TOWARDS SUSTAINABILITY?

The Electrification of the Automotive Industry
Gerpisa (Groupe de Recherche Permanent sur l'Industrie et les Salariés de l'Automobile) is the main international network of research in social sciences on the automotive industry.

It is hosted by the ENS Paris-Saclay. It is also supported by the CNRS, by the French ministries of the Economy and of the Ecological Transition, by the Comité des Constructeurs Français de l'Automobile (CCFA) and by the Fédération des Industries des Equipements pour Véhicules (FIEV).

It receives scientific and administrative support from the MSH Paris-Saclay.
Towards Sustainability?
The Electrification of the Automotive Industry

The 2023 Gerpisa International Colloquium takes place in Brussels, at the Université Libre de Bruxelles and is co-organised with the METICES. It is focused on the concept of sustainability and on the environmental, economic, social and political implications of the electrification process. The key, provocative question is: how (environmentally, economically, politically, socially) sustainable is this transition of the automotive industry toward decarbonized mobility?

Organising committee

Juan Sebastian Carbonell, GERPIA, ENS Paris-Saclay, IDHES
Lorenza Monaco, GERPIA, ENS Paris-Saclay, IDHES
Tommaso Pardi, CNRS-IDHES, GIS-Gerpisa

Organising team

Juan Sebastian Carbonell, GERPIA, ENS Paris-Saclay, IDHES
Cristelle Celton, MSH Paris-Saclay
Yara Hodroj, MSH Paris-Saclay
Giuseppina Meloni, METICES ULB

Online programme

https://gerpisa.org/en/node/7821
Tuesday, 27 June

08:00 - 8:30 : Registration

08:30 - 08:50 : Opening Remarks
Building B. Amphitheater B1.315

Tommaso Pardi
Director of Gerpisa, CNRS, ENS-Paris-Saclay

Meike Brodersen
Senior lecturer METICES, ULB

Pierre Guibentif
Director of MSH Paris-Saclay

Yara Hodroj
General Secretary of MSH Paris-Saclay

09:00 - 10:30 : Plenary 1
Amphitheater B1.315, Building B

**Catching up in Battery Manufacturing: European Responses to China's Hegemony and the US Inflation Reduction Act**

**Moderator: Tommaso Pardi, Gerpisa, CNRS**

Jean-Luc Brossard
Programme Director of the French Automotive Platform
Vice-President Automotive Research & Advanced Engineering, Stellantis

Matthieu Hubert
General Secretary of Automotive Cells Company

**Co-organised with**

PFA - Filière Automobile & Mobilités
11:00 - 12:30: Plenary 2  
Room: Amphitheatre B1.315, Building B  
**Electrification, Industrial Policy and the Future of the European Automotive Industry**  
**Moderator: Tommaso Pardi, Gerpisa, CNRS**

Mark Nicklas  
Head of Unit Mobility at European Commission  

Sigrid De Vries  
Director General of the European Automobile Manufacturers' Association (ACEA)  

Benjamin Krieger  
Secretary General of European Association of Automotive Suppliers (CLEPA)  

Céline Domecq  
Head of Volvo Car EU office, Chair of the Platform for Electromobility

12:30 - 14:00: Lunch

14:00 - 15:30: Parallel Sessions 1

**Session 1: Consumers and Markets**  
Room: K4.201  
Chair: Roberto Marx, University of São Paulo, Ecole polytechnique

- Oliveira Filho, A. A., Consoni F. L., Rodriguez L. T. B., Rissi G. F., & Jordão E., Transition to electric mobility in Brazil: institutional development and advancement of new technology in the state of São Paulo  
- Jaderná, E., & Štrach P., Understanding Drivers and Barriers of Czech Consumers for Purchasing New Energy Vehicles  
- Smitka, M., Product differentiation: OEM strategy confronts consumers

**Session 2: Industrial Policies and Regulations 1**  
Room: K4.401  
Chair: Tommaso Pardi, Gerpisa, CNRS

- Alochet, M., & Midler C., When regulations shape the future of an industry, the case of the high voltage battery  
- Dziczek, K., Will the U.S. Inflation Reduction Act’s Clean Vehicle and Manufacturing Subsidies Substantially Alter Light Vehicle Production and Supply Chain Decisions?  
- Weis, N., The policy-induced transition to electric vehicle production in Germany: Contradiction and coalitions between State and Industry
Session 3: Digitalisation and Electrification of the Supply Chain

Room: K4.601
Chair: Lorenza Monaco, UCL Institute for Innovation and Public Purpose

- Calabrese, G. G., Falavigna G., & Ippolitii R., Innovation policy and industry 4.0: new evidence from the Italian automotive supply chain
- Santin, J. C., & Stevens M., Tech and trust: Substitutes or complements at the buyer-supplier interface?
- Becker, T., & Russo M., Complexity and Specialization in Clusters of European Automotive Regions: Mapping the Potential in Electric Transition

16:00 - 17:30 : Parallel sessions 2

Session 4: The Global South in the Electric Vehicles Global Value Chains

Room: K4.201
Chair: Lorenza Monaco, UCL Institute for Innovation and Public Purpose

- Naranjo Bejarano, C., EV transition in the Japanese automotive industry in Mexico: The case of Nidec Corporation
- Perez Almansi, B., & Pinazo G., The recent evolution of the Argentinian automotive industry and its attempt to develop the Electric Vehicles value chain.
- Rodriguez, J. D., The new international political economy of the automotive industry: deglobalization trends and challenges for Mercosur

Session 5: Industrial Policies and Regulations 2

Room: K4.401
Chair: Samuel Klebaner, CEPN, Université Paris 13

- Fu, H., Powering Up Electric Vehicles in China: The Role of Non-fiscal Incentives in Promoting Electric Vehicle Adoption amid Declining Fiscal Subsidies
- Pardi, T., Addressing the past failures of the European CO2 regulation for cars and vans: does the “fit for 55” update meets the challenge?

Session 6: Innovation and Value Creation

Room: K4.601
Chair: Giuseppe Giulio Calabrese, CNR-Ircres

- WU, C.(C.), & Wang H., Mechanism of Value Co-creation in the NPD – the Case of the Chinese Electric Vehicles
- Carrillo, J., A new innovation ecosystem? Cooperation between companies for the new automotive mobility
- Frigant, V., Sauve H., & Dimitrova Z., Mapping an extensive Technological Innovation System perimeter using Technology Intelligence: An Application to Hydrogen vehicles
Wednesday 28 June

09:00 - 10:30 : Parallel sessions 3

Session 7: Factors of innovation: technology and practices
Room: K4.201
Chair: Marc ALOCHET, Ecole Polytechnique

- Novaresio, A., Innovation dynamics in the European automotive industry: the Schumpeterian role of car trade in the supply chain
- Baba, T., Resilient and Sustainable Operations: Beyond the COVID-19 Pandemic
- Zhou, P., & Wang H., Examining the Role of Community of Practice in the Electrification of Chinese Automobile Industry

Session 8: The Battery Value Chain
Room: K4.401
Chair: Stéphane Heim, Kyoto University

- Acerbi, B., & Russo M., Do battery trade shows reveal a changing pattern in the automotive transition? An empirical analysis of the dynamic attendance rate
- Jetin, B., Electric batteries and critical materials dependency: a geopolitical analysis of the USA and the European Union

Session 9: Circular economy
Room: K4.601
Chair: Adriana Marotti de Mello, University of São Paulo

- Jeppe, A., Eickhoff M., Kraus L., & Proff H., Economic potential of second-life applications of car batteries for solar storage in Brazil to secure energy supply
- Lee, J., Development Process of Automobile Scrapping and Recycling System in South Korea and its Response to Electrification
- Techakanont, K., & Homklin T., A prospect towards circular economy in creating ELV recycling system in Thailand
11:00 - 12:30: Plenary 3  
Room: Amphitheatre B1.315 / B Building  
**The EU Green Deal: NGOs' Perspectives on Electrification**  
**Moderator: Tommaso Pardi, Gerpisa, CNRS**

![Alex Keynes](image1)  
**Alex Keynes**  
Transport and Environment Manager, Clean Vehicles  

![Lorelei Limousin](image2)  
**Lorelei Limousin**  
Climate, energy and transport campaigner, Greenpeace European unit  

![Jacques Portalier](image3)  
**Jacques Portalier**  
Project leader Automobile Industry of the Shift Project  

12:30 - 14:00: Lunch  

14:00 - 15:30: Parallel sessions 4

**Session 10: Labour and Technological Change**  
Room: K4.201  
Chair: **Jesús F. Lampón**, UNIVERSITY OF VIGO

- **Candeias, M., & Moniz A.**, Will AI in the automotive sector be a challenge to the product electrification? Which consequences for labour in Portugal?  
- **Carrillo, J., Martinez A. M., Lopez O., & Diaz M.**, The automotive sector in Mexico. The impact of automation and digitalization on employment.  
- **Russo, M., Simonazzi A., & Cetrulo A.**, The impact of I4.0 on work in the automotive sector in Romania and Spain

**Session 11: Industrial Policies and Regulations 3**  
Room: K4.401  
Chair: **Giuseppe Giulio Calabrese**, CNR-Ircres

- **Bubbico, D.**, Industrial policies to support automotive sector at national and European Union level: which forms of governance?  
- **Di Maria, E.**, Industrial policies to support automotive competitiveness: a cross-country comparison  
- **Beltrametti, L.**, Policies supporting demand for electric vehicles in Europe
Session 12: NGOs' alternative views for the future of mobility

Room: K4.601
Chair: Tommaso Pardi, CNRS-IDHES, GIS-Gerpisa

- Hildermeier, J., Transportation Electrification in the European Green Deal. How do recent EU policies support electric vehicle growth and their smart integration into the energy system?
- Petit, M., & Teuber A., Europe as an intermodal mobility leader – why, how, and what could be the socioeconomic effects?
- Chadha, S., Policies to drive the Fleet transition in Europe - France Case Study

16:00 - 17:30: Parallel sessions 5

Session 13: Labour & Management

Room: K4.201
Chair: Margherita Russo, University of Modena and Reggio Emilia

- Novaresio, A., The greening of the European automotive industry and its labor effects: an empirical analysis
- Švejdarová, E., Managerial Skills and Competencies for Effective Transition to Electromobility

Session 14:
Room: K4.601
Chair: Martin Schroeder, Ritsumeikan University

- Raj, A., Global Value Chain and a Green Eyewash: Locating Labour in the Electric Automotive Sector in India
- Ghafs, Z., Exploring the Evolution of the Automotive Ecosystem in Morocco: Insights from Semi-Structured Interviews
- Monaco, L., & Simon H., Protecting Human and Environmental Rights in the Auto Supply Chain: the new German Due Diligence Law seen from Africa

Session 15: New Mobilities

Room: K4.401
Chair: Meike Brodersen, METICES, ULB

- Alochet, M., Duffie J. P. M., & Midler C., Mobility Services and Vehicle-as-Platform: How Disruptive to Product and Industry Architecture?
- Proff, H., Kraus L., & Jeppe A., Illuminating Mobility as a Service ecosystems using natural language processing
Cocktail at the Tram Museum

Departure at 5:45 pm from tram stop ULB (direction Louise - see map p.15)

Thursday 29 June

09:00 - 10:30 : Parallel sessions 6

Session 16: Labour and Just Transitions 1

Room: K4.201
Chair: Juan Sebastian Carbonell, GERPISA, ENS Paris-Saclay, IDHES

• Gaddi, M., Between ecological transition and lack of industrial policies: the Italian case
• Gažo, P., Automotive Workers in the Era of Just Transition
• Klebaner, S., Transition of the automotive industry to an ecological mobility industry: the french case

Session 17: Industrial Policies and Regulations 4

Room: K4.401
Chair: Roberto Marx, University of São Paulo, Ecole polytechnique

• Boavida, N., & Moniz A., Value chain transitions towards automotive industry electrification: impacts in Portugal
• Zirpoli, F., & Moretti A., The impact of electrification on the Italian automotive supply chain
• Domanski, B., Guzik R., & Gwosdz K., A threat or a window of opportunity? Poland in the face of transition towards electromobility

Session 18: The Evolving Auto Value Chain 2

Room: K4.601
Chair: Vallejo Bertha, University of Johannesburg

• Flori, E., Caruso G., Pattarin F., & Solinas G., The Evolution of Global Value Chains in the Automotive Industry
• Schröder, M., Towards a New Division of Labour? Industrial Policy and the Electric Vehicle Value Chain in ASEAN
• Hrubý, M., & Šaroch S., Economic Regulation Contra Increasing Returns and Path Dependence in the Automotive Industry: A Story of EU and China
11:00 - 12:30: Plenary 4
Room: Amphitheatre B1.315 / B Building

Just Transitions: Social Justice, Trade Unions and Electrification
Moderator: Bela Galgoczi, European Trade Union Institute

Co-organised with

12:30 - 14:00: Lunch

14:00 - 15:30: Parallel sessions 7
Session 19: Labour and Just Transitions 2 / ETUI Panel
Room: K4.201
Chair: Tommaso Pardi, CNRS-IDHES, GIS-Gerpisa

- Galgoczi, B. On the way to electromobility – a green(er) but more unequal future?
- Palliet, E., Electrification and employment in the French automotive industry
- Czirfusz, M., Hungary's alternative low-road model for the integration in the European battery value chain
Session 20: Industrial Policies and Regulations

Room: K4.401
Chair: Bruno Jetin, University of Brunei Darussalam, Institute of Asian Studies

Kuyo, A., The battery Rules of Origins in the UK-EU TCA: the great delusion?
Wang, X., Ruet J., & Grebert J., Transforming the Automotive Industry with the Circular Economy Model
Bungsche, H., From Automobile Industry to Mobility Industry? TOYOTA and Japan’s automobile industry and mobility policies

Session 21: The Evolving Auto Value Chain

Room: K4.601
Chair: Martin Schroeder, Ritsumeikan University

• Cabral, V. M., Vallejo B., & Mordue G., Supply chain resilience under long-term external shocks: the case of an international first-tier automotive supplier in Mexico
• Alkire, K., The Emerging Closed-Loop Automotive Battery Supply Chain in the United States
• Klier, T., & Rubenstein J., From ICE to EV Production in Europe: Industry Geography in Transition

16:00 - 17:30: Parallel sessions 8

Session 22: Labour and Just Transitions

Room: K4.201
Chair: Holger Bungsche, School for International Studies, Kwansei Gakuin University

• Cetrulo, A., Dosi G., Moro A., Nelli L., & Virgillito M. E., Automation, digitalization and decarbonization in the European automotive sector
• Luethje, B., Foxconnization of Car Manufacturing? Production Models and Labor Relations in the EV Industry in China
• Heim, S., The Electrification of the Japanese Automotive Industry: Preliminary Results on the Reshaping of the Fordist Wage-Labor Regime

Session 23: Latin-american transitions

Room: K4.401
Chair: Jorge Carrillo, El Colegio de la Frontera Norte

• Covarrubias, A. V., Mexico as the unlikely winner in the auto sector. A review of firm localization strategies and labor relations transitions theories.
• Barassa, E., Consoni F. L., Moraes H. B., Cruz R., & Ludwig M. A., Paving the way for electric mobility in Brazil: the construction of the National Roadmap for Infrastructure as a driver for the market, policies and new technologies

17:30 - 18:00
Room: Amphitheatre B1.315 / B Building

Final Remarks
Gala Dinner
Auberge de Boendael

19:30 - Sq. du Vieux Tilleul 12, 1050 Bruxelles
Tram stop Marie-José - lines 8, 25

Friday 30 June
Factory Tour
Volvo Car Gent

8:15 am departure / 1:00 pm return
Departure and return point: ULB, Avenue Jeanne / S Building (see map p.15)
Campus ULB Solbosch location

You can use your credit card on metro, tram and bus

Campus ULB Solbosch
Access via Trams 7, 8, 25
Bus 71
Access from Av. Ernestine
From tram stop Cambre-Etoile
Lines 7, 8, 25 & Bus 71

Access from Av. Adolphe Buyl
From tram stop Jeanne
Lines 8, 25 & Bus 71

Departure to Tram Museum

K Building
Registration
Coffee breaks / Lunch
Parallel sessions
Rooms K4.201 / K4.401 / K4.601

B Building
Plenaries
Amphitheatre B1.315

S Building
Departure and return point for the factory tour to Volvo Car Gent
Towards Sustainability?
The Electrification of the Automotive Industry