

**DELIBERATION DU CONSEIL D'ADMINISTRATION DE L'UNIVERSITE CLERMONT AUVERGNE
PORTANT APPROBATION DE L'ENONCE DE MISSION DE L'ALLIANCE EUROPEENNE SUR LA MOBILITE DURABLE
« ERASMOB »**

LE CONSEIL D'ADMINISTRATION DE L'UNIVERSITE CLERMONT AUVERGNE, EN SA SEANCE DU VENDREDI 11 MARS 2022,

Vu le code de l'éducation ;

Vu le décret n°2020-1527 du 7 décembre 2020 portant création de l'Etablissement Public Expérimental Université Clermont Auvergne ;

Vu les statuts de l'UCA ;

PRESENTATION DU PROJET

A travers son programme Erasmus +, la Commission Européenne soutient le renforcement de la coopération entre établissements d'enseignement supérieur et de recherche au niveau institutionnel et dans tous les domaines d'activité : formation, recherche, innovation, service à la société. L'objectif est d'encourager les institutions européennes à définir de nouveaux modes de coopération intégrée en structurant des alliances transnationales « qui permettront [notamment] aux étudiants d'obtenir un diplôme en combinant des études dans plusieurs pays de [l'Union Européenne] »¹. Les premiers appels à projets ont abouti à la sélection de 41 universités européennes impliquant 280 institutions d'enseignement supérieur et de recherche parmi lesquelles 32 établissements français.

L'Université Clermont Auvergne souhaite répondre, en tant qu'institution coordinatrice, au nouvel appel à projets *Université européenne* qui se clôturera le 22 mars 2022. Elle a choisi de rassembler 6 établissements de 6 pays européens différents (Allemagne, Belgique, Estonie, Grèce, Slovaquie, Roumanie) autour de la thématique de la mobilité durable. Ce vote permet à l'Université Clermont Auvergne de valider l'énoncé de mission de l'Alliance européenne sur la mobilité durable « ERASMOB » annexé à la présente délibération.

Vu la présentation de Monsieur le Président de l'Université Clermont Auvergne

Après en avoir délibéré ;

DECIDE

d'approuver l'énoncé de mission, annexé à la présente délibération, de l'Alliance européenne sur la mobilité durable « ERASMOB » qui sera déposée le 22 mars 2022 par l'Université Clermont Auvergne en réponse à l'appel à projets *Université européenne* du programme Erasmus + de la Commission Européenne.

Membres en exercice : 41

Votes : 32

Pour : 32

Contre : 0

Abstentions : 0

Le Président,

Mathias BERNARD

CLASSE AU REGISTRE DES ACTES SOUS LA REFERENCE : CA UCA DELIBERATION
2022-03-11-07

TRANSMIS AU RECTEUR :

PUBLIE LE :

Modalités de recours : En application de l'article R421-1 du code de justice administrative, le Tribunal Administratif de Clermont-Ferrand peut être saisi par voie de recours formé contre les actes réglementaires dans les deux mois à partir du jour de leur publication et de leur transmission au Recteur.

¹ Conclusions de la réunion du Conseil européen du 14 décembre 2017



EUROPEAN ALLIANCE
ON SUSTAINABLE MOBILITY
ERASMOB

Mission Statement

February 2022



7 European countries
4 universities of Applied Sciences
3 multidisciplinary universities

130 065 students
10 277 staff
71 faculties
301 research groups

The European Alliance on Sustainable Mobility – **ERASMOB** – has the **ambition to establish a multilateral long-term and sustainable collaboration in education, research, innovation and societal engagement for sustainable mobility, by transforming academic bilateral cooperation into a new and coherent institutional framework.**

A **unique consortium of seven diverse, multidisciplinary universities dedicated to help accelerate the sustainable transformation of the mobility of people and freight** through radical changes in the way education, research and innovation in academic areas are performed in relation to the outside world have joined forces to initiate the ERASMOB alliance.

The ERASMOB members:

- Université Clermont Auvergne (UCA), Project coordinator, France
- Ostbayerische Technische Hochschule Regensburg (OTH), Germany
- Hogeschool VIVES (VIVES), Belgium
- Panepistimio Ioanninon (Uoi), Greece
- Tallinna Tehnikakõrgkool (TTK), Estonia
- Høgskulen på Vestlandet (HVL), Norway
- Universitatea “Ovidius” din Constanța (OUC), Romania

are convinced that **addressing the ambitious challenge of accelerating sustainable mobility in Europe** can only be effectively done through a profound **redesign of academic processes**. The seven partner universities are committed to fulfil their societal mission and to contribute to the success of the European Green Deal. Building on their strengths, they aim at demonstrating a new model of Universities in Europe, promoting a European identity and paving the way for a sustainable future.

ERASMOB partners also share the conviction that **the transformation of mobility must and can proceed much faster in Europe**, not only for environmental reasons in order to achieve climate-neutrality by 2050 or reduce pollution, but also to meet acute societal and economical needs, in order to provide better access to transport for European citizens and businesses, enhance territorial equity, or to stimulate European competitiveness through new technological advances and skill development. They are committed to be drivers of the green and digital transitions and to serve the whole European society.

Within the European Union, higher education institutions (HEI) already benefit from many tools and facilities that encourage and render possible the mobility of their students, teachers, researchers and administrative staff. However, **mobility and cooperation between HEIs should also be fully aligned with Europe’s sustainability policies, while being able to respond to socio-economic challenges and crises**. The ERASMOB partners are committed to undertake a gradual evolution towards in-depth and long-lasting transnational institutional cooperation to fulfil this ambition.

The future ERASMOB students, graduates, teachers, researchers, staff and leadership will share common European values, engage and innovate together with societal actors, and contribute to evidence-based and responsible policy making, and find solutions to sustainable mobility challenges.



Mission and Strategy

Sustainable mobility is understood by the seven partner universities as the effective combination of transport systems, policies and services (covering all major modes of mobility: land, air and sea) to allow for inclusive, affordable, efficient, safe, clean, and convenient access of people and goods to services and opportunities, in urban and non-urban areas. ERASMob supports the achievement of the United Nations Sustainable Development Goals.

Mobility is the second-largest item of expenditure (after housing) for European households with 13,5% of their income spent on transportation services and products. For industries too, logistics and freight are critical throughout the entire supply chain and often represents a significant percentage of the turnover. Besides, mobility and accessibility issues are very high priorities for public authorities at various territorial scales.

Mobility also relies on a paradox: mobility is a necessity in today's accelerating and global society, but more mobility means more pollution and the usage of vehicles instead of walking also has negative consequences on people's health.

ERASMob proposes to contribute to the collective and European debate:

- by addressing all the challenges raised by mobility in the key areas of technology and traffic, environment and energy, medicine and health, agrifood sector, circular economy, law, business and creative arts;
- by including the important notion of access to mobility, regardless of income or location;
- by including equity in accessibility covering all groups of the population as well as from all geographical areas;
- by activating institutionalized cooperation for a structural, systemic and sustainable impact;
- by considering a better provision of infrastructure and services to support the knowledge transfer, movement of people and goods.

- In a short-term perspective, ERASMob aims at supporting, through an integrated interdisciplinary strategy covering education, research, innovation and societal engagement in four main domains:

- Science, Engineering and Technology,
- Law, Economics, Management,
- Social Sciences, Humanities, and Arts,
- Health and Environment.

ERASMob intends to act as a driver for knowledge creation, transfer and access in the field of sustainable mobility and to support the transformation of mobility by enabling synergies between different scientific disciplines, industry, policy and the general public.

The consortium aims at jointly creating and managing, through a common governance structure, a European inclusive, multilingual, and multicultural inter-campus university.

By promoting cross-sectoral cooperation in all training, research and innovation activities, ERASMob aims at providing seamless mobility among students and staff by 2027 and enhance students' employability and socio-cultural awareness.



- In the long-term perspective, ERASMob will tangibly [contribute to the social and economic transformation of mobility and transport of people and goods that Europe must achieve within the next 30 years](#). The partners will create new education curricula, and an interdisciplinary research and co-creation frameworks closely linked to socio-economic issues by involving all relevant stakeholders: transport and mobility users, public authorities, policy makers, businesses, transport and mobility infrastructure and service providers, non-governmental associations...

By 2027, ERASMob aims at [becoming a leading and widely recognized interdisciplinary training, research and innovation ecosystem for sustainable mobility](#).

The alliance will have delivered new joint, flexible and innovative curricula in the three cycles (Bachelor, Master and Doctoral) based on inter-disciplinary and cross-sectoral approaches, integrating student-centred learning approaches and innovative pedagogies, and including the use of the latest digital technologies. It will also have established the foundations for a European degree in sustainable mobility.

The Alliance will have several joint interdisciplinary research labs leading international collaborative projects and fostering socio-economic experimentations. One of the joint laboratories will explore a city model where smart and digital applications will serve the mobility of people, while preserving the physical and cultural environment.

Moreover, ERASMob will strengthen innovation capacity and regional development by establishing or improving dedicated support structures in the participating higher education institutions. These structures will enable the emergence of new innovations and start-ups, who will play an essential role in the mobility transformation through the development of new sustainable mobility concepts or components for their real-world implementation.

The society will be at the centre of this dynamic, thanks to the creation of Living labs across the consortium as arenas for co-creation between citizens, NGOs, academics and other mobility stakeholders.



Added Value

The added value of the European Alliance on Sustainable Mobility is based on [three mutually reinforcing elements](#).

- Firstly, [ERASMob serves citizens, local and regional authorities, industry partners and communities that face the following challenges:](#)

- [Access and distribution of resources](#) (people and goods) over diverse territories (coastal, mountainous, rural regions with dispersed settlements);
- [All types of future-oriented transportation, CO₂ neutral transport, inclusivity societies, smart logistics driven by artificial intelligence;](#)
- [Non-traditionally served learners and overlooked communities.](#)

The diversity of ERASMob partner universities make it possible to meet all the above-mentioned challenges, while common solutions to sustainable mobility can emerge thanks to [the sharing of experiences and best practices](#). For example, UCA is located in a mountainous and rural region in France where the Puy-de Dôme department is experimenting “green shuttles” with hydrogen motors to connect different tourist sites. In Germany, the city of Regensburg aims at providing alternative transport options to reduce car traffic, through the establishment of a new city railway system, the re-organisation of public transport and the increased use of zero-emission vehicles. In Belgium, VIVES is supporting local cities with an efficient organisation of city logistics, in particular the last mile delivery of packages for which drones could be a solution. HVL stretches over five campuses in the region of Western Norway, covering both rural and urban areas. The main campus is located in Bergen, the city with the highest percentage of electric cars in the world. In addition to several clean energy transition projects, HVL is also involved in the development of green shipping technologies, in particular via its campuses in Stord and Haugesund. OUC in Romania, TTK in Estonia are located in coastal territories, with similar issues regarding maritime transportation and pollution. In Romania, the port authorities are trying to move away from gas to hydrogen. UoI, is situated in Ioannina (Epirus region, Greece) at the cross-border area between Greece and Albania as well as Greece and Italy. The area has become recently a strategic interchange of combined transportation node in proximity also to the country’s international gateway, the port of Igoumenitsa. As a result, sustainable mobility interventions are currently of high priority for the region. In addition, UoI develop actions for “Green Campus” initiative and take part of world university green campus rankings.

Furthermore, academia is a common denominator that can push forward the exchange of good practices and ways of thinking and disseminate to all concerned stakeholders. Each university brings different skills, different capabilities, different backgrounds and different ways of working. The commitment to high-quality, transformational initiatives is, however, shared passionately and equally.

- Secondly, [ERASMob will specifically serve the European integration as the identity of the Alliance is fully in line with the European values and identity:](#)

- ERASMob [promotes common European values](#) of human dignity, freedom, democracy, equality, rule of law, and respect of human rights through seamless mobility and immersion in different cultural and societal contexts to create empathy and understanding for participating institutions, learners, researchers and industry partners. This is achieved for example through short term Scientific Mission activities, internal grants and Collaborative Online International Learning projects.



- ERASMob is also [supporting a discourse on inclusion, tolerance, justice, solidarity and non-discrimination](#) with the participating students, businesses, citizens and future decision and policy-makers. This is offered through the lifelong learning approach and a multicultural environment offered within the inter-university campus.
- ERASMob fully [supports the acceleration of decarbonisation](#) promoted by the European Green Deal and related policies and regulatory frameworks by addressing in particular wind and energy for green hydrogen production and clean transportation, with different stakeholders involved in the project such as E.ON, Rompetrol and Engie; sustainable maritime transportation through more efficient port management and more environmentally friendly ships and ship manufacturing/repair with different stakeholders involved (such as Constanta Port Authority, Constanta Shipyard, potentially Naval Group – France); sustainable coastal tourism and tourism in protected areas (such as the Danube Delta, Northern Pindos Park, Lake Pamvotis or the world heritage site of the old town of Regensburg) through clean transportation, green energy generation in isolated areas and efficient exploitation of resources;
- ERASMob also [contributes to the digital transition](#). In Constanta, an efficient public mobility is enabled by digitalizing the metropolitan transportation (the CT Bus example); in Auvergne, sustainable agriculture is being promoted through digital management of the farm fleet; Estonia is also known for smart logistics and virtualisation with for example autonomous green buses tested in city smart office areas; in Regensburg a pilot project is currently running very successfully with two fully electric buses that drive autonomously through the city industrial park; in Flanders logistical companies are experimenting with multimodal transport supported by AI based decision models;
- And finally training students who are aware of the challenges of sustainable development and mobility and open-minded about inclusion and non-discrimination leads ultimately to [create European citizens](#).

Apart from European values, ERASMob also [serves the European policies both in the field of industry and higher education](#).

- The research and industry alliances will feature tight linkages among partners, because of common interests. As a result, the competitiveness and technological sovereignty of Europe will benefit from socially relevant skill development, research, innovation and entrepreneurship. As an example, the Michelin tyre manufacturing company, based in Clermont-Ferrand, has created with UCA Research Center on Innovative Mobility: Smart and Sustainable Solutions (ImobS³) a joint R&D laboratory “FACTOLAB” which is focusing on man-machine cooperation, in the fields of robotics and new digital technologies. Another example is the close cooperation of OTH with the Mobility & Logistics Cluster to find new intelligent answers to upcoming social and technological challenges in the age of electromobility and IT logistics as well as the collaboration of TTK with Estonian Digital Construction Cluster to offer innovative knowledge-based construction solutions for the entire construction life cycle to cut production costs as well as carbon footprint. UoI has created a University Research Center with Institutes focusing on Bioscience, Material Science and Applications, and Environmental and Sustainable Development.
- The cooperation between the seven ERASMob partner universities will also illustrate how transnational cooperation within the European HEI ecosystem can strengthen the



European Education and Research Areas and improve the attractiveness of European universities in a global competitive arena.

- Thirdly, *knowledge is de facto a universal common good, which can benefit everyone, beyond European borders*. The research performed by ERASMob members or the good practices that will be shared with stakeholders or the society may also have positive impact in other countries and regions. UCA and OUC are part of the Francophone University Agency and therefore results could be shared with other continents like Africa. Both OUC and UoI are members of the Balkan Universities Network as well as of the Black Sea Universities Network which could also both benefit from ERASMob expertise.





Strengths

In addition to the individual strengths of each Consortium partner, ERASMob’s main strength relies on their complementarity. Each entity has already developed a rich expertise in complementary sustainable mobility-related topics as illustrated by the selected examples presented in the table below:

<p><u>Training</u></p>	<ul style="list-style-type: none"> • Intelligent and innovative mobility, Nutrition, Health and mobility, Engineering, Technology, Humanities and Social Sciences, Law, Economy and Management (UCA); • Mechanical Engineering, Regenerative energy technology and energy efficiency, Electromobility and Power Networks and Computer Science (OTH); • Business Management in Logistics, Aviation Technology Social Applied Sciences, Industrial Sciences, Technology (VIVES); • Assessment and Protection of the Environment, Climate Change, Health Policy and Environmental Epidemiology, Advanced Materials and applications (UoI); • Architecture, Civil Engineering, Logistics, Technology, Circular Economy, Service Economy (TTK); • Renewable energy, Climate Change Management, Responsible Innovation Regional Development and Public Health focusing on Physical Activity (HVL); • Medicine, Business Administration and Law, Shipbuilding and Maritime transportation, Civil engineering (OUC).
<p><u>Research</u></p>	<ul style="list-style-type: none"> • National excellence long-term project “CAP 20-25” focusing on multimodal innovation as a way to develop sustainable living and production models (UCA); • Centres of expertise on Artificial intelligence, Biomedical engineering, Health technologies and Energy and resources (OTH); • Centres of expertise on Agrotechnology and Biotechnology, Business Management, Education Innovation, Smart technologies, Social Innovation and Care Innovation (VIVES); • Research Centre with specific Institutes focusing on Bioscience, Material Science and Application and Environmental and Sustainable Development (UoI); • Research groups and facilities on interactive transport, logistics and supply chain management simulation, robotics, social and welfare services (TTK); • Mohn Centre for Innovation and Regional Development, Centre of Excellence in Maritime Simulator Training and Assessment, Knowledge Hub on FAIR and open energy data (HVL); • Research centre on cancer diagnosis, Institute for Nanotechnologies and Alternative Energy Sources and Black Sea Institute for Development and Security Studies (OUC).
<p><u>Innovation and service to society</u></p>	<ul style="list-style-type: none"> • Transport, logistics and services project related to the skills and qualifications campus on sustainable mobility (UCA); • Technology campuses specialised in digital manufacturing with additive manufacturing and focusing on technology transfer to industry (OTH); • Active cooperation with profit and non-profit partners in the field of technology, health and business management (VIVES); • Projects focusing on environmental management and protection, health, education, material applications (UoI); • Projects on modernizing and digitalizing curricula in the fields of Transport, Logistics, Management according to the socio-economic needs (TTK); • Projects focusing on the role of energy communities for the low carbon energy transition and social innovation as well as Responsible Research and Innovation Ecosystems at a regional Scale (HVL); • Recognized Digital Innovation Hub (OUC).



As a joint partnership of institutions, ERASMob combines key assets to fulfil its mission:

- **Inter-disciplinarity:** the multifaceted issues of sustainable mobility can be addressed across the disciplines of Science, Engineering and Technology, Law, Economics, Management, Social Sciences, Humanities and Arts, Health and Environment.
- **A multicultural environment:** Partners come from the north, south, east and west of Europe, including associated countries. These partners bring with them international and multi-cultural students, staff and networks. Learners will learn by example and enjoy common spaces (both virtual and physical) between institutions in different environments, physical, cultural, societal and economic.
- **Dialogue between different types of institutions** and close relationships with regional actors, public and private companies, decision-makers and other relevant institutions.
- **Sharing and pooling of networks, resources, tools and practices across Europe and within our communities.** The seven partner universities will closely work with a range of associate partners in their respective regions, representing different sectors and challenges. The associate partners will have a critical role in our alliance for example in relation to curriculum development, internships, theses work, dissemination, identification of research needs, conducting test runs, etc. The educational offer will be developed in relation to their needs (micro credentials). Involvement and co-creation will be enabled through a wide range of activities: Living Labs, B2B meetings, start-ups, annual conferences. Community engagement and co-creation will provide balance between inclusion and excellence. The combination of each institution strengths will help providing innovative solutions to global problems. For example, HVL has high competence on green shipping and together with OUC the consortium covers education and research on the maritime transport.
- **Sharing and pooling of infrastructures and research capabilities among partners;** strengthening above all the regions that still have low capacities in the area of innovation, by transferring best practices from structurally stronger regions and building up structures and consolidating cooperation in the framework of an EIT HEI Initiative project called "INTER HEI".
- **Increasing opportunities for seamless staff and student mobility.** This will be done by creating new transnational education opportunities, partnerships with private and public sector, flexible curricula, virtual exchanges, etc.

