



الجامعة الأورومتوسطية بفاس
EUROMED UNIVERSITY OF FES
UNIVERSITÉ EUROMED DE FÈS

SDG11 Report

Sustainable cities and communities



SDG11 Report: Sustainable Cities and Communities

City of Fez: sustainable heritage of Humanity

The choice to set up the Euromed University in the city of Fez is not fortuitous. The cultural and historical dimension of this city of more than twelve centuries, which hosts one of the oldest universities in the world; the Quaraouiyne, embodies all the traditional values of human openness and cultural symbiosis of Morocco, based on the mutual respect and influence of the differences in culture and civilization of the region.



Its medina, classified since 1980 as a World Heritage Site by Unesco, is first and foremost a living museum of art and culture, where several creative activities coexist harmoniously, representative of Moroccan craftsmanship in all its splendor. It is also a popular destination for tourists in search of spirituality and a high place of pilgrimage, especially for African visitors, because of the symbolism of the place, a space of knowledge and religion, conferred on it by its medersas, its mosques and mausoleums.

But beyond this fundamental cultural and historical aspect, Fez is also an essential economic hub in the Moroccan development strategy. The geostrategic position of Fez on the Moroccan motorway network, connecting Tangier to Agadir, from north to south, and Casablanca to Oujda, from west to east, constitutes a nodal point in Morocco's logistics plan and the construction of the Maghreb highway, to link Nouakchott (Mauritania) to Tobrouk (Libya).

UEMF-community partnership

UEMF is a privileged partner of the Fès-Meknes regional council, the city of Fez and the Regional Investment Council.

The University is also a partner with several rural communities and supervises elected officials on sustainable development themes (training, student internships, impact studies, etc.)

Institutional agreements have been signed since the installation of the UEMF

<https://www.ueuromed.org/partenariats-institutionnels>

Sustainable cities

This is one of the themes of importance for the UEMF for which training courses as well as research work are devoted.

Training

EMADU (Euro-Mediterranean School of Architecture, Design and Urbanism)

EMADU is a co-creation between UEMF and the University of Florence with the involvement of the Polytechnic University of Madrid and the National School of Decorative Arts (ENSAD Paris). Its mission is to train Architects, Designers, Town Planners, Landscape Architects and specialists in heritage conservation; in particular Euro-Mediterranean. The School provides innovative training combining the skills of architect and engineer to train profiles capable of better contributing to the design and organization of the living space of the citizen of the 21st century, in compliance with standards quality and environment.

Architecture & Urban Planning

The urban dynamics and the economic and socio-spatial changes experienced by our region require mastery of urban space for the creation of sustainable environments, widely open to modernity, economic globalization, progress and human development;

Real estate programs and construction projects, more numerous, more complex, more diversified and require a qualified architectural project management in sufficient number;

The requirements of sustainable development and the taking into account of environmental constraints, require an upgrade of architectural techniques respectful of the environment and ecology (new design of buildings, new techniques to reduce the energy needs of buildings, new materials,);

National programs for the rehabilitation of the architectural heritage and the safeguarding of historic monuments in Morocco and other countries in the Euro-Mediterranean area require qualified specialists in sufficient numbers.

Master: Urbanism and Its territories

Goal :

- Work for the respect of heritage and the environment, difference and cultural specificities and develop in the student awareness of the requirements of society, individual and collective well-being;
- Promote professional expertise in the field of town planning;
- Disseminate knowledge and promote the quality of urban production;

EMADU activities

Questions about the role of town planning in the management of the Covid-19 pandemic

Covid-19 has depopulated the streets and repopulated homes. Cities, villages, douars and other agglomerations; none of these human settlements is an exception.

Euromed Institute of technology (EIT)

EIT operates training courses aimed at highlighting the importance of sustainable mobility, well-designed supply chains, renewable energies and water through 4 master's courses and one in logistics:

- Bachelor in Logistics
- Master in Transport and Sustainable Mobility (cf. brochure of this program)
- Master in Design and Engineering of Green Buildings (cf. brochure of this program)
- Master in Renewable Energies and Energy Efficiency
- Master in Environmental Engineering and Water Management
- Engineering cycle in Operations and Logistics Engineering
- Engineering cycle in Civil Engineering with, in 5th year, a Transport and Urban Planning option

Executive Master in Transport Systems, Mobility and Territories

The study of mobility and transport systems is approached not only in a technical-economic context, but also through socio-political, cultural, institutional and environmental interactions.

The range of training modules offered aims to:

- Consolidate the mastery of aspects related to transport modeling.
- Deepen your understanding of the economic aspects of transport.
- Understand the interaction between the territory and transport.
- Integrate aspects related to the environment and society.

Master in Transport and Sustainable Mobility

This training aims to provide students with the essential skills in transport and logistics in the face of the explosion in transport demand and the importance of challenges related to mobility and urban logistics.

Various themes are dealt with such as:

- Transport in the economy;
- Demand and costs (direct, indirect costs and negative externalities of transport);
- Organization of the offer;
- Transport-town planning integration models (LUTI).

By teaching them to mobilize very varied areas of knowledge (engineering, economics, environmental sciences), the objective of this master's degree for our students is to enable them to situate the different aspects on which they will be required to work by taking simultaneously taking into account the social, economic and environmental dimensions and by apprehending the long-term issues.

Faculty of Human and Social Sciences

Master: Management and tourism development of heritage

Goals :

- To ensure to the students, thanks to the device of double diploma which allows the partnership between the UEMF and the Institute of Research and Superior Studies of Tourism of Paris 1 Panthéon-Sorbonne, a very good quality of training in terms of management and tourism promotion of heritage.
- Ensure absolutely rewarding exchanges both from the point of view of the teaching teams and of student mobility in the two institutions (UEMF and IREST).
- To value the theoretical knowledge but also the practical methodologies necessary for the good conduct of field work and internship leading to a future job, as well as those helping to build writings revealing an analytical, critical and innovative spirit.
- Train in the two cultures of tourism and heritage aimed at integration into heritage establishments and sites, local and regional authorities and tourism organizations.

Continuing education

<https://www.ueuromed.org/formation-continue/gestion-du-patrimoine-communal>

Workshop "The territoriality of public action: Rethinking governance through the prism of the local"

<https://www.ueuromed.org/actualites/ateliers-workshops/table-ronde-autour-du-theme-la-territorialite-de-laction-publique>

The UEMF organized with local and European partners on Tuesday January 28, 2020, in collaboration with the Agency for Sustainable Mediterranean Cities and Territories (AVITEM), a workshop on the theme "The territoriality of public action: Rethinking governance through the prism of the local".

Workshop: migration, mobility and development

<https://www.ueuromed.org/riemas/evenements/les-riemas-workshop-series/migration-mobilite-et-developpement>

Hackaton under the theme of artificial intelligence applied to eco-mobility

<https://www.ueuromed.org/actualites/ateliers-workshops/hackaton-sous-le-theme-de-lintelligence-artificielle-appliquee-leco>

Workshop "Open air workshop" at the riad Lalla Yeddouna

<https://www.ueuromed.org/actualites/ateliers-workshops/workshop-atelier-ciel-ouvert-au-riad-lalla-yeddouna>



Workshop "Sustainability: towards a new development paradigm in the Euro-Mediterranean area"

<https://www.ueuromed.org/actualites/ateliers-workshops/workshop-soutenabilite-vers-un-nouveau-paradigme-de-developpement>

Workshop: UEMF and the Euro-Mediterranean Network for Economic Studies (EMNES) analyze migration, mobility and development

<https://www.ueuromed.org/actualites/ateliers-workshops/luemf-et-le-reseau-euro-mediterraneen-pour-les-etudes-economique>

UEMF-European Union cooperation projects

EMNES: The Euro-Mediterranean Network for Economic Studies

<https://emnes.org/>

The Euro-Mediterranean Network for Economic Studies (EMNES) is a network of research institutions and think tanks working on socio-economics policy in the Euro-Mediterranean. EMNES builds on the research work of Euro-Mediterranean Economists Association (www.euromed-economists.org) and the Mediterranean Prospects Network (MEDPRO) (www.medpro-foresight.eu).

PROEMED: Boosting environmental Protection and Energy Efficient Buildings in Mediterranean Region With University of GENOVA-ITALIE

ERASMUS + Joint Projects-573644-2016 Developed master's degree: Design of green building engineering (CIBV) Area: sustainable development

Mediterranean Countries: Towards Internationalization at home EMUNI-Slovenia University

ERASMUS + CBHE-6107-EPP-1-2019-1-SI-EPPKA2-CBHE-JP -Project MED2laH

Euro-Mediterranean research training network in Architecture, Design and Urbanism- EUROMEDLABS Università degli Studi di Firenze] [UNIFI] -Italy

European Commission * Action 2: Cooperation for innovation and the exchange of good practices-Capacity building of Higher education

Europe for Building Entrepreneurial and Innovative Capacities in the Mediterranean Region / EU4MED + Universitat Politècnica de Catalunya - BarcelonaTech, Barcelona, Spain

European Commission * Action 2: Cooperation for innovation and the exchange of good practices-Capacity building of Higher education

Strategic Sustainable Development - Operationalizing Sustainability Principles StraSuD University of Stockholm

European Commission * Action 2: Cooperation for innovation and the exchange of good practices-Capacity building of Higher education

Research projects

Electronic market for urban mobility for optimized trips (Mobility Online Market For Optimized Trips) - Benmoussa & Bennouna

Project selected following a call for tenders (AL-KHAWARIZMI Program) launched by the CNRST in partnership with the Digital Development Agency and with the ministries of industry and higher education. Funding acquired 180,000 MAD

Project summary: The mechanisms that control mobility are about to be profoundly disrupted by the intrusion of computing, telecommunications and, more recently, artificial intelligence (AI). These technological innovations will modify both transport needs and the means of meeting them, constituting a certain opportunity to resolve the difficulties that mar mobility.

The proposed AI application will allow better management of traffic flows. Intelligent transport will offer possibilities for optimization and will open up areas of choice that are currently little studied and explored, in particular time delays and modal transfers in real time. This will result in an increased elasticity of the particular demands which are expressed at a given moment on a given axis.

This research project in transport, sustainable mobility and urban logistics is being deployed in the city of Casablanca with the participation of 4 professors, 3 doctoral students and in partnership with professional organizations such as Casa Transport SA and MobilizeYourCity.

<https://www.cnrst.ma/index.php/fr/component/k2/item/446-programme-al-khawarizmi-resultats-de-l-appel-a-projets-dans-le-domaine-de-artificial-intelligence-and-its-applications?highlight=WyJhbCIsImtoYXdhcmI6bWkiLCJhbCBraGF3YXJpem1pIlI0=>

Publications

- Fathallah Sijilmassi & Mounia Slighoua
 - Achieving sustainable development goals: the relevance of a nexus approach in the euro-mediterranean and african region. *EMEA - EMNES Policy Paper, May 2021*
- Moha Ennaji, Filippo Bignami, Mohammed Moubtassime, Mounia Slighoua and Fouad Boulaid. "Fez as a locus of migration processes on the move". (Article submitted for publication in the Journal of North African Studies in August 2019).
- Mounia Slighoua, Othmane Benmoussa, Housseine Bachiri and Salim Bounou. "Entrepreneurship and Traditional Know-How: The Case of Moroccan Rural Women". EMNES Working Paper. November 2019.
- Hafsa EL Bekri, Fathallah Sijilmassi
 - Reshaping eu policies towards the eu-africa partnership in the 'new normal' era of the post covid-19 world. *EMNES Policy Paper 014*
- Bachiri Housseine, Slighoua Mounia, and Kettani Malika. "Circular Migration and Gender: The Case of Moroccan Strawberry ladies". December 2019.

- Othmane Benmoussa
 - A conceptual framework for transitioning to an authentic sustainable world
 - *Emnes working paper no 45*

- Mounia Slighoua. “The Notions of Home and Belonging within Migrant Communities”. EMMIR / ACMS Conference 2019, University of Oldenburg, Germany, December 13 - 14, 2019.

- Coqueine Bachiri, Mounia Slighoua, and Malika Kettani. “Circular Migration and Gender: The Case of Moroccan Strawberry ladies”. Workshop “Migration, Mobility and Development”, Euromed University of Fez (UEMF), October 17, 2019.

- Moha Ennaji, Filippo Bignami, Mohammed Moubtassime, Mounia Slighoua and Fouad Boulaid. “Fez as a locus of migration processes on the move”. Project Seminar held in SUPSI University of Applied Sciences in Southern Switzerland, Lugano, Switzerland, 4-5 April 2019.

- Mounia Slighoua. “Youth’s Contribution to Development Processes”, 21st Conference on “Youth and Development”, the Emirati Center of Strategic Studies and Research, Abu Dhabi, 8-9 March 2016.

- El Hamzaoui L., Tabyaoui H., El Hassani F., Lahrach H., Dridri A. & Lahrach A. (in press) .- Use of GIS for mapping and assessment of the water erosion in the watershed of the Oued Larbaa (Taza, Morocco). European Scientific Journal.

- El Hassani F. (2010) - The GIS at the Service of Rural Tourism. Communication presented at the 1st International Congress on Systems of Geographical Information SIG-GT

- Midaoui A., Bourak A., Lahrach A., Lahrach H., El Hassani F. & Chaouni A. (2016) .- Contribution to the management of water resources in the Ouergha basin upstream of the Al Wahda dam, a through hydrological modeling. 5th International Colloquium of the “Water & Climate” Network - FST- Fez, Morocco, October 12-13, 2016.

- BOURAK A., MIDAQUI A., EL HASSANI F., LAHRACH A. & CHAOUNI A. (2017) .- Restoration of rivers in urban areas in Morocco. Case study: Fouarat (town of Kenitra) and Boufekrane (town of Meknes). *National Conference RVA2D- 2017 Risks, Vulnerability, Adaptation and Sustainable Development*. Taza December 15-16, 2017

- MIDAQUI A., BOURAK A., EL HASSANI F., LAHRACH A. & CHAOUNI A. (2017) .- Development of a flood forecasting and management model in the Sebou basin (Morocco). Hydrological and hydraulic modeling coupled with GIS. National Symposium RVA2D-2017 Risks, Vulnerability, Adaptation and Sustainable Development. Taza December 15-16, 2017

- DAIDE F., EL HASSANI F., GMIRA S, LAHRACH A., CHAOUNI A. (2017) .- Hydraulic modeling of floods in the Oued Tamraght watershed, Souss Massa. National Colloquium RVA2D-2017 *Risks, Vulnerability, Adaptation and Sustainable Development*.Taza December 15-16, 2017

<https://www.ueuomed.org/actualites/articles/questionnements-sur-le-role-de-lurbanisme-dans-la-gestion-de-la-pandemie-du>

Activities and Artistic Student Clubs



- Clubs: choir, Latin dance, We Art, Free & Dance, Theater, Tawesna (promotion of Amazigh culture and language),...
- Visit of the Mellah to discover the Judeo-Moroccan heritage

<https://www.ueuomed.org/evenements/activites-des-etudiants/visite-du-mellah-la-decouverte-du-patrimoine-judeo-marocain>

Heritage conferences

The Spanish city of Tetouan or Ensanche: The perfect example of a shared heritage

<https://www.ueuromed.org/evenements/cycle-de-conferences/la-ville-espagnole-de-tetouan-ou-ensanche-lexemple-parfait-dun>

Expenses for the arts and heritage

The UEMF devotes more than 5% of its budget to expenses including:

- operating expenses of libraries, galleries, exhibition spaces, theaters and spaces open to the public
- expenditure on musical resources (payment instruments for travel and music teachers, etc.)
- regular operating costs for arts and heritage buildings

Transportation

The UEMF encourages and subsidizes more sustainable travel (walking, cycling, carpooling, public transport (UEMF bus and public shuttles), motorbike, scooter or moped, or electric vehicles). In particular, mission expenses are better reimbursed in the event of carpooling.

The campus has priority pedestrian paths and cycle paths

Sustainable housing for students and employees.

UEMF has an agreement with a large property development group in Fez which enabled it to build the U Village student residence (<https://www.uvillage.ma/>) who provides its residents with a comfortable, warm, healthy, secure and environmentally friendly living environment. Located in the heart of UEMF, U VILLAGE offers sustainable accommodation adapted to students' needs and their budget.

Affordable housing for employees

Access to decent housing is by the Constitution of Morocco, a right which guarantees dignity and participates in the social cohesion of citizens. Considered as such, the housing sector is essentially a social sector. In this sense, the Ministry of National Land Use Planning, Town Planning, Housing and City Policy in 2010 initiated the social housing program at MAD 250,000.

For employees wishing to acquire sustainable housing with affordable prices, the same developer has affordable housing in various districts of the city of Fez.

Construction standards *(Note Eco-Campus UEMF - Polyprogramme January 2014)*

“The construction of the UEMF campus is firmly in line with the Union for the Mediterranean’s exemplary policy in terms of sustainable development. The objective is the creation of an eco-campus. In this context, four priorities have been set: • Site integration, • Water and energy management, • Durability and ease of maintenance, • Comfort and health.

The performance levels set also take into account the objectives of cost compliance and flexibility. We can understand the concept of eco-campus as a place of sustainable development combining these three environmental, economic and social criteria. Thus, apart from the heritage policy in terms of environmental performance, the eco-campus

also aims to develop social and economic orientations in accordance with sustainable development, namely:

- The research subjects developed,
- The potential for transfer of technology to be disseminated throughout the territory and to create jobs locally,
- Integration into surrounding neighborhoods (student life, shared facilities, jobs and services),
- The mix of populations, uses and activities.

For constructions, the focus is on low consumption or passive buildings while remaining within comfort standards, for example with bioclimatic buildings that are very energy efficient and integrate renewable energies. For outdoor spaces, special attention is paid:

- Limiting waterproofing (parking, roads), infiltration and storage of rainwater and runoff on site (ditches, basins, drainage pavements).
- Plantations (woody, shrub, lawn) where water, phytosanitary treatment and fertilization needs are limited.
- Lighting and atmospheres. We are therefore approaching the criteria of the HQE approach, which makes it possible to define priorities in the environmental approach. "

Remote work

Unable to offer on-campus learning during periods of confinement, UEMF rushed to ensure academic continuity through distance education. Digital platforms have been installed and all courses have been provided as well as administrative work. Restricted movement on the partially closed campus was authorized, taking all precautions recommended by medical authorities. If the conferences were provided, it is clear that the work of laboratories requiring equipment, suffered despite the adjustments.

Remote work is however allowed in limited cases (post covid) pending the regulations concerning it because it is not governed by Moroccan law. Some texts have adapted to this context of crisis, but remote work remains a mode of organization without its own legal framework.