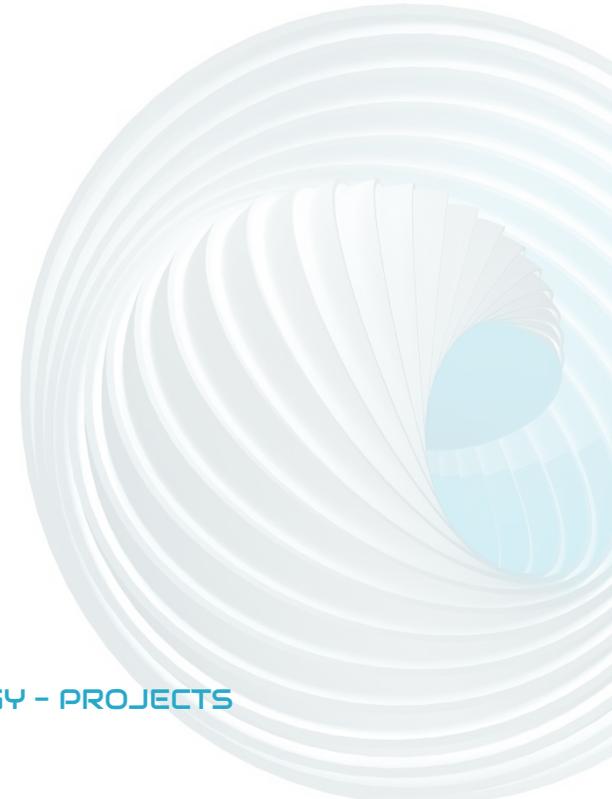


PWG
building prosperity

we are building a better tomorrow

confidentiel



CONSTRUCTION - ENERGY - PROJECTS

www.pwgeurope.com

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our value proposition

We design and manufacture steel and concrete structural frameworks with speed and cost efficiency, while consistently delivering high-quality solutions for contractors and architects worldwide, across all types of projects.

We have unique expertise in the development of turnkey factories for community development solutions, enabling the large-scale production of housing in developing countries.

We also manufacture an innovative, high-quality solar roofing system integrated with a compressed-air energy storage solution.

Finally, through continuous innovation and strategic partnerships, we collaborate on the implementation of smart cities, leveraging our technologies and know-how.



On the following pages, you will find projects addressing real needs, concepts developed to meet specific expectations, examples of completed projects, and installations incorporating energy solutions.

We are at your disposal to help you develop a comprehensive offering and can deliver all your turnkey projects at lower cost and within shorter timelines, while ensuring quality execution in compliance with the standards and regulations of the destination country.

THE COMPANY

DWVG
building prosperity

smart living box

This concept was developed to address multiple needs :

- outdoor kitchen
- energy production and storage for an existing home
- shelter with dining area
- home extension
- emergency housing / disaster relief unit / guest house / tiny home / outdoor living space
- low-income housing solutions
- modular kit delivered with customizable options

Our Concept :

KiBox is a concept that evokes vital energy and the essentials for living in a compact "box". It is a fully autonomous solution, integrating energy production, storage, and a kitchen space, with multiple optional configurations available:

- sleeping area
- lounge space with table
- open layout or fully enclosed option
- high-capacity energy storage
- three available sizes : 2 × 3 meters, 3 × 4 meters, 3 × 5 meters
- three available power capacities : 1200 Wp, 2400 Wp, or 3000 Wp
- solar water heating with insulated storage tank
- rainwater harvesting system
- cold recovery system with storage (air-conditioned option)
- fully equipped kitchen or customized layout according to needs

Compact, practical, accessible for every budget.



KiBox

the smart living box



PRODUCT KiBox

building prosperity



smart living box

unit features :

kitchenette
solar-powered roof
dining and leisure table with bench
open configuration
available in three sizes



unit features :

kitchenette
solar-powered roof
open configuration
available in three sizes

smart living box



unit features :
 two single beds
 kitchenette
 solar-powered roof
 foldable walls

module features
 energy storage system
 water storage tank
 control panel
 cooling unit



specifications
 galvanized steel structure
 steel-framed solar panels
 cladding options : insulated or non-insulated, foldable or fully removable walls

unit features :
 two single beds (folding/pivoting)
 kitchenette
 solar-powered roof
 foldable walls
 dining and leisure table with bench

unit features :
 two single beds (folding/pivoting)
 kitchenette
 solar-powered roof
 foldable walls

unit features :
 one single bed
 one double bed
 kitchenette
 solar-powered roof
 foldable walls
 solar hot water module

unit features :
 two single beds
 kitchenette
 solar-powered roof
 detachable/full movable walls
 dining and leisure table with bench



smart living box

models	2x3 m	3x4 m	3x5 m	table with bench	single beds (2)	single and double beds	energy storage	solar powered roof	rainwater harvesting	kitchenette A	kitchenette B	solar hot water	foldable walls	full movable walls
K01	●	○	○	○	○	○	○	○	○	○	○	○	○	○
K02	○	●	○	○	○	○	○	○	○	○	○	○	○	○
K03	○	○	●	○	○	○	○	○	○	○	○	○	○	○

● standard
 ○ option
 ○ not available

kitchenette A: sink, hotplate or BBQ, mini refrigerator, storage

kitchenette B: sink with hot water, hotplate or BBQ, larger refrigerator, freezer, storage

Key Notes :

- energy can be shared with the neighboring house in addition to on-site storage.
- solar hot water can also supply the adjacent house.
- the energy storage option allows recovery of cooling for both the neighboring house and the KiBox.
- images are for representation only; a full dossier will be provided to the client based on the selected configuration.



student residences

This concept was developed in response to a request to provide large-scale student housing. It can also be extended to worker camps, small tourist accommodations, individual social housing, and similar developments.

Our Concept

Zone Étudiante Nouvelle is a green community concept. Our vision is to create a healthy living environment that addresses today's needs in renewable energy, recycling and waste management, quality of life, and individual well-being — all while living in harmony with nature.

Students are particularly sensitive to environmental preservation and are committed to safeguarding their future and that of the next generations. By definition, students are here to learn. **Adopting behaviors that promote a sustainable future** is a crucial influence on the well-being and long-term prospects of future generations.

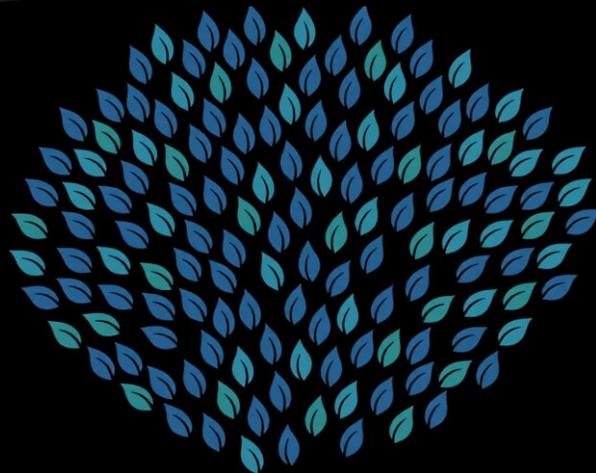
Housing demand:	10,000 student residences
Unit size:	14 m² per room
Private units include:	kitchen, shower room and toilet, bed, workspace
Shared facilities:	dining services and local retail
Current project phase:	preliminary concepts and ideas
Proposed buildings:	multi-residential buildings (G+3)
Project type:	turnkey proposal

Every aspect is designed with **well-being and environmental responsibility** in mind.



PROJECT ZEN

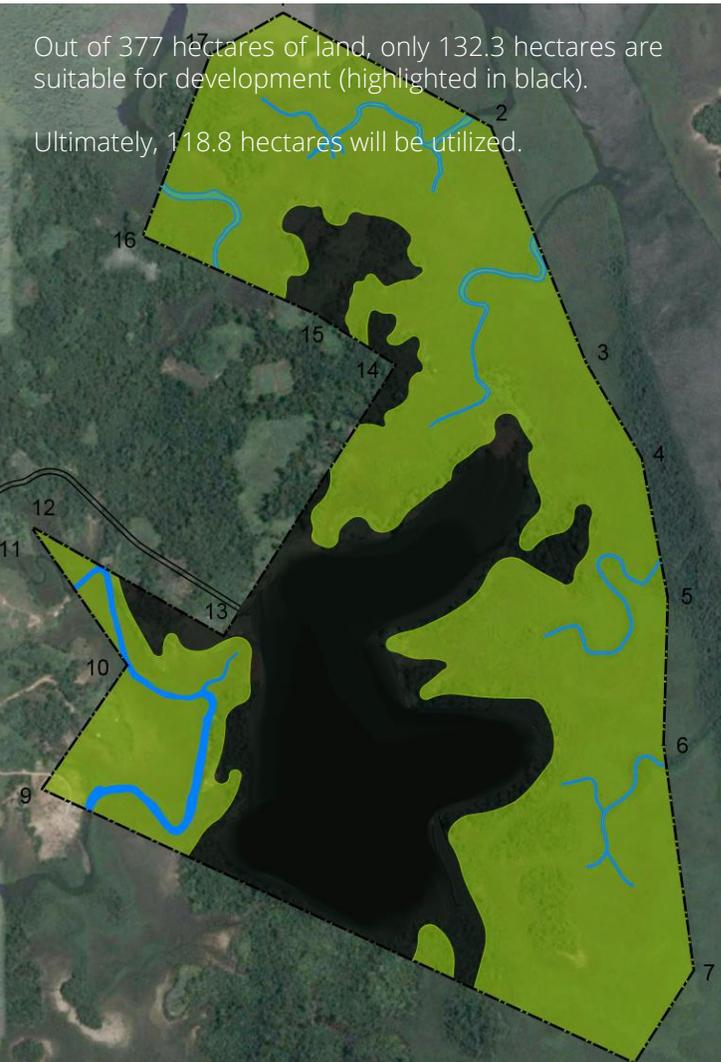
building prosperity



student residences

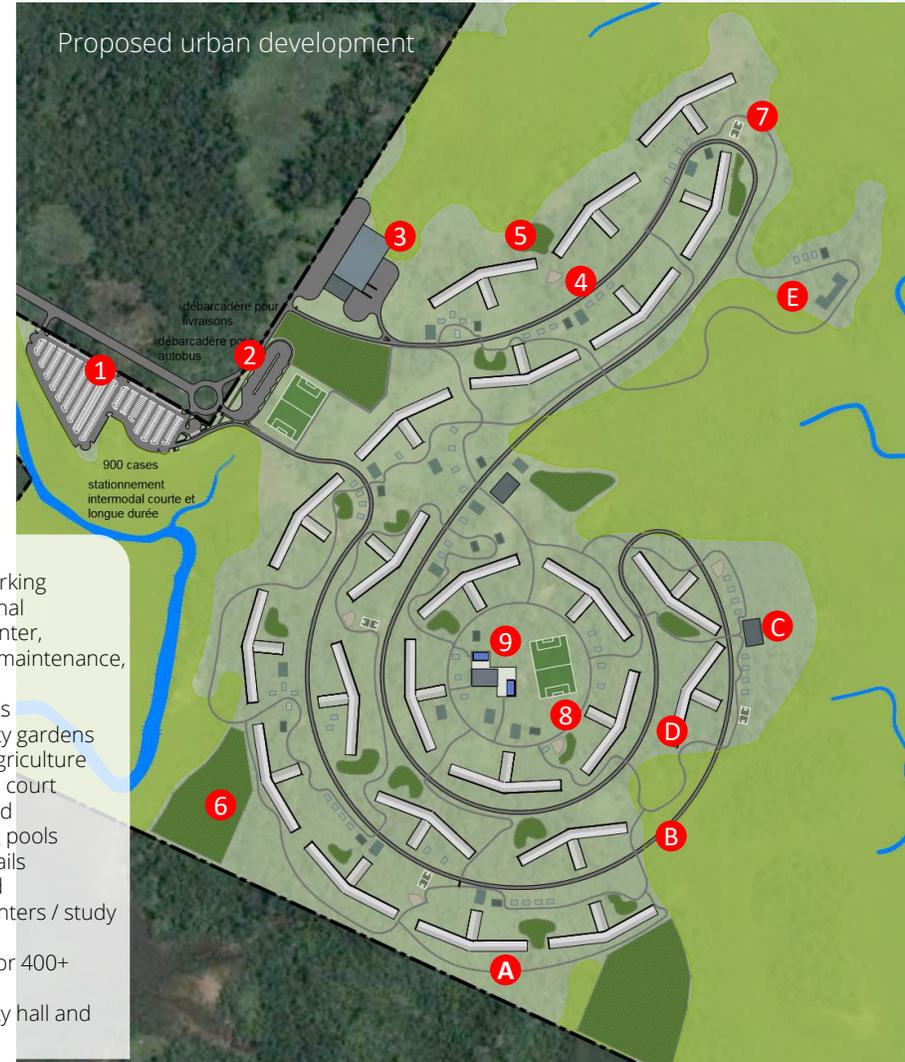
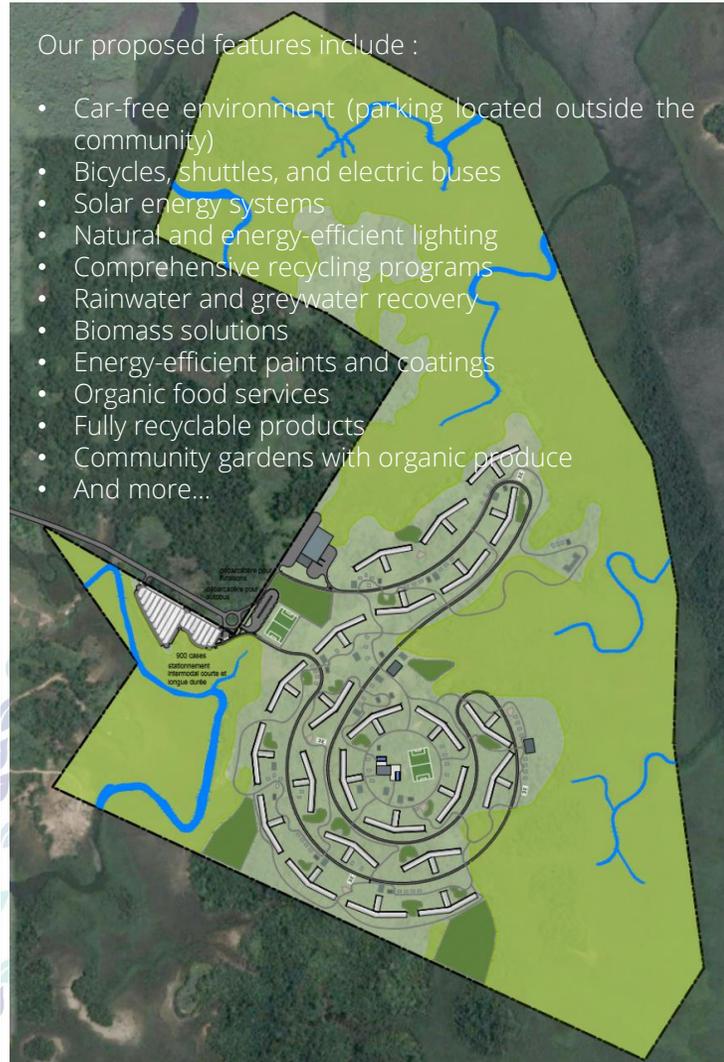
Out of 377 hectares of land, only 132.3 hectares are suitable for development (highlighted in black).

Ultimately, 118.8 hectares will be utilized.



Our proposed features include :

- Car-free environment (parking located outside the community)
- Bicycles, shuttles, and electric buses
- Solar energy systems
- Natural and energy-efficient lighting
- Comprehensive recycling programs
- Rainwater and greywater recovery
- Biomass solutions
- Energy-efficient paints and coatings
- Organic food services
- Fully recyclable products
- Community gardens with organic produce
- And more...



Description :

- 1 - vehicle parking
- 2 - bus terminal
- 3 - sorting center, warehouses, maintenance, and garages
- 4 - local shops
- 5 - community gardens
- 6 - land for agriculture
- 7 - basketball court
- 8 - soccer field
- 9 - swimming pools
- A - tracks / trails
- B - main road
- C - activity centers / study rooms
- D - building for 400+ students
- E - community hall and restaurants

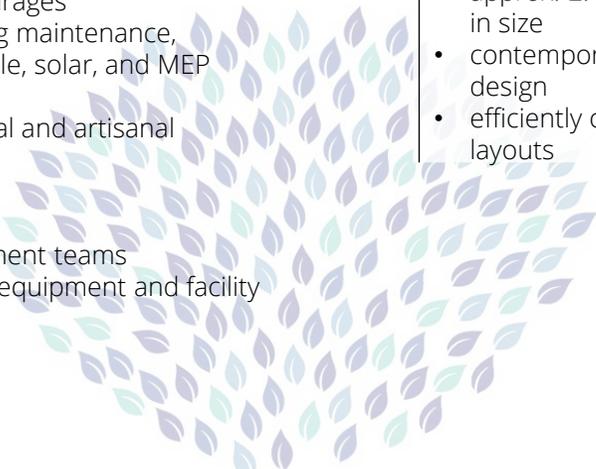
student residences

24 buildings will accommodate 10,000 students, featuring :

- study rooms
- soccer fields
- basketball courts
- gardens
- agricultural plots
- swimming pools
- recreational center
- dining facilities
- indoor and outdoor gyms
- pharmacies, grocery stores, laundries, clinics, etc.

additional services include :

- secured campus
- electric vehicle garages
- teams for building maintenance, mechanical, mobile, solar, and MEP systems
- teams of industrial and artisanal farmers
- driver teams
- security teams
- parking management teams
- teams for sports equipment and facility management

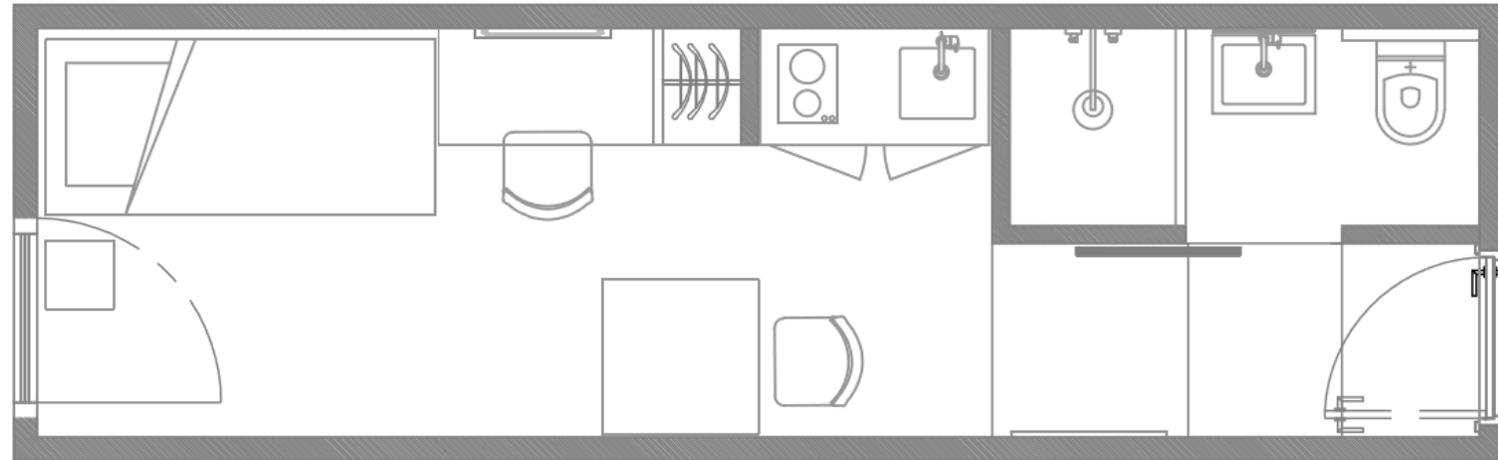


layout features :

- compact kitchen
- fold-away dining table
- bathroom with toilet, shower and sink
- TV
- microwave
- mini fridge

proposed spaces :

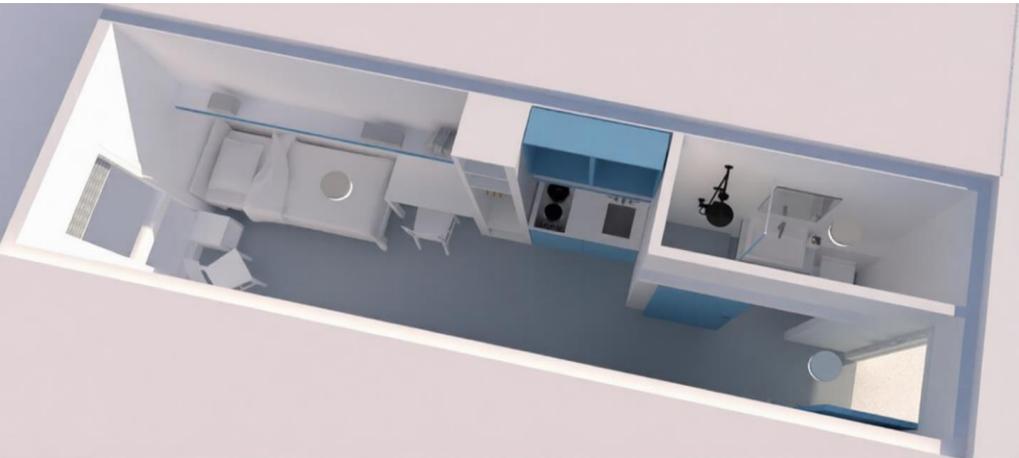
- approx. 2.1 × 7.4 m in size
- contemporary design
- efficiently optimized layouts



student residences

This fully environmentally responsible student residence project embodies a new way of thinking about student housing. It is not merely a building, but a true living space designed for community, connection, and inspiration. By placing the student community at the heart of its design, it promotes well-being, academic success, and collective engagement.

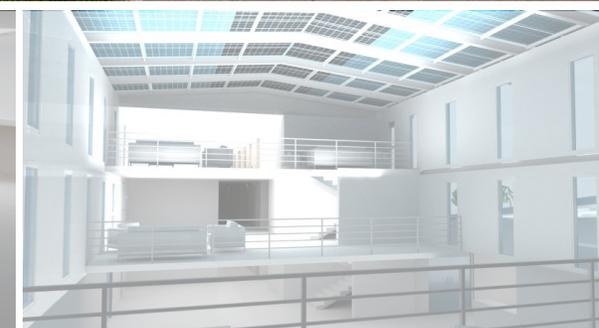
This residence aspires to become a global benchmark in student well-being. It creates a perfect harmony between a place of learning and a place of personal growth. Through its innovative and sustainable character, this project stands out as a unique achievement. It paves the way for a more responsible and more human-centered future for the campuses of tomorrow.



student residences



- residential building:
- four-story building (R+3)
 - main lobby with lounge, recreational areas, and computer stations
 - solar panel-equipped roofs (with possible energy redistribution if the network permits)
 - around 100 units per floor
 - cafeteria and restaurant / market in each building
 - outdoor dining terrace
 - The final building will have an angle configuration as indicated in the urban development plan



new community

This concept was developed in response to a request to deliver multiple affordable housing units, as well as mid-range and social housing. The country is facing significant housing needs that require an immediate and structured response to meet growing demand.

Our Concept

The site allocated for the first phase of the project lies between wetland and solid ground, beyond the city center, in a quiet and peaceful area. Following a thorough review of the land and its development and urbanization potential, we designed a concept structured around a large central square. This central space inspired the symbol of peace.

Thus, the concept of the **Peace District** was born.

Our vision is to create **an urban fabric that prioritizes both quality of life and environmental responsibility**. A well-designed layout helps structure social and economic life around gathering and exchange spaces. Local commerce — including small markets, shops, and local craftsmanship — plays an essential role in residents' daily lives. It provides easy access to essential goods while **generating employment opportunities** within the community.

By promoting local production, economic autonomy is strengthened. The proximity between housing, services, and activities reduces travel needs and improves living conditions. Commercial spaces also become places of social interaction and solidarity. A vibrant urban fabric fosters population stability and helps limit migration toward major cities. It can also attract local initiatives and investment. In this way, urban and economic development support one another, building sustainable communities tailored to the country's realities.

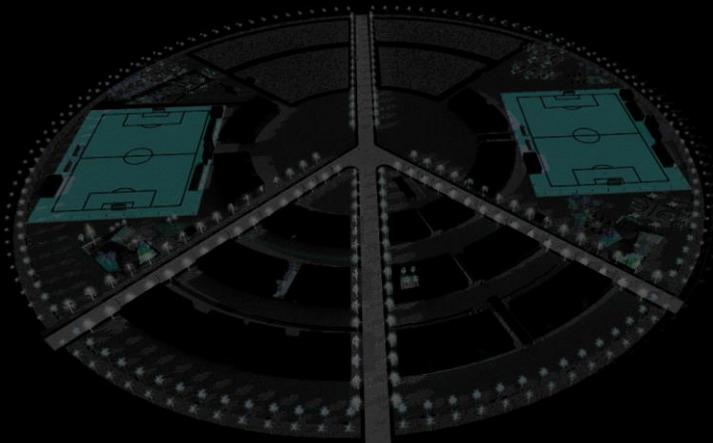


Quartier
de la Paix



PROJECT PEACE DISTRICT

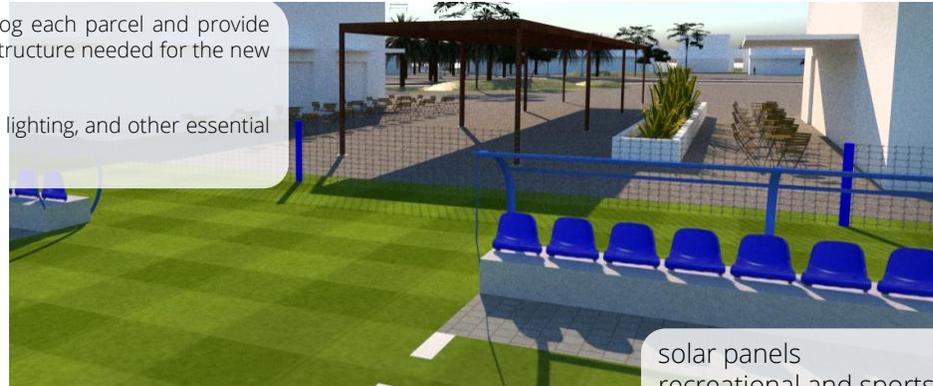
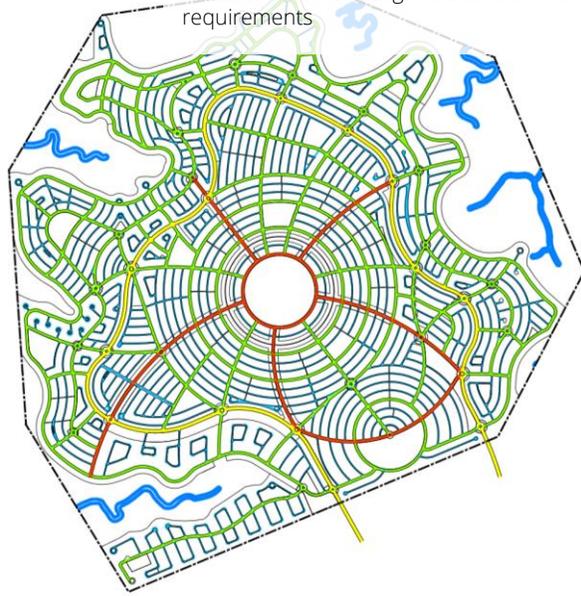
building prosperity



new community

The urban plan organizes all plots to catalog each parcel and provide the full range of services, utilities, and infrastructure needed for the new community.

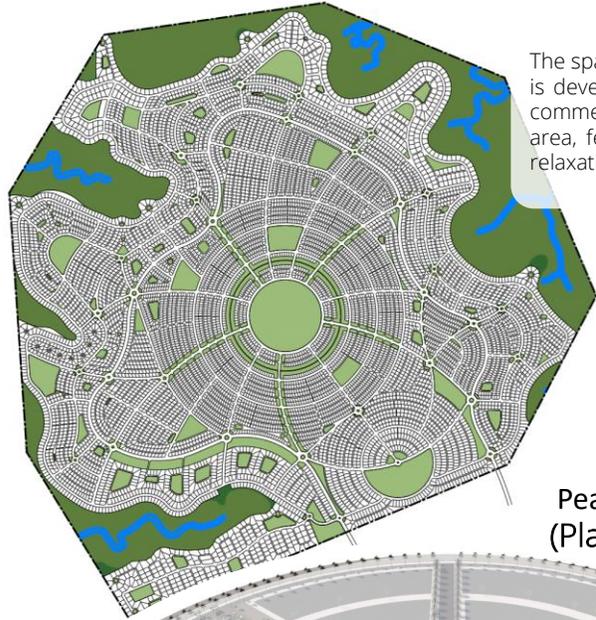
Roads have been designed based on traffic, lighting, and other essential requirements



solar panels
recreational and sports zones
outdoor leisure and dining spaces



new community



The spacious main square is developed as a vibrant commercial and social area, featuring parks and relaxation zones.

Peace Square
(Place de la Paix)



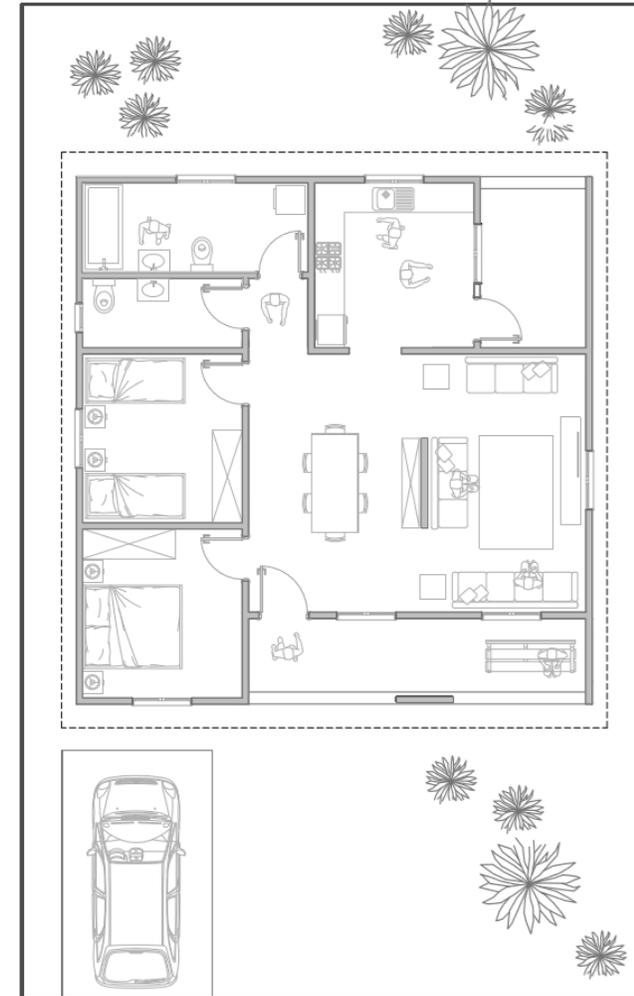
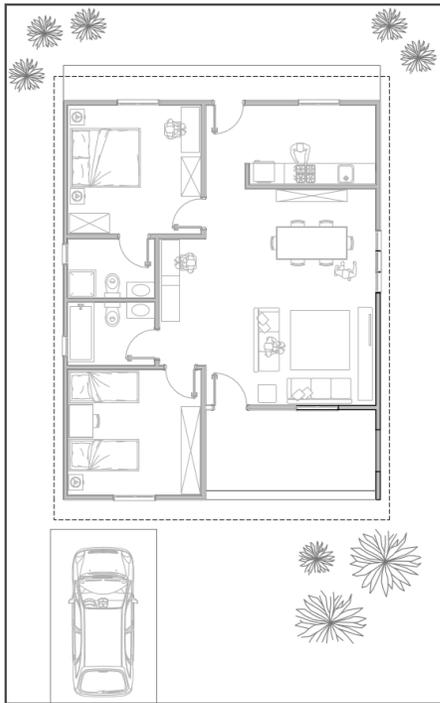
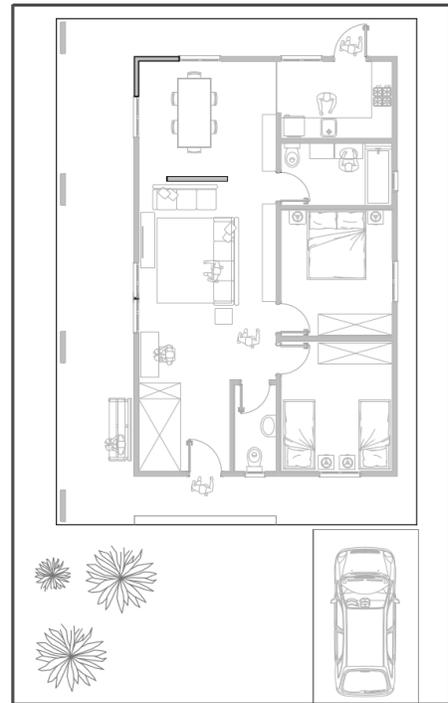
new community



A large market is planned at the heart of Place de la Paix, featuring all the essential local shops to cater to every segment of the new community



new community



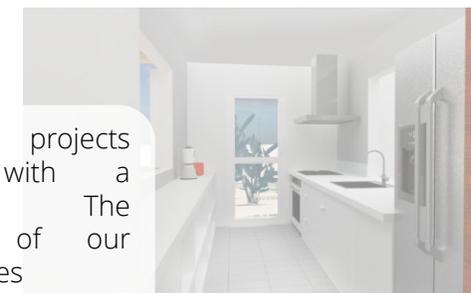
Layout 03 - 90 m2

Layout 01 - 90 m2

Layout 02 - 90 m2

Several house models are planned, with various sizes to meet the needs of the population.

new community



All our projects start with a concept. The quality of our residences exceeds all expectations.



new community



new community



affordable housing

This project proposes the development of two-story affordable homes designed for low-income families. The objective is to create **durable, functional housing** that can be **constructed quickly and efficiently**.

Each home is designed to optimize space while ensuring a comfortable living environment. The layouts prioritize a simple, modular, and easily reproducible structure. Materials are selected for their cost-efficiency, availability, and long-term durability.

The project follows a **large-scale construction** approach in order to reduce unit costs. High production volumes enable optimized logistics and shorter delivery timelines.

The homes feature bright, well-ventilated living spaces. The interior layout clearly separates day and night areas across two levels. Particular attention is given to ease of maintenance and structural robustness. The construction system is designed to be implemented by local labor.

This project aims to respond to **strong demand for accessible housing and quality housing**. It is grounded in a pragmatic approach focused on efficiency and replicability. Altogether, it offers a simple, reliable housing solution tailored to the needs of families.

This program aspires to generate a large-scale positive social impact.

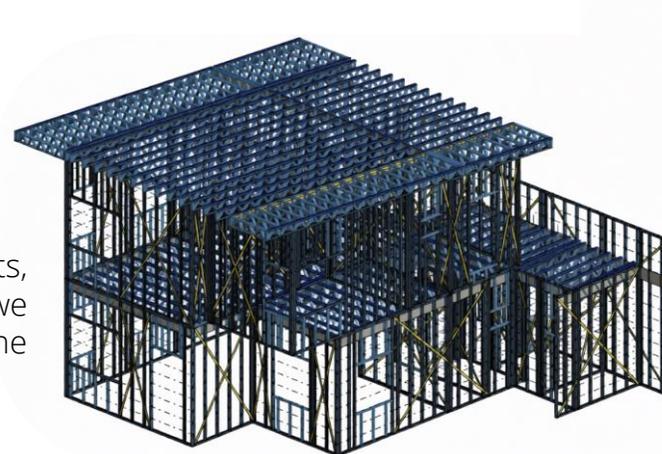


affordable housing

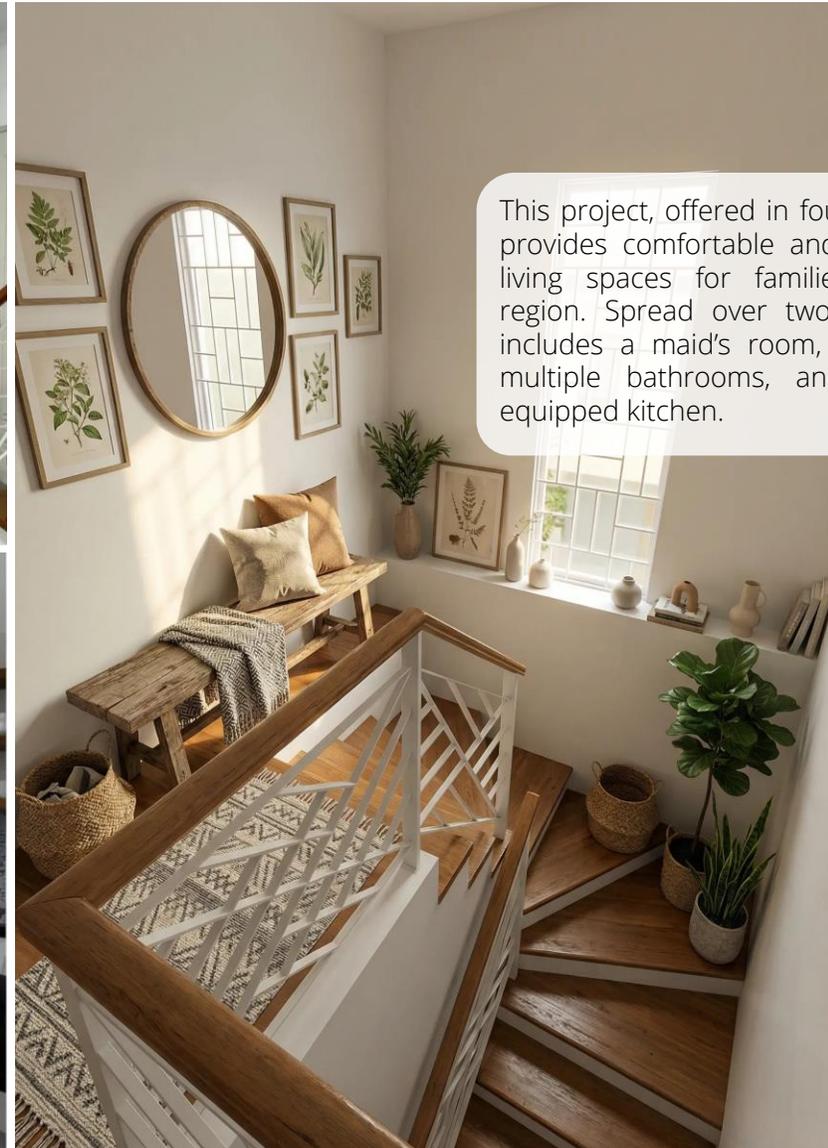


This project was carried out in a high seismic-risk area. The engineering design was therefore developed in compliance with very stringent criteria and significant mechanical constraints, including extreme wind loads.

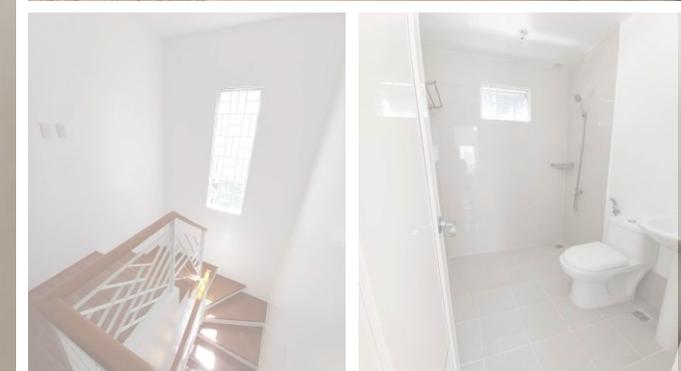
Based on the defined requirements, budgets, timelines, and technical specifications, we completed the design and engineering of the four models agreed upon for the project.



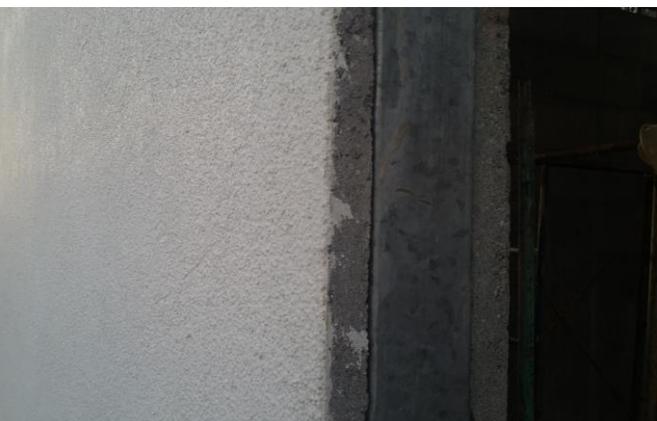
affordable housing



This project, offered in four models, provides comfortable and pleasant living spaces for families in the region. Spread over two floors, it includes a maid's room, an office, multiple bathrooms, and a fully equipped kitchen.



affordable housing



Our proprietary structural system enables fast and cost-efficient construction.

A lightweight concrete mixture, incorporating an organic ingredient that acts as a reactive agent to create air bubbles, enhances the material's insulation properties and stabilizes the assembly without contributing structural strength. The galvanized steel structure provides the full mechanical and load-bearing performance of the building.

affordable housing

Here are other projects that have been carried out, some as collective buildings with R+4 residential units, and others as clustered mini-houses with substantial volumes.



solar roofs

Our technology is an innovative system for integrating photovoltaic modules directly into roofs or façades, designed to combine energy performance, architectural aesthetics, and ease of installation.

Manufactured primarily from stainless and galvanized steel in Europe, this solution provides waterproof, robust, and lightweight solar surfaces, perfectly integrated into the building envelope.

Our **modular system** stands out with its “plug and play” approach: rails and crossbars can be assembled easily without tools or specialized skills, and the photovoltaic modules connect automatically, thereby reducing installation costs and timelines. The technology meets the expectations of architects and engineering offices seeking to design high-performance buildings without compromising on appearance.

Several projects illustrate the system’s **flexibility and efficiency**. In renovations of older buildings, modules integrate with skylights and glazing, creating bioclimatic façades that generate energy while improving interior comfort. In existing homes, the system has been used to equip roofs with fully integrated photovoltaic panels, providing discreet yet efficient solar production. For larger buildings, such as a 400 m² gymnasium or factory roofs, the framework has allowed for extensive solar surfaces while maintaining a smooth and cohesive aesthetic.

The system also allows the integration of other elements, such as **green walls** or **solar hot water systems**, thanks to a single supporting framework that accommodates multiple types of architectural components. These projects demonstrate a versatile solution that transforms ambitious architectural ideas into tangible results, while delivering clean, sustainable energy production.



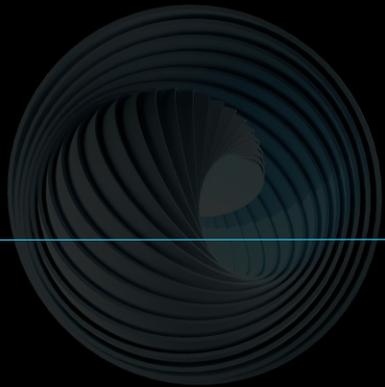
solar roofs



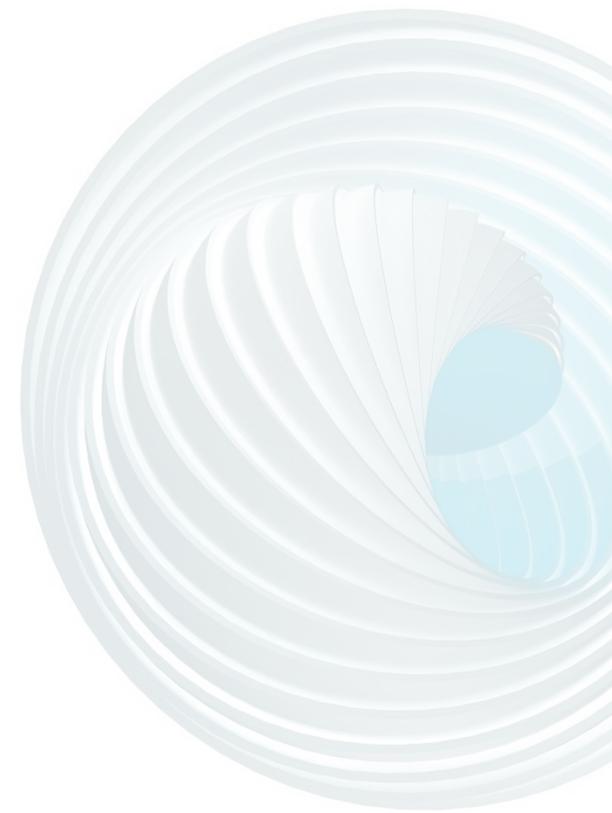
You can see some examples and ongoing installation projects. The finish and specifications are superior to all other products. They exceed the expectations of all building stakeholders and clients.

solar roofs





thank you
PWG
building prosperity



get in touch
www.pwgeurope.com
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representative office :