

# TOWARDS A LEADING EUROPE IN BREAKTHROUGH INNOVATION: UNLEASHING THE POTENTIAL OF REGIONS



11, 12 & 13 May 2022



# WIRE 2022 WEEK OF INNOVATIVE REGIONS IN EUROPE

AT CENTRALESUPÉLEC



université  
PARIS-SACLAY

## DAY 1 • WEDNESDAY 11TH MAY, 2022

9:30 – 10:30 AM

### REGISTRATION

Welcome Desk

#### MASTER OF CEREMONY:

• **Jennifer Baker**, *Freelance tech and EU policy journalist*

10:30 – 11:30 AM

### OPENING PLENARY

Auditorium Michelin

#### WELCOME FROM PARIS-SACLAY

Welcome participants to the WIRE conference, introducing the importance of breakthrough innovation for the University.

• **Sylvie Retailleau**, *President of Université Paris-Saclay*

#### WELCOME FROM THE FRENCH PRESIDENCY OF THE EUROPEAN COUNCIL

WIRE 2022 is part of a broad programme of events and priorities that France has set for the French Presidency of the Council of the European Union for Europe and its regions. This session will welcome the participants to the WIRE 2022 conference and outline its strategic importance, the conference's key objectives, and the need to foster breakthrough innovations.

[WWW.WIRE2022.EU](http://WWW.WIRE2022.EU)

- **Benjamin Delozier**, *Head of the Competitiveness, Innovation and Business Development Department at the Directorate General for Enterprise*
- **Claire Giry**, *Head of Research and Innovation at the French Ministry for Higher Education, Research and Innovation*

## WELCOME FROM THE EU COMMISSION "BREAKTHROUGH INNOVATION AND EUROPE"

A new wave of breakthrough innovation is ahead of us and will have vast consequences on Europe's prosperity and ability to meet its objectives. Europe possesses many assets to ride this new wave, but also certain shortcomings which may hinder its ability to succeed in the global race. Europe must mobilise all of its capacities and ensure that all regions contribute to and benefit from this new wave of innovation. To do so, Europe must update and complement its innovation policy toolkit.

- **Joanna Drake**, *Deputy Director General, DG Research and Innovation, European Commission*

11:30 AM – 12:30 PM

## "EUROPE AND ITS REGIONS AT THE CROSSROADS: SEIZING THE OPPORTUNITIES OF A NEW WAVE OF BREAKTHROUGH INNOVATIONS – A POLICY PERSPECTIVE"

**Auditorium Michelin**

Europe's prosperity, global competitiveness and social model will require seizing the opportunities that a new wave of breakthrough innovation will bring about. In addition, Europe needs to ensure that new innovations are steered towards achieving Europe's objectives, notably Europe's green deal, and that they are aligned with its core principles of boosting cohesion and inclusiveness. To achieve this, Europe needs to create the right policy framework; this will require building synergies and strengthening coordination between different levels of governance (EU, national and regional).

### **MODERATOR:**

- **Mathieu Rouault**, *Journalist at Grand Labo*

### **PANELISTS:**

- **Josianne Cutajar**, *Lawyer, Politician and Member of the European Parliament for Malta*
- **Joanna Drake**, *Deputy Director General, DG Research and Innovation, European Commission*
- **Adéla Hradilová**, *Board Member, Moravian-Silesian Innovation centre Ostrava*
- **Markku Markkula**, *Vice-President of the European committee of the Regions (CoR)*

12:30 – 2:30 PM

## LUNCH

**Gymnase (Bouygues building)**

2:30 – 3:30 PM

## “EUROPE AND ITS REGIONS AT THE CROSSROADS: SEIZING THE OPPORTUNITIES OF A NEW WAVE OF BREAKTHROUGH INNOVATION – AN INNOVATOR PERSPECTIVE”

**Auditorium Michelin**

Many new breakthrough innovations will go beyond the digitalization revolution. A new form of “superstar companies” have emerged. Companies like Google, Apple, META (previously known as Facebook), Amazon, Alibaba have profoundly revolutionised existing markets and become global behemoths in just a few years, reaching a market capitalisation similar to or above the annual GDP of an average-sized European country. These companies are investing heavily in R&I in search of the “next big innovation”. In this context, how are Europeans preparing themselves? What are the key roadblocks that they may face? How can regional, national and European policies help to remove or mitigate these barriers?

### **MODERATOR:**

• **Mathieu Rouault**, *Journalist at Grand Labo*

### **PANELISTS:**

- **Birgit Aru**, *Consultant on sustainability and climate policy frameworks at Single Earth*
- **Jean-Michel Dalle**, *Managing Director, Agoranov*
- **Gerhard Huemer**, *Director for Economic Policy, SMEUnited – Crafts and SMEs*
- **Narcis Héraclide**, *Head of innovation at the Paul Guinot Association and doctoral researcher at the University of Poitiers*
- **Bachir Kerroumi**, *PhD researcher in “Urban resilience and social inclusion” at Gustave Eiffel university, President of Paul Guinot association for professional training adapted for visually impaired people*

3:30 – 4:30 PM

## “BREAKTHROUGH INNOVATIONS THROUGHOUT HISTORY: DEFINITIONS, FEATURES, OPPORTUNITIES AND RISKS”

**Auditorium Michelin**

Throughout history and notably since the industrial revolution, new breakthrough technologies and production processes have revolutionised our societies and increased prosperity. Breakthrough innovations open up new opportunities to meet society’s needs in ways which had not been imagined previously. In this context, what are the characteristics of these innovations (in comparison with marginal, cumulative innovation)? How do they occur? What are their main features? What are their associated opportunities and risks? Are there any success factors to take advantage of them?

• **Bruno Sportisse**, *President and CEO Inria*

4:30 – 5:00 PM

## COFFEE BREAK

**Terrasse Michelin**

5:00 – 5:15 PM

## PRESENTATION OF PROGRAM FOR THE SECOND DAY AND CONFERENCE ADJOURNS

**Auditorium Michelin**

**MASTER OF CEREMONY:**

- **Jennifer Baker**, *Freelance tech and EU policy journalist*

9:30 – 10:15 AM

**“BREAKTHROUGH INNOVATION: KEY DRIVERS AND THE ROLE OF REGIONS”****Auditorium Michelin**

Breakthrough innovation is fundamental in increasing prosperity and achieving our socio-economic goals. Ensuring a prompt adoption and scale-up of these innovations is key to reaping the expected benefits. There are key factors which may determine the ability of companies and local areas to do this. Access to finance, the availability of a talent pool, effective pro-innovation regulations, or the existence of a solid set of networks between and across innovators in the area to support innovation diffusion seem to rank highly in this list. At the same time, breakthrough innovations can deeply disrupt existing socio-economic ecosystems and can lead to rejections if they are not properly explained and if transition pathways are not put in place.

- **Jean-Luc Beylat**, *VP Ecosystem at Nokia*
- **Tommaso Boralevi**, *Chief Technology at Lendlease*
- **Christophe Clergeau**, *Member of the Pays-de-la-Loire Regional Council and Member of the Committee of the Regions*
- **Andrea Ruckstuhl**, *Head of Continental Europe, Lendlease*

10:15 – 10:30 AM

**COFFEE BREAK****Terrasse Michelin**

10:30 – 10:45 AM

**PARTICIPANTS HEADING TO THE WORKSHOPS OF CHOICE**

10:45 AM – 12:00 PM

**BREAKOUT WORKSHOPS ON KEY DRIVERS OF BREAKTHROUGH INNOVATION AND THE ROLE OF THE REGIONS****WORKSHOP 1: ACCESS TO FINANCE****Amphi I**

The EU has just as many start-ups as the USA but only a few of them are able to scale up rapidly. This is especially the case for start-ups carrying out breakthrough innovations which establish new markets. There is more start-up funding in the EU than scale-up funding. In particular, late-stage investment rounds in start-ups are fewer and smaller in Europe, compared to other regions. Causes include insufficiently deep and liquid capital markets providing risk finance, unattractive IPO (initial public offering) conditions, unequal geographic activity of funding and intermediaries, limited investment by pension funds and (life) insurances in risk capital markets, remaining fragmentation of the internal market in certain areas and regulatory burden.

**MODERATOR:**

- **Michel Mariton**, *Economic Development Vice-President, Université Paris-Saclay*

**PANELISTS:**

- **Tommaso Boralevi**, *Chief Technology at Lendlease*
- **Christian Dubarry**, *Head of the European affairs and international relations unit at Bpifrance*
- **András Inotai**, *Head of Unit, Innovation Policy & Access to Finance, European Commission, Directorate General for Research & Innovation*
- **Andrea Ruckstuhl**, *Head of Continental Europe, Lendlease*

**REPORTER:**

- **Olivier Mallet**, *Deputy Head of Unit – Open Innovation and Collaborative Research, France Ministry of Higher Education, Research and Innovation*

**WORKSHOP 2: THE REGULATORY ENVIRONMENT**

**Amphi V**

The workshop will address the reciprocal causal links between disruptive innovation and intellectual property regulation. It will look at how, on the one hand, IP regulation can boost disruptive innovation value chain and how, on the other, IP regulation needs to be disrupted to adapt to the pace, depth and breadth of the ongoing tech & usage revolutions of the 21st century, such as the overall importance and centrality of intangible assets for current and future companies triggered by a knowledge-based economy and the related need to establish incentives for the promotion of these assets as main value drivers.

**MODERATOR:**

- **Patrick Duvaut**, *Vice-President, Université Paris-Saclay, Foundation Head at Université Paris-Saclay*

**KEYNOTES :**

- **Jean Lapousterle**, *Professor of Private Law at Université Paris-Saclay, Director of the Center for Studies and Research in Immaterial Law (CERDI)*
- **Antoine Latreille**, *Professor at Paris-Saclay University, Vice President Heritage & Infrastructures, Researcher at CERDI*
- **Pierre-Emmanuel Moyse**, *Associate Professor at the McGill Faculty of Law*

**PANELISTS:**

- **Yann Dietrich**, *Group Head of Intellectual Property at Atos*
- **Maria Gomri**, *Legal Director, Head of Legal Southern Europe at Google*
- **James Lawrence**, *French and European Patent Attorney at Ipsilon*
- **Anne Catherine Milleron**, *Head of Europe for Economic Action at INPI (Institut National de la Propriété Industrielle)*
- **Folkert Teernstra**, *Sr IP Legal Counsel at TNO, Co-chair of the WG Legal of EARTO*

**REPORTER:**

- **Pierre-Emmanuel Moyse**, *Associate Professor at the McGill Faculty of Law*

### **WORKSHOP 3: RESEARCH EXCELLENCE AND THE CREATION, DEVELOPMENT, AND RETENTION OF TALENTS**

#### **Auditorium Michelin**

Breakthrough innovations need at least two conditions in order to emerge: high potential research areas, and talent creation. Both of them are linked, although the means to achieve them are not; high potential research areas need to benefit from synergies coming from the existence of different stakeholders, and talent creation needs to attract and retain the right talents, including those from outside the EU. Notwithstanding existing successful initiatives in the EU and within the Member States, there remains a need to build entrepreneurship and innovation capacity in vocational education and training programmes, as well as in higher education and research/academia.

#### **MODERATOR:**

- **Bernard Yannou**, *Professor and Deputy Director of Research at CentraleSupélec / Université Paris-Saclay*

#### **PANELISTS:**

- **Solange Chavel**, *CEO, SIRIS Academic*
- **Philippe Dufourcq**, *Deputy Director General of Centrale Supélec*
- **Apostolia Karamali**, *Head of Unit, Research and Innovation Actors and Research Careers, DG R&I, European Commission*
- **Arnaud Leservot**, *Project manager at the Ministry of Higher Education, Research and Innovation*
- **Luca Perego**, *Head of Unit "Innovation and EIT" in the Directorate General for Education, Youth, Sport and Culture of the European Commission*

#### **REPORTER:**

- **Chiara Aprea**, *Policy Officer, DG Research and Innovation, European Commission*

### **WORKSHOP 4: SOCIAL ACCEPTANCE OF BREAKTHROUGH INNOVATIONS**

#### **Amphi II**

The social acceptance of breakthrough innovation is a key factor for their diffusion to final users. The modification of final uses from consumers is often the last barrier in allowing breakthrough innovation to expand. Through European examples, this workshop will look at the barriers to breakthrough innovation.

#### **MODERATOR:**

- **Gilles Trystram**, *Professor and former Director of AgroParisTech*

#### **PANELISTS:**

- **Antoine Hubert**, *Co-founder, President and CEO of Ynsect*
- **Philippe Lemanceau**, *Vice-President of Dijon Métropole in charge of the food transition, the Territorial Food Plan, and the collective catering*
- **Valérie Nicolas-Hemar**, *Associate Professor in Management Sciences, Université Paris-Saclay*

#### **REPORTER:**

- **Eric Cassan**, *Université Paris Saclay deputy Vice-President for European Affairs*

12:00 – 2:00 PM **LUNCH**  
Gymnase (Bouygues building)

2:00 – 2:30 PM **REPORT BACK FROM BREAKOUT WORKSHOPS ON KEY DRIVERS OF BREAKTHROUGH INNOVATION AND THE ROLE OF THE REGIONS**  
Auditorium Michelin

2:30 – 3:15 PM **BREAKTHROUGH INNOVATIONS AND EUROPE'S STRATEGIC OBJECTIVES. THE ROLE OF REGIONS**  
Auditorium Michelin

Breakthrough innovation is key to achieving Europe's strategic objectives in a rapidly changing and increasingly uncertain international context. The competitiveness of the European Union is at stake, as well as its capacity to be a key player in future international relations. In this context, the question of Europe's industrial production capacities is crucial. Regions will be major actors in this process and will need to be mobilised to ensure a prompt adoption of new breakthrough innovations. Moreover, breakthrough innovations will be key to achieving Europe's green transition. This plenary session will set the backdrop for the breakout workshops which will take place after.

- **Pierre-Alexandre Balland**, *Professor – Utrecht University & Artificial and Natural Intelligence Toulouse Institute*

3:15 – 3:30 PM **PARTICIPANTS HEADING TO THE WORKSHOPS OF CHOICE**

3:30 – 4:30 PM **BREAKOUT WORKSHOPS ON EUROPE'S STRATEGIC OBJECTIVES AND THE ROLE OF THE REGIONS**

**WORKSHOP 1: INDUSTRIALISATION OF BREAKTHROUGH INNOVATION IN EUROPE**  
Auditorium Michelin

Innovation and industrial policy are closely intertwined, to allow all stakeholders and regions to benefit from it. Breakthrough innovations introduce completely new industrial questions, leading as a result to the development of entirely new production systems. What are the specific characteristics of these breakthrough innovations in terms of industrial policy?

**MODERATOR:**

- **Olivier Jehin**, *Independent journalist*

**PANELISTS:**

- **Valérie Bouillon-Delporte**, *Hydrogen Ecosystem Director at Michelin*
- **Aude Cuni**, *Benchmark and Estimating Manager at Air Liquide*
- **Capella Festa**, *Chief Operating Officer at Genvia*

- **Hortense Lutz-Hermellin**, *Head of Brussels's Office for Auvergne-Rhône-Alpes Region, Chair of ERRIN*
- **Christophe Maleville**, *Senior Vice President of Soitec's Innovation*
- **Kieran Mccarthy**, *Independent member of Cork City Council, Member on the European Committee of the Regions (CoR)*

### **REPORTER:**

- **Valérie Michaut**, *Project Manager, European Innovation program Sub-directorate of innovation, Directorate General for enterprises Ministry of Economy, finance and recovery*

### **WORKSHOP 2: EUROPE'S STRATEGIC AUTONOMY**

#### **Amphi V**

Over the past few decades, the interdependencies of our regional economies have increased significantly and benefited from growing global economic specialisation. At the same time, the Covid pandemic has also demonstrated the vulnerabilities of these interdependencies and the need to ensure greater autonomy in Europe in key strategic sectors, from microchips to medical material.

### **MODERATOR:**

- **Mathieu Rouault**, *Journalist at Grand Labo*

### **PANELISTS:**

- **Marc Lesturgie**, *Director of International Affairs at ONERA*
- **Jocelyne Wasselin**, *Chief Executive Officer at X-Fab France*

### **REPORTER:**

- **Michel Mariton**, *Economic Development Vice-President, at Université of Paris-Saclay*

### **WORKSHOP 3: EUROPE'S GREEN TRANSITION: THE ROLE OF EU MISSIONS**

#### **Amphi I**

Europe has committed itself to achieving the Green Deal, and its growth strategy is a green growth strategy. Delivering this inter-generational promise will require diffusing a vast number of breakthrough innovations rapidly to all sectors of our economy and society. To ensure the mobility of production factors, the manufacturing and transmission of energy solutions will need to be compatible with the Green Deal objectives. In this context, societies and governments will have to drive these breakthrough innovations.

### **MODERATOR:**

- **Markku Markkula**, *Vice president of the European Committee of the Regions (CoR)*

### **PANELISTS:**

- **Louise Drogoul**, *Advisor for Innovation & Sustainability at CESAER*



- **Pirita Lindholm**, *European Regions Research and Innovation Network (ERRIN) Director*
- **Thomas Stahlecker**, *Head of Research Unit “Regional Innovation Dynamics and Knowledge Exchange”, Fraunhofer Institute for Systems and Innovation Research ISI, Karlsruhe, Germany*
- **Neville Reeve**, *Principal Missions Coordinator at Directorate-General for Research and Innovation, European Commission*

### **REPORTER:**

- **Olivier Mallet**, *Deputy Head of Unit – Open Innovation and Collaborative Research, France Ministry of Higher Education, Research and Innovation*

### **WORKSHOP 4: EUROPE’S TERRITORIAL COHESION: ENSURING THE DIFFUSION OF BREAKTHROUGH INNOVATION THROUGHOUT EUROPE** **Amphi II**

Over the past few decades, an insufficient diffusion of innovation in companies, sectors and local areas has led to the full potential of breakthrough innovations being underexploited. As Europe faces a new wave of breakthrough innovations, the ability to diffuse them quickly will be key to achieving the objective of raising productivity and of more cohesive economic development. Moreover, despite progress in bridging the innovation divide, notably by some Member States catching up and in improvements in the number of R&I dimensions such as patents, the innovation performance gap among EU regions remains high. This innovation gap is driven by stark differences in R&D investment levels, framework conditions for research and science, and the quality of the scientific production or innovation outputs. Many measures have been reinforced in the Multiannual financial framework (widening of Horizon Europe, support to policy reforms) and new ones have been adopted to address some of the identified shortcomings (under the Recovery and Resilience Facility, several Member States, which have been lagging behind in R&I, have included structural reforms of their R&I systems in their Recovery and Resilience plans).

### **MODERATOR:**

- **Magda de Carli**, *Head of Unit, DG Research and Innovation, European Commission*

### **PANELISTS:**

- **Bogdan Chelariu**, *Head Of Brussels Office, ADR Nord-Est / Vice-chair of ERRIN*
- **Christophe Clergeau**, *Member of the Pays-de-la-Loire Regional Council and Member of the Committee of the Regions*
- **Pieter de Jong**, *European representative Wetsus & WaterCampus Leeuwarden, expert in innovation ecosystems at ERRIN*
- **Anna Panagopoulou**, *Director for European Research Area & Innovation, Directorate General Research & Innovation, European Commission*
- **Spela Stres**, *Head of “Innovation and Technology Transfer Center” for the Jozef Stefan Institute (JSI)*
- **Philippe Watteau**, *Chief Innovation Officer at CEA Tech*

### **REPORTER:**

- **Sjoerd Louwaars**, *Strategy consultant at SIRIS Academic*

4:30 – 5:00 PM COFFEE BREAK  
Terrasse Michelin

5:00 – 5:30 PM REPORT BACK FROM BREAKOUT WORKSHOPS ON EUROPE'S  
STRATEGIC OBJECTIVES AND THE ROLE OF THE REGIONS  
Auditorium Michelin

5:30 – 6:00 PM CLOSING PLENARY  
Auditorium Michelin

- **Bruno Bonnell**, *General Secretary for Investment in charge of France 2030*
- **Sylvie Retailleau**, *President of Université Paris-Saclay*
- **Anna Panagopoulou**, *Director for European Research Area & Innovation, Directorate General Research & Innovation, European Commission*

6:00 – 7:00 PM COCKTAIL  
Gymnase (Bouygues building)

7:00 – 8:30 PM NETWORKING DINNER  
Gymnase (Bouygues building)

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