



الجامعة الأوروبية بفس  
EUROMED UNIVERSITY OF FES  
UNIVERSITÉ EUROMED DE FÈS

# SDG12 Report

## Responsible consumption and production

2023



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# SDG12 report : Responsible consumption and production

## Introduction

At UEMF, the Purchasing and Logistics Department's main objective is to satisfy the needs of internal customers, by obtaining the best performance from suppliers (Quality / Cost / Deadlines / Services) in compliance with the regulations in force and in relation with the general strategy of the UEMF.

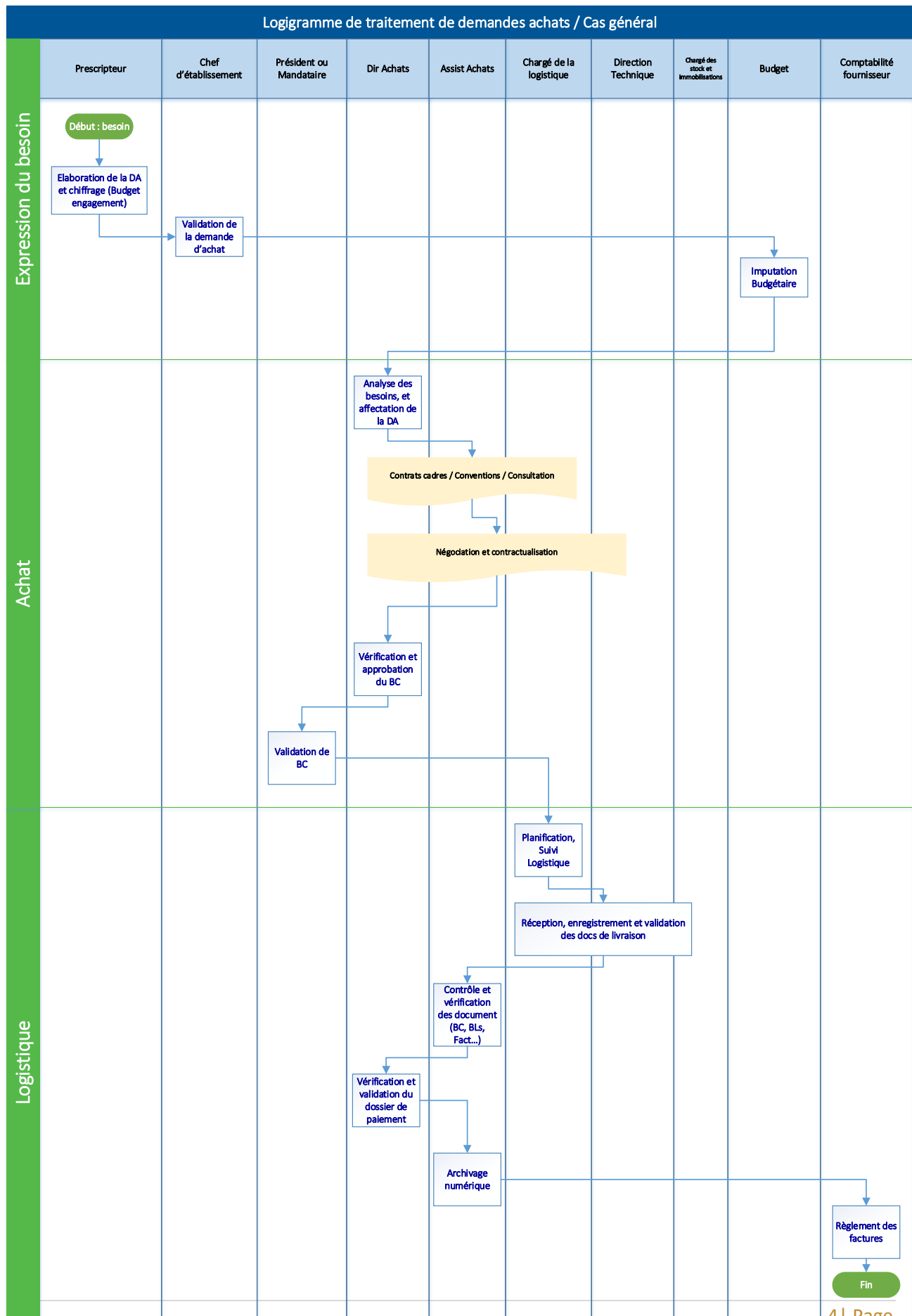
Generally speaking, the purchasing and logistics function has the mission of:

- conduct regular market monitoring;
- collect the needs of internal customers while avoiding overconsumption at the end of the financial year;
- launch consultations, carry out sourcing and choice of suppliers;
- negotiate prices and purchasing conditions;
- order ;
- ensure all logistics operations;
- ensure compliance with the rules, procedures and laws in force;
- ensure compliance with the standards and ethics of the profession: fairness, transparency, equal opportunities and absence of conflicts of interest
- integrate criteria relating to sustainable development into market rating rules
- to encourage the pooling of equipment, particularly printing (installation of floor copiers)

The UEMF aims to:

- rationalize purchases and educate users about responsible consumption
- include respect for the environment and the end of life of products in procurement clauses
- give priority in its purchases to the following criteria: cost, quality, availability delivery conditions, after-sales service, product guarantee and the good reputation of the supplier

The purchasing procedure (accompanied by the flowchart) is described in detail in the UEMF quality assurance manual



The UEMF is aware of the challenges of the purchasing professions and their role in protecting the environment (characteristics of the goods and services requested, energy efficiency of products, carbon footprint linked to their manufacturing, distances traveled and mode of transport used and their impact on energy consumption and climate change, etc.).

### Responsible purchasing policy

A responsible purchasing policy requires a significant investment in training and an additional burden for buyers. That said, a drafting effort is underway. Part of it was presented in the “Responsible UEMF” project which obtained the responsible innovation label.

<https://ueuromed.org/sites/default/files/upload/files/politique-des-achats-responsables-uemf-2023.pdf>



### Responsible Digital Charter

<https://ueuromed.org/sites/default/files/upload/files/charte-numerique-responsable-2023.pdf>

### Fight against waste

The UEMF encourages subcontractors to control the quality of food and avoid any waste. The energy exploitation of organic waste for the production of bioenergy (biogas, liquid bio-carbons) and compost is currently being tested in student projects.

- Choice of food suppliers
- Protection and conservation of food products in compliance with the national standards of the National Food Safety Office (ONSSA) <http://www.onssa.gov.ma/>
- Delivery of food products in the best conditions
- Anticipating public needs by analyzing responses to questionnaires
- Menus composed with a dietician in response to individual needs: light menu, full menu
- Structure of meals and consideration of customers' specific needs (quantities/portions served)
- Training of restaurant staff in waste sorting
- Daily donation of leftover food to charities
- Composting of peelings

### Waste management

#### UEMF waste management policy

[https://ueuromed.org/sites/default/files/upload/files/politique-uemf-de\\_gestion-des-dechets-2023.pdf](https://ueuromed.org/sites/default/files/upload/files/politique-uemf-de_gestion-des-dechets-2023.pdf)

### Waste minimization

This mission is carried out by the UEMF Heritage Department.

Its objective is the protection of the environment and the health of users on the one hand and the quantitative and progressive reduction of waste.

It consists of:

- responsible management of consumables and waste by encouraging sorting and reserving several spaces for sorting and temporary storage of waste
- the supply of products for maintenance, cleaning, repair and eco-designed, reusable and recyclable work
- the Economy of resources used on the eco campus in particular collecting rainwater for watering and maintaining gardens and green spaces

General principles :

- Prevention (limit production)
- Recovery (recycling, energy, etc.)
- Elimination

The waste produced is stored then transported by municipal trucks.

The heritage department has a physical plan for prevention, collection, sorting (paper, glass, plastic) and collection of waste: waste baskets (classrooms, offices), skips, household and restaurant waste containers, battery containers, container for the reuse of refillable inkjet cartridges, trash cans of different sizes, trash bags, and a general collection station, not forgetting the collection of garden waste.

In order to limit consumption, it was decided to limit the use of plastic, disposable items, battery-powered devices and to strengthen the acquisition of low-energy lighting. Some of the sorted objects are offered (old furniture, computers, components, etc.) to student clubs following their request.

### Hazardous waste (laboratory chemicals)



Practical teaching work and laboratory research generate various dangerous materials: chemical synthesis products, biological waste, used oils, contaminated objects. This waste is handled carefully (glove boxes, special gloves) and according to regulated procedures in order to reduce its harmful effects on the health of the students and researchers who handle it and on the environment.

The elimination of this hazardous waste is done according to national regulations and with the resources of municipal services.

General approach for packaging waste

1. Container (20 liters) labeled (indicating the type of product, the laboratory and the person responsible) suitable for storing each waste (do not mix incompatible products to avoid any explosion or fire)
2. Separate packaging from harmful, toxic or reactive products (avoid leaks)
3. All containers are inserted into a large plastic waste drum (200 litres)

The Heritage Department establishes a schedule for the periodic removal of hazardous substances.

## Training offered by the UEMF in the field of responsible consumption and production

- Mandatory and transversal modules (7 pillars of the UEMF) are integrated into the training of all students, particularly awareness of the sustainable environment.
- Other modules are taught in particular at the Euromed Business School (EBS): law of the environment, social and solidarity economy, circular economy, ethical finance, business ethics, entrepreneurship, etc.
- Several scientific fields address these aspects, in particular:
  - Master's degree in water and environmental management (water saving, waste management, etc.)
  - Master-specialized-purchasing-and-supply-chain-management in continuing education (Manage physical, financial and information flows throughout the company's supply chain, Integrate digital technologies into purchasing and supply chain management, Define and implement an effective purchasing strategy)

## Research

### Energy Tic Valley Platform

- The development of research and innovation activities, as well as their promotion and the valorization of initiatives in the direction of scientific and technological development in the fields of bioenergy and energy storage;
- The valorization of different types of green waste and agricultural by-products for energy purposes (production of biogas, electricity, heat, etc.) as well as the development of new processes and materials for the storage of different forms of energy, including electrochemically;
- Analysis, comparison, optimization and development of new technologies for biomass energy recovery and energy storage.

### Agritech

<https://www.ueuromed.org/agritech>

### Doctoral thesis: Effect of recycling AlSi7Mg0.6 powder on parts manufactured by SLM

<https://www.ueuromed.org/sujets-de-these/effect-du-recyclage-de-la-poudre-alsi7mg06-sur-les-pieces-fabriquees-par-slm>

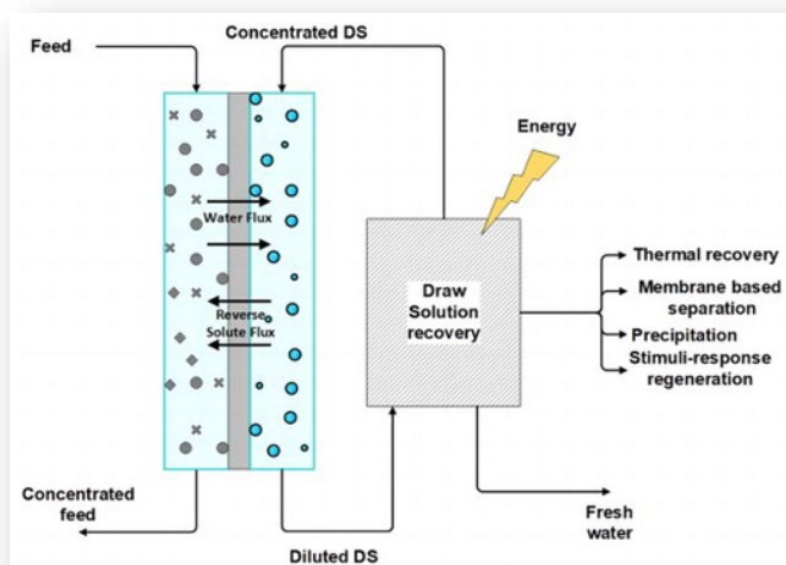
### Water desalination by forward osmosis: drawing solutes and recovery methods – review

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Teacher. Sébastien Vaudreuil

Professor Tijani Bounahmidi



Water production has become a serious concern nowadays due to many environmental and social factors. Conventional desalination processes are considered energy-intensive, as energy consumption represents 50 to 60% of the cost of water production.

In this article, a state-of-the-art update of newly developed suction solutes such as deep eutectic solvents, ionic liquids, smart materials, and conventional FO suction solutes has been carried out. Finally, the challenges, opportunities and future prospects of FO technology were discussed.

[Forward osmosis water desalination: suction solutes and recovery methods – review: Environmental Technology Reviews: Vol 8, No 1 \(tandfonline.com\)](#)

## EBS\_Talks Conference: Circular Economy: challenges, issues and limits



Guest of the show “with or without adornment” on Luxe Radio, Pr. Abdessamad RHALIMI, teacher at Euromed Business School, underlines the importance of the circular economy in the face of exponential growth in global consumption by transforming our economy linear (produce, consume, throw away) and by accelerating the change in production and consumption models in order to limit waste and preserve natural resources, biodiversity and the climate.

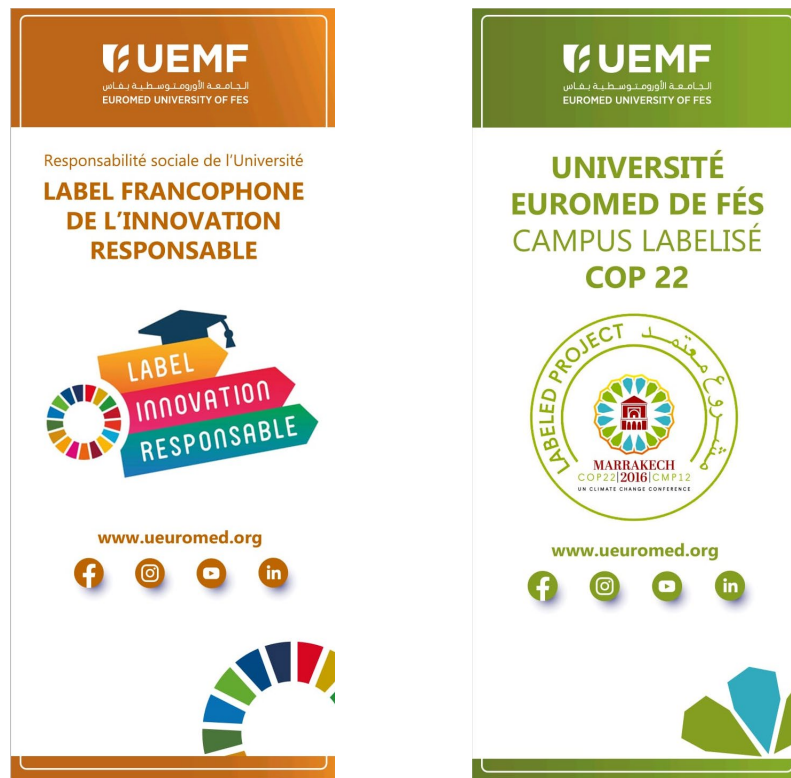
[Circular economy vs economic growth: two reconcilable notions? - With Or Without Adornment - Podcast | Luxury Radio](#)

<https://ueuromed.org/actualites/annonces-diverses/economie-circulaire-pr-abdessamad-rhalimi-presente-son-approch-sur>

## UEMF labels

### Eco campus

1-the UEMF campus is an Eco-Campus which respects the best international standards in terms of sustainable development. It was certified by COP 22 and recently obtained the French-speaking responsible innovation label



2-the buildings of the UEMF Eco-campus are built according to the “High Environmental Quality” approach limiting any harmful environmental impact through precise choices: low-energy local materials, materials ensuring good thermal and sound insulation , open architecture ensuring maximum natural light and luminosity, clean and renewable energy sources: installation of photovoltaic panels on large areas of building roofs for the production of electrical energy with real-time measurement of the energy recovered , installation and thermal solar panels for the production of hot water, ongoing installation of pipes and basins for rainwater recovery, recirculation of gray water (in progress), construction/rehabilitation of positive energy buildings, implementation placement of sorting bins for waste throughout the Eco-campus, creation of sports, leisure and relaxation spaces, use of a circular economy (minimizing waste by optimizing the value generated by resources), installation on the UEMF Eco-campus of charging stations for electric cars. These terminals are the only ones in the Fez-Meknes region and the only ones on a university campus in Morocco. Advertising panels have been placed in several places in the city of Fez inviting motorists to come and recharge the batteries of their electric cars free of charge on the UEMF Ecocampus, total accessibility and in all University buildings to people at reduced mobility (PRM), installation on all floors, in front of all doors, on staircases and in elevators of Braille signage for the blind and visually impaired, installation on all floors and in all buildings of sanitary facilities (toilets) for PMRs.

<https://snrtnews.com/fr/article/euromed-de-f%C3%A8s-dispose-d%E2%80%99un-label-par-la-cop22>

<https://ueuromed.org/actualites/annonces-diverses/luemf-obtient-le-label-de-linnovation-responsable-lors-de-sa-premiere>

### "The Green Gown Award"

- The UEMF is a finalist for "The Green Gown Award" for its exemplary sustainable development initiatives.



The Green Gown Award or commonly known as "The Green Gown Award" is an award that recognizes outstanding sustainability initiatives undertaken by universities and colleges around the world. It is organized in partnership with the United Nations Environment Program (UNEP) and supported by the AUF, the Association of Commonwealth Universities (ACU) and the International Association of Universities (IAU).

This year, 56 finalists were selected and they represent 19 countries around the world. Among them, we find five establishments that are members of the Agence Universitaire de la Francophonie:

**In Canada :**HEC Montreal

**In France :**Institut Mines-Télécom Nord Europe

**In Morocco :**Euromed University of Fez (UEMF)

**In Mexico :**National Autonomous University of Mexico and Veracruzana University

<https://www.ueuromed.org/actualites/annonces-diverses/luemf-finaliste-au-prix-green-gown-award-pour-ses-initiatives>

## UEMF winner of the “RESPONSIBLE CAMPUS OF THE YEAR” Prize



The Euromed University of Fez was named winner of the “RESPONSIBLE CAMPUS OF THE YEAR” Prize, during the ceremony organized in Paris, on Tuesday October 4, 2022, under the effective presidency of the Minister of Higher Education and French Government Research.

The “Responsible Establishment of the Year” category rewards UEMF’s commitment to the SDGs and its lasting impact to become an organization responsible for the challenges of the transition in four main areas:

Leadership and governance;

Real Estate and Operations;

Learning, teaching and research;

Partnership and commitment.

<https://www.ueuromed.org/actualites/annonces-diverses/luemf-laureate-du-prix-campus-responsable-de-lannee>

### UEMF activities

#### Club We Green

<https://www.ueuromed.org/clubs/we-green>

The club’s mission is to promote respect for the environment through educational awareness activities. The club creates initiatives for the implementation of programs encouraging reflection on environmental issues, the creation of ecological habits within the community and in the region and the integration of environmental issues into daily life. The club integrates the following themes into its action plan:

- Waste production and recycling
- Creation of ecological urban spaces
- Energy optimization
- Raising awareness around the use of renewable energies

## Hackathon

Hackathon organized by students (EBS and EMADU) in partnership with the Koutoubia group on the theme of the revaluation of production waste. This hackathon aims to introduce students to the issues of sustainable development and the circular economy and to bring out initiatives for the recovery of waste from the production system of the poultry sector.

<https://www.ueuromed.org/actualites/ateliers-workshops/lebs-et-lemadu-comisantes-de-luemf-ont-organise-en-partenariat-avec>

### [Hackaton] The Euromed Sustainable Impact Challenge: by Euromed Business School and Royal Air Maroc



THE EUROMED UNIVERSITY OF FEZ and its partner ROYAL AIR MAROC (RAM), are co-organizing the Euromed Sustainable Impact Challenge, a Hackathon which aims to engage participants in the CSR approach with reference to the value chain of ROYAL AIR MAROC. This 2nd edition takes place at the UEMF eco-campus where students from EBS (Euromed Business School), EMADU (Euromed School of Architecture, Design and Urban Planning) and EIDIA ( School of Digital Engineering and Artificial Intelligence) are looking at the theme by providing ideas for projects that are both innovative and responsible.

13 teams are supervised by RAM specialists, by Mr. Ayoub Makhoulfi, founder and president of "The Mediterranean Intelligence and Public Affairs Institute (MIPAI)" as well as professors from the Euromed University of Fez in the fields of business and management as in architecture and artificial intelligence to respond to this problem effectively and efficiently. Workshops rich in information and learning are held throughout the Hackaton in order to reflect on and propose an internal communication plan based on the game to facilitate employee awareness of CSR issues.

More than a simple opportunity to democratize the theme of CSR, the values of RAM and the UEMF in this sense among the various stakeholders, this Hackaton is a unique opportunity, of educational interest, allowing students to present their ideas in front of a panel of high-level experts.

[\[Hackaton\] The Euromed Sustainable Impact Challenge: 2nd edition by Euromed Business School and Royal Air Maroc | UEMF \(ueuromed.org\)](https://www.ueuromed.org/actualites/ateliers-workshops/lebs-et-lemadu-comisantes-de-luemf-ont-organise-en-partenariat-avec)

## #LearningPlanet Festival



On Wednesday 01/26/2022, a hybrid conference was organized on the Eco-Campus of the Euromed University of Fez and online dealing with the Sustainable Development Goals (SDGs) and climate change.

On the program for this hybrid conference:

- Welcome remarks (President of the University)
- How does the UEMF contribute to the SDGs? Messrs. Bennouna (Vice-President) and Ouazzani Chahdi
- The SDGs in training at the UEMF – Case of the Euromed Business School (EBS): MM. Sebti, Rhalimi and Marhraoui
- Activities of EBS students:
  - Sharing experience on the “En-Road” simulation around climate change: 2nd year students
  - Presentation of the “Green My Eco-campus” projects of Master 1 students
- Designation of the 3 best projects
- Fence

<https://festival.learning-planet.org/fr/event/green-my-eco-campus/>

**As part of the UNESCO #global conference on higher education 2022, our Prof. Maha Gmira participated as a panelist on the application of AI in higher education on May 20 in #Barcelona**

Objectives of participation:

- Recognize how AI can impact higher education and the challenges this poses for HEIs.
- Understand the role of HEIs in promoting and developing AI towards achieving the SDGs.
- Strengthen international cooperation and partnership to promote equitable, inclusive and transparent use of #AI in higher education.



**European sustainable investment in Morocco: subject of the round table held at the Spanish Chamber of Commerce at the initiative of RIEMAS December 16, 2022**



The Research Institute for European, Mediterranean and African Studies (RIEMAS) of the Euromed University of Fez in partnership with the delegation of the European Union (EU) in Morocco, the Spanish Chamber of Commerce and Industry and Eurocham Maroc, organized a round table on the theme of European sustainable investment in Morocco. Thanks to the opinions of experts, research professors from Euromed Business School and economic players participating in this round table, rich discussions were discussed, in particular the contribution of investments in the energy sector as well as the opportunities offered by the adoption of the investment charter and the Green Partnership concluded between the EU and the Kingdom of Morocco.

<https://ueuromed.org/actualites/annonces-diverses/linvestment-durable-europeen-au-maroc-sujet-de-la-table-ronde>

<https://www.youtube.com/watch?v=bRJ6XWHAZk>

### We Green Action from December 6 to 14, 2022



The We Green club made a strong comeback thanks to several awareness-raising actions on December 6 and 14.

The club also put together a Christmas tree from recycled materials, an opportunity to promote the importance of environmental awareness.

### Other events

- Project in collaboration with the region: Green accounting / Pilot project on waste and water in the Fez Meknes region
- From waste to nanostructured materials, biosourced polysaccharides and metal ions