

**Centre International Hassan II
de formation à l'environnement**



**مركز الحسن الثاني الدولي
للتكوين في البيئة**



Educating outdoors the Foundation's Pedago Trail

Explore, Teach, Preserve



Her Royal Highness Princess Lalla Hasnaa,
President of the Mohammed VI Foundation for Environmental Protection

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The Mohammed VI Foundation for Environmental Protection, chaired by HRH Lalla Hasnaa, pursues a crucial educational and awareness-raising mission, focusing primarily on young people, to promote the preservation of our precious ecosystem. With this in mind, it has designed educational trails within its restored gardens, offering an enriching and enjoyable experience. These paths, initially designed by experts, have since evolved into a realization by architecture students, who adapt each itinerary to the specific geographical features of the gardens. The involvement of students in the realization of these projects is a real source of pride for the Foundation. This brochure invites you to explore these paths dotted across the Kingdom, offering a captivating immersion in the preservation of our environment. Discover and enjoy the ride!



Hassan II International Center for Environmental Training

The Hassan II International Center for Environmental Training is firmly committed to the vision of sustainable development advocated by His Majesty King Mohammed VI, in Morocco, Africa and worldwide.

Inaugurated in June 2019 by Her Royal Highness Princess Lalla Hasnaa, President of the Mohammed VI Foundation for Environmental Protection, the Hassan II International Center for Environmental Training fully embodies the Foundation's educational and awareness-raising mission.

The Centre's building, with its contemporary, well-thought-out ecological architecture, is a model of environmental exemplarity. It is based on the use of traditional and ecological building materials, an optimal south-facing orientation for maximum exploitation of natural light, and a solar farm that meets a significant proportion of energy needs. In addition, the building features reinforced insulation to improve energy efficiency, as well as rainwater harvesting systems that take into account the site's topography. An autonomous, ecological wastewater treatment plant is also present, as is a permaculture-inspired garden adapted to the local climate. Finally, an area dedicated to waste sorting and composting ensures circular management of the waste produced by the Center.

The Hassan II International Center for Environmental Training is strategically positioned in line with the Foundation's educational approach for, by and about the environment, making environmental education a core concern. Its action is organized around four main axes:

- Share environmental knowledge and experience.
- Raising awareness and training players involved in sustainable development.
- Facilitate coordination and communication between all the Foundation's partners.
- Capitalize on the lessons learned from the Foundation's actions.

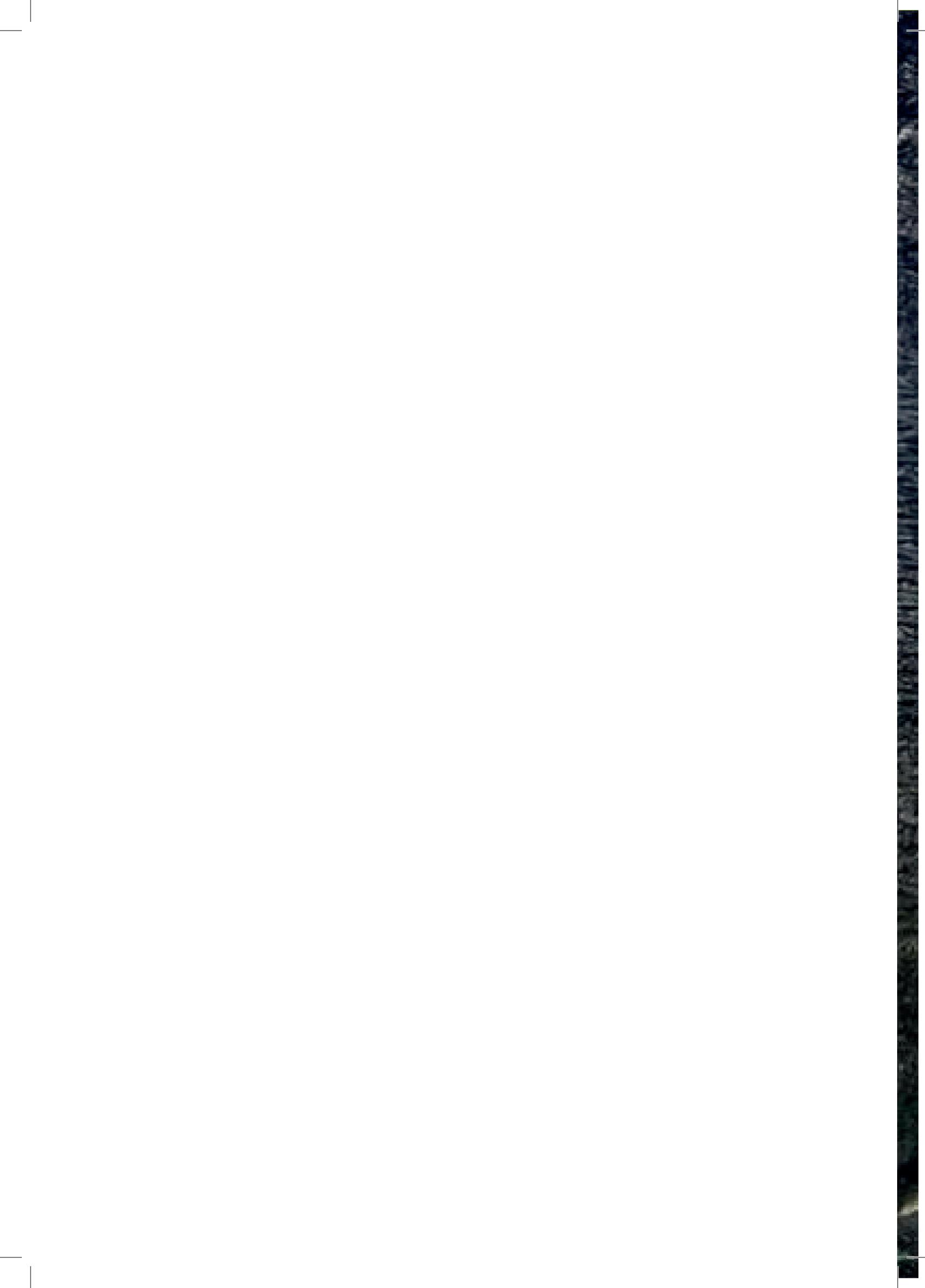
Since its inauguration, the Hassan II International Center for Environmental Training, as the academic arm of the Foundation, has worked closely with its national and international partners, as well as with renowned experts, to develop and implement a wide range of activities both on and off the ground, taking advantage of advances in information technology. These

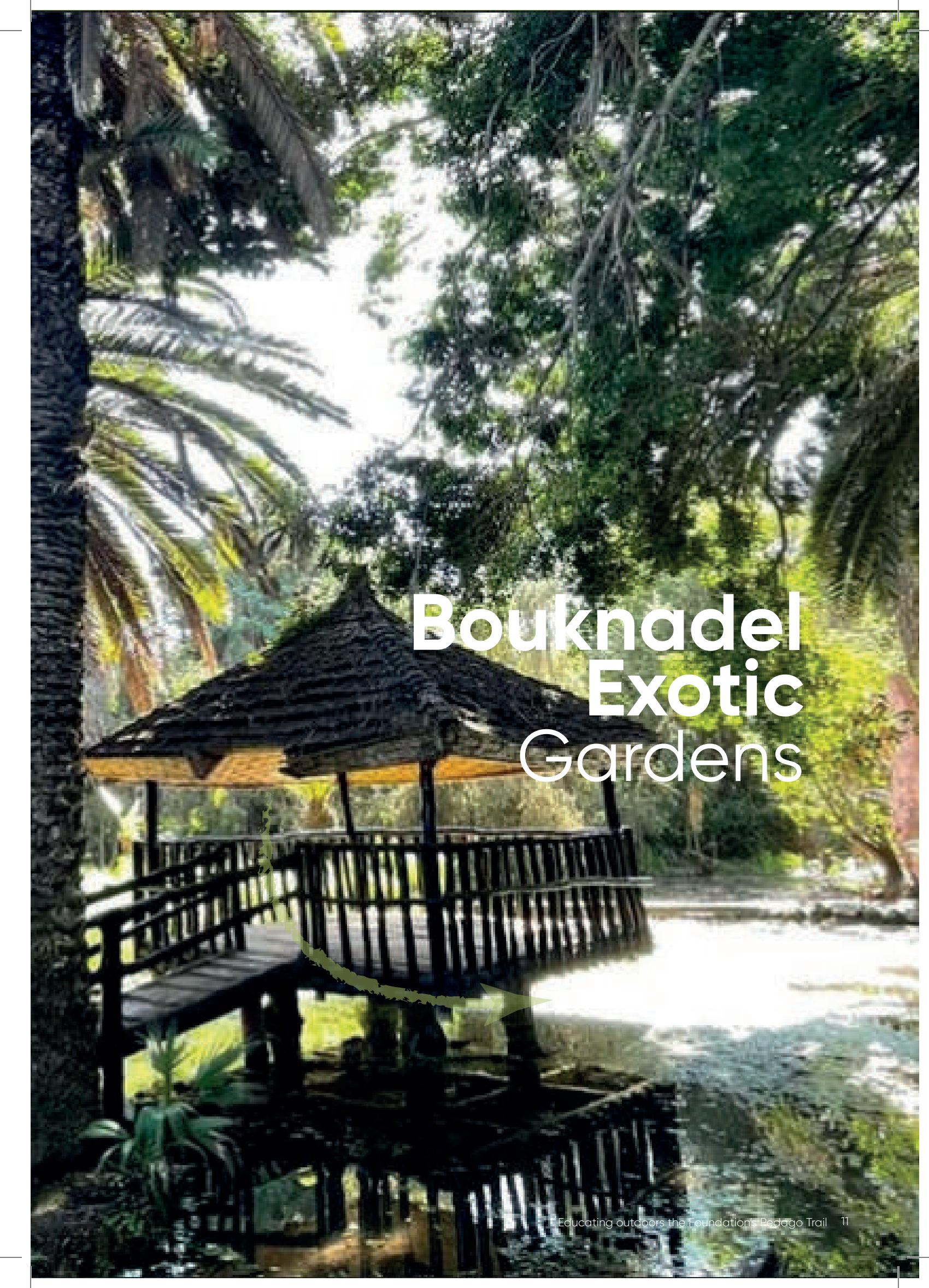
initiatives were designed to reach a wide range of stakeholders, including pre-school children, students, academics, public and private sector representatives, members of civil society, young people and the general public.

These activities addressed themes in line with the Foundation's priorities, including air quality, climate and the preservation and development of the Marrakech Palm Grove, protection of the coastline and oceans, sustainable tourism, and the restoration of historic parks and gardens.

These activities are part of the vast partnership ecosystem of the Foundation, a Non-Governmental Organization enjoying consultative status with ECOSOC since 2015. The United Nations and its various agencies rely on this recognition to promote their programs, particularly in the field of Education for Sustainable Development (ESD). This collaboration extends to various UN bodies such as UNESCO, the Intergovernmental Oceanographic Commission, UNDP, UNEP, the United Nations Framework Convention on Climate Change, FAO, etc.

In addition, the Centre collaborates with other intergovernmental organizations such as embassies, notably those of the United Kingdom, Ivory Coast and Portugal, as well as bilateral cooperation agencies such as the Deutsche Gesellschaft für Internationale Zusammenarbeit, international NGOs such as the Foundation for Environmental Education, and, of course, with national institutions such as the Ministries of Education, Energy Transition and Sustainable Development, Agriculture, Fisheries, Rural Development, Water and Forests, the Moroccan Energy Efficiency Agency, the Moroccan Standards Institute, the General Confederation of Moroccan Enterprises, and many other partners from the public and private sectors and civil society.





Bouknadel Exotic Gardens



With its collections of exotic plants and animals, its many gardens and its educational circuit, the Bouknadel Exotic Gardens ranks among the largest and most beautiful gardens in Morocco. They are located on national road n°1, 10 km from Salé towards Kenitra.

The Bouknadel Exotic Gardens are home to ponds, huts, suspension bridges and over 600 plant species from 5 continents and 80 animal species. They cover 4.5 hectares and are thematically organized around three concepts. Nature, Culture and Didactic Gardens

cover 4.5
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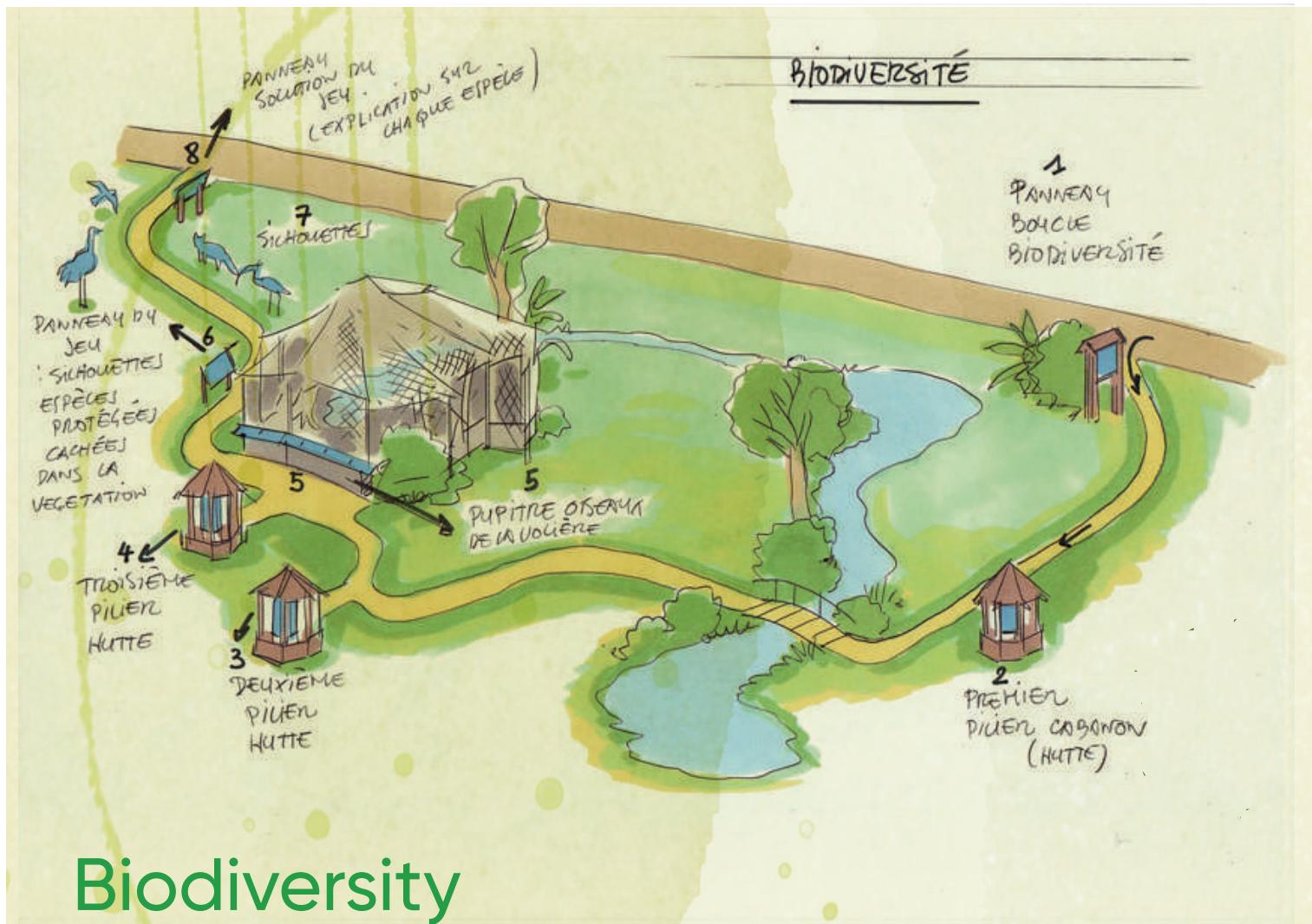
80 animal species

An educational trail encompassing various environmental themes related to the area was installed in 2011. The trail aims to educate and raise public awareness of nature conservation issues and promote a better understanding of the local ecosystem.

The international prize for best environmental practices «The Green Apple Awards», of the Green Apple Organization founded during the Jubilee of Queen Elizabeth II of England, and which celebrates its 15th edition, was awarded on Monday, November 14, 2011 in the House of Commons in London (Great Britain), to the Mohammed VI Foundation for Environmental Protection, presided over by HRH Princess Lalla Hasnaa, for the educational trail project carried out in the exotic gardens of Bouknadel with the Association des Amis des Jardins Exotiques de Bouknadel (ASAJEB).

The five themes covered by the educational trail are essential to raising environmental awareness. They include biodiversity, waste and recycling, forests and soil protection , water as a source of life , as well as irrigation and plant cultivation. These varied topics offer visitors a unique opportunity to immerse themselves in the wealth of biodiversity present in Bouknadel's exotic gardens, while providing essential knowledge about contemporary environmental challenges.

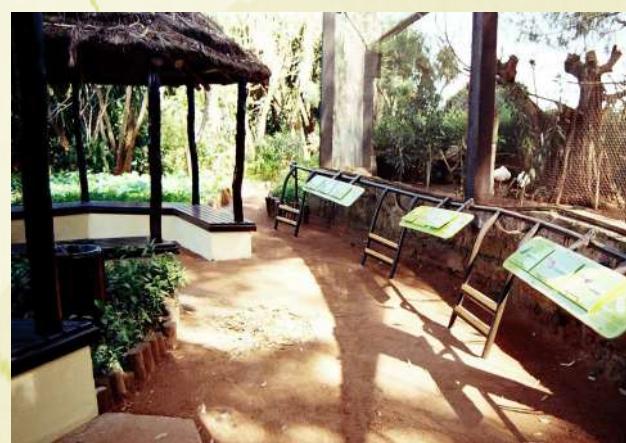
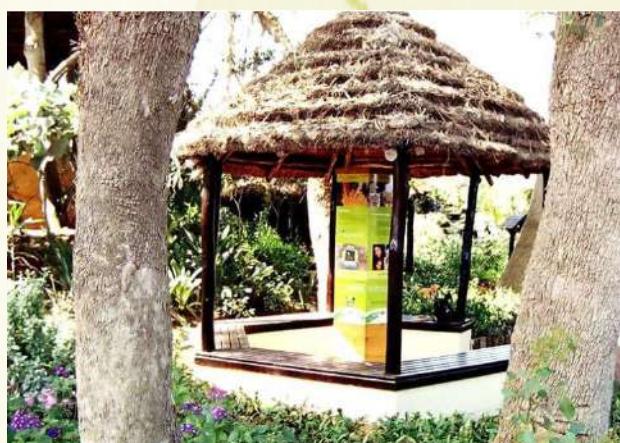




Biodiversity module

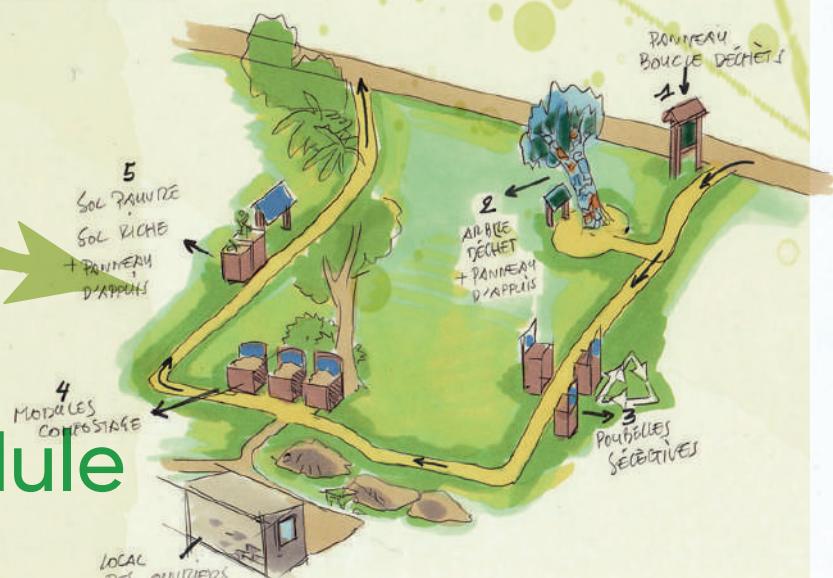
The panels and pillars in the Congolese garden huts and around the bird aviary offer a captivating immersion into the world of biodiversity. They provide clear, engaging information on the importance of biodiversity, the threats it faces and the methods used to preserve it. In addition, one

pillar highlights the specific features of Moroccan biodiversity, while another focuses on bird migration. Finally, an interactive tablet, located close to the aviary's natural bird habitats, offers an interactive educational experience, creating a direct link with the theme of the Congolese Garden.





DECHETS - RECYCLAGE



Waste and recycling module

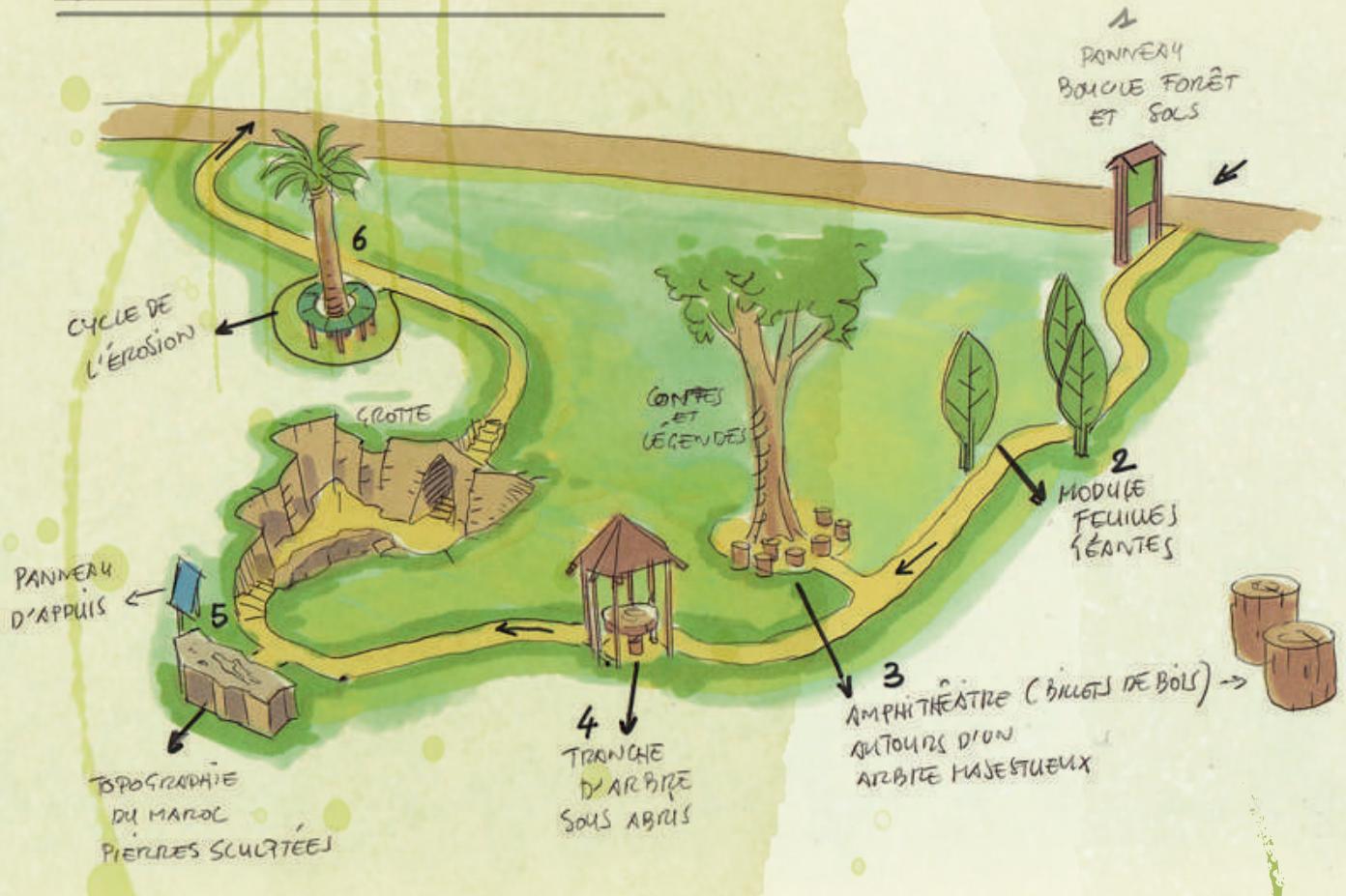
The waste module is strategically located in the Garden's composting area. It features informative panels highlighting waste and the time it takes to degrade in nature, while actively encouraging selective sorting. In addition, three boxes clearly identify the crucial stages of composting, providing information on the importance of compost in waste recycling and its essential role in plant production.

These elements highlight the beneficial organisms associated with the composting process. Two separate bins, one with a plant in rich soil and the other in poor soil, provide a tangible illustration of the positive impact of compost on soil enrichment.



Explanatory panels complete the demonstration, providing further information on this environmental process.

FORÊT - GÉOLOGIE - PROTECTION DES SOLS



Forest and soil protection module

At the heart of the grotto and Brazilian gardens is a module dedicated to Moroccan nature. An introductory panel highlights the diversity of Morocco's forests, offering an initial immersion in this ecosystem. Modules in the shape of giant leaves provide valuable information on the country's emblematic trees, the different leaf shapes, and photosynthesis.

A model of Morocco's topography accompanies this exploration, offering a concrete vision of the country's relief. A complementary panel sheds light on Morocco's geographical peculiarities, establishing a concrete link between the local environment and the lessons taught.



An exceptional exhibition features a 330-year-old cedar trunk, illustrating the method of calculating tree age through trunk rings. This hands-on demonstration offers a unique perspective on the longevity of Morocco's emblematic cedars.



Water as a source of life

The South Asian gardens feature an educational module dedicated to the vital element of water. This module offers a unique opportunity to gain an in-depth understanding of water's central role in our ecosystem. An introductory panel highlights water as a source of life, underlining its crucial value for all living beings.

Another panel focuses on aquatic biodiversity, offering a detailed exploration of the different species that inhabit aquatic environments. A third panel details the natural cycle of water, illustrating its journey through nature and highlighting its vital impact on our planet.

A giant pyramid completes the display, showing the different levels

of the aquatic food chain and highlighting the interdependence of the species that inhabit these aquatic environments. This module offers an instructive immersion in the world of water within the exotic gardens of Bouknadel.







Casablanca Hermitage Park

Created in 1920 by architects Jean-Claude Nicolas Forestier and Henri Prost, the Casablanca Hermitage Park was originally a horticultural garden, irrigated by a spring. For a long time, it fed the neighboring population before being encircled by urbanization and falling into disrepair.

At the end of the rehabilitation carried out by the Foundation, the park's now exceptional arboreal heritage was preserved. Faithful to the concepts of its creators, the rehabilitation opened up and linked the park, via its main entrances, to the surrounding neighborhoods and major thoroughfares, using the palette of plants emblematic of Casablanca: palms, ficus, araucarias.

The park has also been reinterpreted for educational purposes, with gardens from three continents: Africa, America and Australia. An educational garden provides schools with small plots to plant. Schoolchildren learn to recognize plants and learn about environmental protection. An educational well provides an introduction to the theme of water.

To complement this, the educational trail installed in 2011 offers a variety of instructive modules. This includes an impressive food pyramid, lessons on the crucial role of water entitled «Water is Life! Let's preserve our water!», detailed data on aquatic vegetation, and enlightening explanations of the natural water cycle.



Aquatic food pyramid module

In the Hermitage Park, the food pyramid module offers a fascinating insight into the complex world of the aquatic environment. Here, you'll discover a multitude of plants and animals perfectly adapted to life in water.

These living beings feed on the resources available in their aquatic environment, creating a vital dynamic within this ecosystem. What's particularly interesting to observe is the interconnected life cycle that takes place here. Every living thing is both predator and prey: an essential link in the food chain.

The food chain always begins with a plant, and continues from prey to predator, until it reaches the large carnivores at the top of the food pyramid. This module offers a unique opportunity to understand the delicate balance that governs aquatic life, and to grasp the crucial importance of each element in this dynamic ecosystem.



Well module

The well module covers three key themes: «Water is Life! Let's preserve our water!», and «The natural water cycle».

Each of these themes is interactively integrated on a rolling tarpaulin mounted at well level, allowing visitors to discover these subjects in a fluid and immersive way.

Theme 1 : "Water is Life! Let's preserve our water!"

At Parc de l'Hermitage, the theme of the crucial importance of water plays a key role in raising visitor awareness. It highlights an element fundamental to the survival of life on earth: water. This resource is not only vital, but also indispensable to all our economic and social activities.

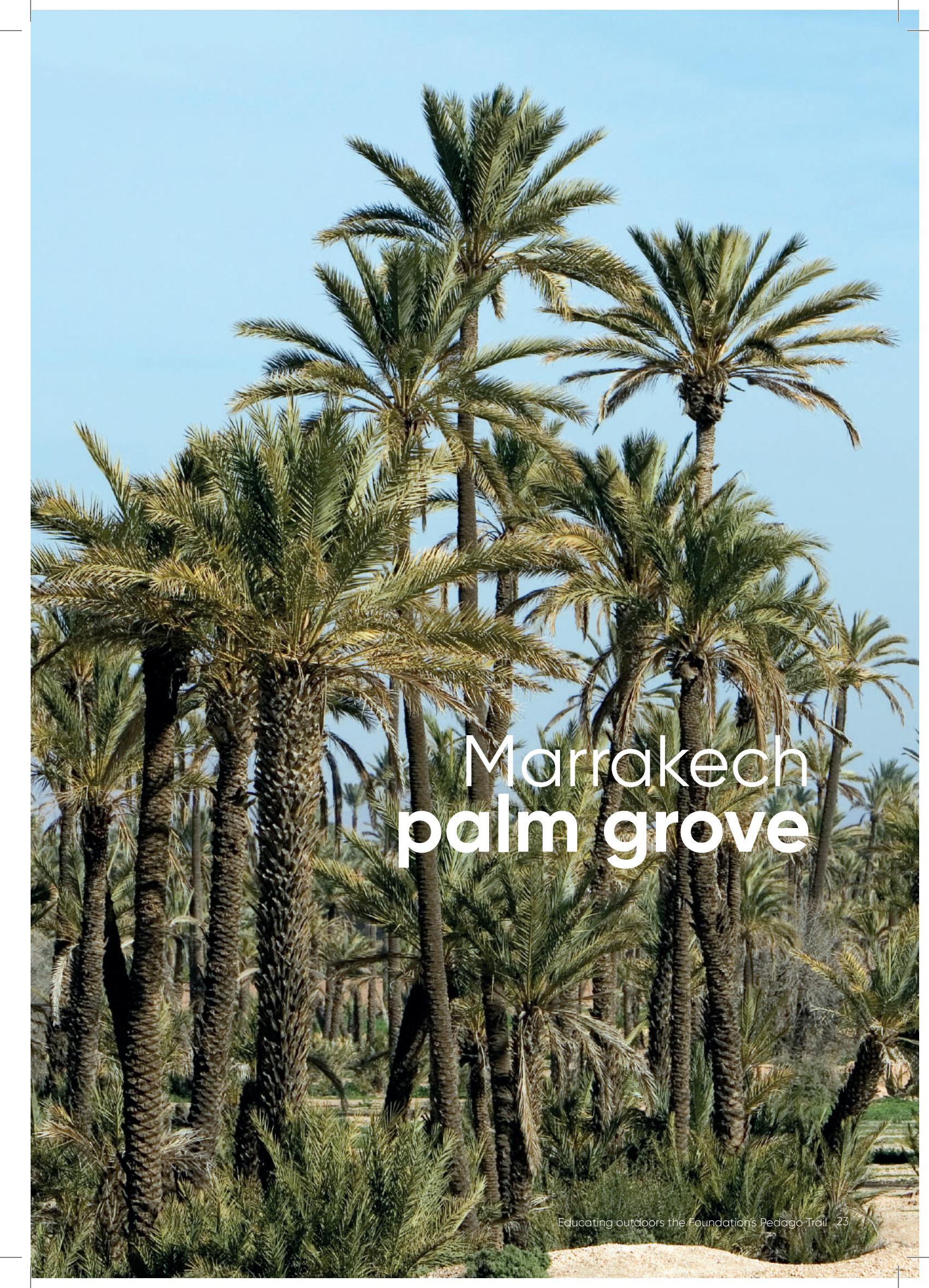
The module highlights the threat posed by water scarcity to such crucial aspects as food, public health, industry and agriculture. Despite the apparent abundance of water on our planet, it's crucial to understand that this wealth is not inexhaustible. The module

makes visitors aware of the many threats to this precious resource, including pollution in various forms and overexploitation, whether through waste or ever-increasing consumption. In this way, it encourages visitors to become aware of the urgency of preserving and wisely managing this vital resource for the future of our planet

Theme 2 : Natural water cycle

The theme of the natural water cycle illustrates the continuous movement of this essential resource on the planet, highlighting its constant balance. It explains the water cycle: evaporation creates clouds, which generate rain. This water feeds trees, groundwater, lakes and rivers, completing the cycle.



A photograph of a dense grove of palm trees under a clear blue sky. The trees are tall with thick trunks and large, spreading green fronds. The perspective is from ground level, looking up through the canopy.

Marrakech palm grove



13 000 hectares
de superficie

The Marrakech palm grove is an oasis located some 10 kilometers north of the city of Marrakech, Morocco.

The creation of the Marrakech Palm Grove dates back to the Almoravid dynasty in the 12th century. It has been extended and developed over the centuries by the various dynasties that have ruled the region.

The Marrakech palm grove covers an area of some 13,000 hectares, making it one of the largest palm groves in the world.

It is made up of thousands of date palms, which supply a large proportion of Morocco's date production.

The palm grove is criss-crossed by a network of irrigation canals known as «khettaras», an ancestral water distribution system.

Over the years, the Palmeraie has evolved to include numerous hotels, luxury residences, golf courses and leisure centers, making it a popular holiday destination.

In the Marrakech palm grove, an educational trail was laid out between 2013 and 2014, comprising a series of instructive modules. These modules cover various aspects of the palm grove, from its presentation to crucial themes such as the water cycle, the traditional management of this vital resource, the different plant strata that make it up, the composting and replanting process, as well as the ecology of the palm tree, the central element of this environment. This tour offers visitors a unique opportunity to deepen their understanding of the palm grove and its unique ecosystem.

Module presenting the palm grove

This initial module, in the heart of the Marrakech palm grove, stands out for its ingenious design. Comprising two finely crafted wooden panels shaped to evoke the emblematic silhouette of a palm tree, it offers a comprehensive presentation of the palm grove.

Each of the four sides of the module is equipped with an information panel detailing crucial aspects such as the history of the palm grove, its fragility in the face of contemporary challenges, the preservation measures undertaken, as well as the educational trail and its themes. In addition, a map of the circuit and a «you are here» sign make it easy for visitors to find their way around.

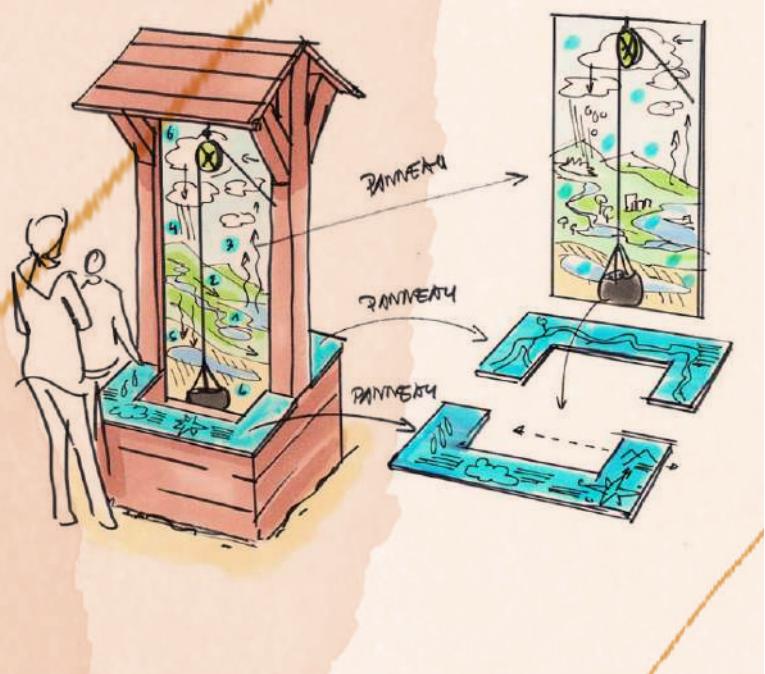
A constant emphasis is placed on the importance of respect for the site, its facilities and the surrounding natural environment.



Well module

Well-shaped module with a double-sided panel firmly attached to the structure. In this module, visitors discover the vital importance of groundwater for the survival of the palm grove and its biodiversity. It represents the traditional, sustainable management of this resource. The front illustrates the water cycle, while the back focuses on infiltration and groundwater formation.

A tablet supplements this information with tips on everyday eco-actions. This module is an essential starting point for understanding the crucial role of water in this ecosystem.

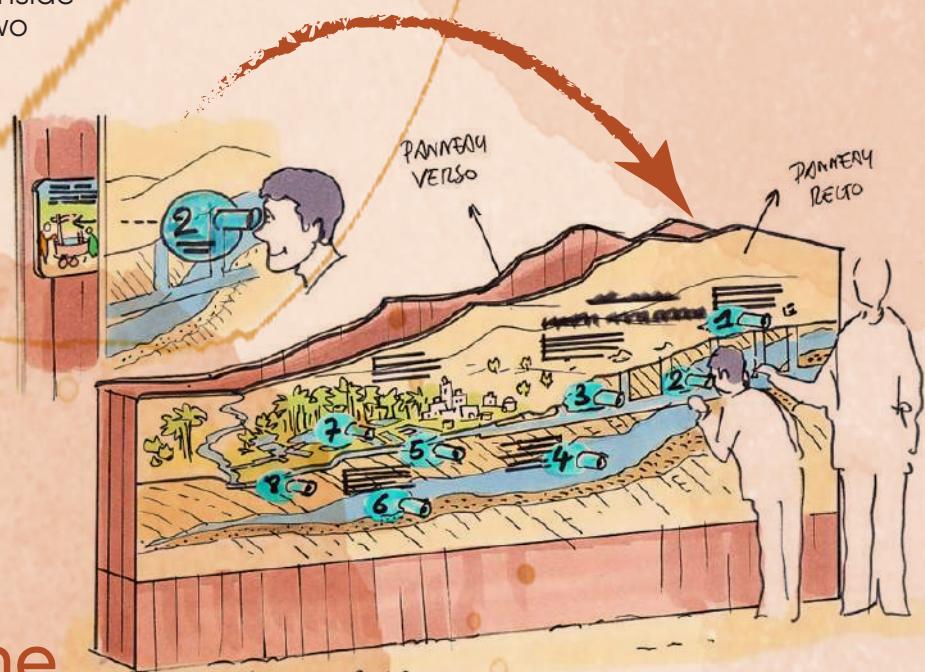


Water management module – Khettara

The water management module offers a two-part interactive experience.

Numbered tubes allow visitors to explore different stages of the landscape cycle presented in large scale on the panel. Each tube reveals a small illustrated panel explaining the corresponding stage, carefully positioned inside the module, between the two panels.

The module highlights the ingenious traditional management of water in the palm grove, highlighting practices such as khettarras. It explains the history of this traditional method, its different types and how it works in the palm grove, in the form of questions and answers.



Module of the pyramid of plant stages in the palm grove



The pyramid module is a rich and detailed representation of the palm grove, highlighting its essential aspects. The pyramid is dedicated to exploring the different plant stages of the palm grove.

Each floor showcases plants and shrubs cultivated by man, highlighting their importance as a vital resource, as well as the unique biological diversity of the palm grove.

This pyramid thus offers a complete and balanced vision of the importance of the palm grove, both for local communities and for the preservation of the surrounding biodiversity.

Composting module

The compost module is an educational installation consisting of three compost bins, each filled with green waste, illustrating different stages in the natural transformation process. Each bin is equipped with information panels and large graphic arrows to help visitors understand the different phases of the composting process. The panels provide crucial information on the importance of recycling green waste to preserve arable land and protect the soil. They also highlight the beneficial use of compost, particularly in the palm replant nursery.

The first box explains how to make compost and what types of waste can be used. The second focuses on the decomposition process, highlighting the little

creatures that contribute to this essential process. The third box highlights the benefits of organic gardening at home, without the use of phosphates and chemical fertilizers.

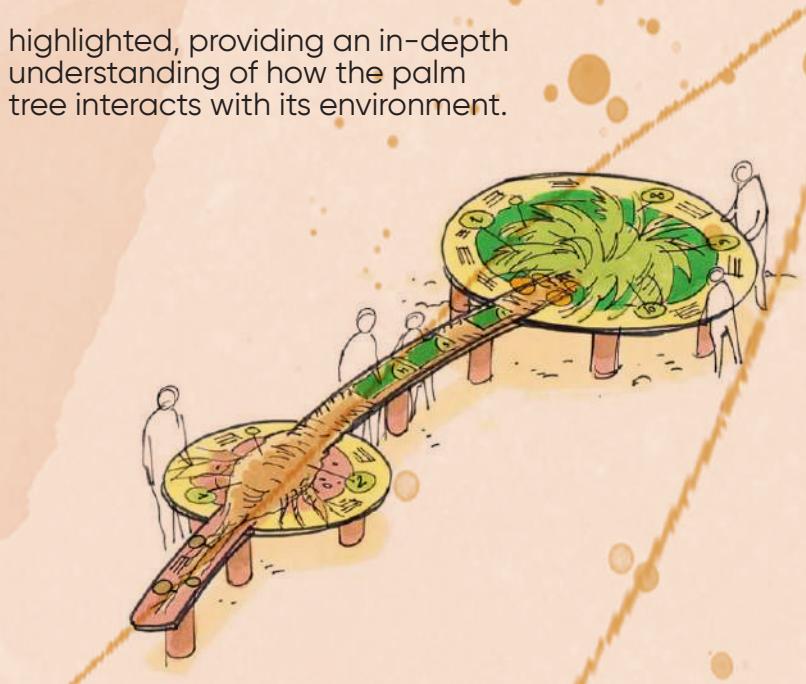


Palm ecology module (how a palm tree works!)

The palm ecology module is designed in the form of a giant palm tree. The content, including photographs, texts and illustrations, is integrated directly onto the panels that form the trunk of this imposing palm tree. By following the tablet and moving through the circular tables, visitors are invited to trace the tree's roots right up to its crown of leaves.

They discover the life cycle of the palm tree, its survival and growth conditions, as well as its crucial role in combating desertification and preserving soil. The process of photosynthesis is also

highlighted, providing an in-depth understanding of how the palm tree interacts with its environment.





Oued Eddahab Bay in Dakhla



Hassan II Park is located in Dakhla, a coastal town in southern Morocco on the Atlantic Ocean.

The garden is located in an accessible, central area of the city, providing easy access for residents and visitors alike. The educational trail is set up to allow visitors to the garden to learn about the environment while having fun. This educational trail offers an interactive experience where visitors can discover the many environmental aspects of the region and its conservation efforts. Through various fun and informative modules, visitors have the opportunity to understand the importance of preserving Dakhla's marine and desert ecosystems.



The Oued Eddahab Bay Educational Trail in Dakhla, created between 2016 and 2017, features a series of captivating educational modules. These modules highlight environmental themes, including types of energy, the rich biodiversity of Oued Eddahab Bay, freshwater scarcity and groundwater, as well as waste sorting and composting practices. This educational trail offers a discovery experience designed to raise visitors' awareness of the region's crucial environmental issues.

Introducing Oued Eddahab Bay and the educational trail

The general welcome panel takes the form of a double-sided module with a roof structure.

Its content is dedicated to a detailed presentation of Oued Eddahab Bay, as well as an introduction to the educational path established on site.

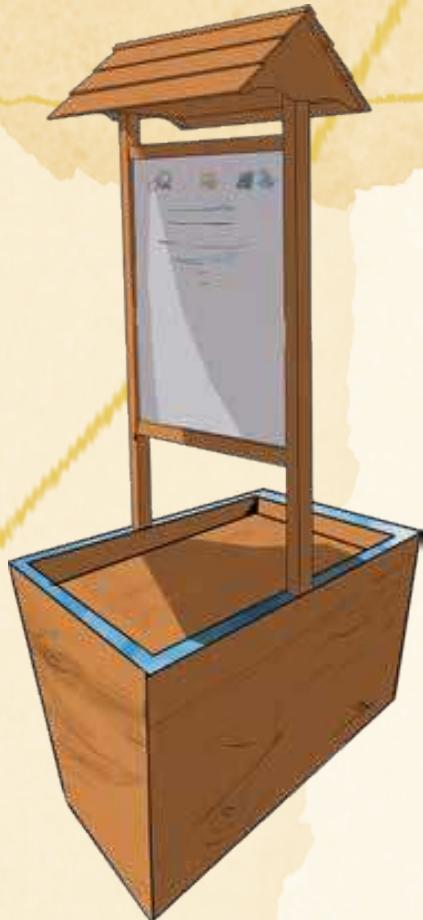
The module thus provides a general introduction for visitors to the garden.



Well module

One side of the panel focuses on underground water resources, highlighting their scarcity and non-renewable nature in the Oued Eddahab Bay region. The second side of the panel evokes the natural water cycle.

The main aim of this module is to raise visitors' awareness of the importance of preserving this vital resource, which is in short supply in this region



Recycling garbage can module

The three selective garbage cans each present a specific family of waste (plastic, metal and paper), explaining the different ways in which they can be recycled and highlighting the importance of selective sorting.

Each garbage can is accompanied by information on the lifespan of the waste, offering an educational insight into responsible waste management.



Energy module

The energy sources module takes the form of a rotating tray. It provides detailed information on various energy sources, including biomass, wind power, fossil fuels, hydropower, geothermal energy and solar power.

Thanks to its rotating movement, it enables dynamic and engaging exploration of various energy options, offering an innovative educational experience.



Compost bin module

The interactive compost bin module offers an immersive and educational experience. It consists of specially-designed composting bins, accompanied by manipulable panels.

This configuration enables visitors to learn about the practice of composting, the microorganisms essential to the process, and the correct methods for effective composting.

It also highlights the importance of this practice in terms of preserving our environment, our soils and our crops. This interactive, educational approach makes it easy to understand the mechanisms

involved in recycling organic matter.

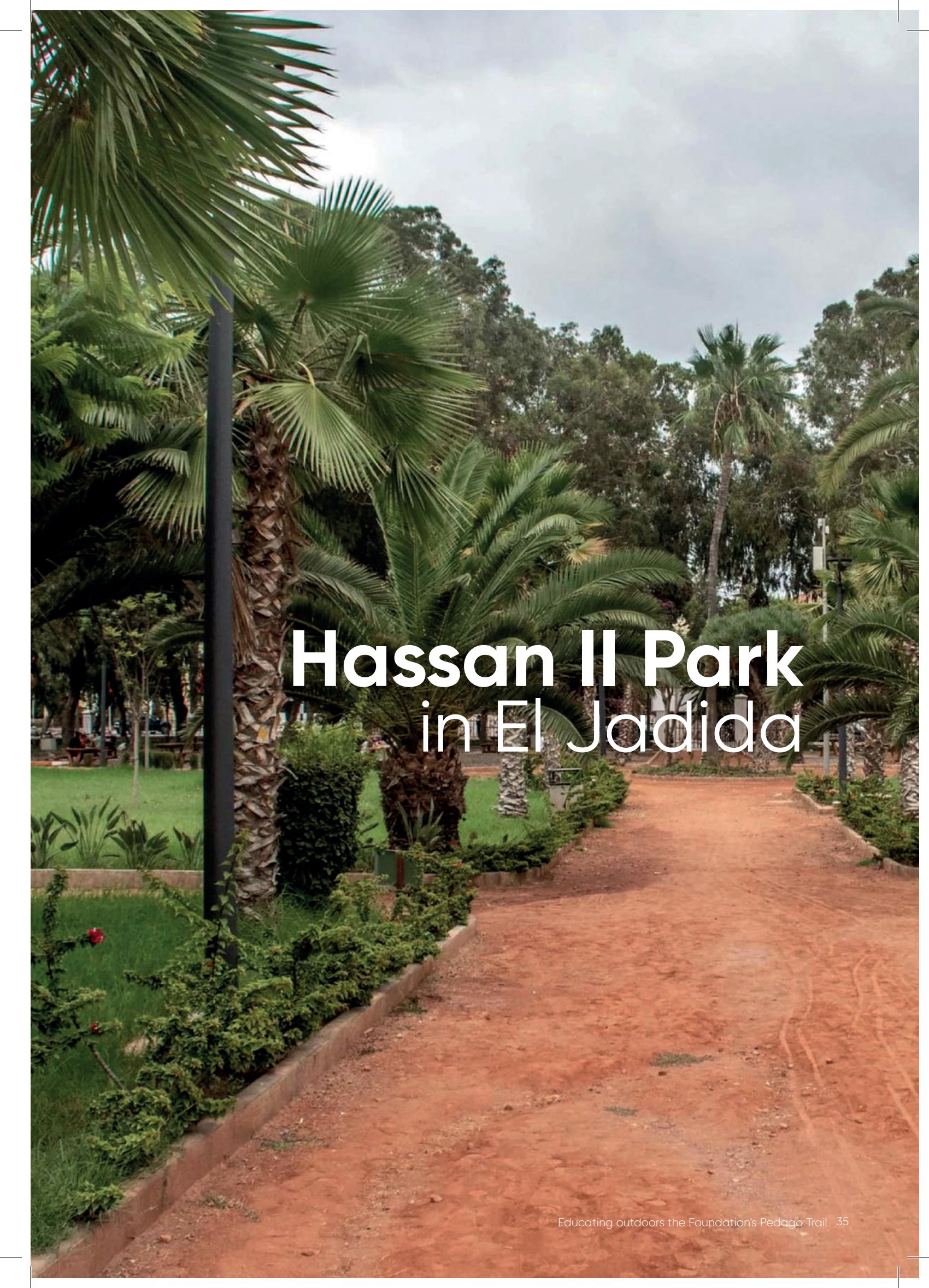


Marine Biodiversity Pyramid Module of Oued Eddahab Bay

This module focuses on the marine species of Oued Eddahab Bay, offering detailed information on each species, including its family, specific name and distinctive features. It also provides data on the conservation status of each species.





A photograph of a park path lined with palm trees. The path is made of reddish-brown dirt and leads into the distance, flanked by manicured green lawns and various tropical plants. In the background, a dense forest of tall trees is visible under a clear blue sky.

Hassan II Park in El Jadida

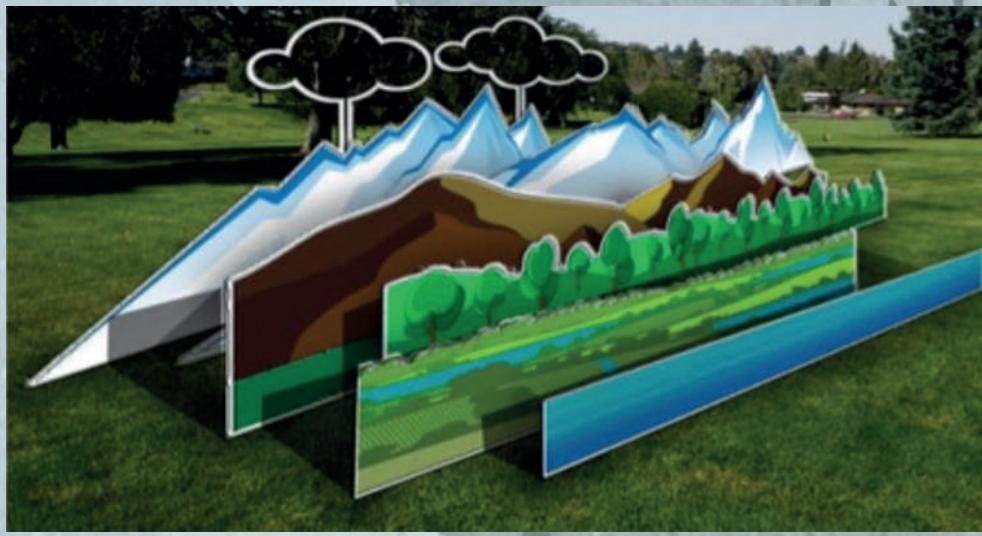


El Jadida's Parc Hassan II is located in the heart of the city, providing an easily accessible recreational area for residents and visitors alike. With a generous surface area, the park extends over several hectares, offering a veritable oasis of greenery in an urban setting. Its vast lawns, shady walkways and picturesque lake create an idyllic setting for strolling, relaxing or enjoying outdoor activities. What's more, the park is home to an animal park that delights visitors, especially families with children, who can discover a variety of animals.

The educational trail in El Jadida's Hassan II Park offers an in-depth exploration of the theme of water through a variety of modules. These were designed following an

ideas competition organized in collaboration with students from the National School of Architecture in Rabat, and then produced and installed on site.

The modules cover various aspects of water, from its vital role in the human body to its influence on the natural cycle and its energy potential. They also deal with aquatic ecosystems and stress the importance of preserving this precious resource. In addition, a module dedicated to eco-gestures offers practical advice on how to use water responsibly on a daily basis. In addition, the tour highlights fish species that have unfortunately become extinct, raising awareness of the need to preserve these aquatic habitats.



Module on the water cycle

The water cycle module features a series of panels illustrating different phases of this vital process. The cloud panel provides a detailed definition of condensation, while the snow-covered mountain panel explains precipitation. The panel depicting a hill deals with the processes of infiltration

and runoff. The forest panel provides essential information on evapotranspiration. Finally, the panel depicting the sea addresses the issue of evaporation. Each panel contributes to an in-depth understanding of the water cycle and its components.

Module Importance of water for plants

The tree module takes the form of a symbolic tree, accompanied by an information panel that discusses the different parts of the tree: roots, trunk and leaves. It also highlights the various roles a tree plays in the natural ecosystem



Where does the water go?» module

This module provides a detailed overview of the various ways in which water is used in the home. Each use is accompanied by practical tips for adopting eco-friendly gestures to prevent water wastage in everyday activities.

This presentation aims to raise visitors' awareness of the importance of responsibly managing this vital resource in their daily lives, thereby helping to preserve the environment.



Aquatic life module

This module dedicated to aquatic fauna aims to educate schoolchildren to recognize the different species of fish found along the El Jadida coastline. All species are presented and accompanied by an explanatory plaque providing detailed information on each one.

This fun and educational approach offers visitors an enriching experience to better understand and appreciate the region's marine biodiversity.



Water module in the human body

This module illustrates the quantity of water contained in the human body through three case studies (child, adult and elderly) to highlight the specific needs of each age group and underline the vital importance of water for all.

Other modules were installed to highlight the importance of water conservation in a fun and informative way, such as the Magic Tap Module, the Hidden Dimension Module and the Wave Module.





Ghabat Chabab Marrakech



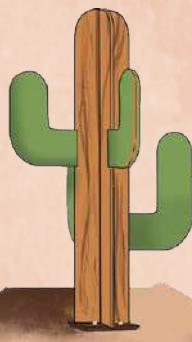
180 hectares
of olive trees

Ghabat Chabab, also known as the independence olive grove, is a 180-hectare park of century-old olive trees located in the heart of Marrakech's city center, close to the Menara Gardens. The park offers visitors the chance to immerse themselves in the heart of nature in the midst of an urban setting, and to enjoy a peaceful, verdant environment in the heart of the city.

The Ghabat Chabab educational path was designed by students at the National School of Architecture in Rabat (ENA) in response to an ideas competition launched by the Foundation as part of its mission to promote education for sustainable development. This federative initiative by the Foundation is part

of a process of experimentation and evaluation of the creative potential of young ENA students, as well as a concrete expression of the commitment of young people, with a view to bringing out innovative concepts and solutions in terms of environmental and sustainable development awareness and education.

The modules in the Ghabat Chabab park explore a variety of key themes. They highlight the olive grove, the biodiversity of the Marrakech region, plant adaptation to a dry environment and the Kettaras. Each of these subjects offers a unique perspective on the richness and diversity of nature in this region.



Olive book module

The Olive book module provides essential information on this emblematic tree. It highlights the positive effects of the olive tree on the climate, as a valuable support to biodiversity, an ally in soil improvement, and underlines its beneficial water footprint. By exploring these aspects, visitors discover the importance of the olive tree in the local ecosystem and beyond.



Olive branch module

The module dedicated to the olive branch offers detailed information on this emblematic tree. It highlights the characteristics of the leaves, flowers and roots, as well as their distinctive properties. Visitors can deepen their knowledge of the olive tree and appreciate its many facets.



Oil mill module

The module in the shape of an oil mill, harmoniously integrated into the olive grove theme, provides information on olive oil. It highlights the rich aromatic palette resulting from the region's traditional know-how. Visitors can appreciate the diversity and quality of the products produced by this ancestral tradition.

Pyramid module

The pyramid module is designed to showcase the region's emblematic and remarkable species. It offers a comprehensive view of local biodiversity, enabling visitors to discover the natural treasures that inhabit this unique ecosystem.



Biodiversity module for the Marrakech region

The panel presents the various ecosystems that make up the Marrakech-Safi region. It offers an overview of the region's natural riches, highlighting the marine ecosystem, the Atlas cypresses, the areas dominated by acacia gummifera, the sites of biological and ecological interest, the argan trees and, finally, the Toubkal national park. This overview allows us to appreciate the exceptional diversity of this region.



Trees in the city module

The module takes the symbolic form of a tree, providing information on the essential role of trees in urban environments as biodiversity crossroads. It highlights their role in providing shelter for numerous species and their ability to store CO₂, thus helping to mitigate the impact of climate change. It also highlights the vital role of forests, which, after the oceans, are the planet's largest carbon sinks.



Khettara module

The module dedicated to khettaras highlights the importance of these gravity-fed water transport systems in the Marrakech-Safi region. It underlines the fact that Morocco is one of the few countries still to preserve these structures. It offers detailed information on the vital role of the khettaras, their ingenious operation and the techniques employed in their construction. This enables visitors to better understand the ingenuity and impact of these traditional infrastructures on the region's water supply.

Adaptation of plants to dry environments



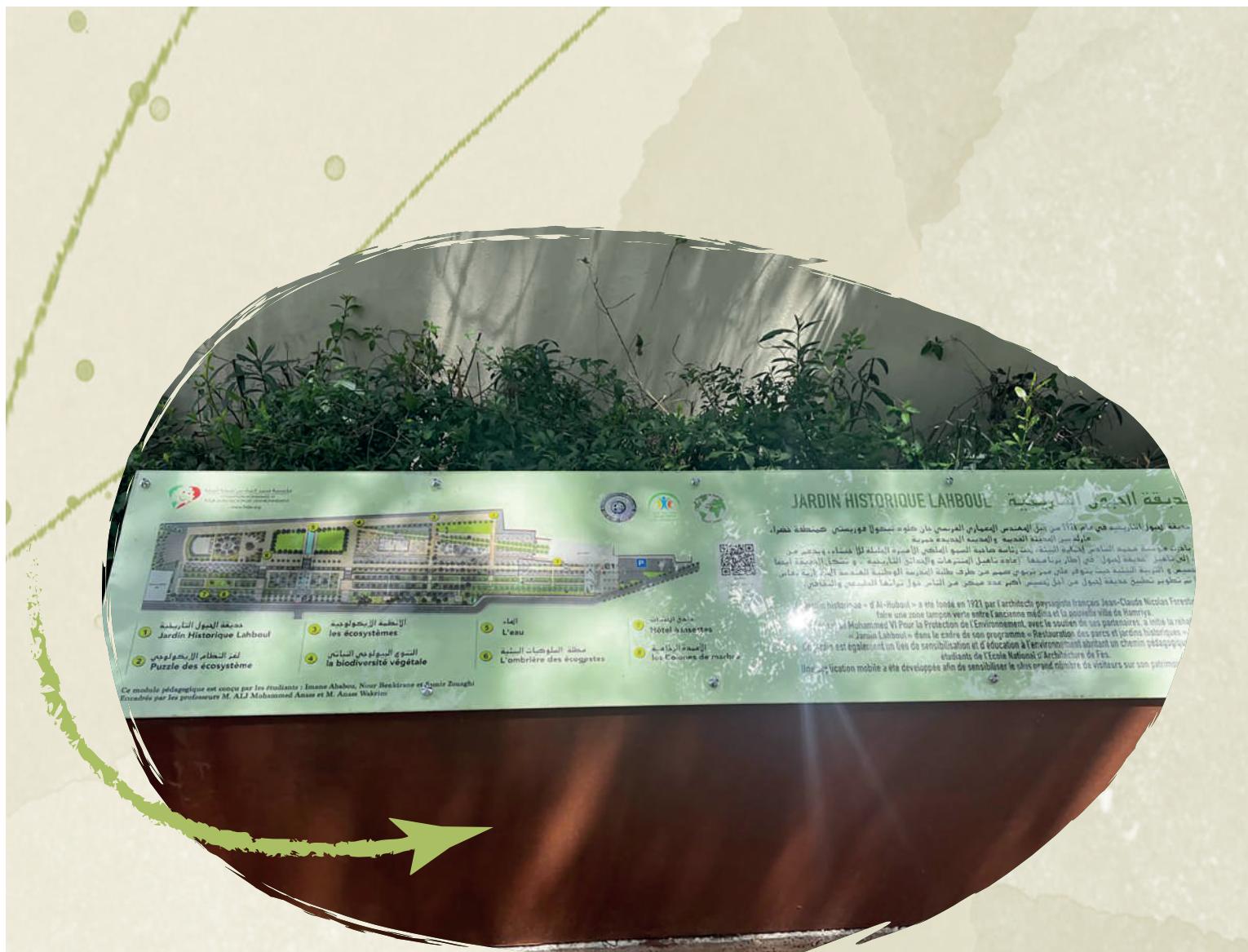
The module takes the form of plants from the cactus family, renowned for their resistance to high temperatures and arid conditions. It offers an insight into the different mechanisms employed by these diverse plant species to thrive in dry, water-demanding environments. It highlights the extraordinary ability of plants to adapt and survive in difficult climatic conditions.





Lahbouli Garden in Meknes





The Lahboul historic garden is one of the gardens included in the historic gardens rehabilitation program run by the Mohammed VI Foundation for Environmental Protection. This program aims to restore and preserve these emblematic green spaces, while making them accessible to the public for their enjoyment and benefit.

In 2023, an educational trail was installed within the Jardin Lahboul, with the aim of raising community awareness of a number of environmental issues, the

concepts for which were drawn up by students from the Fez National School of Architecture as part of an ideas competition. The modules aim to highlight the importance of plant biodiversity, the fundamental role of soil fauna in ecosystems, water resources, the preservation of natural ecosystems and the promotion of eco-actions.

These modules also provide visitors with information on the history of the garden, as well as details on the reconstruction and history of the marble columns on site.

Module History of Jardin Lahboul

This welcome panel tells the story of the Jardin Lahboul, highlighting its rehabilitation by the Mohammed VI Foundation for Environmental Protection, and its role in raising environmental awareness.

Plant Biodiversity Module

The biodiversity module is made up of interactive cubes illustrated with photos on each side. Its aim is to help you recognize the different plant species that make up the Lahboul garden's plant palette.



Insect hotel module

The insect hotel module offers a selection of eco-friendly materials that are ideal for insect life. These include straw, wood, bamboo stalks, upturned flowerpots filled with hay, wooden planks behind metal plates, drilled logs, bundles of pith stems, bricks and closely-spaced, sheltered planks. These materials provide shelter for different types of insects, promoting biodiversity in both natural and urban environments.



Natural Ecosystem Module

This module explains the composition of natural ecosystems and Morocco's rich biodiversity, particularly in terms of plant species. With over 4,200 recorded plant species, some with aromatic and medicinal properties, Morocco

offers a diverse and precious natural heritage. This sensory module also invites visitors to explore the varied scents of aromatic plants, offering an immersion in the country's rich plant biodiversity.

Natural Ecosystems Puzzle Module

The puzzle module features wheels with packaged images. Visitors are invited to turn these wheels to correctly compose the image of a natural ecosystem. This interactive game allows visitors to discover and understand the complexity of ecosystems by assembling the different parts in a coherent way.



Ecogestures Shade Module

The «ombrière» module offers a multifunctional shaded area while promoting simple ecogestures. It encourages visitors to abandon the use of plastic bags in favor of reusable ones, to favor the purchase of local products to support the local economy, and to get involved in forest fire prevention by respecting safety instructions and reporting any suspicious behavior. These actions, intuitively integrated into the space, aim to raise awareness and encourage environmentally-friendly behavior.



Water module

The Water module highlights the importance of traditional fountains in the cultural, social and architectural heritage of the city of Meknes. These fountains symbolize the sharing of the vital resource of water. Once found throughout the city, they were essential to the drinking water supply of its inhabitants.

This module also highlights the importance of groundwater, which accounts for a large proportion of the planet's freshwater reserves. However, this resource is vulnerable to depletion and pollution. Hence the importance of managing this scarce resource sustainably.



Restoration Module / The history of columns

The module presents the history of the marble columns installed in the historic Lahboul garden. These columns, originally from the Palais Badii in Marrakech and reused by Sultan Moulay Ismail in the construction of his kasbah in Meknes, were integrated into the project by landscape architect Jean-Claude Nicolas Forestier. Their presence adds a mythological touch to the garden's design.



**Educating
outdoors**

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