

INTERNATIONAL CONFERENCE ON MOBILITY CHALLENGES

ÉCOLE CENTRALESUPÉLEC UNIVERSITÉ PARIS SACLAY
DECEMBER 9-10 2021

Coordinators:

Marc Baudry (University Paris Nanterre),
Anna Creti (University Paris Dauphine PSL),
Jan Lepoutre (ESSEC), Guy Meunier (INRAE),
Marc Petit (CentraleSupélec), Yannick Perez
(CentraleSupélec), Jean-Pierre Ponsard
(CNRS & Ecole Polytechnique).

Audience:

Researchers, industry experts, and policy
makers from public, private, and civil society
are invited to expose their view and analysis
on current potentials, new windows of
opportunities and discuss policy options
based on cutting-edge research.

PROGRAM OF THE CONFERENCE

THURSDAY 9TH DECEMBER



9h00-10h30 Infrastructures and electric mobility

Chairman: Damien-Pierre Sainflou (Stellantis)

- **Bassem Haidar** (CentraleSupélec LGI and Armand Peugeot Chair)
More public charging stations or more powerful batteries in vehicles?
- **François Detroux** (ENGIE)
Complementarity and competition between technologies
- **Pierre de Firmas** (ENEDIS)
Charging infrastructure deployment: theory and practice

11h00-12h30 Panel on Financing the transition towards a greener mobility

Chairman: Pierre Sedze (Journaliste et consultant médias)

- **Augustin Derville** (Electra)
- **Guillaume Kosman** (Mobilize Power - Groupe RENAULT)
- **Raphaël Lance** (Mirova)
- **Pierre Etienne Franc** (FiveT Hydrogen)
- **Maxime Ledez** (I4CE)

14h00-16h00 Analysis of regional initiatives

Chairwoman: Elodie Lecadre Loret (ENGIE)

- **Philippe Boucly** (France Hydrogène)
A roadmap for an ambitious hydrogen strategy
- **Markus Kaufmann** (Roland Berger)
Hydrogen Valleys: Insights into the emerging hydrogen economies around the world
- **Benjamin Wolff** (Element Energy, UK)
Review of pilot projects in Europe and the role of public funding (CEF, FCH JU, IF, Ademe, etc.)
- **Sophie Legras** (INRAE Dijon)
Taxation with inter-jurisdictional commuting and pollution

16h30-18h30 Mitigating GHG Emissions and fairness issues

Chairman: Anna Creti (Climate Economics Chair)

- **Yves Crozet** (IEP LAETS Lyon)
Decarbonizing Transports: "quoi qu'il en coûte"?
- **Corinne Bach** (Carbometrics)
Emission in Transport: how to measure them?
- **Mathilde Niay** (Ministère de la Transition Ecologique, CGDD)
Bonuses for the conversion of private vehicles in 2019: A socio-economic analysis
- **Emmanuelle Taugourdeau** (CNRS, CREST)
Multi-tier tax competition on Gasoline (with Marie Laure Breuillé)

FRIDAY 10TH DECEMBER: PARALLEL SESSIONS

9h00-10h30

Session 1: Electric charging infrastructures

Chairman: Marc Petit (GeePs CentraleSupélec and Armand Peugeot Chair)



- 1. Marc Olivier Metais** (LGI CentraleSupélec and VEDECOM) Déploiement spatio-temporel d'une infrastructure de recharge
- 2. Anastasia Popiolek** (GeePs CentraleSupélec) Electric mobility for long distance trips: which services for fast charging?
- 3. Wassim Kabbara** (GeePs and Renault) "Wireless charging system for an in-motion EV"

Session 2: Modeling futures scenarios for mobility

Chairman: Jean-Pierre Ponsard (CNRS-Ecole Polytechnique and chair Energy and Prosperity)



- 1. Albin Kasser** (Chair Energy and Prosperity) The deployment of hydrogen in the heavy-duty transport sector: an economic competition
- 2. Ariane Bousquet** (Chair Energy and Prosperity) The Assessing an electric mobility initiative to decarbonize transport out of dense areas
- 3. Mohamed Bahlali** (Climate Economics Chair) A model for the spatial distribution of jobs, housing and traffic-related air pollution

Session 3: Automated vehicle services

Chairman: Fabrice Vidal (Stellantis)



- 1. Ines Jaroudi** (LGI & Avenue Project) Externalities and shuttles deployment scenario
- 2. Felix Carreyre** (Vedecom & LVMT) An economic appraisal methodology for automated vehicles mobility services.
- 3. Eliane Horschutz-Nemoto** (LGI & Avenue Project) Sustainability assessment of the deployment of automated minibuses in urban mobility of European cities

11h00-12h30

Session 4: Electric Vehicles to Everything

Chairman: Jan Lepoutre (ESSEC Business School and Armand Peugeot chair)



- 1. Diego Cebberos** (LGI CentraleSupélec and Armand Peugeot Chair) Where to leverage scale? A Network Analysis of Vehicle-to-Grid.
- 2. Francisco-Jose Santos Alonso Lastras** (LGI CentraleSupélec) Stakeholder Value Network for the modeling of innovative business models in the EV ecosystem
- 3. Rémi Lauvergne** (LGI CentraleSupélec and RTE) Integration of electric vehicles into transmission grids: a case study on the economic impacts in Europe in 2040

Session 5 : Behavior and regulations for mobility

Chairman: Yannick Perez (LGI CentraleSupélec and Armand Peugeot Chair)



- 1. Quentin Hoarau** (LGI CentraleSupélec and Armand Peugeot Chair) Stranded to be? Diesel ban and used car markets
- 2. Isac Antonio Olave Cruz** (Université Paris Dauphine) Regulations of electric scooters in Paris
- 3. Saï Bravo** (Climate Economics Chair) Greening public fleets: Evidence from California

Session 6: Energy management for mobility

Chairman: Francisco Ramos Real (Universidad de la Laguna)



- 1. Mohsen Dini** (GeePs CentraleSupélec) Energy management system by deep reinforcement learning approach in a building microgrid
- 2. Wale Arowolo** (LGI CentraleSupélec and Armand Peugeot Chair) EV-PV in 2030 in Paris, Lyon and Marseille: what economic contributions

THE CONFERENCE IS JOINTLY SPONSORED BY:

Chaire Armand PEUGEOT (CentraleSupélec & ESSEC Business School)
Chair Energy and Prosperity (Fondation du Risque)
Economics Chair (Paris Dauphine University PSL)

The conference also benefits from a partial financial support from ADEME,
under contract CELTE n°19 ES C 0043, 25/08/2019.