragakis**, Policy Officer, European Commission, DG Research and Innovation (DG RTD)
- 13h15-13h25 Cloture address on “innovation challenges “  
**Bernard Jacob (IFSTTAR)**
- 13h25-13h30 Cloture address by co-chairs  
**Ghazwan Al-Haji (Linköping University)**  
**Agnès Jullien (IFSTTAR)**

#### 13h30-14h15 Lunch – End of Workshop

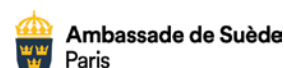
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## French-Swedish Workshop - Smart Cities and Mobility

### Biographies of speakers



#### Pr. Bijan Adl-Zarrabi

Dr Bijan Adl-Zarrabi is a research group leader at CHALMERS University of Technology, department of architecture and civil engineering, division of Building technology. His main research area is related to Building Physics, Infrastructure Physics and advanced material.

He leads the infrastructure physics research group. The research of the group deals with influence of harsh environment around the infrastructure which causes different types of destructions that can reduce the function ability in the short time perspective and reduce the service lifetime of an infrastructure. For instance, in a project the harvested energy in the vicinity of transport infrastructure uses for de-icing of a road section.

#### Pr. Ghazwan Al-Haji

Dr. Ghazwan Al-Haji is a Senior Lecturer at Linköping University in Sweden. His research focuses on Traffic Engineering, Traffic Safety and Intelligent Transport System (ITS). He teaches courses in 'Traffic Safety Management', 'Traffic Infrastructure' and 'Traffic Planning'. He earned PhD in Traffic Safety from Linköping University in Year 2007. He has more than 15 years' experience in executing and leading projects in Sweden, at the EU level and internationally (i.e. Southeast Asia, the Middle East and Russia). The projects vary between research, international collaboration, capacity building and curricula development. Ghazwan is a member of the Nordic Traffic Safety Academy.



#### Dr. Tatiana Babicheva

Tatiana Babicheva is a PhD student in informatics at VEDECOM. She received her first PhD in 2016 from the Keldysh Institute of Applied Mathematics in Moscow in the field of mathematical modelling, numerical methods and program complexes. Her first PhD thesis was dedicated to mathematical modelling of transportation systems. Her second PhD thesis will be dedicated to machine learning in distributed taxi services.

#### Pascal Bain



#### Hervé Boisguillaume

Hervé Boisguillaume, is Project manager for sustainable city, Chief of the International Division for housing and urban planning / Directorate of European and International Affairs / General Secretariat of the Ministry for an ecological and solidary transition, and of the Ministry of territorial cohesion and relations with local authorities. He is Member of Vivapolis Network Steering Committee, in charge of the international actions (since 2017). Hervé is also Former deputy director for international affairs (2009-2017), former "regional officer" for Kosovo, Serbia and Montenegro in the Ministry of foreign and european affairs (2006-2009) and former Chief of office for America, Balkans, Community of independant states, in the Ministry of environment, transports, and housing (2000-2006).

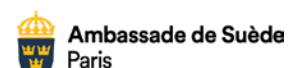
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### Biographies of speakers

#### Dr. Tarik Bourouina

Tarik Bourouina holds M.Sc. in Physics, M.Eng. in Optoelectronics, Ph.D. in MEMS (1991), and HDR (2000) from Université Paris-Sud, Orsay. His entire career was devoted to the field of MEMS and Lab-On-Chip. He started research at ESIEE Paris in 1988 on MEMS microphones and acoustic gyroscopes. More recently, he had several contributions in optical MEMS, among which the smallest MEMS-based FTIR Optical Spectrometer, jointly developed with Si-Ware-System and Hamamatsu Photonics, awarded the Prism award on photonics innovation in 2014.

Since 2002 Dr. Bourouina is full Professor at ESIEE Paris, Université Paris-Est, appointed as Dean for Research from 2012 to 2015. His current interests include optofluidics, analytical chemistry on-chip, seeking new opportunities for MEMS in the areas of Sustainable Environment and Smart-Cities. He is the Co-Laureate of the French Excellence Grant (EquipEx "Sense-City"). He is also actively involved in the development of several companies launched by his former students and colleagues, which include Si-Ware Systems, Fluidion, Memscap and MEMS-Schlumberger.



#### Dr. Mercedes Bueno Garcia

Mercedes Bueno Garcia is graduated in psychology in 2006 (University of Granada, Spain) and obtained her PhD in Neurosciences in 2013 (University of Bordeaux, France) as part of the FP7 Adaptation project. In 2015 she joined VEDECOM as human factors researcher and from 2018 she manages the Human Factors team. She is specialized in driver behaviour during automated driving. Her main research includes topics related to human-machine interaction, driver monitoring or acceptance and trust in automation. She participates in activities of the International Organization for Standardization (ISO) as member of the "Road Vehicles" Technical Committee (TC22/SC39) and she is involved in the several projects at national (e.g. AutoConduct) and international level (e.g. Drive2theFutur).

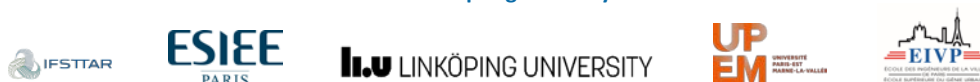
#### Dr. Laetitia Dablanc

Dr. Laetitia Dablanc is a director of research at the French Institute of Science and Technology for Transport (IFSTTAR, University of Paris-East) and a member of MetroFreight, a VREF Center of excellence in urban freight research. She leads the Young Initiative of the World Conference of Transport Research Society. Her areas of research are freight transportation, freight and the environment, urban freight and logistics, freight policies, spatial issues related to logistics. She received a PhD in transportation planning from Ecole des Ponts-ParisTech, and a Master's degree in city and regional planning from Cornell University. She was initially trained in policy analysis and economics at Science Po Paris. She was a part-time visiting professor at the University of Gothenburg, Sweden (2016-2018).



#### Didier Degny

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### Biographies of speakers

#### Dr. Monsef Drissi-Habti

Monsef Drissi-Habti is Research Professor at IFSTTAR and is the Director of Durability of Intelligent Composite Structures Consortium, GIS DURSI, which is a large consortium of 200 researchers and engineers in charge of developing structures that are based on smart materials. Monsef DRISSI-HABTI holds a PhD (1994) and the title of Research Professor (HDR) since 1999 both on the field of thermo-mechanical behaviour of ceramic composite materials for aeronautical and aerospace applications. He worked in Japan from 1995 to 1999 as visiting researcher in NIRI Nagoya and Visiting Professor at the University of Tokyo, while being a member of Science and Technology Club of the French Embassy in Japan. He then worked until 2003 at Brown University of Engineering, RI, USA. His current research is mainly focusing on the development of structures and infrastructures that are based on smart composite materials in offshore wind-energy generation, transports, smart cities and safety-security of critical infrastructures. More heuristically, His research develops multi-scale modelling (from nano to macro) and appropriate choice of composites (and/or multi-materials), sensors and structural health monitoring technologies that include nano-materials and nanotechnologies, as well. Monsef DRISSI-HABTI is PI of some research programs on smart composites both in France and in Europe, as well. Author of about 70 articles in peer-review journals and sixty articles in conference proceedings, he published two special issues, one in 1998 on Advanced Materials in Japan, the other in 2001 on advanced materials for aeronautical and aerospace applications in Japan, too.



#### Dr. Ariane Dupont-Kieffer

Ariane Dupont-Kieffer, PhD, is Dean of the Sorbonne School of Economics at the Université Paris 1 Panthéon Sorbonne. Her research focuses on the links between economic theory, modelling and policymaking and policy assessment. She has done extensive research in the area of Epistemology and History of Economic Thought and focused specifically on the history of econometrics and macroeconomics and the relationship between measurement issues, statistical analysis and policymaking. After ten years of experience of investigating theoretical and methodological issues, she worked with IFSTTAR (former INRETS) to contribute to the assessment of road externalities. Within the perspective of sustainable transportation, she has developed the understanding of determinants of sustainable mobility with a focus on gender and equity issues to be related to efficiency. An important part of her work is dedicated to enhance international comparison of data on gender and equity in mobility and to translate research findings into policy implementation.

Ariane Dupont-Kieffer has been involved in European projects such the TEA COST Action No. 1209 "Transport Equity Analysis: Assessment and Integration of Equity Criteria in Transportation Planning" where she developed with colleagues a proxy measure to appraise equity in urban mobility policy based on the theoretical framework developed by the European cooperation in the field of transport equity (TEA COST).

Ariane Dupont-Kieffer is key member of the TRB Scientific Committee on Women's Issues in Transportation.



#### Patrick Duprat

Patrick Duprat is Electric Road Solution Manager and senior expert in power supply solutions in Alstom in Sain-Ouen offices (France). Degree in hardware and software, he obtained an executive MBA from the School Art & Métiers Paris in 2003.

Patrick is also Senior Expert on Power Supply Solutions, Electric Road System (ERS) Solution Manager, Project Manager of the Alstom part of the Side-In project (ERS demonstrator in Sweden), Member of the French Committee of PIARC (World Road Association) related to the road freight transport. In CENELEC/ TC9X, Convenor of a Survey Group (SG30), working on the conductive ground-based feeding solutions for the road application.



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### Biographies of speakers



#### Dr. Stefan Engevall

Stefan Engevall has been a Senior Lecturer in Quantitative Logistics, Linköping University, since 2006. His research interests focus on operations research, Supply Chain Planning & Collaboration, Vehicle Routing, Cost allocation. Dr Engevall's got a strong teaching experience: 3-4 Bachelor and Master level courses yearly, 1990-1997, 2006-present. He holds a Ph.D. in Optimization, Dept of Math, Linköping University, 2003; a M.Sc. in Industrial Engineering & Management, Linköping University, 1993.

He also had a position for 10 years at software company Apteon (current name) as a pre-sales consultant of software for Supply Chain Execution.

He also spent academic semesters at UC Berkeley, California (2015) and at Ecole Centrale, Paris (1997)

#### Christos Fragakis

Christos Fragakis has recently joined a newly established Unit on "Future Urban and Mobility Systems" following DG RTD re-organization. Until 31 May 2019, he was Acting Head of the "Sustainable management of natural resources" Unit in DG RTD leading a team responsible for the design and implementation of an EU R&I policy on "Innovating Cities", "Biodiversity, Ecosystems and Ecosystem Services and Nature-Based Solutions" and "Cultural Heritage for sustainable development". He joined DG RTD of the European Commission in 1987, where he has worked as Project and Policy Officer in a variety of research sectors, including Marine Science and Technology, Coastal Engineering and protection, Integrated Coastal Zone Management and Sustainable Management of Freshwater Ecosystems. He got his Bachelor's degree in Marine Engineering from Newcastle University (UK) and his M.Sc in Ocean Engineering from Massachusetts Institute of Technology (U.S.A).



#### Dr. Gérard Hégron

Gérard Hégron received an MSc in Mathematics (1980) and a Doctorate in Computer Science (1983). He is currently Research Director at IFSTTAR and member of the General Directorate in charge of the creation of European Research Institutes and of the National Information Point on the "City" for European funding programmes on urban research and innovation (see the annex). He is or was also member of steering committees of national research programs at ANR, ADEME, CNRS, MTES, and member of several scientific boards. His main scientific contributions are in the field of computer graphics and modelling, architectural and urban environment, and sustainable urban planning.

From 2013 to 2016, he was the French representative in the Governing Board of the JPI Urban Europe and he created and led UERA, the Urban Europe Research Alliance (40 Universities and RTOs).

He has been the Chairman of 8 international workshops, the member of 42 scientific committees of International conferences, the coordinator of 5 European and international research cooperation, the member of 5 European research projects, the reviewer of 4 international journals, and assessor of 2 European projects. He edited 6 international conference proceedings, published a book (MIT Press) and about 100 papers in journals and international conferences. He supervised 27 PhD students, participated to 110 PhD defence juries, and led 16 funded research projects. He taught in several different Master programs.



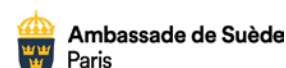
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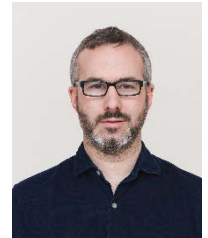


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### Biographies of speakers

#### Dr. Daniel Hill

Dr. Dan Hill is Director of Strategic Design at Vinnova, the Swedish government's innovation agency. A designer and urbanist, Dan's previous leadership positions have produced innovative, influential projects and organisations, ranging across built environment and cities (Arup in Australia and UK, Future Cities Catapult in UK), education and research (Fabrica in Italy), government and social innovation (SITRA in Finland), and media (BBC in UK), each one transformed positively via digital technology and a holistic approach to multidisciplinary design. Dan is also a Visiting Professor at the Bartlett School of Architecture (London), where he is Innovator-In-Residence at the UCL Institute for Innovation and Public Purpose, an Adjunct Professor in Design at RMIT University (Melbourne). He is one of the Mayor of London's Design Advocates and a Trustee of the Participatory Cities Foundation. He has lived and worked in Australia, Finland, Italy, Sweden and the UK.



#### Dr. Bernard Jacob



Bernard Jacob is graduated from *Ecole Polytechnique* and *Ecole Nationale des Ponts et Chaussées*. He is a bridge and road engineer.

He is Deputy Scientific Director (International and professional affairs) at IFSTTAR and co-leader of the Infrastructure research axis. He has a 30 years experience on bridge durability, fatigue and safety, on traffic loads on infrastructures, on heavy vehicle technology, safety and operation, including electric roads for heavy traffic, weigh-in-motion and applications, trucks/infrastructure interaction, and freight transport. He is an international expert in Weigh-In-Motion and on heavy vehicles (weights and dimensions, interaction with infrastructures, safety, platooning). He is member of two TRB standing committees: AB055 on Heavy vehicle weights and dimensions and ABJ35 on Traffic Monitoring and WIM.

He is the current French secretary of the PIARC technical committee B4 on freight transport. He is the past president of the International Society for WIM, and now the vice-president Science.

#### Hélène Jacquot-Guimbal

Hélène Jacquot-Guimbal, received her PhD in physics from the Ecole Normale Supérieure in 1981 and graduated from the "Ecole Nationale des Ponts et Chaussées" (ENPC – French leading institution for Civil Engineering and Management Education) in 1983. She held various positions at the Ministry in charge of Infrastructure and at the ministry of the Environment, mostly in relation to roads and to research issues or in senior management positions. Between 2002 and 2004 she was senior advisor to the Ministers in charge of Infrastructure and the Environment. Between 2005 and 2008 she served as Director general of human resources, finance and administrative affairs at the Ministry of Transport, Infrastructure, Tourism and the Sea and then at the newly created Ministry for Ecology, Energy, Sustainable Development and Spatial Planning.

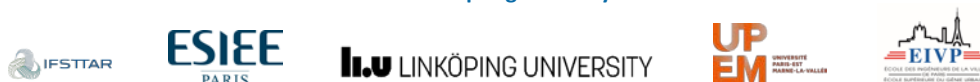
In January 2011, Hélène JACQUOT-GUIMBAL was appointed Managing Director of IFSTTAR, a French institute resulting from the merger of both institutes INRETS and LCPC (she led the merging process as Managing Director of LCPC, appointed in May 2008). Her mandate was renewed for a five year period in July 2015. The merger of INRETS and LCPC was considered a success by the Higher Council for the Evaluation of Research and Higher Education.

Throughout her career, she led several merges successfully and headed the directorates resulting from these without mishaps. She is recognized by civil servants trade unions. She maintains a high interest in science and knowledge, from theoretical to industrial application, and is keen to visit each laboratory of her institute every year, to be able to talk shop with the researchers.

She is now Ingénieur Général des Ponts et Chaussées, and was awarded the "Légion d'Honneur" (officer) and "Mérite" (officer) distinctions.



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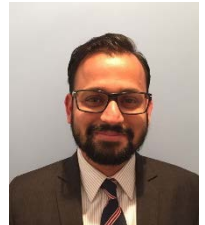


## French-Swedish Workshop - Smart Cities and Mobility

### Biographies of speakers

#### Abhishek Jandial

Presently, A. Jandial is working as Perception Engineer on project for Autonomous Vehicle with Vedecom. It involves communication with the vehicle remotely and locally installed RSU by sending the vehicle messages like perception messages, alerts and also monitoring the vehicle through smart cameras, LIDAR and other on road infrastructure.



#### Dr. Jonas Jansson



Dr. Jonas Jansson is head of the department Traffic and Road User at The Swedish National Road and Transport Research Institute (VTI). Department Traffic and Road User does research on electric road systems, connected cooperative automated transport systems as well as smart mobility and active modes of transportation. Competes are in the human factors, traffic safety, vehicle technology and driving simulation areas. Dr. Jansson's background is in driver support systems and vehicle dynamics. He was previously with Volvo Car Corporation between 1999 and 2007, where he worked as function owner for Volvos automatic emergency braking function. His thesis, in the area of automatic control, focus on pre-crash braking systems. Current areas of interest are electric road systems, safety and requirements for cooperative connected automated driving functions.

#### Dr. Agnès Jullien

Agnès Jullien holds a PhD in tribology (1992), is a Research Director at IFSTTAR, and has been head of the Department for European and international affairs since 2016. She was assistant Professor (1992 –2001), Head of a research laboratory (2010- 2015) and supervised or co-supervised 14 PhDs, including one with Brazil. She is involved in several IFSTTAR cooperations: the ECOMAT international laboratory with Sherbrooke University, the Ministry of transport of Quebec, UC Davis, USA (France-Berkeley fund with UC Davis 2013). She was WP leader of several European projects (EUREKA, ITNs, and CSA). She belongs to various networks: European ALERT Network (1995-1998), PIARC as French speaking secretary (2008-2011) and IFSTTAR representative (2016-2017), national scientific research network GIS LIRgEC as deputy director (2011-2015), FEHRL executive committee member (since 2016). She is also the coordinator of the Horizon2020 National Contact Point for Transports.



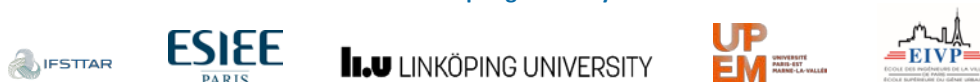
From 1<sup>st</sup> January 2020, Dr Jullien will prefigure the vice-presidency of International Affairs of the new Gustave Eiffel University.

#### Dr. MariAnne Karlsson



MariAnne Karlsson is Professor (Chair) in Human – Technology Systems and Head of Division Design & Human Factors at Chalmers University of Technology. Her research concerns the relation between people and technology in a broad sense. A particular application area has been the design of urban transport from a user perspective. This has led to involvement in projects such as European Bus System for the Future as well as studies into if and how users' access to real-time information and travel planners change travel behaviours. More recently her research has focused on Mobility-as-a-Service (MaaS).

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## French-Swedish Workshop - Smart Cities and Mobility

### Biographies of speakers

#### Marie Ljungberg

Marie Ljungberg is a Venture Business Developer at Scania Sustainable City Solutions, a part within Scania exploring new solutions for cities based on the pain points of the world's growing cities. She was responsible for the implementation of a corporate MaaS solution at Scania campus in Södertälje and has several years of experience from project management in cross-functional organizations.



#### Dr. Mohamed T. Mabrouk

Mohamed Tahar Mabrouk is a research engineer at ARMINES\IMT Atlantique. His research activities focus on energy systems modelling and optimization. He is developing, currently, software tools to optimize multi-energy networks by combining simulation, optimization and decision aiding tools. He holds a PhD from the university of Lorraine.

#### Philippe Masset

Philippe Masset, who obtained his engineer degree in 1985, has managed energy efficiency for communities of the region Nord-Pas de Calais until 1992. Mid 1992, he was employed by the European Commission in Brussels (DG Energy) as an expert in charge of accompanying measures of an energy demonstration programme towards SMEs and regions (THERMIE) until 1998.

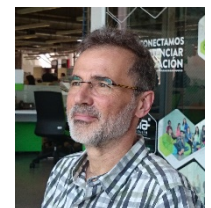
In 1998, he became responsible for European and international projects and networks at the Energy Agency of the Nord-Pas de Calais Regional Council. In 2001, he was recruited by ADEME, and he became deputy director for European and international affairs.



#### Maël M'Baye

#### Pr. Jérôme Monnet

Jérôme Monnet is Professor of Urban and Regional Planning at the University of Paris-Est Marne-la-Vallée. He holds a PhD in Geography from the University of Paris-4 Sorbonne. He used to live and work in Mexico City (French Center for Mexican and Central American Studies, CEMCA, 1988-1991 and 2001-2005), Los Angeles, California (Getty Research Institute, 1996-1997), and Toulouse (University of Toulouse-Le Mirail, 1992-2001). He was also an invited Professor in Geneva (Switzerland), Manizales (Colombia) and Nanjing (China). Pr. Monnet is teaching at the Paris School of Urbanism (Ecole d'Urbanisme de Paris). Within the Laboratory "Ville Mobilité Transport" (LVMT), his research focuses on the uses and social practices of public space, with fieldwork in metropolitan areas of Paris, Mexico City, and Los Angeles (California). He develops a theoretical framework on the social production of public space and the definition of territory, territoriality and territorialisation. The most recent development of his studies deals with the new surge of walking and pedestrian mobilities in urban policies, and the subsequent challenges for the planning and management of pedestrian infrastructure.



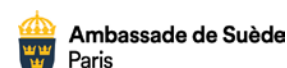
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## French-Swedish Workshop - Smart Cities and Mobility

### Biographies of speakers



#### Ms. Ikram Najeh

Ikram Najeh, a first-year PhD student within Paris Est University in Applied Mathematics. The main aim of my research is to propose a maintenance optimization strategy for the road infrastructure for the autonomous vehicles. My PhD research is funded by VEDECOM and supervised by IFSTTAR researchers.

#### Dr. Ali Padyab

Dr. Ali Padyab is a senior researcher of Information Systems at Luleå University of Technology, and an end-user engagement expert at Botnia Living Lab, Sweden. He received his Master's degree in Information Security and his PhD in Information Systems at Luleå University of Technology, Sweden. His doctoral degree was focused on implications of information secondary use on individual's privacy. His general research interests are mainly focused on especial attention to social aspects of privacy/security and its integration with system development within information systems and Internet of Things. Other interests include risk assessment, social media, end user engagement, strategic information security management, and living labs. Ali has published 14 refereed articles in international information systems conferences and journals and he is a member of the scientific committee in OpenLivingLab 2019 conference.



#### Dr. Jan Pettersson

Jan Pettersson works as a Director at the Department for Strategic Development at the Swedish Transport Administration. Jan Pettersson is the Head of the Swedish national program for electrified roads in Sweden. He coordinate the Swedish – German partnership on behalf of the Swedish ministry.

Mr Jan Pettersson have a long experience as Executive Director for both roads and railways regarding maintenance and operations. He is also active in european benchmarking projects within PRIME (Plattform for Railway Infrastructure managers across Europe) and CEDR (Conference of European Directors of Roads).



#### Patrick Porru

Patrick Porru is Responsible of Technical Affairs at the Institute for Roads, Streets and Mobility Infrastructure (IDRRIM). He is in charge of the management of the Institute's technical program and supervises, as such, all the publications and works carried out within the IDRRIM, particularly on the field of innovation in road infrastructures.



#### Dr. Simon Pouget

Simon Pouget (33) graduated from the Ecole Nationale d'Ingénieurs de Saint-Etienne (2007). He was granted his PhD on Materials and Infrastructures in Civil Engineering by ENTPE and INSA Lyon in 2011.

His research activities cover Civil Engineering materials mechanical properties and their impact on infrastructures such as pavements, bridges and railways through experimental and modelling approaches to improve their sustainability from a mechanical and environmental point of view. He has co-authored around 20 papers in peer-reviewed journals and co-holds 2 international patents. He is involved in several collaborative research projects as well.



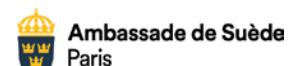
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## French-Swedish Workshop - Smart Cities and Mobility

### Biographies of speakers

#### Henric Råsbrant

Henric Råsbrant, graduated from University of Lund (MSc Law, 1997) and from *Université Pathéon Paris II* (Matrise en droit, 1996), has been Minister Counsellor, Deputy Head of Mission at Embassy of Sweden in Paris Since 2017. Before, he was Minister Counsellor, Head of Office at Embassy of Sweden in Juba in 2016 and 2017, and counsellor at the Permanent Representation of Sweden to the European Union from 2013 until 2016.



#### Dr Maxime Redondin

Maxime Redondin is a research engineer in design and maintenance of road infrastructures from VEDECOM. Its studies proposed different preventive replacement strategies of pavement markings. Mr Redondin defended with success his thesis last December 2018. His thesis was directed by Laurent Bouillaut (IFSTAR Grettia) and Dimitri Daucher (IFSTAR Lepsis).

#### Dr Ivan Sanchez-Diaz

Dr. Ivan Sanchez-Diaz is a senior lecturer at the Technology Management and Economics Department at Chalmers University of Technology (Sweden). He received his M.Sc. and PhD in Transportation Engineering, as well as a M.Sc. in Applied Mathematics from the Rensselaer Polytechnic Institute (New York). He has been involved in multiple projects related to freight demand modelling, freight policy and innovations in the US and Sweden. His research involves quantitative methods such as stated preferences studies, statistical modelling and optimization. Ivan is part of the management team of the Urban Freight Platform funded by VREF, and a member of the Standing Committee on Urban Freight Transportation from the US Transportation Research Board (TRB).



#### Dr. Börje Svensson

Börje Svensson has held senior managerial positions within academia, industry and the U.N. system. He has a PhD in business management from Linköping University, Sweden and was during 1999-2008 adjunct and visiting professor in business administration at the Swedish University of Agricultural Sciences in Uppsala, Sweden.

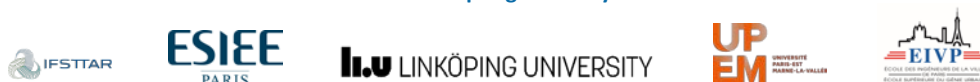
His experiences include three years as a visiting researcher and development consultant in Chile (ECLAC) and Bolivia in the early 1990's, vice president of Linköping University, Sweden, 1994-1996, director of the Industrial Policies and Research Branch at UNIDO in Vienna, 1996-1998, senior advisor and acting vice president of Stockholm School of Economics, 2001-2004, board member of Karolinska Institutet Holding, 2006-2008, and CEO of Karolinska Institutet Health Management AB, 2008-2012.

Börje Svensson is since 1986 president of the consulting firm Svensson & Svensson AB, and since 2013 president of the Industrial Foundation of the Swedish-French Research Association (AFSR).

He is author of the book "The Magic Molecule – that has improved the lives of millions"

(<http://www.diva-portal.org/smash/record.jsf?pid=diva2%3A807193&dsid=4531>)

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## French-Swedish Workshop - Smart Cities and Mobility

### Biographies of speakers



#### Dr. Claude Trink

Claude Trink, received his engineering degrees from *Ecole Polytechnique and Ecole des Mines de Paris*. He was a member of the Higher Council for Industry, Energy and Technology (CGIET) with the French Ministry of Treasury and Economic Development.

He has performed various assignments in the field of energy: concerning nuclear equipment industry; coal production within the National Coal Board (CdF); mezzanine financing for renewable resources projects with the French environmental and energy management Agency (ADEME).

He acts as non-executive chairman of an R&D center specialized in composite materials (PPE) in Lorraine.

Previously from 1984 to 1995 he held various positions within Crédit Agricole Group in the venture-capital and leveraged buy-out fields, and was positioned in New-York between 1984 and 1987.

#### Dr. Sofie Vennersten

Sofie Vennersten is the program director of Drive Sweden. She has over 17 years of experience from different positions in the transport sector. After 6 years as project manager in the City of Gothenburg, Traffic and Public Transport Administration, she worked as a consultant at WSP, responsible for managing a number of multi-stakeholder transport projects. Since 2012, she started at Lindholmen Science Park and contributed to the forming and development of the Swedish transport efficiency arena CLOSER, where she was the director for four years. Since February, she is the director of the Swedish Innovation Program Drive Sweden. Drive Sweden gathers over 100 partners from industry, society and academia, and has the mission to create and demonstrate the sustainable mobility solutions of the future - for both people and goods – based on digitalization, servitization and automation.

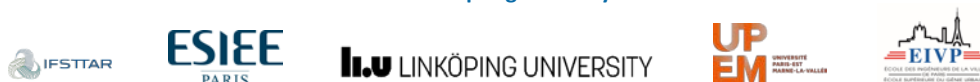


#### Pr. Anders Wretstrand

Anders Wretstrand is associate professor and Head of the Transport and Roads division at the Department of Technology and Society, Faculty of Engineering, Lund University. He was the former research manager at K2 – The Swedish Knowledge Centre from Public Transport. He has written extensively on public transport issues and transport planning, e.g. regarding the users' perspective, older and disabled people's mobility and accessibility, as well as management, governance and policy aspects.



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# French-Swedish Workshop - Smart Cities and Mobility

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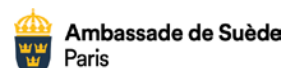
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# French-Swedish Workshop - Smart Cities and Mobility

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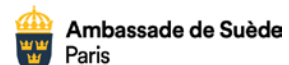
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