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HISTÓRICAS
DE PORTUGAL



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HISTÓRICAS DE
PORTUGAL

**RUMO À
NEUTRALIDADE
CARBÓNICA**

ENERGY FOR RESILIENCE: GIVING RENAULT ELECTRIC BATTERIES A SECOND LIFE

RENAULT & ALDEIAS HISTÓRICAS DE PORTUGAL

promotor



PROVERE
Programa de Valorização Económica
de Recursos Endógenos

co-financiamento

CENTRO 2030
PROGRAMA REGIONAL DO CENTRO

Os Fundos Europeus mais próximos de si.



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1. PORTUGAL'S NETWORK OF HISTORIC VILLAGES

Framework, vision and areas of specialisation	Innovation ecosystem
A collaborative network comprising 12 Historic Villages, spread across 10 municipalities along the border with Spain, in the Central Region of Portugal.	It acts as a living laboratory for the transition to a more energy-efficient and climate-friendly society, testing solutions that can be replicated in rural areas.
It has set the standard for sustainability, innovation and territorial cohesion in low-density areas across Europe.	It functions as a platform for projection and experimentation, where the Network challenges companies — and is challenged by them — in the co-creation of innovative solutions.
Adopting a long-term strategic approach geared towards green, digital and social transitions, the focus is on Sustainable Tourism, the Cultural and Creative Industries, Sustainable Agriculture and Biodiversity, and Sustainable Renovation and Construction.	It contributes to a positive environmental impact, social inclusion, digital transformation and the economic enhancement of the territory. It operates in areas such as energy and water efficiency, sustainable mobility, governance, social innovation and sustainable construction, as well as other areas of added value.

2. RENAULT PORTUGAL & ALDEIAS HISTÓRICAS DE PORTUGAL

Sustainable Mobility, Territorial Cohesion, and Competitiveness

A collaboration that promotes

- **Electric and inclusive mobility:**
Promoting territorial cohesion and social inclusion through equitable access and connections between villages (Challenge / Social Transition)
- **Reduction of ecological footprint:**
Decarbonisation of travel and support for carbon neutrality (Environmental Challenge/Transition)
- **Strengthening territorial and business competitiveness:** Sustainable mobility as a driver of efficiency, innovation and shared value creation for territories and Renault Portugal (cross-cutting axis of value and sustainable competitiveness).

BENEFITS

- Improved accessibility and connections between rural areas, with positive impacts on the local economy and sustainable tourism.
- Reduce energy costs while promoting a green and innovative image.
- Increased territorial attractiveness and investment in low-density areas.

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- Strengthen our position as a benchmark brand in electric mobility and sustainable transition.
- Institutional and media visibility in innovation projects that have a territorial impact.
- Access to new contexts for experimentation and technological demonstrations (smart rural areas).
- Generation economic and reputational value through partnership with a leading national network.

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PORTUGAL

2. RENAULT PORTUGAL & ALDEIAS HISTÓRICAS DE PORTUGAL

Sustainable Mobility, Territorial Cohesion, and Competitiveness

Project Data: April 2022 to September 30, 2025

No. Total Reservations: 3.035

- Visitors: 1.290
- Residents: 1.313
- Local Companies: 432

Origin of Visitors:

- Portugal, Spain, Germany, Canada, Netherlands, India, Belgium, USA, Italy, Brazil, Japan, Lithuania, United Kingdom, Israel and France.

CO2 reduction (convertor used):

- B7 diesel passenger car: 38508.33 kg de CO₂
- E10 petrol passenger car: 44925.90 kg de CO₂

2. RENAULT PORTUGAL & ALDEIAS HISTÓRICAS DE PORTUGAL

Impacts and Benefits of the Mobility Project in the Historic Villages Network of Portugal

- ➔ The partnership between Renault Portugal and the Network of Historic Villages of Portugal marked a turning point in the way mobility is conceived and practised in low-density areas.
- ➔ The project has made electric mobility more accessible in contexts where this was previously unlikely. Through an integrated, innovative and collaborative approach, sustainable mobility has been transformed into a tool for territorial cohesion, social inclusion and local competitiveness.

Impacts and Benefits of the Mobility Project in the Historic Villages Network of Portugal

The main results achieved:

- ➔ The democratisation of electric mobility in rural areas enables access to clean and affordable transport solutions in historic villages, thereby reinforcing equal opportunities between urban and low-density areas.
- ➔ Inter-municipal openness and collaboration – the municipalities in the AHP Network have moved forward together with a coordinated procedure for the installation of electric chargers, establishing an exemplary and replicable model of cooperation.
- ➔ Approval has been given for a sustainable mobility project worth around €3 million, funded by national sources. This project was the result of a successful joint application to promote inclusive and sustainable urban mobility.
- ➔ The AHP Network has been integrated into the 2030 National Energy and Climate Plan, alongside the measure 'Efficient and Sustainable Historic Villages of Portugal'. This reinforces the Network's role as a pilot territory in decarbonisation and energy efficiency.

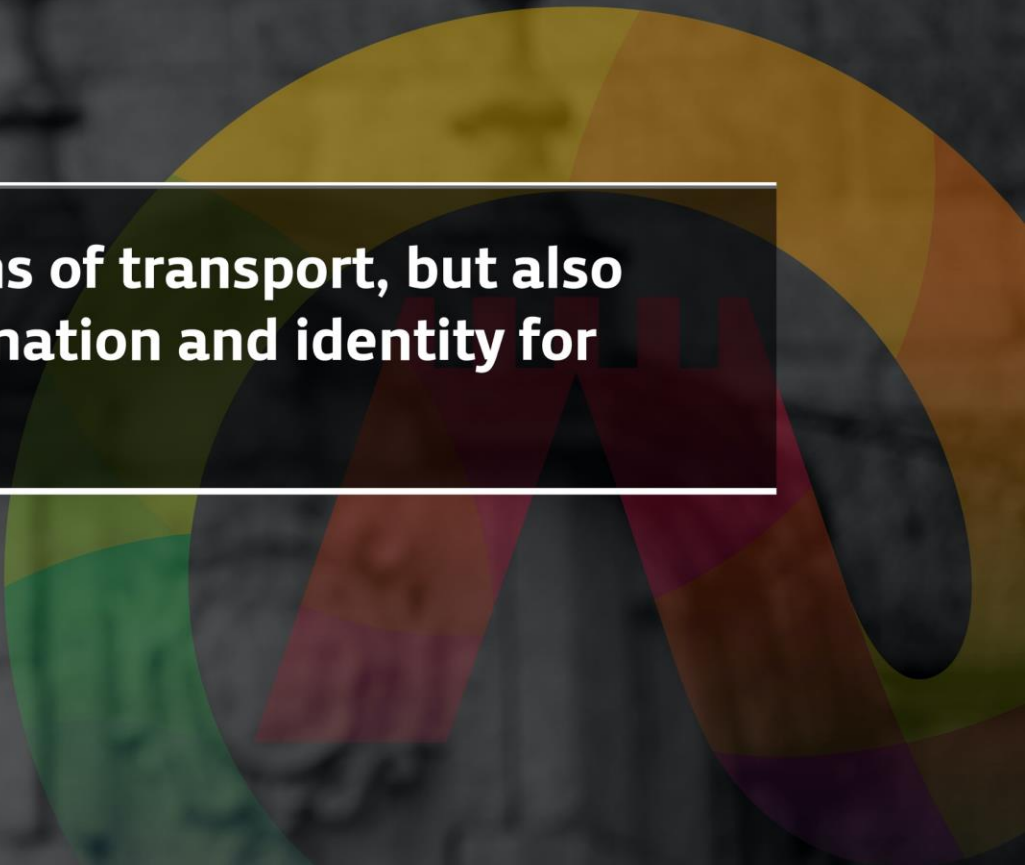
Impacts and Benefits of the Mobility Project in the Historic Villages Network of Portugal

The main results achieved:

- ➔ Promotion of last-mile mobility – the approved application allows for investment in electric vehicles to ensure short-distance connections between villages and places of interest. This contributes to a more comprehensive and integrated mobility network.
- ➔ Thanks to its strategic positioning and innovative governance, the AHP Network has established itself as a territorial innovation ecosystem that promotes the implementation of new projects aligned with carbon neutrality and the circular economy objectives.
- ➔ Heritage enhancement and national recognition – this journey reinforces the added value of the process of classifying the Network of Historic Villages of Portugal as a National Monument, highlighting the ability to reconcile heritage preservation, sustainability, and innovation.

2. RENAULT PORTUGAL & ALDEIAS HISTÓRICAS DE PORTUGAL

Impacts and Benefits of the Mobility Project in the Historic Villages Network of Portugal



Electric mobility has become not only a means of transport, but also a driver of sustainable, competitive transformation and identity for Portugal's Historic Villages.



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3. PROJECT FRAMEWORK

The Network of Historic Villages of Portugal has been implementing a continuous strategy of sustainability, energy efficiency, and green mobility, strengthening the resilience of territories and the quality of life of local communities.

In partnership with Renault Portugal, we have been promoting inclusive and sustainable urban mobility solutions that help to reduce carbon emissions and promote territorial cohesion.

This proposal is a natural extension of this collaboration, now focusing on the energy resilience of the Historic Villages, reinforcing the path towards carbon neutrality strategy of the Historic Villages Network of Portugal.

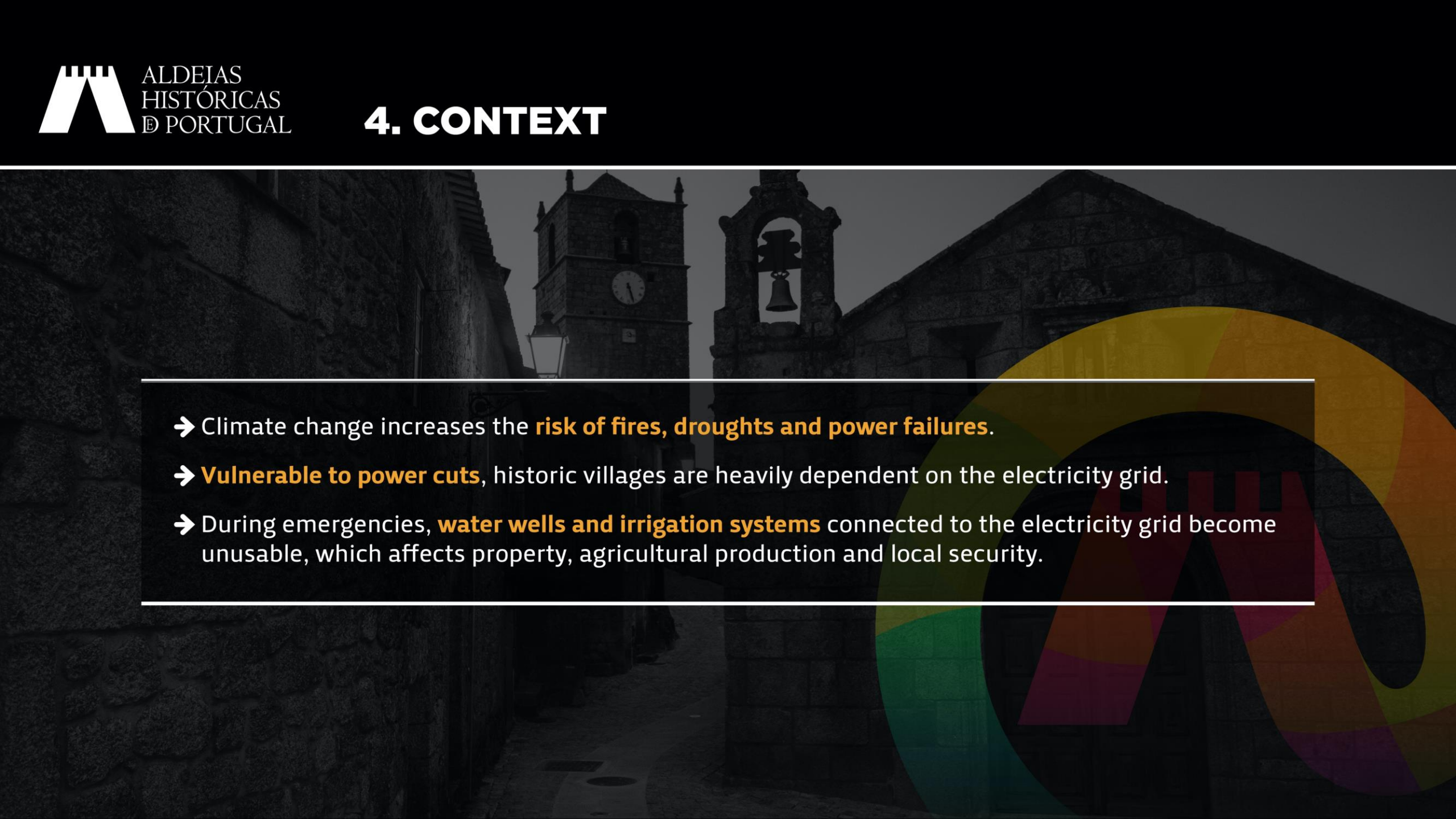
3. PROJECT FRAMEWORK

The recent fires have highlighted the need for solutions that ensure access to energy during emergencies, especially for operating water wells and irrigation systems in the event of a power failure.

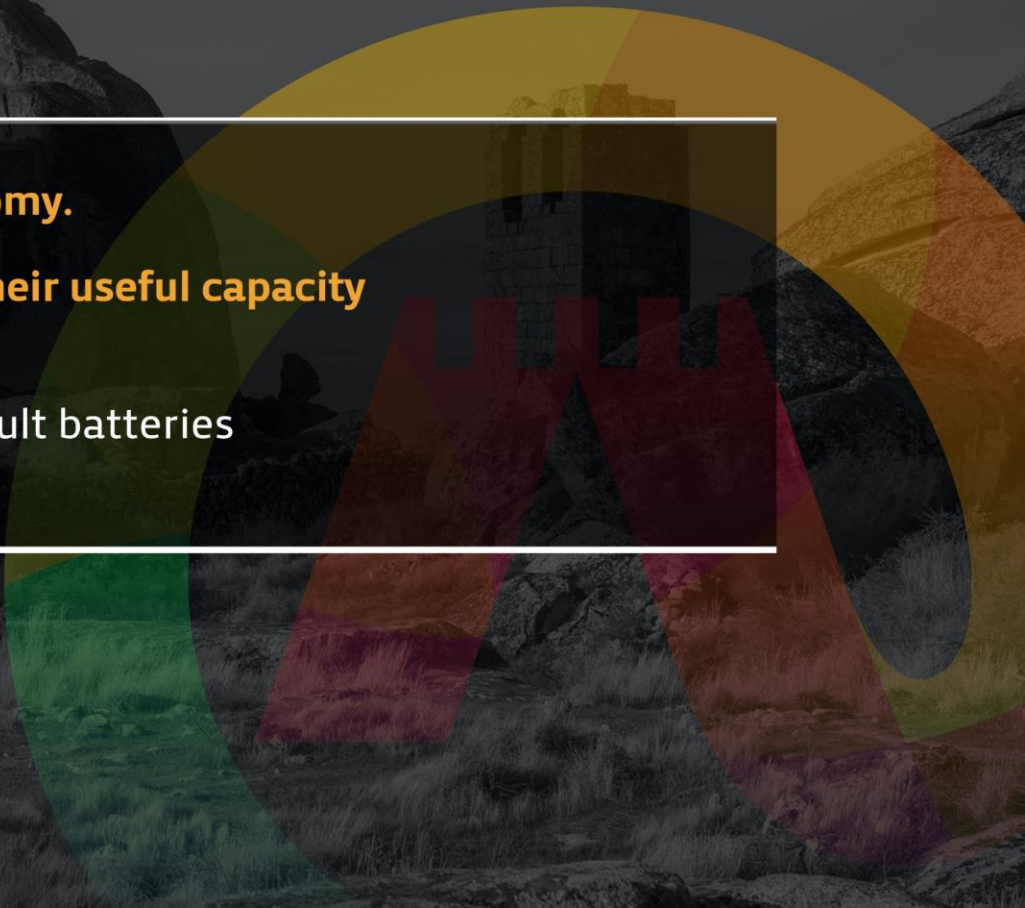
Based on Renault's experience and technology, we propose **testing the application of second-life electric batteries in a pilot project, ensuring:**

- ➔ Local energy autonomy in critical situations;
- ➔ Circular use of technological resources;
- ➔ An effective contribution to climate adaptation and territorial justice.

4. CONTEXT

- 
- Climate change increases the **risk of fires, droughts and power failures**.
 - **Vulnerable to power cuts**, historic villages are heavily dependent on the electricity grid.
 - During emergencies, **water wells and irrigation systems** connected to the electricity grid become unusable, which affects property, agricultural production and local security.

5. RENAULT OPPORTUNITY

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- Renault is a leader in **electric mobility and the circular economy**.
 - Even after their initial lifespan, batteries retain **70–80% of their useful capacity** and can be reused for **stationary storage**.
 - We are proposing **a joint pilot project** to test the use of Renault batteries as **backup power sources in villages**.

6. PROJECT OBJECTIVES

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- **Ensure access to energy during emergencies.**
 - **Ensure that wells, pumps and irrigation systems can operate** during power failures.
 - **Provide backup power** for farmers, tourist activities and residents.
 - **Show that it is technically, economically, environmentally and socially viable** to reuse Renault batteries.

7. TECHNICAL IMPLEMENTATION PROPOSAL (PILOT PROJECT)

- 
- Selection of **a pilot village** in the Historic Villages Network.
 - Identification of **critical points**: wells, irrigation systems and priority infrastructure.
 - **Technical sizing** of batteries and their integration in the Collective Self-Consumption Community.
 - **Monitoring performance and autonomy** in emergency scenarios (social, economic, and environmental).

8. BENEFITS AND IMPACTS

Benefit:

Ensure the water supply is maintained during power outages caused by fires.

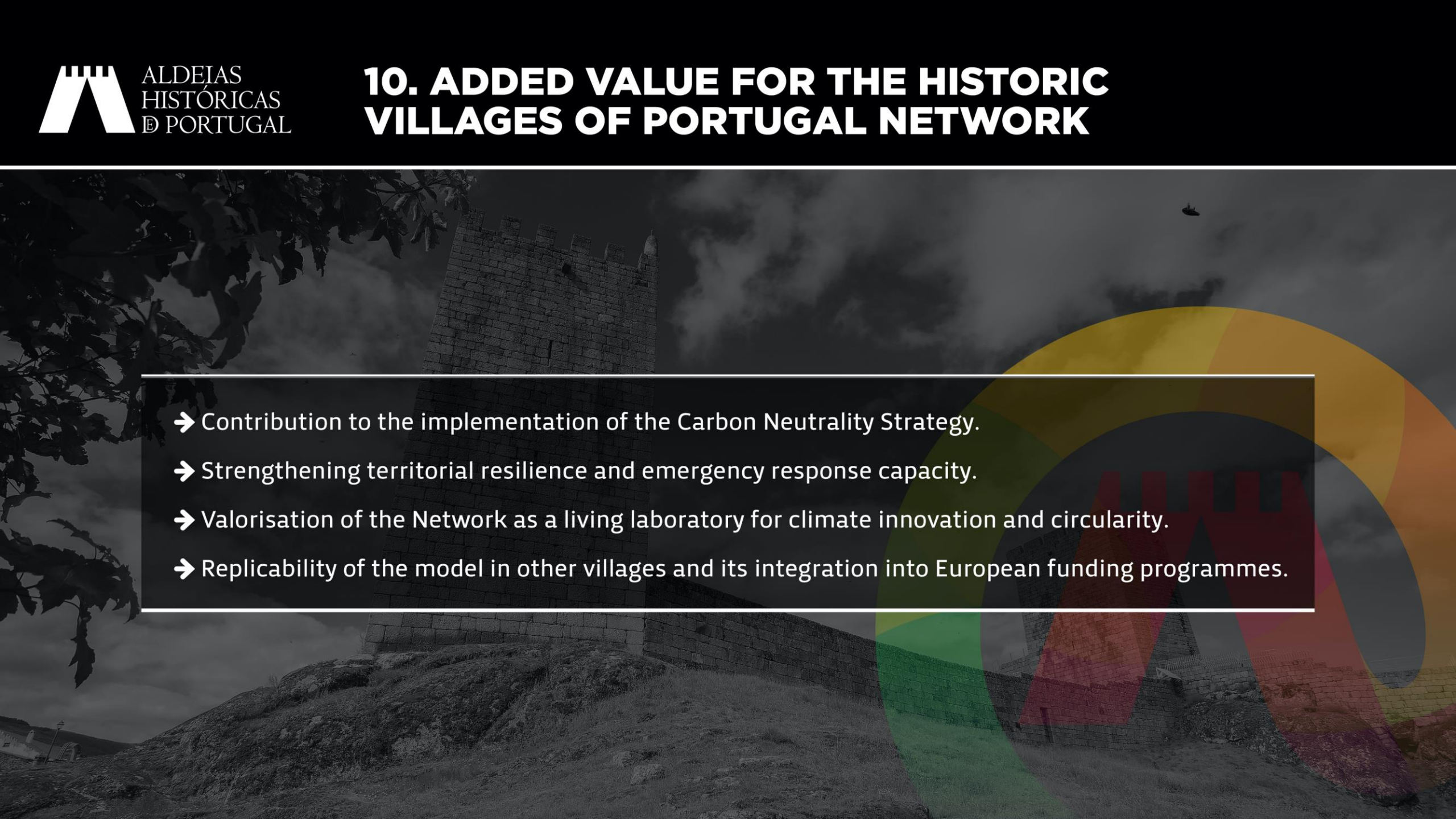
Impacts:

- Environmental — zero emissions compared to diesel generators (reduction of up to 246 kg CO₂/month).
- Social: ensuring water and energy security in villages.
- Strategic: alignment with the AHP Network's carbon neutrality and climate resilience.

9. ADDED VALUE FOR RENAULT

- 
- Practical demonstration of **commitment to sustainability and the circular economy**.
 - Reinforcement of the **brand's positioning as an agent of innovation and territorial resilience**.
 - **Institutional and media visibility** associated with a pioneering project in Portugal.
 - Direct contribution to **climate and energy justice** in rural areas.

10. ADDED VALUE FOR THE HISTORIC VILLAGES OF PORTUGAL NETWORK

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- ➔ Contribution to the implementation of the Carbon Neutrality Strategy.
 - ➔ Strengthening territorial resilience and emergency response capacity.
 - ➔ Valorisation of the Network as a living laboratory for climate innovation and circularity.
 - ➔ Replicability of the model in other villages and its integration into European funding programmes.

11. CONCLUSION

“Anticipating today the solutions that will become European policies tomorrow.”

In line with European priorities for climate adaptation:

- ➔ The European Commission has been placing increasing emphasis on climate adaptation measures, promoting projects that strengthen the resilience of territories, local energy autonomy and the capacity to respond to extreme weather events.
- ➔ The project developed by the Network of Historic Villages of Portugal, in partnership with Renault Portugal, is fully aligned with this goal, combining electric mobility, territorial cohesion and climate adaptation in an integrated and innovative approach.

We are at the turning point of a strategic opportunity:

Expand this collaboration to establish Renault as a leading partner in sustainable innovation in resilient territories. This will give the capacity to influence European policies and access future financing instruments dedicated to climate adaptation and the green transition.

11. CONCLUSION

“Renault batteries can come back to life — now, to protect lives.”

A partnership for **energy resilience, climate justice**
and a **sustainable future for Portugal’s Historic Villages.**

THANKS

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