

DELIBERATION DU CONSEIL D'ADMINISTRATION DE L'UNIVERSITE CLERMONT AUVERGNE  
PORTANT SUR LE PROJET D'ALLIANCE EUROPEENNE POUR LA MOBILITE DURABLE « ERASMOB »

LE CONSEIL D'ADMINISTRATION DE L'UNIVERSITE CLERMONT AUVERGNE, EN SA SEANCE DU 21 FEVRIER 2020,

Vu le code de l'Education ;  
Vu les statuts de l'Université Clermont Auvergne,

### PRESENTATION DU PROJET

A travers son programme Erasmus +, la Commission Européenne soutient la structuration d'alliances visant à renforcer la coopération entre les établissements d'enseignement supérieur et de recherche au niveau institutionnel et dans tous les domaines d'activité (formation, recherche, innovation). L'objectif de l'Union Européenne est d'aboutir, d'ici 2024, à la constitution d'*Universités Européennes* « qui permettront [notamment] aux étudiants d'obtenir un diplôme en combinant des études dans plusieurs pays de [l'Union Européenne] »<sup>1</sup>. Un premier appel à projets a été lancé fin 2018 et a abouti au financement de 17 Universités européennes dans lesquels 16 établissements français sont impliqués.

L'Université Clermont Auvergne souhaite répondre, en tant qu'institution coordinatrice, au deuxième appel à projets *Université européenne* qui se clôturera le 26 février 2020. Elle a choisi de rassembler 5 établissements de 5 pays européens différents (Allemagne, Belgique, Estonie, Grèce, Slovénie) 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 pour la mobilité durable « ERASMOB ».

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 pour la mobilité durable « ERASMOB » qui sera déposée le 26 février 2020 par l'Université Clermont Auvergne en réponse à l'appel à projets *Université européenne* du programme Erasmus + de la Commission Européenne.

Membres en exercice : 37

Votes : 29

Pour : 29

Contre : 0

Abstentions : 0

**Le Président,**

**Mathias BERNARD**

CLASSE AU REGISTRE DES ACTES SOUS LA REFERENCE : CA UCA 2020-02-21-10

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.

<sup>1</sup> Conclusions de la réunion du Conseil européen du 14 décembre 2017

# EuRopean Alliance in Sustainable Mobility

## ERASMob

### MISSION STATEMENT

January 2020

#### ERASMob European University Alliance

- Université Clermont Auvergne (UCA, Clermont-Ferrand, France), Project coordinator : <https://www.uca.fr>
- Ostbayerische Technische Hochschule Regensburg (OTH, Regensburg, Germany): <https://www.oth-regensburg.de/>
- VIVES University of Applied Sciences (VIVES, Kortrijk, Belgium): [www.vives.be](http://www.vives.be)
- Panepistimio Ioanninon (UOI, Ioannina, Greece): [www.uoi.gr](http://www.uoi.gr)
- Tallinna Tehnikakõrgkool (TTK, Tallinn, Estonia): <https://www.ttk.ee/>
- Western Norway University of Applied Sciences (HVL, Bergen, Norway): [www.hvl.no](http://www.hvl.no)

## Vision

While the mainstream research and higher education system focused on thematic specialization is currently showing its limits, the European Alliance on Sustainable Mobility - **ERASMob** - aims at developing an innovative approach based on interdisciplinary and strengthened synergies between education, research and innovation to **tackle the short-to medium-term socio-economic challenges faced by Europe** around the related questions of sustainability, environment, professional and cultural changes.

The alliance is committed to contribute to a **united and stronger Europe, open to the world**, proud of its **common values** by bringing together a new generation of European citizens who would be mobile, environmentally aware and trained, able to **cooperate with different cultures, in different languages across borders and disciplines** with the same goals: protecting their common – precious and endangered - patrimony while foreseeing a better future and more progress for the next generation.

**ERASMob** gives birth to a unique consortium of multidisciplinary universities dedicated to help **accelerate the sustainable transformation of people's mobility and freight** through radical changes in the way education, research and innovation in academic areas are conducted in relationship with the outside world.

The

- Université Clermont Auvergne, Project coordinator,
- Ostbayerische Technische Hochschule Regensburg,
- VIVES University of Applied Sciences,
- Panepistimio Ioanninon,
- Tallinna Tehnikakõrgkool,
- Western Norway University of Applied Sciences.

are convinced that **rising up the ambitious challenge** of accelerating **sustainable mobility in Europe - a pragmatic case of a critical, expected transformation** -through a **significant shift in education, research and innovation patterns** can effectively pave the way to the profound, necessary redesign of academic processes, leading to more effectiveness in addressing societal issues for Europe as a whole and more pertinence in fostering a successful European socio-economic momentum.

**ERASMob** partners also share the conviction that the transformation of mobility must and can go much faster in Europe; it is an urgent necessity for the environment (greenhouse gases, pollution), society (better access, territorial equity, time-saving) and economy (strong competition from Asia, development of new technological advances).

**Sustainable mobility** is understood as the **effective combination of transport tools and services** (covering all major modes of mobility: land, air and sea) allowing affordable, efficient, safe, clean, pleasant access of people to localized services, in urban and non-urban areas, as well as similar ecosystems for freight, in a context of renewed cultural and mental representations of mobility conducive to a greater respect of humanity and the biosphere. Mobility is indeed 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, logistic activity is a considerable item in the entire supply chain and often represents a significant percentage of the turnover. As for territorial institutions, mobility and accessibility issues are both top priorities of their mission.

The alliance proposes to tangibly **contribute to the huge task of transforming the transport of people and goods that Europe must undertake within the next 30 years** by creating new education curricula, new cultural approaches and an interdisciplinary research framework closely linked to socio-economic issues by involving all relevant stakeholders: research and higher education institutions, cities, enterprises, chambers of commerce, associations... Time is running short and the urgency of a global action regarding the evolution of our perceptions and praxis of mobility is now obvious.

## Mission and strategy

**ERASMob** aims at **synergizing**, through an integrated interdisciplinary strategy covering education, research and innovation, **the real levers of the transformation of mobility in four main domains**:

- **Science, Engineering and Technology,**
- **Law, Economics, Management,**
- **Social and Human Science, Arts,**
- **Health and Environment.**

ERASMob is thus committed to **create an innovative education-research-innovation momentum capable of renewing academic practices** through a **4-level ambition**:

1. **a broad effort of awareness-raising on sustainable mobility** concepts, solutions and pitfalls targeting 100% of researchers, staff and students, and enabling the continuous education of the general public;
2. **securing the rapid launch of inclusive programs** laying the ground towards systemic cooperation between the partners (universities, cities, companies, civil society);
3. **deepening advanced, interdisciplinary collaboration**, at local and transnational levels, towards the creation of joint strategies
4. finally **defining and implementing integrated, systemic cooperation fostering socio-economic impacts**, best practices' sharing and leading to substantial societal changes (scaling the transformation up)

## Strengths of the alliance

Each entity has already developed a rich expertise in complementary sustainable mobility-related topics. **Training** on sustainable mobility is currently proposed in several departments of the alliance's entities. UCA leads the only Erasmus + Centre of excellence on sustainable development "ERASME" that brings together scientific and civil society expertise to advance sustainable development in the EU while HVL Faculty of Business Administration and Social Sciences was rewarded as "Centre of Excellence in Maritime Simulator Training and Assessment" in 2019. VIVES is offering education on

Sustainable mobility in its Business, Social Applied Sciences and Industrial Sciences and Technology Departments' and TTK has a unique interactive transport, logistics and supply chain management simulation laboratory - Industry 4.0 lab. The School of Health Sciences of UOI has a curriculum focusing on Health Policy Research and Implementation, Environmental Epidemiology, Research Methodology and Large Scale Data Management, Climate Change while OTH study programs include Mechanical Engineering, Electromobility and Power Networks, Computer Science. HVL Faculty of Engineering and Science is offering a bachelor in Renewable energy, a master in Climate change management, as well as a Ph.D. on Responsible Innovation and Regional Development – RESINNREG. Moreover, UCA will create by fall 2020 an engineering cluster “Institute National Polytechnique” gathering three engineering schools and focusing on sustainable mobility.

The alliance also gathers a strong **research and innovation expertise** on sustainable mobility. UCA leads the most prestigious French “Laboratory of excellence” on *Innovative Mobility: Smart and Sustainable Solutions* (IMobS3) as well as one initiative of excellence project focusing on multimodal innovation as a way to develop sustainable living and production models (CAP 20-25) with 2 scientific challenges linked to sustainable mobility. In March 2020 it will also launch a European Center on Mobility. OTH has successfully conducted two research projects on sustainable mobility with synthetic fuels (“NAMOSYN – Nachhaltige Mobilität durch synthetische Kraftstoffe”) and fundamentally oriented investigation of the injection and combustion behavior of vegetable oil fuel and transfer to an engine system of emission level IV / V (“EVOLUM – Grundlagenorientierte Untersuchung zum Einspritz- und Verbrennungsverhalten von Pflanzenölkraftstoff und Übertragung auf ein Motorsystem der Abgasstufe IV/V”). HVL participates in H2020 projects focusing on Collective action Models for Energy Transition and Social Innovation as well as Responsible Research and Innovation Ecosystems at Regional Scale for Smart Cities, Transport and Energy. VIVES has six centres of expertise currently working on research projects linked to sustainable mobility together with institutions and companies aiming for an intensive knowledge exchange and co-creation. VIVES also has a dedicated centre for research in aviation and drone technology and is one of the forerunners when it comes to practice based research in this topics. UOI is the first EU University to have developed a global way of managing laboratory toxic wastes and hazardous materials, which constitutes leading research across Europe to date dedicated to medical research on individual mobility and health.

## Key figures

	Numbers		Ongoing European funded projects	Membership of existing networks
	Undergraduates and PhD candidates	Academic Staff	H2020, E +, COST	
UCA	36 000	3 200	26	<ul style="list-style-type: none"> <li>• EURAXESS</li> <li>• Agence universitaire de la Francophonie</li> <li>• Franco-German University</li> <li>• Jacques Cartier</li> <li>• International network of Michelin cities</li> </ul>
OTH	11 100	1000	10	<ul style="list-style-type: none"> <li>• European University Association</li> <li>• UAS4Europe</li> </ul>
VIVES	15.000	1700	15	<ul style="list-style-type: none"> <li>• Eurometropole</li> <li>• EURASHE</li> <li>• EAIE</li> <li>• EDEN</li> <li>• ATAERA</li> <li>• VLHORA (Flemisch Federation of Universities of Applied Sciences)</li> </ul>
UOI	33 585	872	45	<ul style="list-style-type: none"> <li>• European Universities Association (EUA)</li> <li>• EURAXESS</li> <li>• ASEAN European Academic University Network (ASIA-UNINET)</li> <li>• Association of Universities of the Adriatic-Ionian Sea</li> <li>• European Society for Engineering Education (SEFI)</li> </ul>
TTK	3 200	236	8	<ul style="list-style-type: none"> <li>• EURASHE</li> </ul>
HVL	16 000	1121	26	<ul style="list-style-type: none"> <li>• Southern African- Nordic network (SANORD)</li> <li>• European University Foundation (EUF)</li> <li>• European University Association (EUA)</li> </ul>

## Core values

**Interdisciplinarity:** sustainable mobility is an interdisciplinary issue that needs inputs not only from the technological and management points of view but also from human and cultural perspectives. A better crossing of these approaches can lead to the emergence of a shared conviction on the necessity to change and to a greater capacity to adapt to these changes.

**Synergy:** Actions developed within the alliance will link education to research and innovation to a new level since synergies between those domains are crucial to tackle sustainable mobility challenges. They will be implemented in close collaboration with respective authorities, companies and the civil society. Research projects will be defined taking into account the view of the population and the needs to be addressed in the field of sustainable mobility.

**Mobility for all:** Entire areas of society are deprived of any means to get “mobile” and are excluded from the very notion of progress. The alliance aims at reducing these “mobility deserts” for a more empathetic world. Each student and staff member will have the opportunity to receive a new education on sustainable mobility as well as to perform a mobility period within the alliance. The alliance commits itself to develop actions dedicated to persons with specific needs.

**Virtual mobility as a complementary option for all:** for a new digital and thus sustainable and clean approach of mobility.

**Ethics:** the alliance wants to contribute to make the modern European society morally involved, inclusive, committed to its youth and the full development of gender equity.

**Innovation:** in education and research, we aim to invent and create processes and tools bringing about disruptive strategies to improve human mobility and goods transport, in urban and non-urban areas, and make them sustainable.

**Dissemination:** ERASMob will reach out to new populations of students, researchers and other citizens. Each social category will have access to awareness-raising activities on sustainable mobility and to programs enabling them to change their habits. Best practices’ sharing with other academic and non-academic institutions will also be a big part of ERASMob activities.

## Major goals for 2025

ERASMob aims at **creating a European multilingual inter-campus university boosting mobility** among students and staff by 2025 to enhance **students’ employability** and cultural maturity, and promote **cross-sectoral cooperation** in all training, research and innovation activities.

In order to achieve this ambitious goal, the alliance will **create a new European momentum in the economic and social transformation of mobility**, by preparing students for a paradigmatic change and through research initiatives focusing on removing the obstacles, of whatever nature (not only technological), which have been encountered over the last decades. **New forms of flexible short-term mobility** for students and staff will be created as well as **new forms of learning in distance and innovative soft skills educational packages** that are easy to disseminate among partner universities. The alliance will run an ambitious **master programme on sustainable mobility** and award unique **high-level diplomas on sustainable mobility**.

By 2025, **ERASMob** aims at becoming the main international centre of interdisciplinary expertise (health, technology, finance...) on sustainable mobility and have at least four joint interdisciplinary research labs leading joint interdisciplinary international research projects and fostering socio-economic experimentations.

### Governance structure of the alliance

