

Installation, Supply and Implementation of Two Smart Bicycle Parking Pods in La Rinconada

La Rinconada City Council

PROVISION OF SERVICES FOR THE IMPLEMENTATION OF AN INTEGRATED LOCAL ELECTRONIC MANAGEMENT SYSTEM. CO-FUNDED BY THE *NEXTGENERATIONEU* FUNDS VIA SPAIN'S *RECOVERY, TRANSFORMATION AND RESILIENCE PLAN*, regulated by Order TER/836/2022, of 29 August, approving the regulatory basis for subsidies for the digital transformation and modernization of local entities within the framework of the *Recovery, Transformation and Resilience Plan*, and opening the call for 2022.



1. SMART PARKING POD FOR BICYCLES AND PERSONAL TRANSPORTATION DEVICES

1. INTRODUCTION

La Rinconada City Council has launched an ambitious project as part of their sustainable urban development strategy—the installation of smart parking pods for bicycles and personal transportation devices (PTDs). This project has been funded by the European Union, via the Spanish government's *Recovery, Transformation and Resilience Plan*. This project is part of La Rinconada's *Sustainable Urban Mobility Plan*, as well as La Rinconada *Urban Agenda Implementation Plan*.

This project was motivated by the need to improve the local air quality by promoting the decarbonization of public transportation, as well as planning said means of transportation more efficiently. The installation of these pods is part of a series of initiatives, which also include the creation of green infrastructures and the extension of the local bike lanes, funded via the *Integrated Sustainable Urban Development Strategy* (EDUSI, by its Spanish acronym) and the first call for Low Emission Zones (LEZs).

The contract scope includes the installation, supply and implementation of two safe and secure parking pods for bicycles and PTDs, each with a minimum of 10 parking spots, and a charging station in every spot. These pods will be installed near two key locations in San José de la Rinconada—the indoor pool and the La Rinconada train station. Originally, one of these pods was located near La Rinconada City Hall’s entrance.

2. BUDGET

PHASE I. The base bidding budget for the installation, supply and implementation of the smart parking pods for bicycles and PTDs amounts to:

BUDGET FOR THE INSTALLATION, SUPPLY AND IMPLEMENTATION OF THE PARKING PODS	
Base bidding budget, PHASE I	€70,000.00
VAT amount	€14,700.00
Base bidding budget (VAT included)	€84,700.00

PHASE II. Base bidding budget for the annual technical support, maintenance and cleaning of the parking pods:

ANNUAL PAYMENTS PHASE II	SUPPORT, MAINTENANCE AND CLEANING	ANNUAL AMOUNT WITHOUT VAT	VAT AMOUNT	ANNUAL AMOUNT WITH VAT
1 st	12 months	€2,455.00	€515.55	€2,970.55
2 nd	12 months	€2,455.00	€515.55	€2,970.55
3 rd	12 months	€2,455.00	€515.55	€2,970.55
4 th	12 months	€2,455.00	€515.55	€2,970.55
TOTAL	48 months	€9,820.00	€2,062.20	€11,880.20

TECHNICAL ASSISTANCE FOR SMART PARKING PODS FOR BICYCLES AND PTDS	
Base bidding budget	€4,000.00
VAT amount	€840.00
Base bidding budget (VAT included)	€4,840.00

3. CO-FUNDING

The total investment for PHASE I, plus two years of TECHNICAL SUPPORT, MAINTENANCE AND CLEANING, amounts to €93,610.00. The full amount has been funded by *NextGenerationEU*. However, it is important to note that the VAT amount, €16,571.10, has been provided in full by La Rinconada City Council.

Additionally, the Provincial Council of Seville has contributed €18,600.00 to the realization of the project.

4. COMMUNICATION MANUAL

According to Article 9 of Order HFP/1030/2021, of 29 September, the Member State must ensure that specific, coherent, efficient and proportional information is provided to multiple audiences, including the media and the general public, by meeting the following requirements:

- Develop a strategy to promote and ensure that the RRF's contribution to Europe's recovery and, specifically, to the twin green and digital transition, is known and acknowledged.
- Create and maintain a dedicated website that provides information about the RRF and related projects, and send a direct link to the Commission.
- Ensure that the final recipients of the EU funding in the RRF framework acknowledge the origin of said funds, so as to guarantee the visibility of the EU funding.

The materials for the communication and awareness actions about this project have been specified in the contract, co-funded by *NextGenerationEU*, and distributed by La Rinconada City Council.

It is important to note that all communications issued include all the elements required by the EU reference standards: the EU emblem, the *NextGenerationEU* co-funding statement, and the *Recovery, Transformation and Resilience Plan* statement. These elements are displayed clearly in this report, as well as in any and all advertising spots, documents, videos, invoices, etc.



2. ACKNOWLEDGEMENT OF THE EU IN THE TECHNICAL REPORT



Plan de
Recuperación,
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y Resiliencia



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la Unión Europea
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3. LA RINCONADA CITY COUNCIL WEBSITE (EUROPEAN Funds)

Link: <https://www.larinconada.es/en/european-funds/nextgenerationeu/2020-2026-period/rtrp-projects/policy-lever-1-urban-and-rural-agenda/c1-plan-for-sustainable-mobility-in-urban-areas/low-emission-zone-bicycle-parking>

La Rinconada 2030 Urban Agenda



4. LA RINCONADA 2030 URBAN AGENDA

Link (in Spanish): <https://agendaurbana.larinconada.es/la-rinconada-instala-dos-aparcamientos-inteligentes-de-bicicletas-y-patinetes/>

5. TECHNICAL SPECIFICATIONS

The pods must comply with a series of technical characteristics, in particular the following:

- Capacity for at least 10 bicycles or PTDs per pod.
- A structure that resists vandalism, corrosion and adverse weather conditions.
- An automatic opening and closing system with motion sensors to increase security.
- Internal video surveillance to monitor the access and usage of the parking pods.
- Built-in solar panels to supply the charging stations, opening systems, lighting and video surveillance.
- User-friendly interface that includes vandal-resistant numeric keypads and buttons, as well as compatibility with mobile devices for easy access.

The pod management and control system will allow:

- Pre-registration of users, user authorizations and cancellations.
- Access via personal code or mobile device.
- Real-time monitoring of the parking pods and payment management.

All these services, along with alarm and malfunction notifications, will be available to users on *Novality*, a mobile app and website dedicated to this service. The app is compatible with iOS and Android devices.



5. SCREENSHOT OF THE *NOVALITY* APP SHOWING HOW IT WORKS



6. PARKING POD WITH ITS DOORS OPEN, SHOWING THE INTERIOR

6. LOCATION OF THE PODS

The locations chosen for the installation of these smart parking pods in La Rinconada have been strategically selected to maximize public accessibility and usage. One of them is located in San José de la Rinconada, specifically near the local indoor pool, as it is an area with a lot of circulation and sporting activities. The second one was originally installed near La Rinconada City Hall's entrance, since it's a vital area of the town where plenty of administrative and commercial activities take place every day. These locations were chosen after exhaustive research to ensure the parking pods were accessible in safe and efficient ways, as well as to encourage neighbors to commute and circulate on bicycles and PTDs in their everyday lives, which would contribute to reducing motorized traffic in the town center.

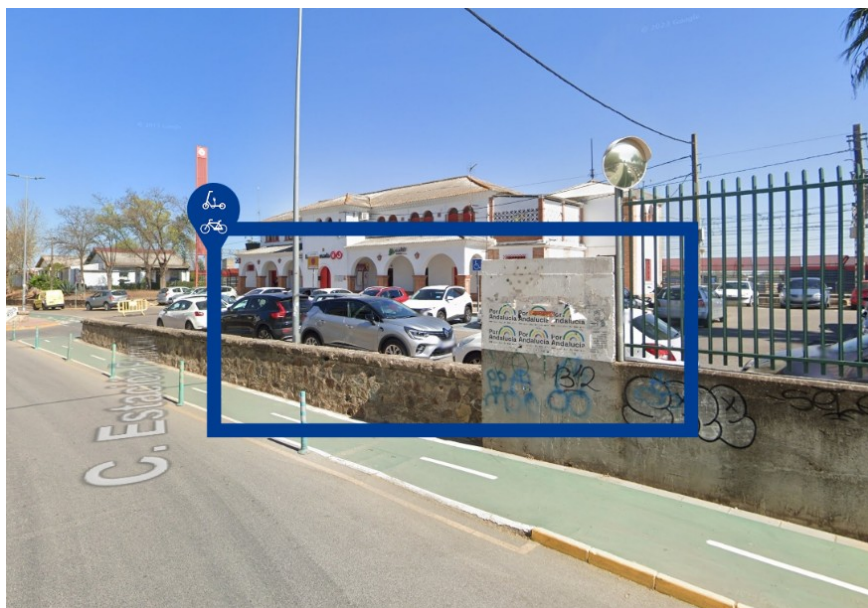
However, after a few months, a decision to move the pod located near La Rinconada City Hall's entrance to a new location was made, with said location being La Rinconada train station. This change was made due to two key reasons. Firstly, because the pod was not being used as often as expected in its original location. And secondly, because of popular demand. Neighbors of La Rinconada requested that a pod be installed near the station, as RENFE does not allow PTDs inside their trains, making the usage of public transportation more difficult for those who commute on these vehicles. As the installation of a pod in this location was already planned for a later phase, the City Council decided to move up the date of the installation instead, both for the sake of the townspeople and as a way to promote sustainable transportation in La Rinconada. Therefore, on 22 October 2024, the Secretary of State for Transport and Mobility approved the change of location of this pod so it could be moved to the train station.



7. BICYCLE PARKING POD LOCATIONS



8. LOCATION NEAR THE LOCAL INDOOR POOL



9. NEW LOCATION NEAR LA RINCONADA TRAIN STATION

7. INNOVATIVE ASPECTS AND ENERGY EFFICIENCY

The installation of smart parking pods for bicycles and PTDs in La Rinconada will have a remarkably positive environmental impact and will contribute significantly to energy saving and efficiency. Each pod will include built-in solar panels on its roof, which will provide the energy required to supply its charging stations, opening systems, lighting and video surveillance. This source of renewable energy means less reliance on the conventional electricity grid as well as less CO₂ emissions, both of which contribute to mitigating climate change. In addition, the system's design ensures an efficient energy consumption—lower than 1 W per device—, by optimizing the use of resources and reducing environmental impact. This project complies with the DNSH principle, which ensures that it will not do significant harm to our environmental goals, and endorses a greener and more sustainable urban mobility.



10. PHOTOVOLTAIC PANELS ON THE ROOF OF THE POD LOCATED NEAR THE INDOOR POOL

8. EXECUTION AND OUTCOME



11. INSTALLATION OF THE POD NEAR THE CITY HALL



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12. INSTALLATION OF THE POD NEAR THE LOCAL INDOOR POOL



13. LOGOS DISPLAYED ON THE PARKING POD



14. ORIGINAL LOCATION OF THE POD NEAR LA RINCONADA CITY HALL



15. THE MAYOR, JAVIER FERNÁNDEZ, REPRESENTATIVES OF THE LOCAL GOVERNMENT, AND THE CEO OF NOVALITY, FRANCISCO MARQUÉS, VISIT THE POD INSTALLED NEAR THE TRAIN STATION