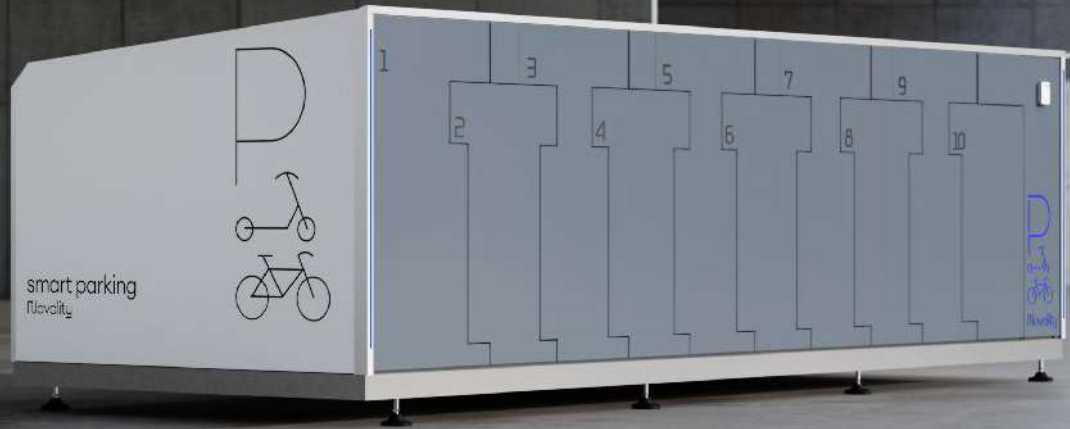


2024



# Novality

bike & scooter smart parking

# Always moving

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# The city of the future

At Novality we are committed to developing technological solutions that improve sustainable mobility in cities.

We work to drive positive change in the way we move, offering **innovative solutions** that facilitate efficient and environmentally friendly trips.

Our solutions are designed to improve accessibility, reduce traffic congestion and promote a healthier, more sustainable lifestyle.



# The new mobility

The use of **sustainable mobility** vehicles is gaining ground compared to more polluting combustion vehicles, since new generations have increased their use for their daily way of transport. This is due to

the sensitivity shown by youth in everything related to the care of the planet and the low cost of this type of sustainable vehicles.

## ODS 2030

As core of the 2030 Agenda, the Sustainable Development Goals (SDGs) are a set of global goals designed to eradicate poverty, protect the planet and ensure global prosperity.

Our proposal is mainly aligned with 4 of these goals:



**ODS 3. Good health and well-being.**  
“Ensure healthy lives and promote well-being for all at all ages”



**ODS 9. Industry, innovation and infrastructure.**  
“Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation”



**ODS 11. Sustainable cities and communities.**  
“Make cities and human settlements inclusive, safe, resilient and sustainable”



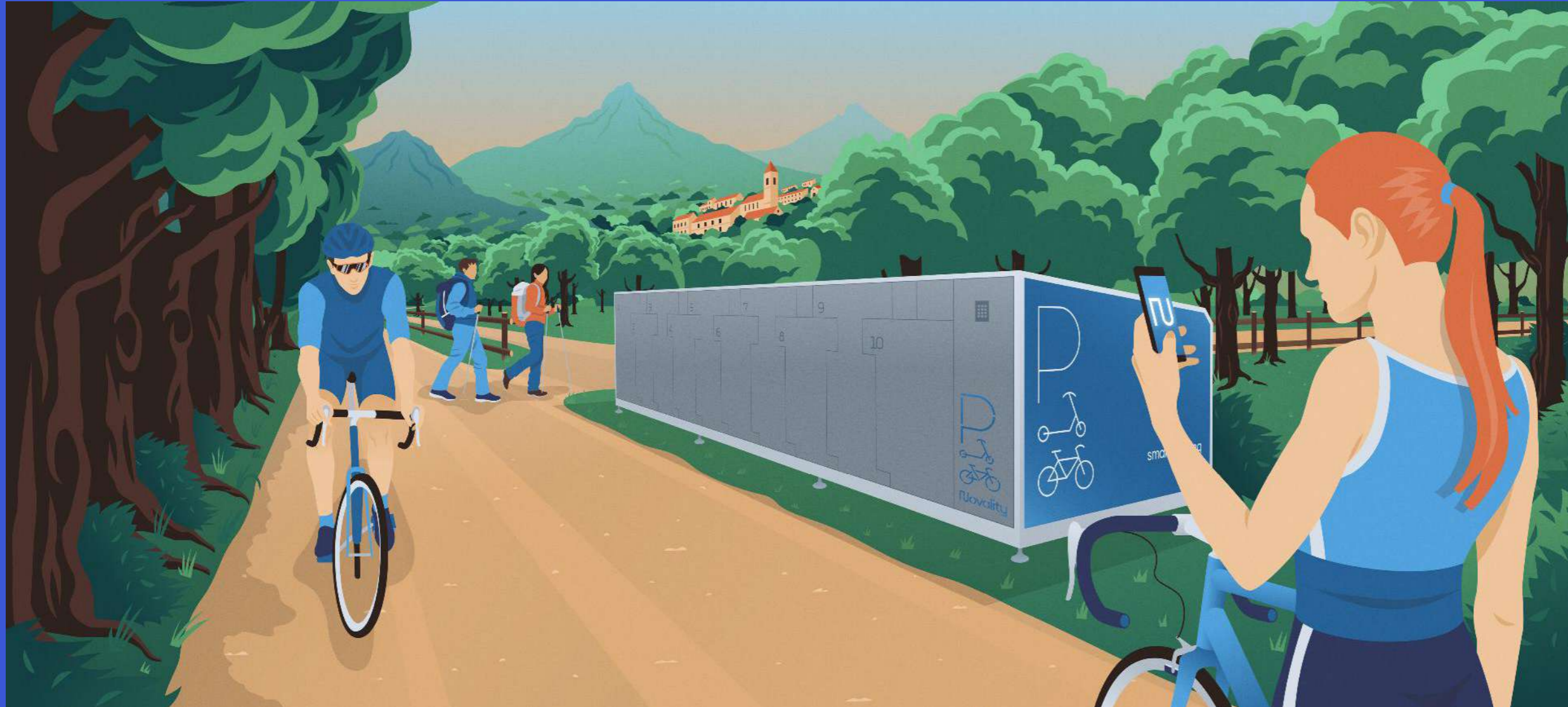
**ODS 13. Climate action.**  
“Take urgent action to combat climate change and its impacts”.

# Integration and sustainability

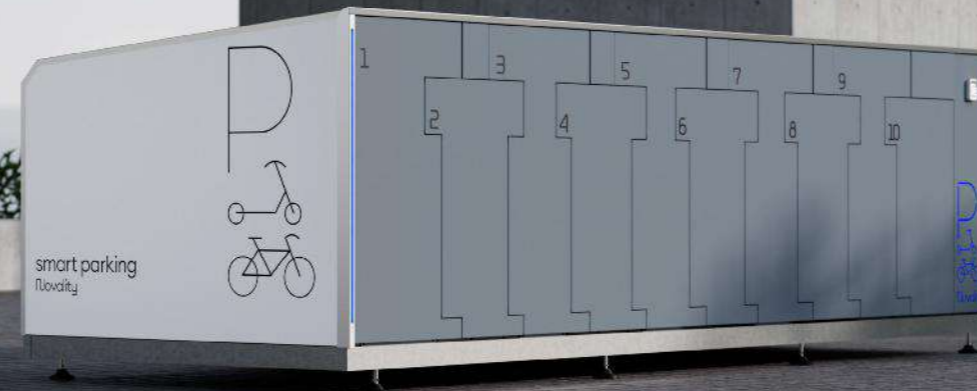
Urban integration of the parking box in your city with an attractive and personalised aesthetic thanks to the **wide variety of finishes** that the enclosure can have.

At Novality we are committed to sustainability, our system allows the installation of **photovoltaic panels**, providing a renewable source of energy.

Additionally, we offer the option of incorporating a **natural vertical garden**, which not only improves the aesthetics of the surround, but also brings environmental benefits.



# Creation with no limits



The diversity of needs of our customers have driven us to rapidly develop a **wide and ongoing expanding range** of secure, smart and connected parking spaces for bicycles and scooters. Thanks to our experienced Design & Development team,

we are able to respond to the changing needs of the market, offering a high degree of customisation to meet them.

At Novality, **innovation** and flexibility are key pillars that allow us to turn ideas into

tangible realities, exceeding any pre-established limits. With a focus on excellence, we ensure that each project not only meets, but also exceeds expectations, delivering unique results

# Ingenuity and virtuosity



The Novality range of parking stations has been designed taking into account the demanding conditions to which street furniture is subjected, such as vandalism, atmospheric agents and other circumstances that occur on public roads such as dog urine. This is why the use of a robust hot-dip galvanised frame for the lower part, as it is the most affected in particular.

Likewise, the inner tubular structure is hot-dip galvanised, the lockers sheets are galvanised and the outer enclosure is composed of a high-pressure

laminated HPL material on a galvanised sheet and has very suitable and resistant properties.

The modular nature of both the interior and exterior structure allows the replacement of any element that may be affected by vandalism or the passage of time, guaranteeing a long service life and an optimal state of conservation meanwhile. Furthermore, thanks to its **common self-supporting frame**, both installation and a potential **relocation** is very simple and economical.

Thanks to the configuration of our **T-shaped lockers on two levels** and their arrangement, in addition to creating interior shelves at the ideal height to comfortably place a helmet and other belongings, we achieve a minimum occupancy in the longitudinal direction, making it the only parking model of these dimensions with individual lockers on the market. Thus, our module can be installed in the **car parking line**, occupying only one parking space, avoiding the occupation of public roads, as we know that space is a scarce commodity in cities.



# High technological capacity

Novality has been certified by the **FIWARE** Foundation, a platform promoted by the European Union for the development and global deployment of future Internet applications, encouraging the adoption of standards implemented through open source tech-

nologies. These standards facilitate the development and commercialisation of smart solutions within different sectors, among which **SMART CITIES** stands out.

All this implies important advantages:

- Easy to implement
- Ensures interoperability
- Easy scalability
- Easy replicability
- Provides context information in a massive way

We have developed a dashboard using **Power BI** to provide managers with precise mobility data, being able to filter them as desired, obtain reports and export them to spreadsheets.

Novality parking modules are fitted with a **Schneider industrial PLC**, which guarantees greater reliability in its operation compared to other hardware solutions. What's more, communications are encrypted as they go through tunnels, providing total security.

Life Is On

**Schneider**  
Electric

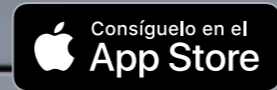


FIWARE-Ready



# Connected with the user

Parking box is managed through the simple and intuitive Novality APP, available for both iOS and Android.

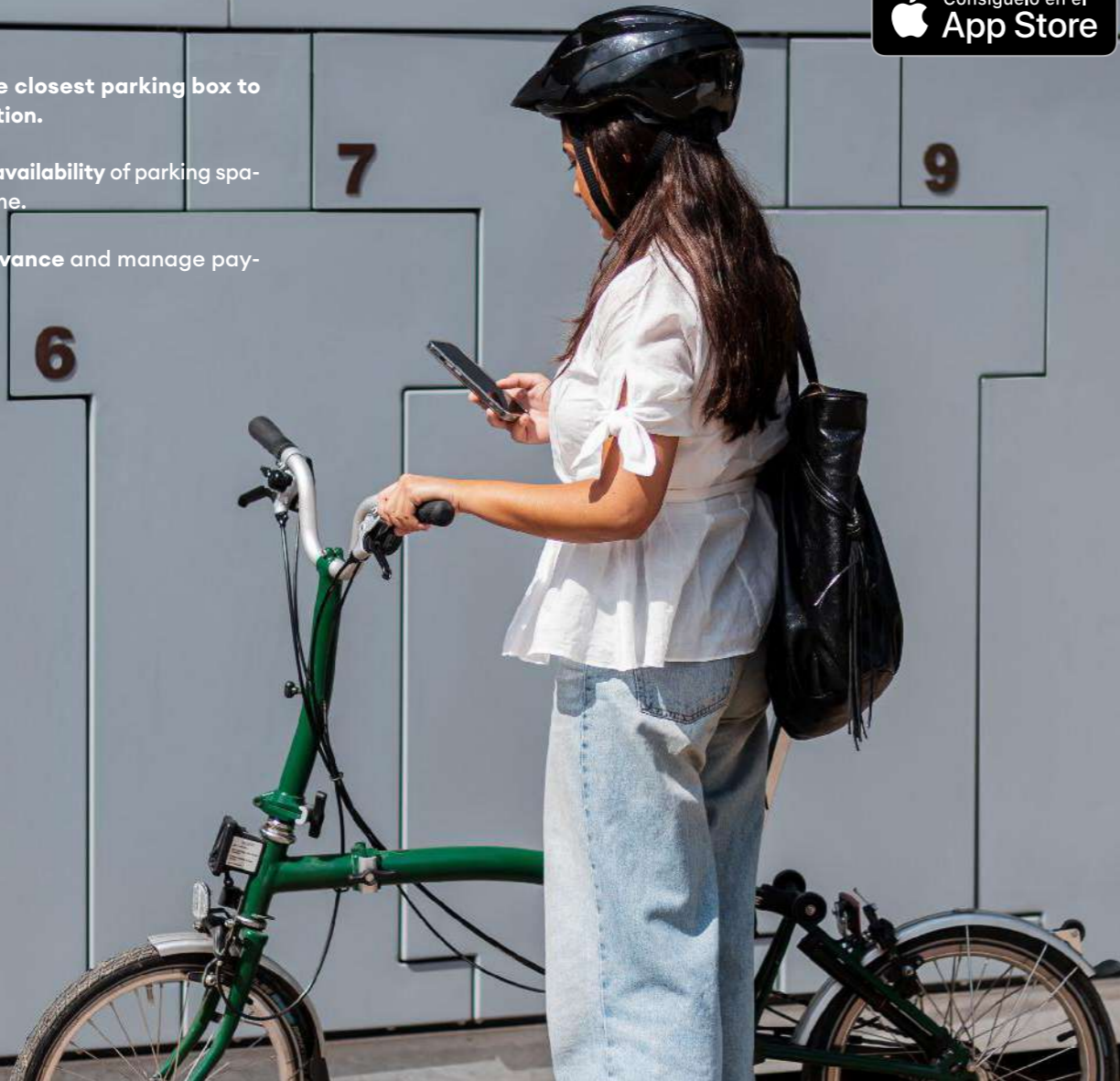


Through the APP the user can:

→ Locate the closest parking box to your destination.

→ Check the availability of parking spaces in real time.

→ Book in advance and manage payments.



Likewise, and in everything related to the digital gap, it is possible to use the parking box without needing technological applications, to avoid inequality in access to it by citizens. Anyone who so requests can reach a Call Centre, who will give a numerical code to enter on a keyboard located in the upper right part of the parking box each time they want to use it.

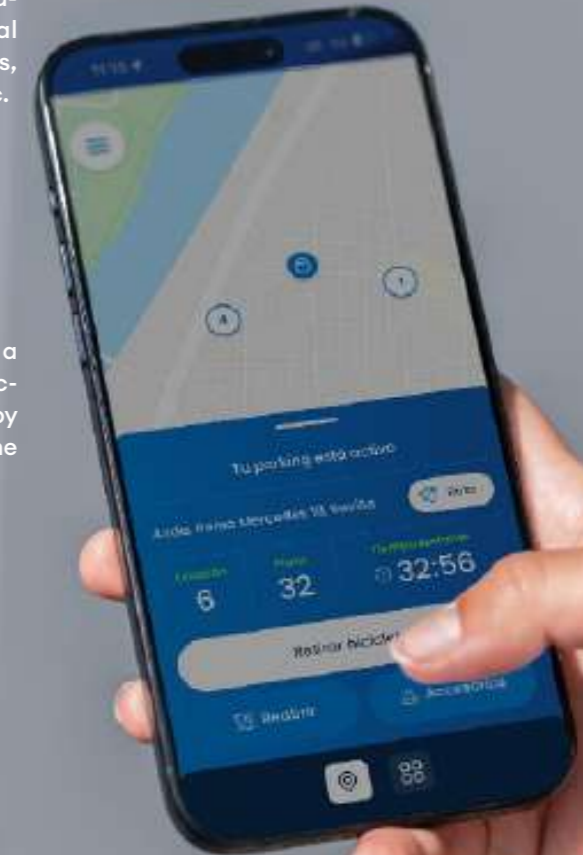
There are other options to manage parking boxes without the need to use the app and therefore without incorporating the necessary hardware. This possibility, which saves both parking and its subsequent maintenance, is really interesting when the system is not used on a rotational basis and management with the app loses its meaning, and it has alternative modes of use such as:



Opening the lockers by reading an **RFID** card. These locks are battery-operated and are an ideal gyms, workplaces, study centres, neighbourhood communities, etc.



Opening the lockers by means of a digital keypad located in each locker, the user will be able to use it by entering a numerical code that the user himself creates.



# Maximum security

These lockers are equipped with **electronic locks**, eliminating the need to carry a padlock and offering greater convenience for the user. In addition,

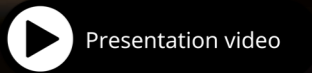
there is a **charging point** in each locker and have enough space to store your helmet, backpack and other personal belongings in complete privacy.



# Convenient and user-friendly

Make use of your locker without having to enter any premises. To park your bicycle, place the rear wheel in the locker guide, hang the

handlebar on the hook and slide it inwards. This ensures it is in place and thus avoids bumping and rubbing against the locker walls.



# Parking solutions for bicycles and scooters

At Novality we have developed the most complete range of smart parking stations.

A range that never stops growing, continuously incorporating new developments adapted to the changing needs of cities.

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## Range

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## Models

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### Surface

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B10

M20

B7

B5

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### Hybrid

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### Underground

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### Scooter

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SC5



# Surface

Novality 2024



# Hybrid



# Underground



# Scooter



# 01 Surface range

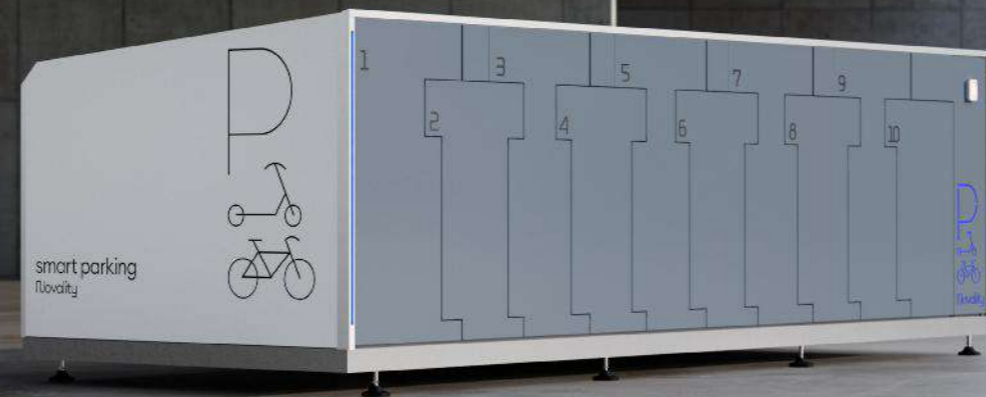
Novality 2024

The Surface range is defined by being composed only of surface models where no civil works are required. Parking boxes can be relocated without having to be dismantled and reassembled in

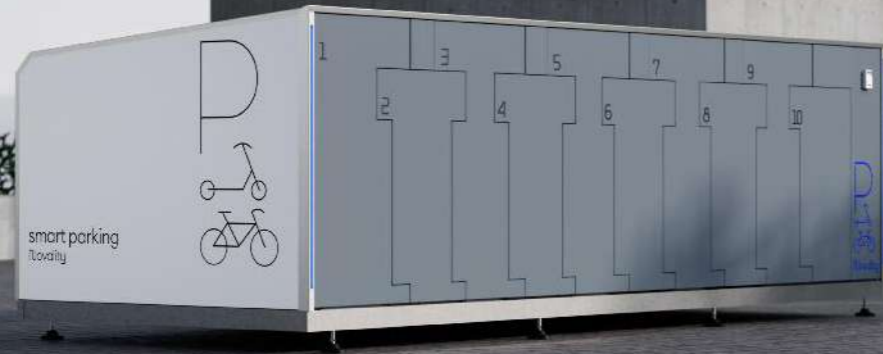
the new location. This is done in a very quick, simple and economical way by having 4 anchor points on the frame, for loading and unloading using a boom truck. In the event of more lockers be-

ing required, modules of ten lockers can be added, becoming the Large models (L20 & L40)

# Smart. Secure. Flexible.



# Technical features



Maximum use of space

# Surface B10

## General

Capacity:



Dimensions:

Length: 5360 mm

Height: 1550 mm

Width: 2012 mm

Weight: 1.200 kg

Power:

230VAC single phase

Power consumption: 80W

## Materials and finishes

### Interior

→ Hot galvanised steel structure and frame according to ISO1461.

→ Interior elements stove-enamelled in RAL 7016.

### Exterior

→ Galvanised steel doors RAL7001 stove-enamelled.

→ Enclosure in HPL material for anti-graffiti exterior. Wide range of colours to choose from.

## Optional



**Enclosure finished in KRION.**  
Range of colours to choose from.



**Charging point**  
One point per locker.  
Schuko with IP55 cover.



**Solar Kit**  
With 1.1 kW power panels, 2 250Ah 12V AGM batteries and one 3000W inverter.



**Screen**



**EV charging point**

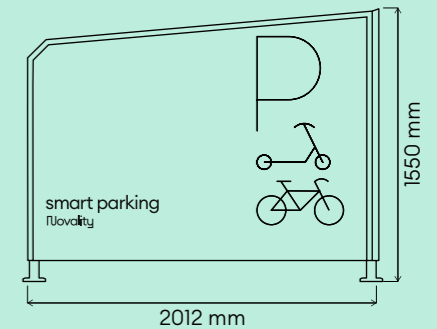
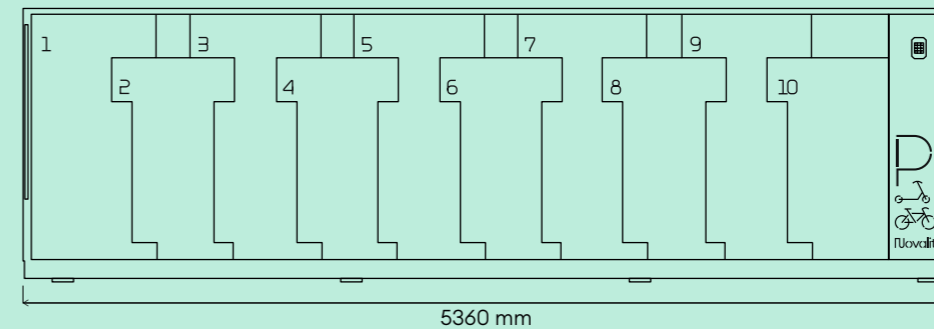


**Natural vertical garden**  
Installed at the back with irrigation system.

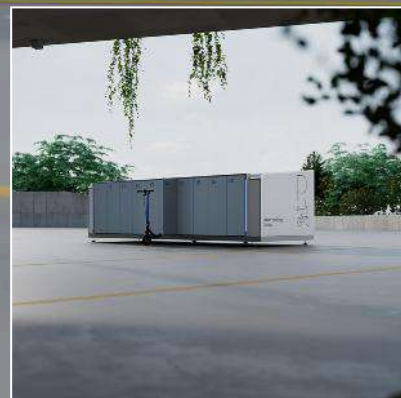


**Sensors for measuring different parameters**  
Such as air quality, noise, people gauges, etc.

## Dimensions



## Technical features



Large  
capacity in  
the smallest  
area

## Surface M20

### General

#### Capacity:

10  10 

#### Dimensions:

Length: 5360 mm

Height: 1550 mm

Width: 2012 mm

Weight: 1.400 kg

#### Power:

230VAC single phase

Power consumption: 80W

### Materials and finishes

#### Interior

→ Hot galvanised steel structure and frame according to ISO1461.

→ Interior elements stove-enamelled in RAL 7016.

#### Exterior

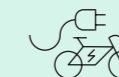
→ Galvanised steel doors RAL7001 stove-enamelled.

→ Enclosure in HPL material for anti-graffiti exterior. Wide range of colours to choose from.

### Optional



**Enclosure finished in KRION.**  
Range of colours to choose from.



**Charging point**  
One point per locker.  
Schuko with IP55 cover.



**Solar Kit**  
With 1.1 kW power panels, 2 250Ah 12V AGM batteries and one 3000W inverter.

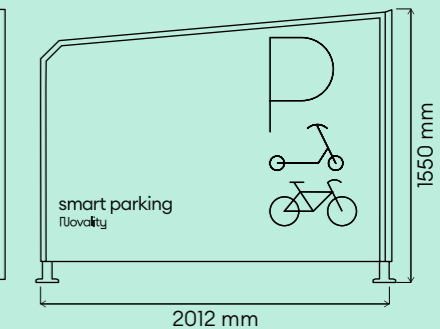
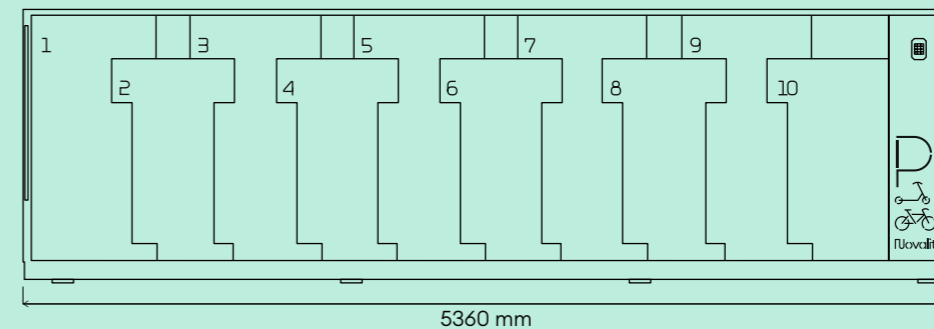


**Screen**



**EV charging point**

### Dimensions



## Technical features



Reduced height  
to 1.3m

## Surface B7

### General

Capacity:



Dimensions:

Length: 5360 mm

Height: 1315 mm

Width: 2012 mm

Weight: 1.200 kg

Power:  
230VAC single phase

Power consumption: 80W

### Materials and finishes

#### Interior

→ Hot galvanised steel structure and frame according to ISO1461.

→ Interior elements stove-enamelled in RAL 7016.

#### Exterior

→ Galvanised steel doors RAL7001 stove-enamelled.

→ Enclosure in HPL material for anti-graffiti exterior. Wide range of colours to choose from.

### Optional



**Enclosure finished in KRION.**  
Range of colours to choose from.



**Charging point**  
One point per locker.  
Schuko with IP55 cover.



**Solar Kit**  
With 1.1 kW power panels, 2 250Ah 12V AGM batteries and one 3000W inverter.



**EV charging point**

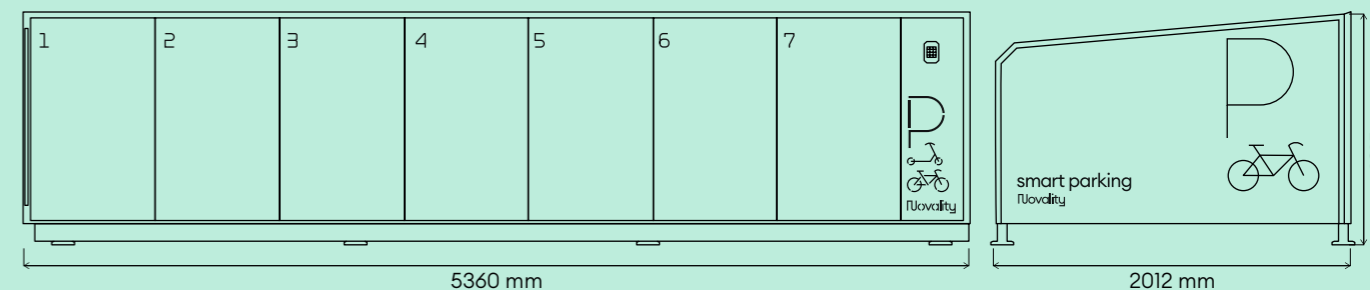


**Natural vertical garden**  
Installed at the back with irrigation system.

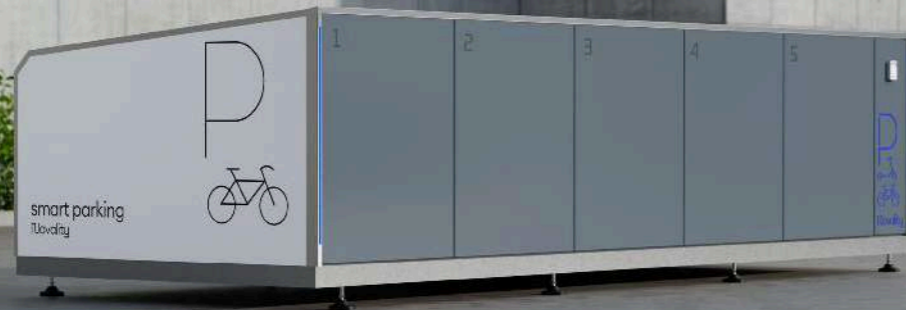


**Sensors for measuring different parameters**  
Such as air quality, noise, people gauges, etc.

### Dimensions



## Technical features




# The perfect solution for cargo bikes

Novality 2024

## Surface B5

### General

#### Capacity:

5 

Large capacity bicycles

#### Dimensions:

Length: 5360 mm

Height: 1315 mm

Width: 2012 mm

Weight: 1.200 kg

Power:  
230VAC single phase

Power consumption: 80W

### Materials and finishes

#### Interior

→ Hot galvanised steel structure and frame according to ISO1461.

→ Interior elements stove-enamelled in RAL 7016.

#### Exterior

→ Galvanised steel doors RAL7001 stove-enamelled.

→ Enclosure in HPL material for anti-graffiti exterior. Wide range of colours to choose from.

### Optional



**Enclosure finished in KRION.**  
Range of colours to choose from.



**Charging point**  
One point per locker.  
Schuko with IP55 cover.



**Solar Kit**  
With 1.1 kW power panels, 2 250Ah 12V AGM batteries and one 3000W inverter.



**EV charging point**

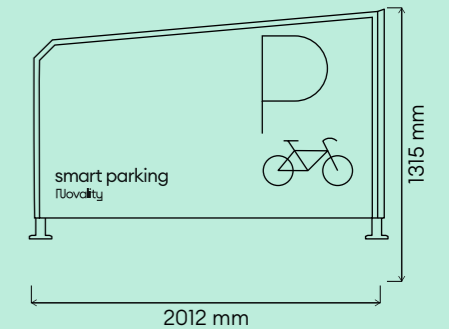
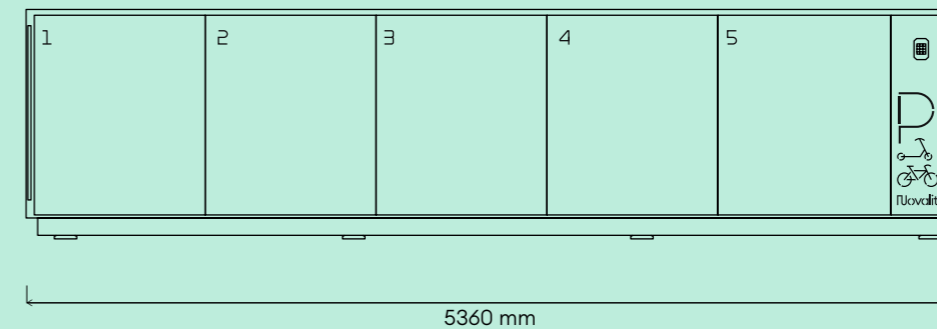


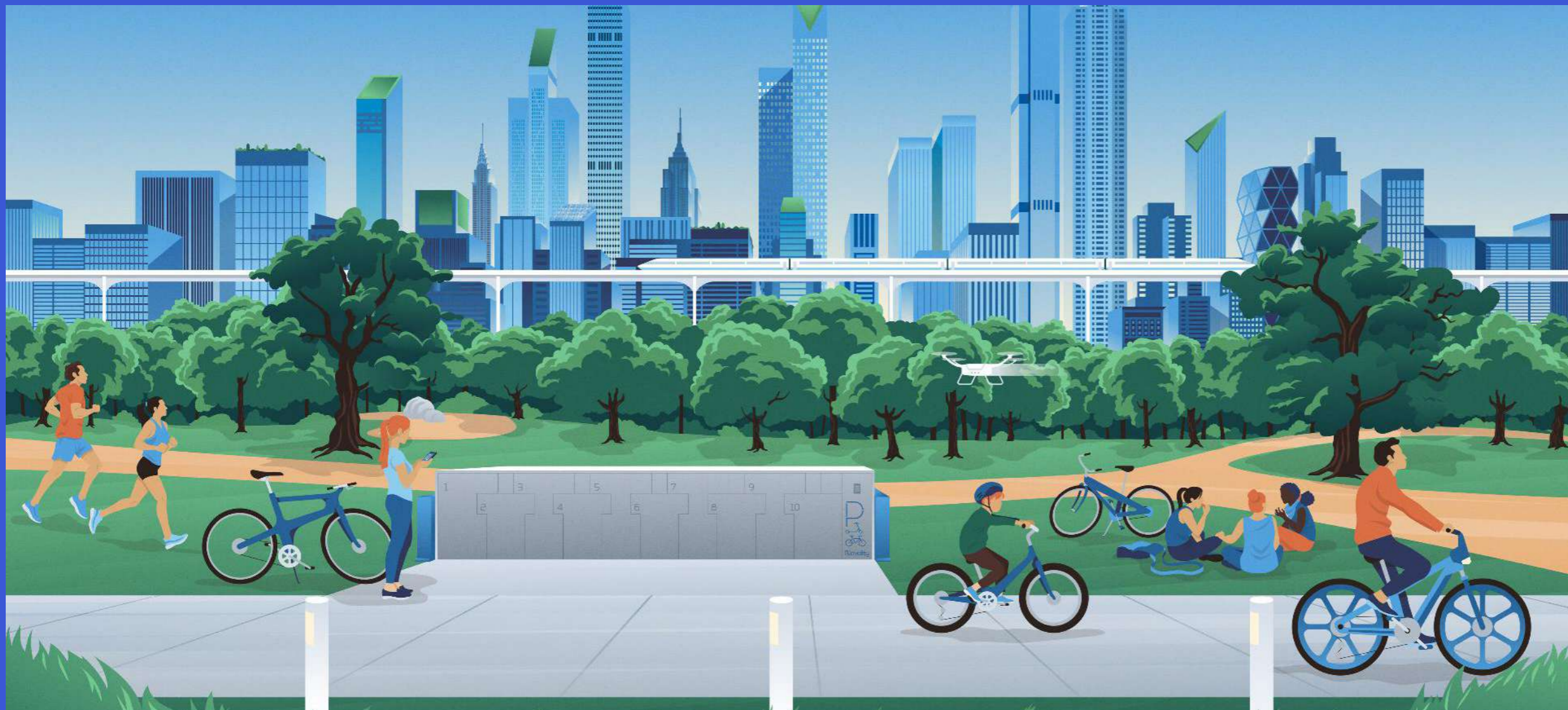
**Natural vertical garden**  
Installed at the back with irrigation system.



**Sensors for measuring different parameters**  
Such as air quality, noise, people gauges, etc.

### Dimensions





## 02 Hybrid range

Novality 2024

Unlike the underground version, the Hybrid range is partially concealed being at a height of 1 meter above the road, and rises 60 cm in just 4 seconds after the reservation is activated through the Novality App, remaining at the same height as the Surface

model so that the bicycle/scooter can be introduced or removed, subsequently retracting automatically to its resting position.

The parking box is surrounded by a wall that allows for multiple aesthetic possibilities, with the necessary excavation being just over one meter, avoiding water table problems.

This range also stands out for its reduced visual impact and its security, as the doors are partially concealed, preventing access to the lockers.

## Technical features



Parking in lower position



# Minimum visual impact

# Hybrid

## General

Capacity:

10 

Dimensions:

Length: 5582 mm

Height: 1502 mm

Width: 2236 mm

Weight: 2.300 kg

Power:

400V trifásica

Power consumption: 80W

Lifting motor: 3kW.

Automatic lifting and levelling in onl 4 seconds.

Excavation:

1m. The unit is retracted 1m high above the road.

## Materials and finishes

### Interior

→ Hot galvanised steel structure and frame according to ISO1461.

→ Interior elements stove-enamelled in RAL 7016.

### Exterior

→ Galvanised steel doors RAL7001 stove-enamelled.

→ Enclosure in HPL material for anti-graffiti exterior. Wide range of colours to choose from.

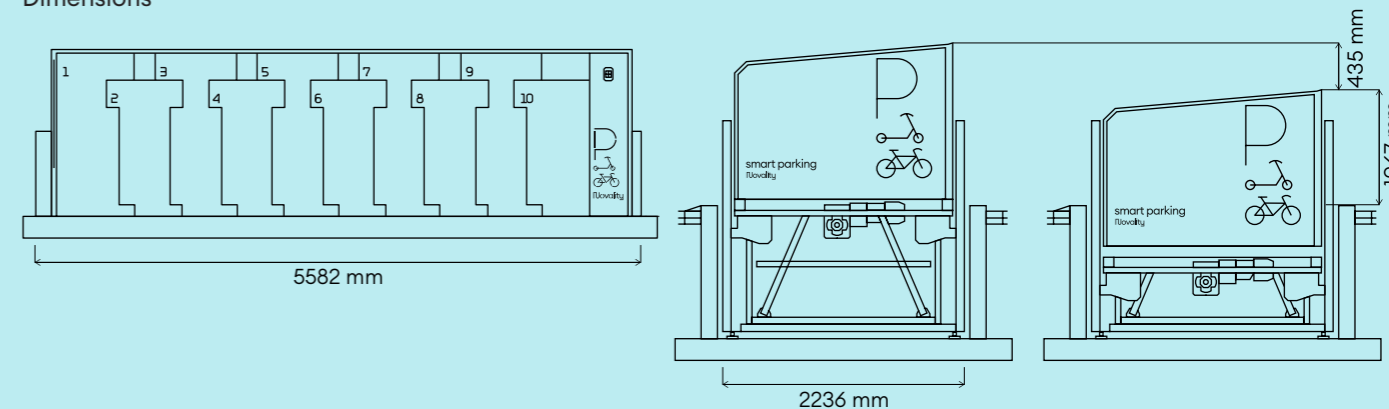
## Optional



### Charging point

One point per locker.  
Schuko with IP55 cover.

## Dimensions





03

# Underground range

Novality 2024

The Underground model stands out from the rest for its unique design worldwide, being **under surface**. Therefore, it not only provides **total security**, but also avoids any **visual impact**. This innovative model has an electrically driven lifting platform with a motor of only 3kW,

without hydraulic elements, thus achieving a completely uniform and perfectly regulated movement.

without hydraulic elements, thus achieving a completely uniform and perfectly regulated movement.

## Technical features



## The invisible parking box



# Underground

### General

Capacity:

10 

Dimensions:

Length: 5360 mm

Height: 1490 mm

Width: 2030 mm

Weight: 2.300 kg

Power:

400V trifásica

Power consumption: 80W

Lifting motor: 3kW.

Automatic lifting and levelling in onl 4 seconds.

Excavation:

1m. The unit is retracted 1m high above the road.

### Materials and finishes

#### Interior

→ Hot galvanised steel structure and frame according to ISO1461.

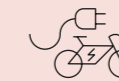
→ Interior elements stove-enamelled in RAL 7016.

#### Exterior

→ Galvanised steel doors RAL7001 stove-enamelled.

→ Enclosure in HPL material for anti-graffiti exterior. Wide range of colours to choose from.

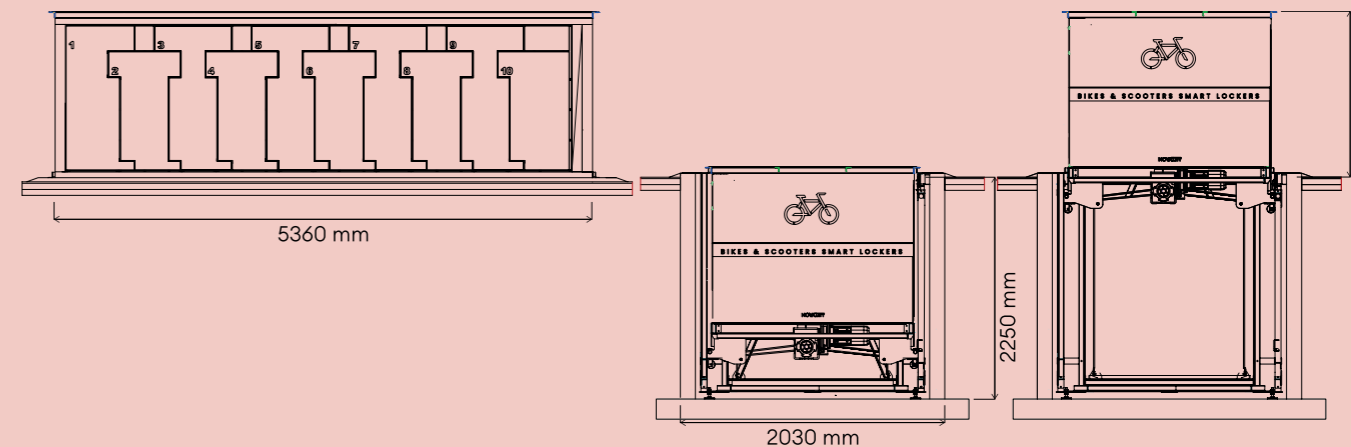
### Optional



#### Charging point

One point per locker.  
Schuko with IP55 cover.

### Dimensions





## 04 Scooter range

Novality 2024

Parking designed exclusively for personal scooters, and suitable for installation both indoors and outdoors.

Like the other models, it is equipped with **individual lockers** and has a high-resistance electronic lock.

When opening the door, using the Novality APP, the user finds on one side a space for the scooter and on the other a locker equipped with **LED** lighting, completely sealed to protect the helmet and other objects from the outer elements. Each locker has a **charging point** inside,

thus providing a comprehensive solution for the user.

Orderly security.



## Technical features




Individual lockers  
& recharging

Novality 2024

# SC5

## General

Capacity:

5 

Dimensions:

Length: 1787 mm

Height: 901 mm

Width: 1053 mm

Weight: 60 kg

## Materials and finishes

### Interior

→ Hot galvanised steel structure and frame according to ISO1461.

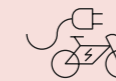
→ Interior elements stove-enamelled in RAL 7016.

### Exterior

→ Galvanised steel doors RAL7001 stove-enamelled.

→ Enclosure in HPL material for anti-graffiti exterior. Wide range of colours to choose from.

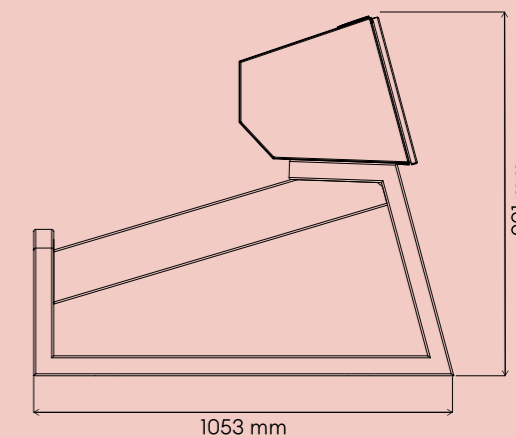
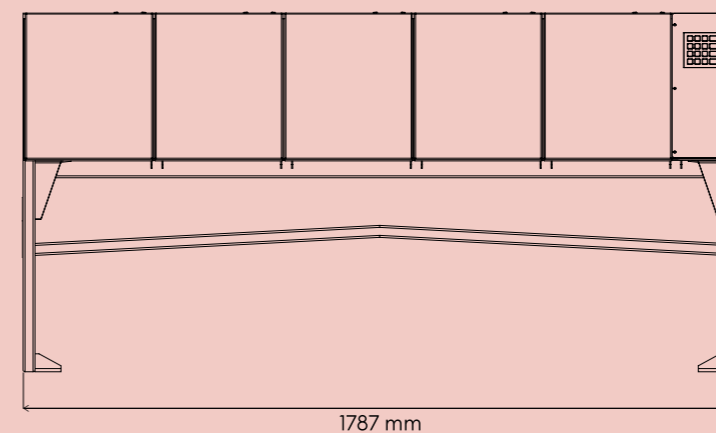
## Optional



### Charging point

One point per locker.  
Schuko with IP55 cover.

## Dimensions



# Novality skin



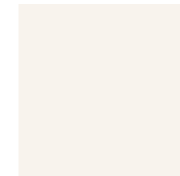
After numerous tests with different materials, **HPL** has been selected. It consists of a high-pressure laminate resistant to scratches and high temperatures, anti-graffiti, durable and highly hygienic due to its zero porosity.

Available in a variety of colours and textures, allowing great versatility in design.

## Standard

## Colour shades

## Textures



White



Cobalt Blue



Green



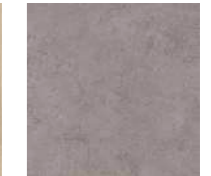
Beige



778  
Rovere Gardena



781  
Frassino Frisia



559  
Petra

The parking box skin can be replaced on site throughout its lifetime, thus being able to maintain the same look as the first day during said period, and all of this very simply and economically.



# Optional features

Depending on the selected parking model, it is possible to incorporate elements that increase the functional and aesthetic advantages of our parking boxes.



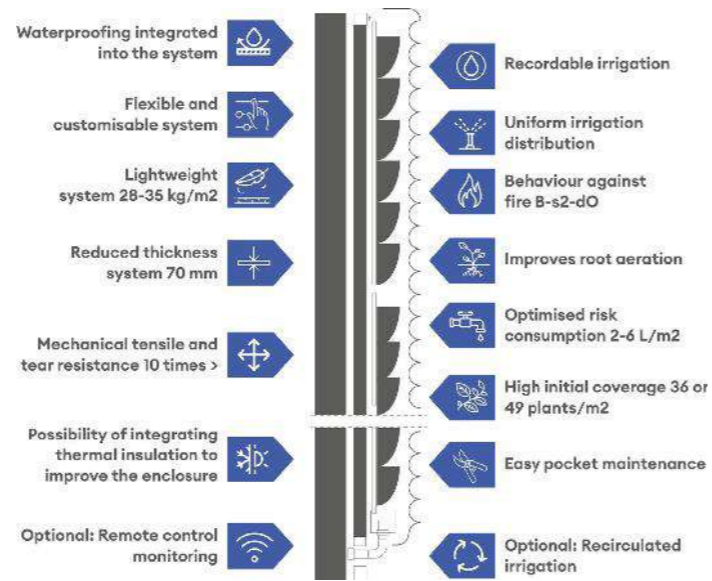
# Harmony with nature

In our quest for sustainability, we could not miss an element such as plants, for this reason we incorporated a natural vertical garden at the back of the parking box, which in addition to the environmental advantages it provides, is a powerful integrating solution from an aesthetic and urbanistic point of view.

5 flexible multilayer fytotextile modules of 1 m<sup>2</sup> are placed on a metal structure, formed by a matrix of 36 pockets per module where the plants and substrate are housed, as well as incorporating a drip irrigation system. Its excellent mechanical behaviour and high porosity maximize the gas exchange of the buried part of the plant, responsible for the air biofiltration and VOCs fixation, so harmful to health.

Additionally, there is a 100 litre water tank with a timer to service the drip line, which is filled through a hole with a plug made at the back of the parking box.

It is therefore very easy to maintain and replace.



## Fire behaviour

According to UNE-EN ISO 11925-2:2011 and UNE-EN 13823: 2012. +A1:2016, to obtain its reaction to fire. All modules have class B-s2 D0 behaviour against fire.



## System durability

Subjected to accelerated aging tests according to UNE-EN ISO 4892/2, and tested according to UNE-EN ISO 13934-1, obtaining a tensile resistance in the outer material of more than 10 times the maximum application load for the longest unprotected exposure.



## Tensile and tear resistance

Tested at the University of Seville to determine the maximum resistance of the assembly and its components, yielding values up to 6 times higher than the maximum use load.



## Freezing behaviour Fytotextile 8

The modules perform well facing continuous freezing and thawing cycles, with no changes observed in the physical and mechanical characteristics.

Certifications and tests carried out by:



# Technological accessories



## Screen

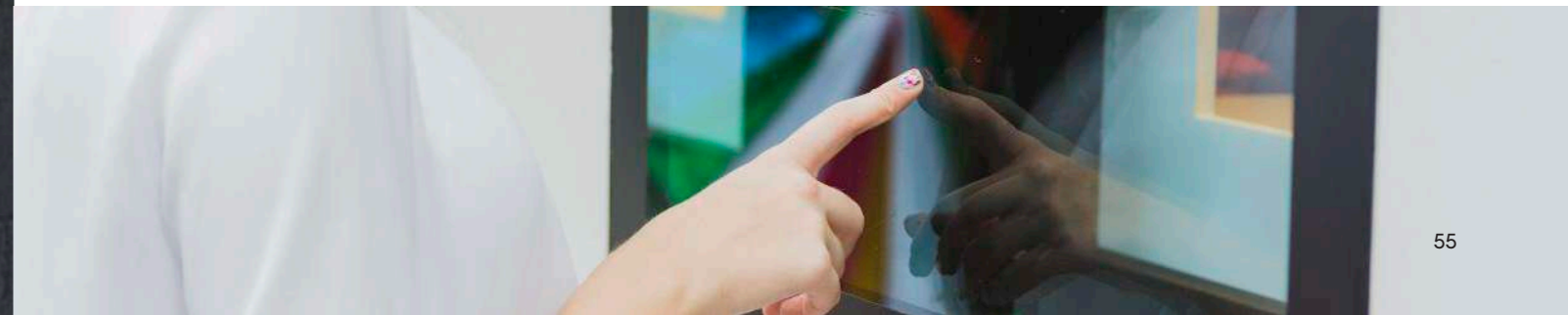
It involves placing **multifunctional screens** on one or both sides of the parking box for various uses, such as advertising, institutional or tourist information points, and so on.

In the case of screens, the economic and space savings mentioned above are especially significant. This is because there is no need for the anti-vandalism frame, which would be necessary if they were to be installed independently, and it is not necessary to occupy another public space. The screens are embedded and can be registered for maintenance purposes.



## Sensors

Any type of sensor present in our cities, whether environmental, presence, among others, can be incorporated and remain perfectly integrated. In this way, a multitude of data can be consulted on the same management platform.



# Charging solutions

We make a difference by providing our parking boxes with several charging points in addition to a renewable energy source for their operation, which are inte-



grated into the structure itself, thus contributing to promoting sustainable mobility and our commitment to sustainability

### Photovoltaic panels

The parking boxes are equipped with photovoltaic panels that have a total power of **1.1 kW**, guaranteeing the electrical supply of the control and lighting system. They are embedded in the upper part, which makes it almost impossible to remove them from the outside, without the need to use another attached structure.

The rest of the solar kit is made up of one 3000W inverter and 2 250 Ah 12V AGM batteries, and they are installed in a compartment inside the parking box, only accessible by maintenance personnel, thus offering greater protection.

The installation of photovoltaic panels provides a number of environmental benefits, such as the generation of clean, renewable energy, reducing the greenhouse effect and the carbon footprint, reflecting a commitment to sustainability and contributing to the creation of smarter, more sustainable cities.

### Electric vehicle charging point

As part of the process of transition to zero-emission vehicles, we could not miss the option of installing a charging point for EVs.

Ideal solution for our parking boxes that are going to be located in the car parking line, with wall-mounted charging points on one or both sides, as the side itself acts as the facing for its placement.



The user can activate said charging point using the Novality app, without having to download the charging point's own app, which means greater convenience.

#### Technical characteristics:

- Power: 230 Vac
- Amparage: 32 A
- Maximum power: 7,4 Kw
- Dimensions: 435 x 283 x 229 mm
- Degree of protection: IP55 / IK10

### Bicycle and scooter charging point

Each locker has a Schuko charging point with a waterproof cover and IP 55 protection rating, for recharging bicycles and scooters while they are parked.



# A world of possibilities

Particularly aware the problem of visual impact, Novality places special emphasis on ensuring that its products blend in appropriately with their surroundings.

To achieve this, in addition to a careful and innovative design, it offers possibility of customising its modules on surfaces by means of HPL or Krion enclosures.



Advertising photo-printing

When it comes to customisation, HPL material allows differential solutions. In the case of **direct photo-printing**, extraordinary finishes are achieved, and unlike vinyl, they do not peel off, graffiti can be cleaned, and their durability is much greater.



Photo-printing integration into the environment



Milled corporate application



Milling detail



Corporate vinyl application

Another alternative that this material allows is its **milling** as an institutional and corporate support, also bringing multiple advantages over vinyl. In any case, this material also allows the placement of **vinyl** on it.

## Porcelanosa Krion

Another alternative material chosen as exterior cladding is **Krion**. It is a new generation solid surface developed by Grupo Porcelanosa. Warm to the touch and similar to natural stone, it is composed of two thirds of natural minerals (ATH: Alumina Trihydrate) and a low percentage of highly resistant resins.

### Krion range



1100  
SnowWhite

6502  
Pearl

6902  
Light Grey

6101  
Frost White

6903  
Grey

6501  
Cream

Krion finish



Novality 2024



Krion finish

**Recyclable** and reusable material, **highly resistant** to shocks and extreme temperatures, **anti-graffiti**, fire-proof and with great acoustic absorption, it is a very interesting proposal from the point of view of sustainability.

Its range of soft colours provides an elegant and differentiating aesthetic over the rest of similar products on the market, with minimum maintenance.

Krion cleansing



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Always  
moving



Future is now

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