جامعة ابن طفيل
Université Ibn Tofaïl
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2025

SDG9 REPORT

INDUSTRY INNOVATION AND INFRASTRUCTURE

SUSTAINABLE DEVELOPMENT
IBN TOFAIL UNIVERSITY

SDG 9

Introduction

The ninth Sustainable Development Goal (SDG), defined by the United Nations, aims to build resilient infrastructure, promote inclusive and sustainable industrialization, and foster innovation. It recognizes the crucial importance of strong and well-planned infrastructure to promote economic, social, and environmental development. This report examines the efforts made by our institution to contribute to the achievement of this goal, highlighting the projects, partnerships, and initiatives that strengthen our commitment to sustainable infrastructure and inclusive economic growth.

9 INDUSTRY, INNOVATION AND INFRASTRUCTURE



THE GLOBAL GOALS

Assessment of *the Year*

National School of Applied Sciences Infrastructure

- Red Amphitheater with a capacity of 277 seats
- Amphitheater with a capacity of 326 seats
- 4 classrooms with a capacity of 146 seats
- 4 classrooms with a capacity of 146 seats
- 10 classrooms and tutorials with a capacity of 60 seats
- 9 computer rooms
- 6 practical work rooms
- 12 special education workshops
- An administration, offices for teachers, a library for students















Assessment of the Year

Innovation City

The City of Innovation, designed as a unifying platform, embodies an integrated vision of scientific research. It brings together major infrastructures with advanced technical features identified as essential by the scientific community.

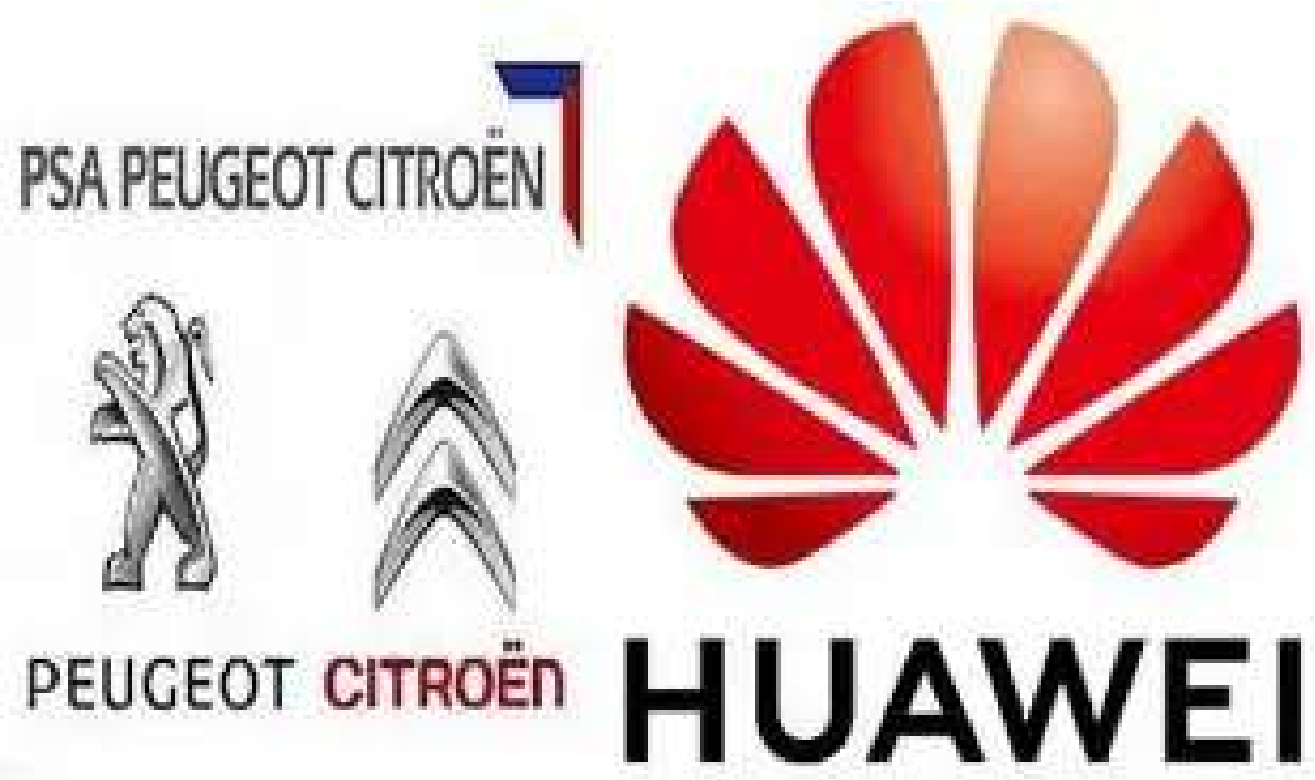
These facilities are intended for high-level research activities and enable the pushing of current knowledge boundaries. By concentrating these resources in a single location, the university optimizes their use, ensures their maintenance, and facilitates their management, thus contributing to efficient resource sharing.

The City of Innovation at UIT is an exemplary model of integration between scientific research, innovation, and economic development. This platform brings together research and development centers, incubators, valorization structures, innovation-driven business incubators, and shared services, with the aim of promoting creativity and entrepreneurship.

Employment Initiatives

Openness to the Job Market : Partnerships

Ibn Tofail University has formed alliances with over 100 partners in local, national, and global markets to enhance graduates' workforce entry. These partnerships, formalized through memorandums, include notable corporations like Yazaki, Huawei, PSA Peugeot Citroën, Accor, Xiezhong, and Decathlon. The goal is to expand internship opportunities and improve employability for Ibn Tofail graduates. These initiatives have successfully helped many alumni secure jobs at partner firms, while others have become business owners or executives. This strategic approach underscores the university's commitment to aligning academic training with industry needs.



Employment Initiatives

Ibn Tofail University has strategic Collaborations with esteemed Firms for 2025. The partnerships with respected organizations, aimed at enhancing opportunities for students and bridging the gap between academia and industry:





































































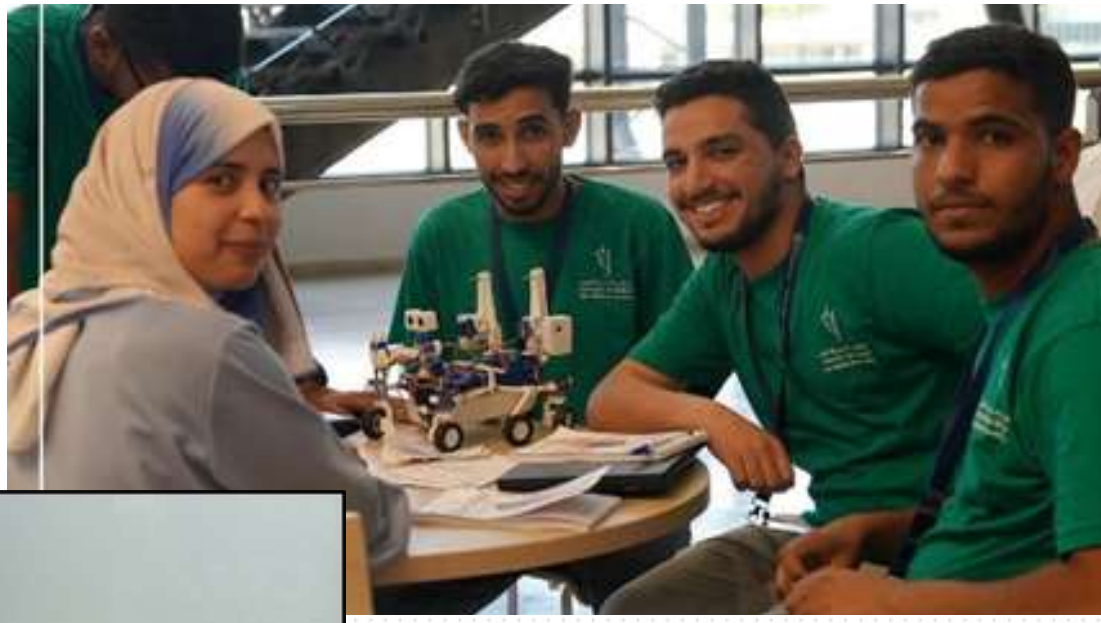
Employment Initiatives

Incubators

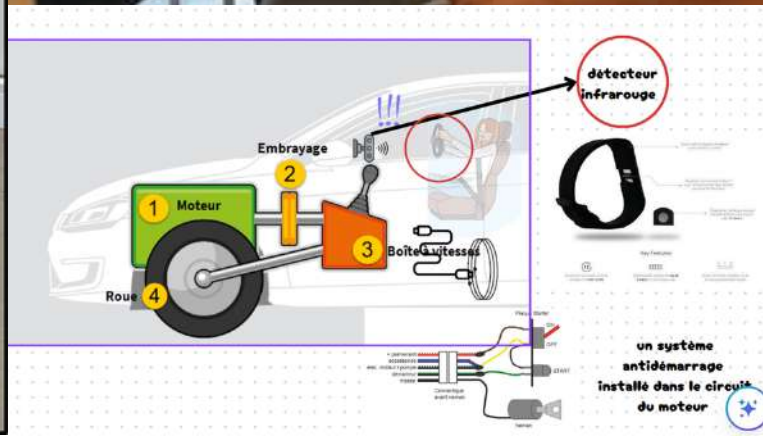
Fab Lab

At Ibn Tofail University in Morocco, the Fab Lab serves as an innovative workspace designed to stimulate creativity, prototyping, and experiential learning in the academic community. This facility offers students and researchers access to cutting-edge equipment, including 3D printers, laser cutters, and CNC machines. By encouraging cross-disciplinary cooperation, the lab enables users to engage in projects spanning various fields, from engineering to artistic endeavors.

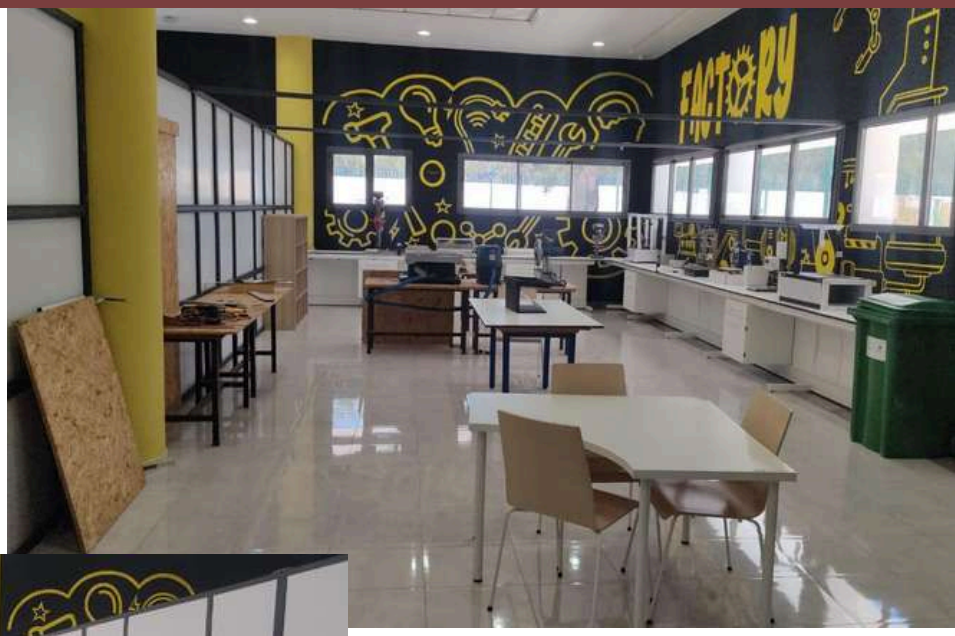
The Fab Lab provides a platform for students to work on academic assignments, conduct research, and develop entrepreneurial ideas, thereby enhancing their practical abilities and nurturing an environment of innovation and experimentation. To further support learning and collaboration within universities. Fab Lab often hosts events and workshops, providing students with opportunities to connect with industry professionals and potential employers.



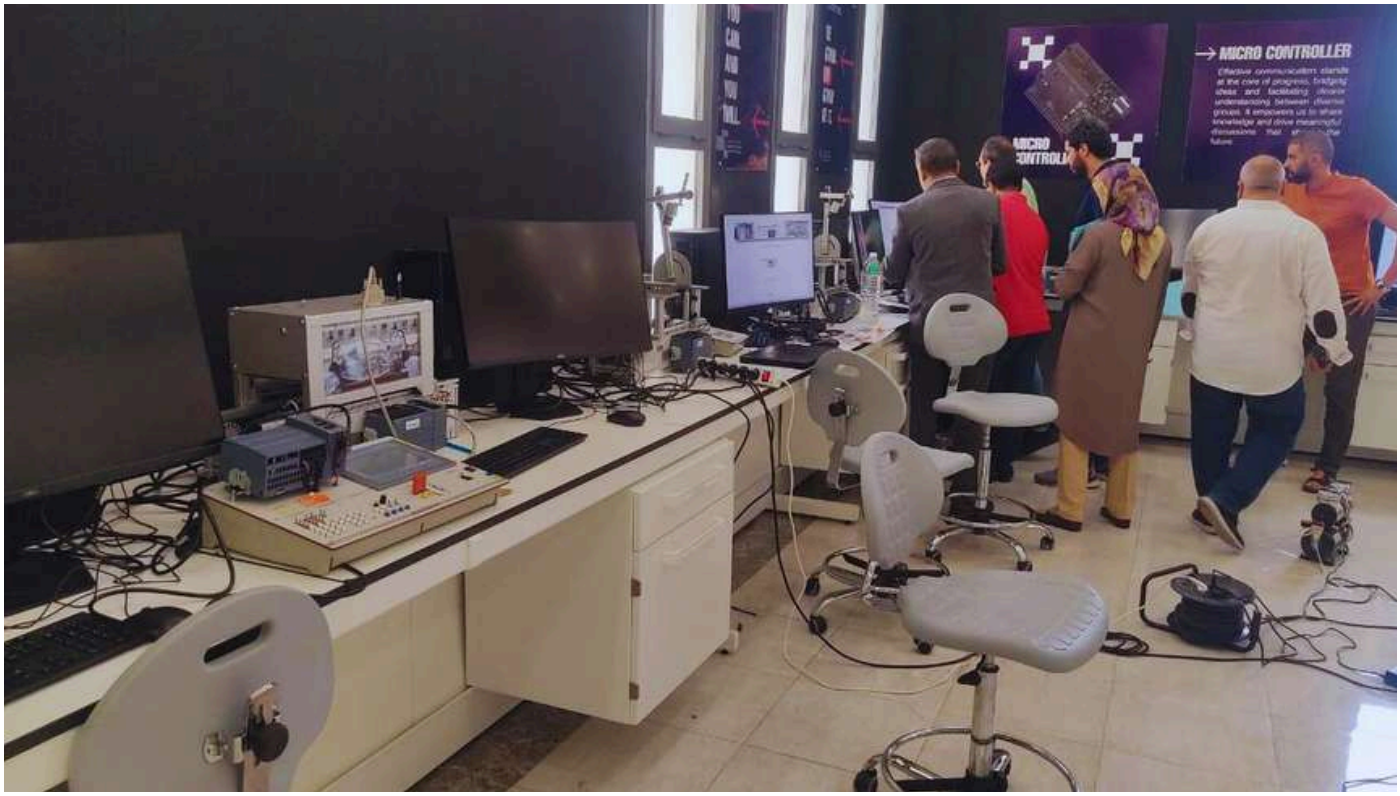




Employment Initiatives







Employment Initiatives

Robotic and renewable energy Club

The Robotics and Renewable Energy Club (CRER), established in March 2011 by students from the ENSA's Electrical Engineering program, aims to enhance technical skills and research in electrical engineering while fostering inclusion in the job market. By providing members with hands-on experience in electricity and electronics, foundational knowledge in the field, and opportunities for personal and professional development, the club prepares students for diverse career paths. It also emphasizes communication skills and teamwork, which are essential for successful integration into the workforce. Furthermore, through organizing scientific events and industry visits, CRER connects members with potential employers and industry trends, helping to bridge the gap between academic knowledge and real-world applications. here are some pictures of club members presenting tier projects:





Employment Initiatives

Start up

Ibn Tofaîl University has made significant strides in fostering innovation and entrepreneurship through its vibrant ecosystem of startups across various fields, including art, engineering, digital and eco-friendly initiatives. Recently, the university hosted a transformative hackathon that brought together students, faculty, and industry experts, resulting in the integration of numerous startups into the Ibn Tofaîl ecosystem.



From Fab Lab to Flight: First Prize in Robotics and Artificial Intelligence Competition by innovating with Smartphone-Enabled Quadcopters

Projects

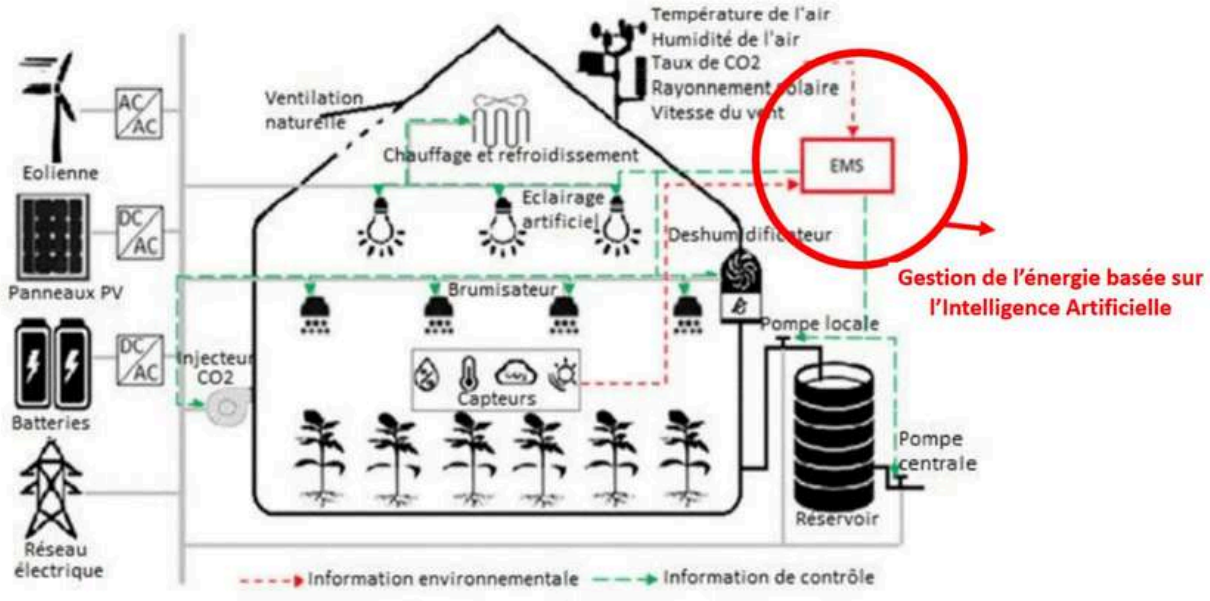
The Advanced Control System for Intelligent and Sustainable Operation of Connected Agricultural Greenhouses

Project Partners: CNRST- MESRSI- UM6P- OCP

Description:
Among 61 projects selected under the Multi-Thematic Research Call for Projects (APRD), jointly initiated by the Ministry of Higher Education, Scientific Research and Innovation, the OCP Foundation, Mohammed 6 Polytechnic University, and the National Center for Scientific and Technical Research, the project of the Advanced Systems Engineering Laboratory (LISA) stands out. This project, spread over the period 2021-2024, is entitled "Advanced control system for intelligent and sustainable operation of connected agricultural greenhouses connected to hybrid micro-grids."

Project Objectives:

This project aims to develop and validate a smart management product for a network of greenhouses connected to a hybrid micro-grid, based on an innovative centralized predictive control algorithm, taking into consideration stochastic production models and advanced prediction models based on artificial intelligence.
The entire system control platform is based on machine learning to provide real-time management of the entire system. It should enable the real-time collection and analysis of greenhouse bioclimatic indicators. The control platform includes control and decision-making modules developed and optimized for heterogeneous energy distribution systems that can accommodate a large number of renewable energy sources, smart greenhouses, energy storage devices, pumps, water tanks, smart meters, and sensors. The objective is to support the transition to precision and smart agriculture by developing integrated information and control technologies based on both consistent data analysis and high-performance control systems.



Projects

Phosphogypsum Amendments: a Promising Solution to Mitigate the Effects of Salt Stress in Citrus Orchards

Projet Description:
This project seeks to reduce soil salinity by replacing gypsum with phosphogypsum, a by-product of phosphoric acid production. The initiative, titled "Phosphogypsum Amendments: A Promising Solution to Mitigate Salt Stress in Citrus Orchards," focuses on leveraging phosphogypsum as an effective soil amendment to combat salinity issues in citrus orchards. This approach not only addresses the problem of soil degradation but also contributes to the sustainable management of industrial by-products, offering a more eco-friendly solution to agricultural challenges.

Partners:
- UNIVERSITY MOHAMMED VI POLYTECHNIC (UM6P);
- THE NATIONAL CENTRE FOR SCIENTIFIC AND TECHNICAL RESEARCH (NCSTR);
- THE MINISTERY OF HIGHER EDUCATION, SCIENTIFIC RESEARCH AND INNOVATION (MHESRI);
- IBN TOFAIL UNIVERSITY (ITU).

Scientific, Environmental, and Economic Impact:
The aim of this project is to use phosphogypsum, a by-product of the production of phosphoric acid, which is widely available in Morocco, as an alternative to gypsum to reduce soil salinity.
However, such amendment can only be considered if the harmlessness of the products has been validated. To reduce the potential presence of toxic elements, bioremediation will be explored by selection of microorganisms and/or plants capable of metabolizing heavy metals in soil, tree and fruit as a result of the application of phosphogypsum.



Projects

Energy Recovery from Organic Waste through Methanization, Gasification, and Combustion (VLORMAC)

Project Hosting Institution:
Institute of Combustion, Aerothermics, Reactivity and Environment (ICARE), Orléans, France

Project Overview:
This project is a collaborative effort between the Institute of Combustion, Aerothermics, Reactivity and Environment (ICARE) in Orléans, France, and Ibn Tofail University in Kenitra, Morocco.

Partners:
. ICARE: Institute of Combustion, Aerothermics, Reactivity and Environment, Orléans, France
. Ibn Tofail University, Kenitra, Morocco

Project Objectives:
The scientific objectives of the VLORMAC project are as follows:

- To develop renewable energies by utilizing biomass and waste, while reducing greenhouse gas emissions;
- To decrease waste volume and reduce the pollutant load of digested waste;
- To deepen understanding of gasification and methanization systems to improve the management of bioprocesses;
- To characterize olive residues in terms of their thermo-physical properties;
- To compare energy recovery processes—gasification, methanization, and direct combustion—both energetically and economically, to select the most appropriate process;
- To characterize the combustion of the obtained products in terms of heat quantity and pollutant emissions based on the composition of the produced gases.
-

Human Resources:

- SETIME Laboratory, Renewable Energies and Materials Team, Faculty of Sciences, Kenitra, Morocco: Professors, PhDs, Doctoral Candidates, and Students.
- ICARE Laboratory, CB2 team – Biomass Combustion and Biofuels

Outlook and Future Perspectives:
The project aims to treat olive oil waste in an integrated way by combining the biochemical recovery of margines by methanization (liquid fraction) and the thermochemical conversion of the resulting digestate and olive groats (solid fraction) by combustion and gasification. This approach respects the objectives of the circular economy, as it results in zero waste. We propose to study the possibilities of valorizing agricultural and agri-food residues, and in particular waste from olive oil production. The concept is to produce biogas and syngas from these wastes for use as biofuels in boilers, either on an industrial scale, or on the scale of small groups of dwellings (hamlets). The aim of the VALORMAC project is to determine the optimum conditions for using these residues to produce biofuels and burning them in specific boilers, in order to verify burner performance.

Projects

Olive tree adaptation

Project title:
Olive tree adaptation to climate change: Using genomics and association genetics for varietal selection (ClimGenOlive)

Aim of the project:
Understanding the biological processes involved in flowering (induction, flowering, cold and heat requirements, flowering rate) and defining the main phenological traits involved in flowering, enabling variety characterization in terms of cold and heat requirements.
.Characterizing drought adaptation mechanisms and defining the main structural and functional traits ensuring the maintenance of a water status that preserves the integrity of the tree's physiological functions and productive state.
Exploiting the new tools of genomics and association genetics to identify the genomic regions associated with the main phenotypic traits linked to cold/flowering requirements and drought tolerance in order to define a combination of genomic markers associated with adaptive traits useful for characterizing local genetic resources and selecting the genotypes best adapted to changes.

Funding partners:
Ministry of Higher education, Scientific Research and Innovation
Hassan II Scientific and Technical Academy – Rabat
Cadi Ayyad University – Marrakech
Ibn Tofail University – Kénitra
National Institute for Agronomic Research – Rabat

Scientific, environmental, and economic impact:
In terms of research, better understanding of biological processes linked to flower induction, dormancy, cold and heat requirements and flowering rate.
Identification of genetic and environmental effects linked to flowering dates of Mediterranean varieties.
Establishment and validation of relationships between cold and heat requirements and flowering.
Identification of eco-physiological mechanisms explaining differential varietal behavior with respect to drought.
Contribution to the exploration of the genomics of adaptation through the identification of genes and allelic variants involved in the adaptation of olive trees to winter cold and water deficits.
Identification and validation of a combination of genomic markers associated with phenotypic traits related to olive adaptation to winter cold deficit and summer water deficit.
In terms of application:
Classification of 200-205 Mediterranean varieties according to their flowering dates, cold requirements for flowering and drought tolerance.
Selection of elite varieties best adapted to winter cold and summer water deficits.
Definition of a combination of reliable genomic markers for the genetic characterization of olive tree genetic resources.
Identification of the most decisive traits that can be used in the selection program for genotypes adapted to water deficit.
Characterization of the phenotypic plasticity of the Moroccan Picholine variety along the north-south gradient and in correlation with bioclimatic stages, enabling the defining of adaptation maps for the olive tree.

Projects

Expertise in Scaling Problems

Description of the project:
The aim of this applied research project, in partnership with ONEE, is to address the problem of scaling and the control and use of water with a high scaling potential by setting up a pilot treatment process and identifying and assisting in the implementation of preventive and curative measures to control the problem.
This project aims to tackle the problem of scaling in its various aspects:
. Preventive: adapting water supply systems and their operation and equipment to water quality, particularly those with a high potential for scaling;
. Curative: identification and assistance with the implementation of various intervention, cleaning, and regeneration techniques for clogged systems;
. Development and implementation of appropriate specific treatments, taking into account water quality and the national context.

Funding partner:
Office National de l'Electricité et de l'Eau Potable (ONEE – Morocco)

Scientific, environmental, and economic impact:
- Mastery of innovative drinking water treatment technologies and assessment of the qualitative, quantitative and energetic performance of these processes;
- Design of a pilot scaling treatment unit adapted to ONEE centers and to the Moroccan context;
- Ensuring the efficiency and performance of drinking water supply systems, and consequently ensuring water security: sufficient drinking water flow to meet the needs of the population;
- .Producing water free of viruses and bacteria, and with mineral content in line with World Health Organization (WHO) and Moroccan drinking water standards.



Projects

Organic food systems as models for sustainable food systems in Europe and North Africa

Project Description:
SysOrg aims to identify intervention and entry points to enable a transformation process towards resilient and sustainable food systems. It also seeks to identify how pathways to increase sustainable consumption and food production could be successfully designed. To this end, it is necessary to better understand food systems, including the multitude of actors involved, and to identify critical points within the system. The assumption is that food systems have common intervention and entry points to enable transformation processes that are transferable but need to be adapted to the regional level. Thus, the following questions will be addressed:
– What are the common intervention and entry points within the food system to enable a transformation process towards resilient and sustainable food systems?
– How can pathways for increasing sustainable consumption and food production be successfully designed throughout the system?
– What are the reasons, motivations or drivers for actors to opt for the most sustainable solution?
– What are the intervention and entry points for developing, consolidating and disseminating improved organic food and farming, reducing waste and moving towards sustainable diets?
– What are the critical points for bringing these perspectives together in a systematic approach? This is done by mapping and analyzing five case territories (Copenhagen, Cilento, North Hesse, Warsaw, Kenitra).
Four perspectives have been adopted:
– System transition
– Evolution towards sustainable diets
– Improving organic food and farming
– Transdisciplinary waste reduction
This multiple transnational case study will involve a multi-stakeholder approach. SysOrg will result in improved and locally adapted strategies for the transformation of food systems across Europe and North Africa into sustainable, resilient and resource-efficient food systems with less environmental impact and high socio-cultural acceptance.





Projects

Sustainable biomass conversion into bioenergy through pyrolysis (PyroBioFuel)

Moroccan Coordinator: Prof. Hassan El Bari – Ibn Tofail University

Description of the project:
Fast pyrolysis optimisation, development of processes to convert pyrolysis' products to fuels, and model-based decision-making tools to support process development and performance validation are representing the main objectives of the project. This will be achieved through robust pyrolysis technologies delivering constant product quality, and unique catalytic units based on integrated Fischer-Tropsch synthesis (FTS) and hydrocracking reactor (HCR) microreactors (MCRs) that can be flexibly implemented for compact and efficient biofuel processing. The programme involves 5 working packages (WPs) integrated together to enhance the biomass to fuel conversion pathway using novel conversion technologies and innovative digital tools. PyroBioFuel will utilise waste biomass as feedstock for the pyrolysis process (e.g., date palm waste, cotton stalks, maize straw, olive wastes).

Funding Organism: Ministery of Higher Education and Innovation

Project Impacts:
Biomass pyrolysis projects, on the micro level promotes women-led small investments, job creation and rural communities' development.
The social impact assessment will include the evaluation of all impacts on humans and on all the ways in which people and communities interact with their
surroundings, focusing on benefits to women empowerment and gender equality.
PyroBioFuel will validate new biomass conversion technologies. The modular nature of the technologies will reduce capital cost and allow their scalability for small, decentralized units, easy to implement in off-grid rural and remote areas.
socio-cultural, economic, and biophysical

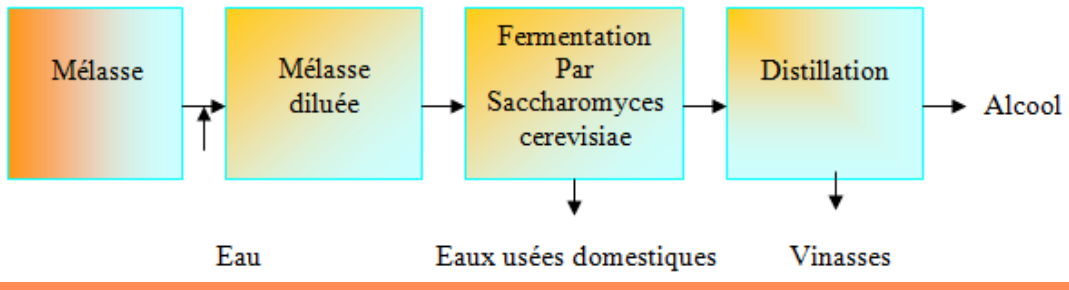


Projects

Treatment of High-Pollutant Industrial Effluents through Biomethanation

Project Context:
The Rabat-Salé-Kénitra (RSK) region, known for its agriculture, is experiencing continuous demographic and economic growth, and hosts numerous agro-industrial units. These industries are notorious for being major polluters. For instance, the effluents from the Société de Transformation des Mélasses du Gharb (Sotrameg) generate industrial effluents with high concentrations of Chemical Oxygen Demand (COD) and Biochemical Oxygen Demand (BOD5), around 60,000 mg/L and 40,000 mg/L respectively. When these industrial effluents are discharged into the sewer network, they mix with domestic wastewater, negatively affecting the quality of groundwater and soil.
The goal of this project is to study the treatment and valorization of industrial effluents from a food-grade alcohol production unit using molasses, a by-product of sugar refining. The project will explore the feasibility of biomethanation to produce biogas and a biofertilizer product that can be used in agriculture.
Methanation produces ethanol through mesophilic fermentation of molasses using Saccharomyces cerevisiae.
Sotrameg, the "Société de transformation des mélasses du Gharb," has been operating in the Gharb region of Morocco since 1975. It is involved in the production of industrial alcohols and liquefied gases. It is the only ethanol distillery in Morocco, producing ethanol from beet and sugarcane molasses. Sotrameg is unique in combining the production of ethyl alcohol with that of liquid carbon dioxide.
Ibn Tofail University, particularly the Separation Processes team of the Advanced Materials and Process Engineering Laboratory, is studying the anaerobic digestion process of vinasse...





Projects

PRIMA: Safe- Sustainable Water reuse practices improving safety in agriculture, food and Environment"

Project Description:
The project aims to improve water resource management and wastewater treatment to support sustainable agriculture in the face of growing global food security challenges. Due to pressures from population growth, climate change, and water scarcity, the goal is to find affordable and efficient solutions to preserve water resources while minimizing negative impacts on soil and agricultural production.

Partners:
- Università degli Studi della Basilicata
- Istituto Ricerca sulle Acque – Consiglio Nazionale delle Ricerche
- Sapienza Università di Roma
- Hellenic Agricultural Organization ELGO-DIMITRA (Institute of Plant Breeding and Genetic Resources)
- The Catalan Institute for Water Research
- Université de Montpellier
- Institut Agronomique et Vétérinaire Hassan II
- Water Researches and Technologies Center
- Lebanese Development Network
- Université Djillali Liabes
- Faculty of Sciences of Sfax
- Université Ibn Tofail

Scientific, Environmental, and Economic Impacts:
The project addresses water scarcity, climate change, and land degradation. Its goal is to optimize water use in agriculture while minimizing environmental impact.
This includes reducing micropollutants, managing soil salinity, and improving the quality of irrigation water. These efforts aim to enhance food security, protect soil biodiversity, and support microorganisms essential for sustainable agricultural production. The project will also help reduce the costs associated with wastewater management systems, benefiting farmers and local communities.

PRIMA
PARTNERSHIP FOR RESEARCH AND INNOVATION IN THE MEDITERRANEAN AREA

Projects

The project of Hybrid Biochemical and Thermochemical conversion of Slaughterhouse Biowaste for Renewable Energy production (BIOTHEREP)

Funding Partners : Leap-Re program

Description:
The BIOTHEREP Circular is a project that aims to create novel and economically viable integrated processes that will help convert slaughterhouse activities into environmentally friendly sustainable practices and reduce the risk of soil, climate, and water pollution.
The project, set to unfold between 2022 and 2024, aims to develop an integrated strategy to produce bioenergy from slaughterhouse wastes and implement solutions that respond concretely to the global and regional sustainable development objectives from a circular economic perspective.
The project's primary ambition is to propose effective, optimized, and innovative multidisciplinary technological solutions to the current problems of SHW management that seriously affect climate, soil, and water resources.

What is the expected impact of the project?
Among the project's primary outcomes will be the creation of an integrated waste management and energy generation system that is ideal for slaughterhouses.
The slaughterhouses in Africa might employ this method directly, or it might be extended to other slaughterhouses that deal with comparable issues like improper disposal of waste heat or inadequate energy supply, particularly in remote regions.
Overall, in BIOTHEREP, several sustainable development goals are targeted. The project has an environmental and social impact on the African continent and responds to population needs. By implementing this integrated approach, the regional slaughterhouse sector can strengthen its competitiveness and growth by becoming more energy efficient. Results obtained could be used beyond this project for investigation in further R&D or international development projects.

LEAP-RE

Events

From A to Z: Internship and Employment in the Digital Era in Morocco

On September 22, 2024, the Foreign Students Club of ENCG-Kenitra organized a remarkable event titled "Masterclass Employment Morocco". This online session, held via Google Meet at 7:00 PM, served as an invaluable resource for students and young professionals navigating the complexities of employment and internships in Morocco, particularly in the context of the ever-evolving digital era. However, it is important to emphasize that the initiative's success was not solely due to the efforts of the organizing club but also to the spirit of collective action that inspired the event. It was a powerful demonstration of how collaboration, shared knowledge, and solidarity can positively impact individuals and society at large.

The theme of the masterclass, "From A to Z: Internship and Employment in the Digital Era in Morocco," resonated deeply with attendees, as it addressed the challenges and opportunities in today's job market. Through a thoughtfully curated program, the event aimed to empower participants by providing them with practical tools and strategies to succeed professionally. The topics covered were diverse and targeted, reflecting the multifaceted nature of career development in the modern age:

- How to effectively search for jobs and research companies.
- The distinction between foreign employment contracts and Anapec contracts, which is particularly relevant in a competitive and globalized job market.
- Understanding residence permits for various categories such as students, workers, and self-employed individuals—a crucial issue for foreign students and expatriates.
- Leveraging LinkedIn as a professional platform for networking and career advancement.
- Crafting a professional CV that stands out to recruiters.
- Highlighting extracurricular experiences to showcase a well-rounded profile.
- Writing impactful cover letters that convey passion and suitability for roles.
- Preparing for job interviews with confidence and professionalism.
- Salary negotiation techniques to ensure fair compensation.
- Building and managing professional relationships with supervisors, colleagues, and employees—essential skills for workplace success.

The masterclass was led by Waldymir LIMA, co-founder of DIGITALIMA, who brought his expertise and insights to the session. Through his engaging delivery and practical advice, he provided participants with a roadmap to navigate the Moroccan job market. His presence underscored the importance of mentorship and the sharing of knowledge, further highlighting the collective nature of this initiative.



Events

Ibn Tofail University Hosts the First International Conference on Technology, Innovation, and Education

The Faculty of Science at Ibn Tofail University successfully hosted the First International Conference on Technology, Innovation, and Education on Tuesday, December 16, 2025, at the Amphi Rouge, Faculty of Science, Kenitra. Held under the theme "AI's Dual Impact: Changing the Way We Do Science and Education," the conference brought together scholars, professors, and researchers from Morocco, the United Kingdom, and Brazil for a full day of high-level academic exchange and reflection on the transformative role of Artificial Intelligence in higher education and scientific research.

The conference agenda featured a rich and diverse program, including a keynote address and several thematic panels addressing critical and timely issues. Discussions focused on ethics and governance in higher education, AI's role in employability, and the future of academic writing, scientific integrity, and assessment. Additional panels explored AI in ESP, business, and employability, as well as student learning, critical thinking, and learning dynamics, highlighting both the opportunities and challenges associated with integrating AI into teaching, research, and academic practice.

Through engaging presentations and interactive discussions, participants examined the dual impact of Artificial Intelligence, emphasizing the need to balance innovation with ethical responsibility and academic integrity. The conference provided a valuable platform for interdisciplinary dialogue and international collaboration, reinforcing Ibn Tofail University's commitment to innovation, research excellence, and forward-looking educational strategies. Participants expressed a high level of satisfaction with the organization, the quality of the contributions, and the relevance of the topics discussed, making this first edition a memorable and impactful academic event that strengthens the university's position as a key actor in the evolving landscape of science and education.
This international conference strongly aligns with the United Nations Sustainable Development Goals, particularly Quality Education, by promoting innovation in teaching, learning, and research through the responsible integration of Artificial Intelligence in higher education. It also contributes to Industry, Innovation and Infrastructure by fostering dialogue on technological advancement and digital transformation in science and education. Moreover, the focus on ethics, governance, employability, and academic integrity supports Decent Work and Economic Growth by enhancing future-ready skills and workforce preparedness, while reinforcing Peace, Justice and Strong Institutions through discussions on ethical AI, transparency, and responsible academic practices.







Events

Ibn Tofail University Hosts the First International Conference on Technology, Innovation, and Education

On December 2, 2025, at 2:00 PM, the Code 212 Center at Ibn Tofail University will host an ambitious Innovation Camp. Organized in partnership with Injaz Al-Maghrib and Crédit Agricole du Maroc, this event is designed to harness the creative energy of students to solve real-world financial challenges using cutting-edge technology. The central challenge of the camp focuses on a critical pillar of the Moroccan economy: the rural entrepreneur. Participants are tasked with developing strategies for how Crédit Agricole du Maroc can leverage Artificial Intelligence (AI) to analyze the behaviors of rural business owners. The goal is to design personalized financial solutions that not only meet banking needs but also maximize the social and economic impact within rural communities.

This initiative aligns perfectly with the university's mission to bridge the gap between academic learning and professional practice. By placing students at the heart of the "FinTech" revolution, the camp encourages them to think critically about data ethics, predictive modeling, and the unique socio-economic landscape of the Moroccan countryside.

To incentivize high-level innovation, the organizers have announced a special prize for the winning team. This reward recognizes the most feasible, impactful, and innovative AI-driven solution, providing the winners with a significant boost to their professional and entrepreneurial profiles.

Beyond the competition, this event serves as a platform for networking and mentorship. Students will have the opportunity to interact with experts from the banking sector and entrepreneurship coaches, fostering a spirit of leadership and social responsibility. This Innovation Camp represents a vital step toward creating a more inclusive and technologically advanced financial future for Morocco.

The Innovation Camp at the Code 212 Center directly advances several United Nations Sustainable Development Goals (SDGs) by transforming how rural entrepreneurs interact with the financial system. By challenging students to develop AI-driven behavioral analysis, the event supports Industry, Innovation, and Infrastructure, specifically targeting the expansion of financial services to small-scale enterprises. It also acts as a powerful catalyst for Decent Work and Economic Growth by promoting technology-led entrepreneurship and innovation that can formalize and grow rural businesses. Furthermore, by using Artificial Intelligence to create personalized financial profiles for underserved populations, the initiative contributes to No Poverty and Reduced Inequalities, bridging the digital and financial divide that often leaves rural communities behind. This collaboration between Ibn Tofail University, Injaz Al-Maghrib, and Crédit Agricole represents a concrete application of Partnerships for the Goals, demonstrating how public-private academic alliances can build a more inclusive and resilient economy.





Events

Maghrebna Innovation Awards 2030: Celebrating Talent, Creativity, and Sustainable Innovation

The 4th edition of the Maghrebna Innovation Awards 2030 marks a significant milestone in celebrating creativity, innovation, and forward-thinking talent in Morocco. Organized by the Center of Excellence of the Faculty of Languages, Literature, and Arts at Ibn Tofail University, in collaboration with Maghrebna Innovation and Challenge 2030, this highly anticipated event brings together academics, innovators, entrepreneurs, and students around a shared vision: shaping a more innovative and inclusive future.



Held at CODE 212, a symbolic hub for innovation and digital creativity, the event offers an inspiring platform for showcasing groundbreaking projects and exceptional talents. This year's theme, "Talents in the Spotlight & Innovation," places a strong emphasis on recognizing individuals and initiatives that combine creativity with real-world impact. Through project presentations, discussions, and networking opportunities, participants are encouraged to exchange ideas, build collaborations, and celebrate Moroccan ingenuity in all its forms.



Beyond awards and recognition, the Maghrebna Innovation Awards 2030 serve as a space for inspiration and empowerment. The event highlights the importance of interdisciplinary approaches that blend language, culture, arts, and technology to address contemporary challenges. By fostering dialogue between academia and the innovation ecosystem, it strengthens the role of universities as key drivers of societal transformation.
Importantly, this event aligns closely with the United Nations Sustainable Development Goals. By promoting quality education and lifelong learning, encouraging innovation and resilient infrastructure, supporting youth empowerment and decent opportunities, and fostering partnerships between institutions and innovators, the Maghrebna Innovation Awards 2030 contribute to sustainable development at both local and national levels. Through innovation-led solutions and talent development, the event reinforces the idea that creativity and collaboration are essential pathways toward a more sustainable and inclusive future.

Events

Ibn Tofail University Hosts Strategic Coordination Meeting on Continuing Educationand Digital Innovation

In a move to strengthen its leadership in lifelong learning and digital governance, Ibn Tofail University held a high-level coordination meeting focused on continuing education. The event brought together academic and administrative leaders from 11 faculties and institutions affiliated with the university.
The meeting served as a platform for evaluating current practices and exploring new pathways to enhance the quality, efficiency, and innovation of university management. The focus was particularly placed on the strategic development of the university's digital ecosystem in support of continuing education.
Participants engaged in in-depth discussions and knowledge-sharing sessions that highlighted innovative digital tools designed to streamline university administration and training programs. Among the digital solutions presented were:

- **The "Training Platform" (Plateforme de Formation)**: A centralized tool that allows for efficient course management, registration tracking, and real-time monitoring of learning paths.
- **"EDM" (Electronic Document Management)**: A solution enhancing transparency and traceability in institutional operations.
- **"E-Inscription" and "E-Certification" Modules**: Tools that simplify registration processes and the secure issuance of diplomas and training certificates.
- **"Business Intelligence" Tools**: Analytics-driven platforms to support data-informed decision-making in continuing education planning.

This initiative forms part of Ibn Tofail University's broader strategic vision to develop a smart university ecosystem that ensures inclusive, high-quality, and future-oriented education. With over 15 years of experience in continuing education, the university continues to innovate and reinforce its commitment to transparent governance and pedagogical excellence.
The coordination meeting also fostered inter-institutional collaboration, encouraging the alignment of practices and the mutualization of resources across the university's academic structures.

Through these digital advances, Ibn Tofail University seeks not only to enhance internal operational efficiency but also to offer lifelong learning opportunities that are more accessible and responsive to socio-economic needs. This reflects the university's ambition to position itself as a national and regional hub of academic excellence and innovation.
The outcomes of the July 3rd meeting will inform the upcoming roadmap for continuing education and digital transformation, with plans to pilot the discussed tools across various institutions starting this academic year. By reinforcing its digital infrastructure and promoting a culture of innovation, Ibn Tofail University reaffirms its role as a forward-looking institution ready to shape the future of education in Morocco and beyond.



Events

Injaz Al-Maghrib & Ibn Tofail: Forging Winners, Fueling Innovation

Inside Ibn Tofail University's library, a space usually filled with quiet study transformed into a living engine of creativity. Students from different disciplines, backgrounds, and even countries gathered not to compete, but to collaborate, challenge, and connect. Girls and boys, Moroccan and international students, engineers and visionaries, each one came with something more than a project. They came with the belief that their ideas could make a difference. And they did.

The Junior Enterprise Competition, held in partnership with Injaz Al-Maghrib, was not just another university event. It was a profoundly real human experience, raw, vibrant, and utterly genuine. Participants didn't stand behind tables with posters. They stood behind dreams that had taken weeks of work, trial, error, and discovery. Their projects tackled real challenges: water scarcity, agriculture, sports performance, and more. But what made these solutions powerful wasn't just their design; it was the empathy behind them.

One by one, teams pitched their ideas to a jury of professionals who came not to judge, but to elevate. The jury listened carefully, asked tough questions, and shared what no textbook could teach: real-world guidance. They reminded everyone that a great idea is not enough; it needs a clear path, a purpose, and the will to adapt. Many students walked away with more than feedback. They left with a roadmap, a renewed vision, and a sense of responsibility.

Among the many standout teams, two projects sparked particular excitement. MOTIONSYNC, developed by students from the Master of Excellence in Artificial Intelligence and Connected Objects and the IMS, was awarded Best Junior Enterprise. With its intelligent motion-based solution, it proved that innovation can be both smart and simple. AGRONOBOT, meanwhile, won the Jury's Coup de Cœur, offering an elegant robotics-based solution to agricultural efficiency, co-created by students from Mechatronics, Embedded Electronics, and Artificial Intelligence. These projects weren't just brilliant, they were built on real needs, shaped by shared values, and designed for human impact.

But beyond trophies and titles, the heart of this event was something deeper: teamwork, diversity, and mutual respect. In every group, you saw more than a skillset; you saw a story. Girls taking the lead in coding, international students bringing global perspectives, and future engineers collaborating like artists. It wasn't about whose voice was loudest; it was about how each voice mattered.

Around the pitches, workshops and talks sparked even more inspiration. Students discovered that entrepreneurship is not only about market fit; it's also about mindset. Resilience. Humility. The courage to improve, even after failure. They were reminded that what they are building is bigger than any classroom: they are designing solutions for lives they may never meet.





Events

Institutional Meeting Between Ibn Tofail University and ALTEN: Toward aStrategic Partnership for Training and Innovation

On September 12, 2025, the Interim President of Ibn Tofail University, Professor Mohamed Ebn Touhami, received a delegation from ALTEN, a global leader in engineering and IT consulting. This institutional meeting reflects the university's commitment to strengthening its collaboration with key socio-economic actors, thereby reinforcing its role in skills development and technological innovation at both the national and international levels.

The discussions focused on exploring potential avenues for cooperation that could establish a long-term and mutually beneficial partnership between ALTEN and Ibn Tofail University. Particular emphasis was placed on the establishment of a partnership agreement encompassing several strategic areas: joint training initiatives, student internship opportunities within ALTEN's structures, and support for graduate employability. Such collaboration aims to further bridge the gap between academia and industry by offering students concrete learning experiences and enhanced professional prospects.

This partnership is fully aligned with Ibn Tofail University's broader strategy of development and international openness. By collaborating with a globally recognized company such as ALTEN, the university strengthens its commitment to improving the quality of education, promoting innovation, and enhancing the professional readiness of its graduates. The initiative also contributes to advancing the Sustainable Development Goals, particularly Quality Education, by fostering relevant skill development, and Partnerships for the Goals, by promoting effective cooperation between academic institutions and the industrial sector.



Events

Distinction for Ibn Tofail University Students in National Innovation Competition

On 23 September 2025, students from the Master of Excellence in Artificial Intelligence and Connected Objects (Centre of Excellence in Automotive and Aeronautics, Faculty of Sciences) at Ibn Tofail University achieved a remarkable success by winning the prestigious Innovation Award granted by Boeing during the national Company Program 2024-2025 competition organized by INJAZ Al-Maghrib in Casablanca. This achievement highlights the exceptional talent, creativity, and dedication of our students in the fields of AI and connected technologies.
Following their outstanding performance, on 26 September 2025, a celebratory meeting was held at Ibn Tofail University with the distinguished students: Mouad Azentar, Houssam Jardini, and Mamadou Ly. The session, led by the university's administration, recognized their accomplishment and celebrated their contribution to raising the university's profile nationally and internationally.

This recognition underscores Ibn Tofail University's commitment to fostering innovation, applied research, and excellence in emerging technologies. It exemplifies how academic training combined with practical challenges can empower students to develop solutions that have real-world relevance, reflecting the university's strategic focus on nurturing future leaders in science, technology, and innovation.

This event aligns with the Sustainable Development Goals: Industry, Innovation, and Infrastructure, highlighting the university's role in promoting innovation, technological advancement, and high-quality education. It also supports Quality Education by nurturing students' skills, creativity, and academic excellence, and Partnerships for the Goals by fostering collaboration between Ibn Tofail University, industry partners such as Boeing, and INJAZ Al-Maghrib. By supporting students' creative projects and industry partnerships, the university helps build resilient infrastructure, advance innovation, enhance education, and develop sustainable industrial capacities.



Events

3rd International Congress on Corrosion Inhibitors and the Environment

Partners : CNRST – Servichim – BioLogic – Hassan II Academy of Sciences and Techniques – ENSAK – ESTK – LABO TEST – ENSCK- AMACOPE

The 3rd International Congress on Corrosion Inhibitors and the Environment was set to take place at Ibn Tofail University in Kenitra, Morocco, on December 11-12, 2024. This prestigious event was organised by the Laboratory of Organic Chemistry Catalysis and Environment (LCOCE) in collaboration with various partners from within and outside Ibn Tofail University. The event brought together leading researchers, scientists, engineers, and industry professionals to explore the latest advancements in corrosion inhibitors and their significant role in environmental sustainability.

Themes of the Congress

The congress addressed a variety of critical topics that intersect with environmental challenges, renewable energy, and material science. The key themes include:

- Corrosion Inhibitors: Formulation, Cooling Circulation, and Modeling

Experts delved into the formulation and application of corrosion inhibitors in industrial settings, particularly in cooling systems, and explore new modeling techniques for their effectiveness.

- Renewable Energy

In line with the global shift towards sustainable energy sources, discussions focused on the role of corrosion inhibitors in enhancing the efficiency and longevity of renewable energy systems, such as solar and wind energy.

- Materials and Their Applications

Advances in materials science and the development of innovative, corrosion-resistant materials were highlighted.

- Organic Compounds for Photonic and Optoelectronic Applications

The congress explored the emerging field of organic compounds and their potential in photonics and optoelectronics, with implications for the development of advanced technologies in communication and energy.

- Environment and Water Treatment

With a focus on environmental protection, the congress addressed the latest techniques in water treatment and management, particularly in relation to corrosion and its impact on water quality.





Harnessing Nature: Phytotherapy for Stress Relief and Cognitive Enhancement

In a world increasingly marked by stress and mental fatigue, many are turning to natural remedies for relief. Phytotherapy, the use of plant-based treatments, has emerged as a promising solution. Researchers at Ibn Tofail University in Kenitra have recently conducted a groundbreaking study, presented on October 1, 2024, exploring the potential of herbal remedies in alleviating mild stress and improving cognitive performance.

The Science Behind Phytotherapy

Phytotherapy involves harnessing the therapeutic properties of plants to support physical and mental health. Unlike synthetic medications, herbal remedies often have fewer side effects and can provide holistic benefits. With stress and cognitive challenges becoming global concerns, the potential of medicinal plants is garnering significant scientific interest.

The Researchers and Their Mission

A dedicated team of experts—Imane Kherrab, Miloud Chakit, Amina Ez-Znafry, Abdelhalem Mesfioui, and Aboubaker Elhessni—led this study with a clear vision: to offer natural, effective alternatives to conventional treatments for stress and cognitive impairments. Their work focused on plants known for their calming and brain-boosting properties, aiming to validate these remedies through rigorous scientific methods.

Looking Ahead

The research team from Ibn Tofail University hopes their work will inspire further studies and investments in phytotherapy. Beyond stress management, medicinal plants hold potential for addressing a range of health issues, from insomnia to chronic fatigue and beyond.

The official presentation of these findings, held on October 1, 2024, marks a pivotal moment in the field of natural medicine.

The event, hosted at Ibn Tofail University, promises to spark discussions and collaborations among researchers, healthcare professionals, and the public.

Conclusion

As society grapples with the pressures of modern life, turning to nature for solutions feels both intuitive and innovative. The work of these researchers reminds us of the untapped potential of plants, urging us to explore and embrace their benefits for a healthier, more balanced life.



Events

International Symposium: "Artificial Intelligence and Human Rights: Opportunities and Challenges"

Co-organized by Ibn Tofail University, the Islamic World Educational, Scientific and Cultural Organization (ICESCO), the Interministerial Delegation for Human Rights (DIDH), the Council of Europe, the Danish Institute for Human Rights (DIHR), and the United Nations Development Programme (UNDP). The objective is to share experiences and best practices to harness the immense potential of AI applications while mitigating their negative impacts on individuals' rights and freedoms.

The two-day symposium, held at the Faculty of Legal and Political Sciences in Kenitra, opened with the presence of several ministers, high-ranking officials, and researchers, including Mr. Abdellatif Ouahbi, Moroccan Minister of Justice; Dr. Abdellatif Miraoui, Moroccan Minister of Higher Education, Scientific Research, and Innovation; the President of Ibn Tofail University of Kenitra; Mr. Abdelkarim Boujradi, Secretary-General of the DIDH; and several ICESCO experts.

The symposium featured valuable contributions and discussions from social scientists, professors, and legal experts from Morocco and other countries. These discussions focused on the challenges and opportunities associated with AI in relation to human rights and the governance of the intersection between AI and human rights.



Events

International Conference on Digital Humanities : Innovations and Challenges in a Changing World

Partners : UIT – FSH – Center of Excellence in Digital Humanities

The Center of Excellence in Digital Humanities at Ibn Tofail University – Kenitra launched an international conference on November 20-21, inviting guests to discover the latest reflections on digital humanities. This pioneering event is dedicated to exploring the interactions between the humanities and social sciences and modern technologies.

the President of Ibn Tofail University took part in the event by delivering a speech to warmly welcome the participants and express gratitude to the organizing committee for the valuable insights the conference aims to provide. His participation in such events inspires the scientific community to organize more impactful gatherings, contributing significantly to innovation in the field of human sciences.

This groundbreaking conference aimed to foster discussions on how digital tools and methodologies are transforming the study and practice of humanities. The event covered a range of topics presented in different languages ; Arabic, French and English.

Objectives of the conference

The conference focused on

- Exploring the rapid transformations of digital humanities : Artificial intelligence, machine learning, virtual reality, big data, and simulation-based research methods
- Addressing contemporary challenges: privacy protection, data security, and enhancing researchers' digital skills
- Highlighting opportunities: innovation and creativity in research and teaching through new technologies and interdisciplinary collaborations.

Participants included leading scholars from both national and international institutions. They shared insights through keynote speeches, interactive presentations and panel discussions. These sessions highlighted case studies of successful digital humanities projects.

Events

Bouchra Zoubaa from UIT Wins First Prize for Innovative Ammonia-Fueled Furnace Project at Prestigious Hackathon

Bouchra Zoubaa, a talented student from the National School of Chemistry at Ibn Tofail University, has achieved a remarkable milestone by securing the first prize at a prestigious hackathon. This event was jointly organized by the Institute for Solar Energy and New Energies Research (IRESEN) and Mohammed VI Polytechnic University (UM6P). The competition focused on the innovative theme of "Ammonia-Fueled Furnace," highlighting the growing global interest in sustainable energy solutions.

A Revolutionary Concept in Energy Innovation

The hackathon, held as part of a collaborative effort between leading Moroccan institutions, aimed to explore practical and sustainable applications of ammonia as an alternative fuel source. Ammonia has gained attention in recent years for its potential to provide a carbon-free energy solution, particularly in industrial and transport sectors.

Zoubaa's winning project stood out for its innovative approach to designing and optimizing a furnace powered by ammonia. Her concept combined chemical engineering expertise with a focus on efficiency, safety, and sustainability, addressing key challenges in adopting ammonia as a clean energy solution.

Collaboration and Expertise

The hackathon brought together multidisciplinary teams from across Morocco, creating a dynamic environment for collaboration and knowledge sharing. Participants included students, researchers, and industry professionals, all working to tackle the technical and environmental challenges associated with ammonia-based energy systems.

Bouchra Zoubaa's success underscores the high level of education and research being carried out at the National School of Chemistry at Ibn Tofail University. It also highlights the value of fostering partnerships between academic institutions and research organizations to drive innovation in renewable energy.



Hackathon 2nd Edition : Nexus Water Energy

Bouchra Zoubaa, a talented student from the National School of Chemistry at Ibn Tofail University, has achieved a remarkable milestone by securing the first prize at a prestigious hackathon. This event was jointly organized by the Institute for Solar Energy and New Energies Research (IRESEN) and Mohammed VI Polytechnic University (UM6P). The competition focused on the innovative theme of "Ammonia-Fueled Furnace," highlighting the growing global interest in sustainable energy solutions.

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Recognition and Impact

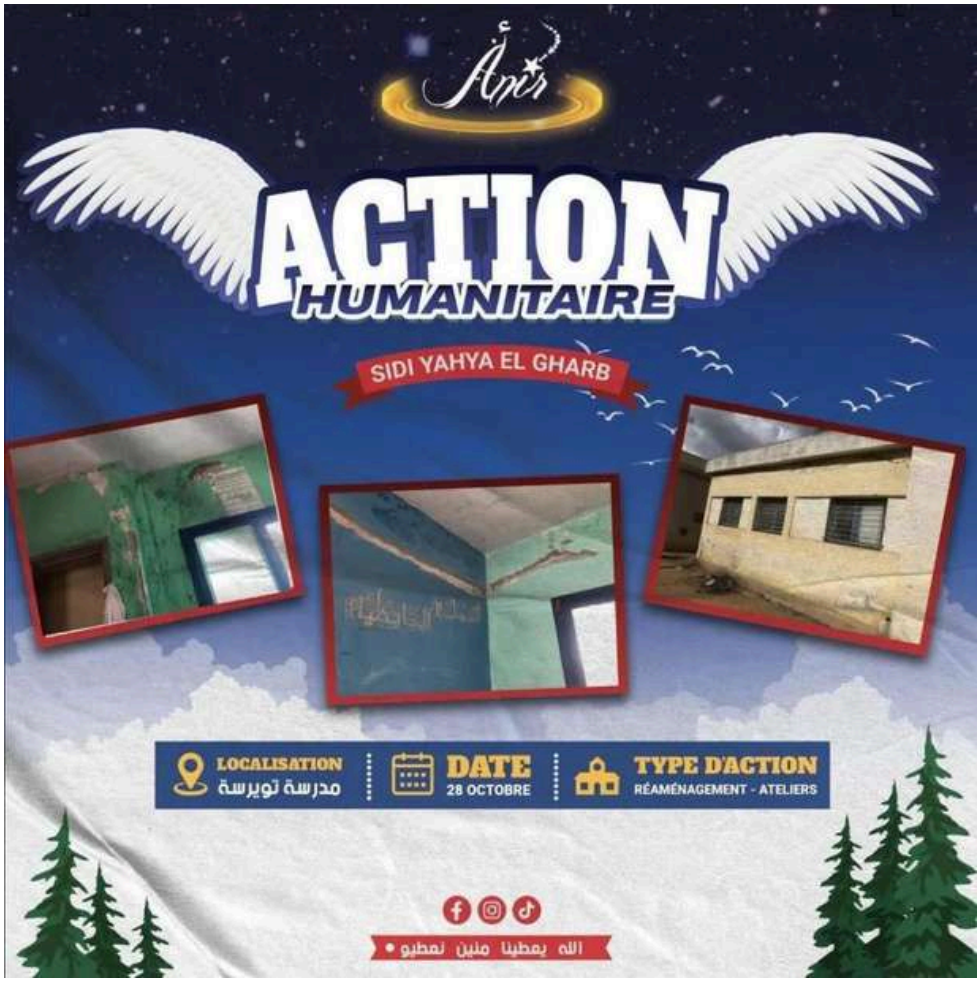
Winning this competition not only showcases Zoubaa's individual talent but also reinforces Morocco's commitment to leading the way in renewable energy innovation. Her project contributes to the ongoing dialogue on reducing carbon emissions and transitioning to sustainable industrial processes.



Transforming Classrooms, Elevating Spirits: The Humanitarian Action of Club Anir at Douar Touirsa

On October 28, 2023, the Social Club Anir of ENCG-K at Ibn Tofail University in Kenitra organized a special humanitarian caravan, highlighting a remarkable renovation effort. This time, their destination was a primary school located in "Douar Touirsa, Sidi Yahya El Gharb." With their signature magical touch, Club Anir set out to transform this learning environment, aiming to provide students with a more favorable and stimulating educational atmosphere. The action undertaken went beyond simple space renovation; it was a true immersion in improving the educational environment.

Between classroom renovations, gardening to beautify outdoor spaces, repairs to improve the infrastructure, and the establishment of educational workshops, every aspect of this initiative was carefully thought out to leave a lasting imprint of the Anir spirit on the walls of "Touirsa School." This caravan was much more than a simple physical renovation; it was a concrete manifestation of Club Anir's commitment to the community, showing their dedication to improving the learning conditions for children and providing them with an environment conducive to their development.
Through this action, the members of Club Anir left behind a positive legacy that will last well beyond that particular day, offering an inspiring example of generosity and dedication to others.



Clubs

Embellishing the Future: The Inspiring Action of Club Anir at the School of Douar Lhalouiyine

The school plays a vital role in the development and personal growth of children, providing a space conducive to discovering their passions and talents. Recognizing the crucial importance of an ideal and peaceful educational environment, the Club Anir ENCG-K of Ibn Tofail University made an indelible mark during their visit to Douar Lhalouiyine on March 17, 18, and 19. With unwavering determination and boundless commitment, the club members worked to beautify the Douar school, ensuring that every student could benefit from an inspiring learning space.

Their efforts were remarkable, highlighted by the creation of beautiful decorative murals on the school walls, the installation of a library to encourage reading among the students, and the establishment of a playground to allow them to unwind after long study days. Additionally, the repair and renovation of the bathrooms contributed to creating a healthier and safer environment for the children.
Thanks to the motivation and dedication of the Club Anir members, the school at Douar Lhalouiyine is now a place of knowledge and joy, where every child can fully thrive and realize their potential.







Clubs

Rénovation Éducative : Les Lions Club Espoir de l'ENCG Kenitra Transforment l'École LAHMASIS

The Lions Club Espoir of ENCG at Ibn Tofail University in Kenitra passionately orchestrated the first-ever "Renovation" action at LAHMASIS School. This day was not just about warmly welcoming new members; it was a true immersion in selfless service, a meticulous demonstration of our commitment to transforming the school into a vibrant place for learning. The laughter and the awe in the eyes of the children reflected the magic of this day dedicated to beautifying educational spaces. The Lions Club Espoir ENCG Kenitra fully committed itself to this mission of positive change at LAHMASIS School on November 4 and 5, 2023.

Our goal was clear: to revitalize this educational space and breathe new life into it. Each member contributed, whether through renovation work, painting, or landscaping, with the aim of creating an environment conducive to learning and student development. This action was not just about the physical transformation of the school; it also embodied our commitment to education and the well-being of younger generations. By working hand in hand, we demonstrated the strength of our unity and determination to make a tangible difference in the lives of those who need it most.







Conclusion

SDG 9

In conclusion, this report highlights our determination to play a key role in achieving SDG 9. By investing in resilient infrastructure, promoting sustainable industrialization, and fostering innovation, we contribute to building a stronger and more equitable future. The partnerships established, the projects undertaken, and the progress made demonstrate our commitment to sustainable development, while emphasizing the importance of infrastructure as the foundation for sustainable social, economic, and environmental progress. We remain committed to working together with other stakeholders to shape a world where everyone can benefit from well-designed infrastructure and inclusive growth.

9 INDUSTRY, INNOVATION AND INFRASTRUCTURE



THE GLOBAL GOALS

A COMMITMENT TO A SUSTAINABLE AND INNOVATIVE INDUSTRY

SUSTAINABLE DEVELOPMENT

IBN TOFAIL UNIVERSITY