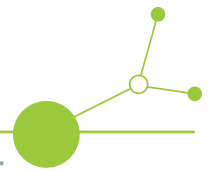


# Deliverable D3.3.2 Report to facilitate take-up of solutions to preserve value and reduce waste vehicles and rolling stock

Online second-hand and match-making market for used parts, products and information-sharing to crowdsource circular product-design based on information-sharing



Version 2  
03 2026







# DELIVERABLE D.3.3.2

## Solution 03.10 - Online second-hand and match-making market

Project index number and acronym	CE0100250 CE4CE
Lead partner	LVB - Leipzig Transport Company
Deliverable number and title	D3.2.2 Report to facilitate take-up of solutions to preserve value and reduce waste vehicles and rolling stock
Responsible partner(s) (PP name and number)	PP13 trolley:motion
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Project website	<a href="https://www.interreg-central.eu/projects/ce4ce/">https://www.interreg-central.eu/projects/ce4ce/</a>
Delivery date	31.03.2026
Status	Public
Dissemination level	Project



## Authors and log change of the document

Partner No.	Partner Acronym	Name of the author	Action	Version
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PP13	trolley:motion	Marta Woronowicz	Document preparation, input preparation	1
PP13	trolley:motion	Alexandra Scharzenberger	Review and finalisation	2

## Contents

1. Executive Summary .....	4
2. Project context .....	4
3. The solution concept .....	5
4. Design and functional requirements .....	5
5. Development and implementation .....	8
6. User interaction and experience .....	8
7. User manual: operational guidelines .....	8
8. Deployment and integration with the CE4CE circularity platform .....	12
9. Challenges and lessons learned .....	12
10. Sustainability, future outlook and upscaling .....	13
11. Conclusions .....	13



## List of figures

Figure 1 Screenshot from the home page of the CE4CE circularity platform .....	6
Figure 2 Screenshot from the CE4CE matchmaking forum .....	6
Figure 3 Screenshot showing the search functionality of the forum.....	7
Figure 4 Examples of announcements posted in the test phase of the Matchmaking Forum.....	7
Figure 5 Registration functionality for new users .....	8
Figure 6 Registration process for new users - required data .....	9
Figure 7 User dashboard .....	10
Figure 8 How to add a new offer or post an announcement (1).....	10
Figure 9 How to add a new offer or post an announcement (2) .....	11
Figure 10 Contact details of the CE4CE knowledge platform.....	12

## 1. Executive Summary

This deliverable presents Solution O3.10 - the Online Second-Hand and Match-Making Market for Public Transport developed within the CE4CE project. The solution introduces a digital Matchmaking Forum that enables public transport stakeholders to exchange information about used vehicles, spare parts, components and infrastructure elements that can be reused instead of being scrapped.

The objective of Solution O3.10 is to create a structured online marketplace where public transport operators, authorities, municipalities and suppliers can offer or search for used assets. The platform supports circular economy implementation by extending product life cycles and facilitating cooperation between public transport organisations.

The key result is a fully operational Matchmaking Forum integrated into the CE4CE Knowledge Platform. The platform allows stakeholders to publish advertisements, search listings, and connect with potential partners. As for its impact it thus contributes to waste reduction, improved resource efficiency and stronger collaboration across the public transport sector.

## 2. Project context

The CE4CE project empowers circular economy system thinking for actors in public transport from Central European countries to reduce waste and create value along new life cycles of infrastructure and rolling stock. To achieve this, CE4CE jointly develops solutions that enhance knowledge and capacities for the sector, reduce barriers and costs, and initiate the development of new services and skilled jobs. Additionally, the project focuses on strategies and action plans that support policy development, learning, and exchange at both regional and transnational levels.

One of key aspects of CE4CE's initiatives is the implementation of pilot actions that demonstrate and validate circular economy principles in public transport. By applying these principles in real-world settings,



CE4CE aims to create new value chains, optimize resource efficiency, reduce costs, and foster innovation within the sector. These pilot initiatives serve as practical examples of how circular economy strategies can be integrated into public transport operations, ultimately contributing to a more sustainable and resource-efficient mobility system.

To achieve this, CE4CE pilots will test solutions that enhance knowledge and capacities for public transport stakeholders, address regulatory and financial barriers, and support the development of new services and job opportunities. The results of these pilots will contribute to shaping policies, guiding investments, and facilitating knowledge exchange at both regional and transnational levels.

Furthermore, CE4CE pilot actions will enable cooperation among key transport actors to co-develop and refine processes that integrate circular economy principles. This includes innovative procurement strategies, circular business models, extended life-cycle assessments, and cost-benefit methodologies.

Solution O3.10 contributes to CE4CE objectives by creating a practical tool that enables reuse of vehicles, spare parts and infrastructure components in public transport systems. By facilitating exchange between operators, the platform reduces premature disposal of valuable assets and supports circular value chains.

Target users include public transport operators, municipalities, transport authorities and suppliers working with electric public transport systems such as light rail and underground, trams, trolleybuses, or electric buses.

### 3. The solution concept

The pilot action focused on thoroughly designing and launching a digital forum that allows transport stakeholders to post advertisements offering or searching for used vehicles, spare parts, infrastructure elements or batteries.

The Matchmaking Forum is an online second-hand and matchmaking platform integrated into the CE4CE Circular Economy Knowledge Platform. It enables organisations to share information about available assets and identify potential reuse opportunities.

Previously, exchanges of used vehicles or spare parts between operators relied mainly on random informal contacts. The online platform provides a structured and transparent way to identify available resources across regions.

The solution promotes circular economy principles including product life-cycle extension, reuse of resources, waste reduction and improved efficiency in asset management.

The platform addresses circularity gaps such as limited communication between operators, lack of a dedicated marketplace for used public transport equipment, and insufficient visibility of available reusable assets.

### 4. Design and functional requirements

The Matchmaking Forum is integrated into the open access CE4CE Circular Economy for Public Transport Knowledge Platform available under the link: <https://circularity4publictransport.eu>

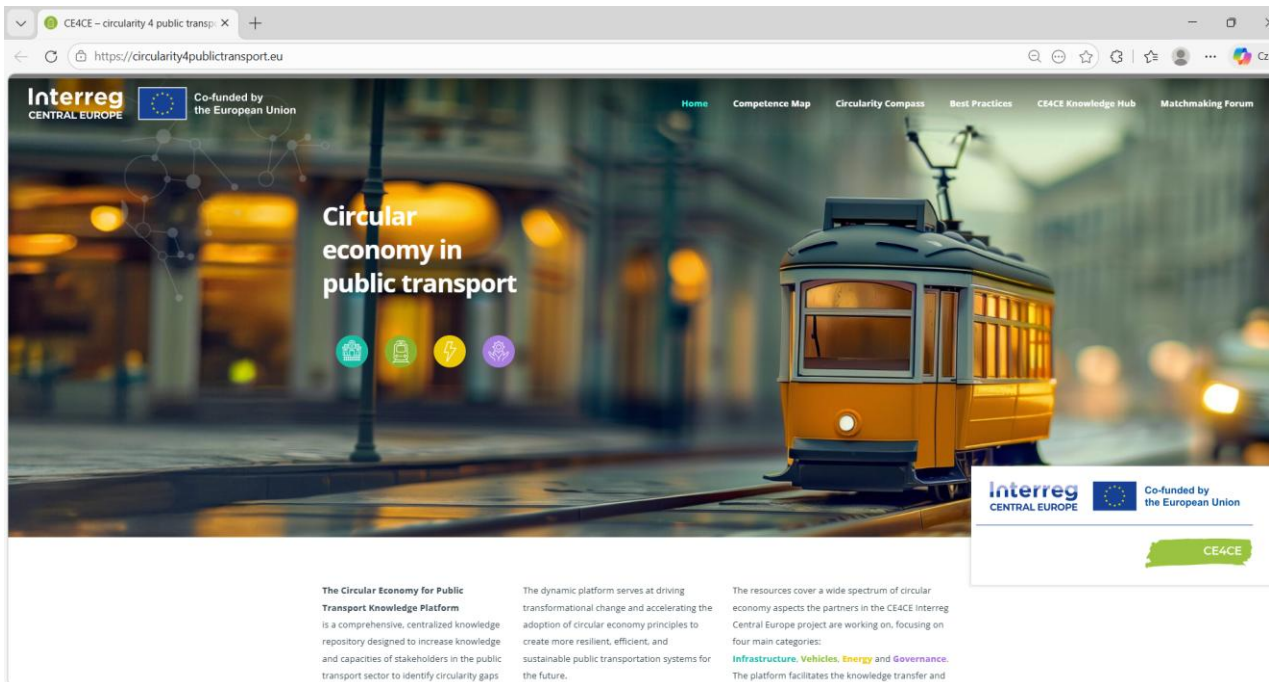


Figure 1 Screenshot from the home page of the CE4CE circularity platform

The Matchmaking Forum functions as an online listing and communication tool:

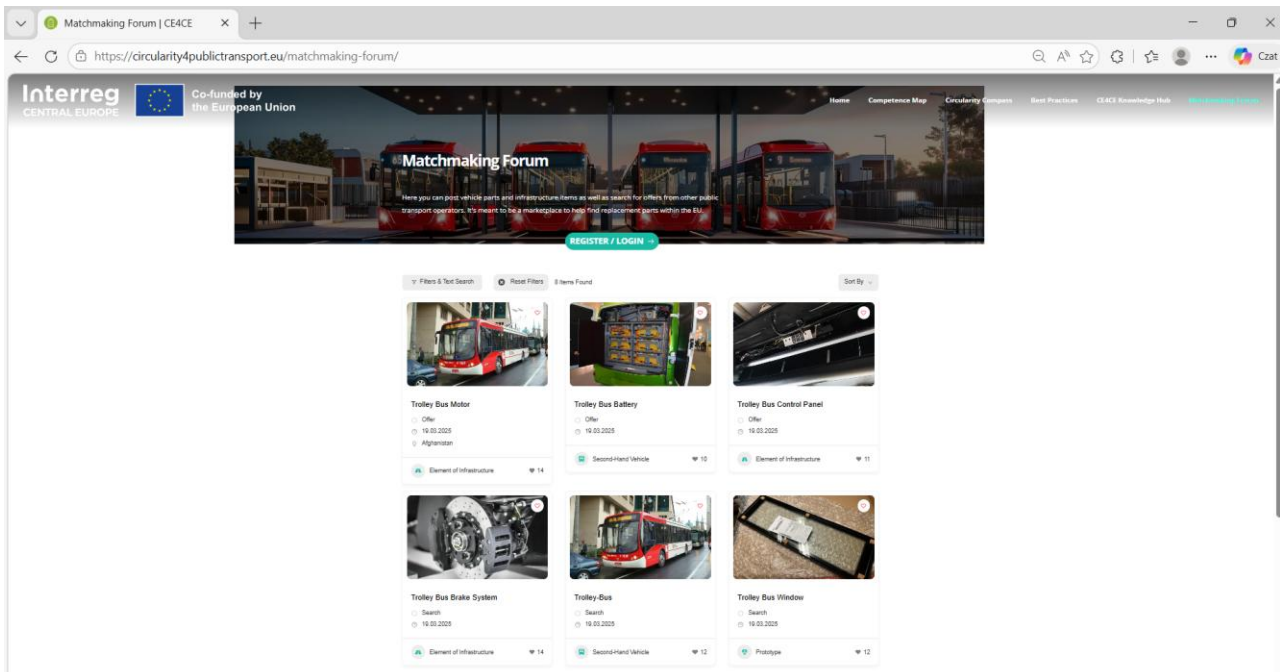


Figure 2 Screenshot from the CE4CE matchmaking forum

The Matchmaking Forum is at the moment filled with exemplary demo advertisements and ready to publish the authentic ones.



Key features include advertisement creation and editing, search engine with filters, product categories, and a user dashboard for active users for managing listings.

There is a simple search engine with filters in order for the page visitors to track down the required advertisements e.g. by country, search or offer advertisement, and type of product.

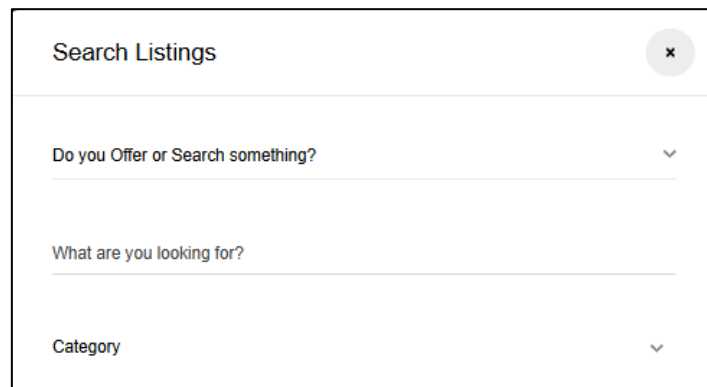


Figure 3 Screenshot showing the search functionality of the forum

Listings can be sorted by latest and oldest ones:

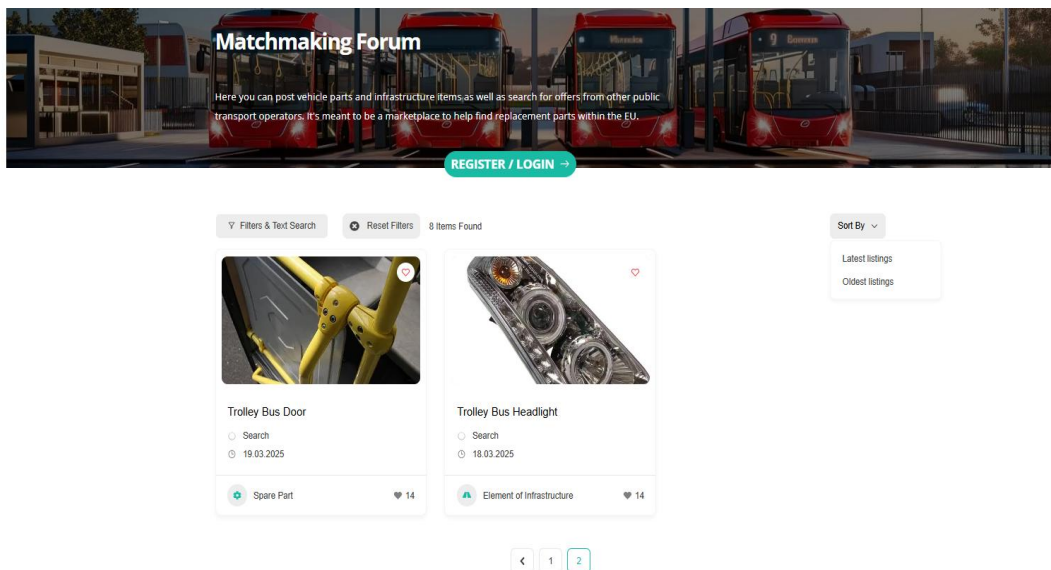


Figure 4 Examples of announcements posted in the test phase of the Matchmaking Forum

Public visitors can browse and search listings, while solely verified users can publish advertisements or contact listing owners.

Contact details are not publicly visible. Listings display only advertisement content and the country of origin to ensure privacy and data protection of listings owners.



## 5. Development and implementation

The platform was developed as part of the CE4CE Circular Economy Knowledge Platform and prepared for operational use during the project. The design underwent several validation sessions with an active contribution from CE4CE Project partners.

The forum includes standard web marketplace functionalities such as listing forms, search filters and a personal dashboard for active users.

Demo advertisements were created during testing to demonstrate platform functionality before real listings are published.

## 6. User interaction and experience

The interface is designed to be simple and intuitive, allowing Matchmaking Forum visitors to quickly browse or search available listings.

Publishing a listing involves registration, verification by trolley:motion, accessing the dashboard and submitting an advertisement form.

Verified users manage their listings via a personal dashboard where advertisements can be created, edited, removed or retrieved from archive.

## 7. User manual: operational guidelines

The <https://circularity4publictransport.eu> website and the contents of the Matchmaking Forum are open to the public for viewing and browsing, yet organisations wishing to publish advertisements or contact advertisements owners via contact window must register on the website and undergo verification coordinated by trolley:motion.



Figure 5 Registration functionality for new users

Once a prospective user presses „Register“, they see a simple form to be filled in (the phone number is not a mandatory field):

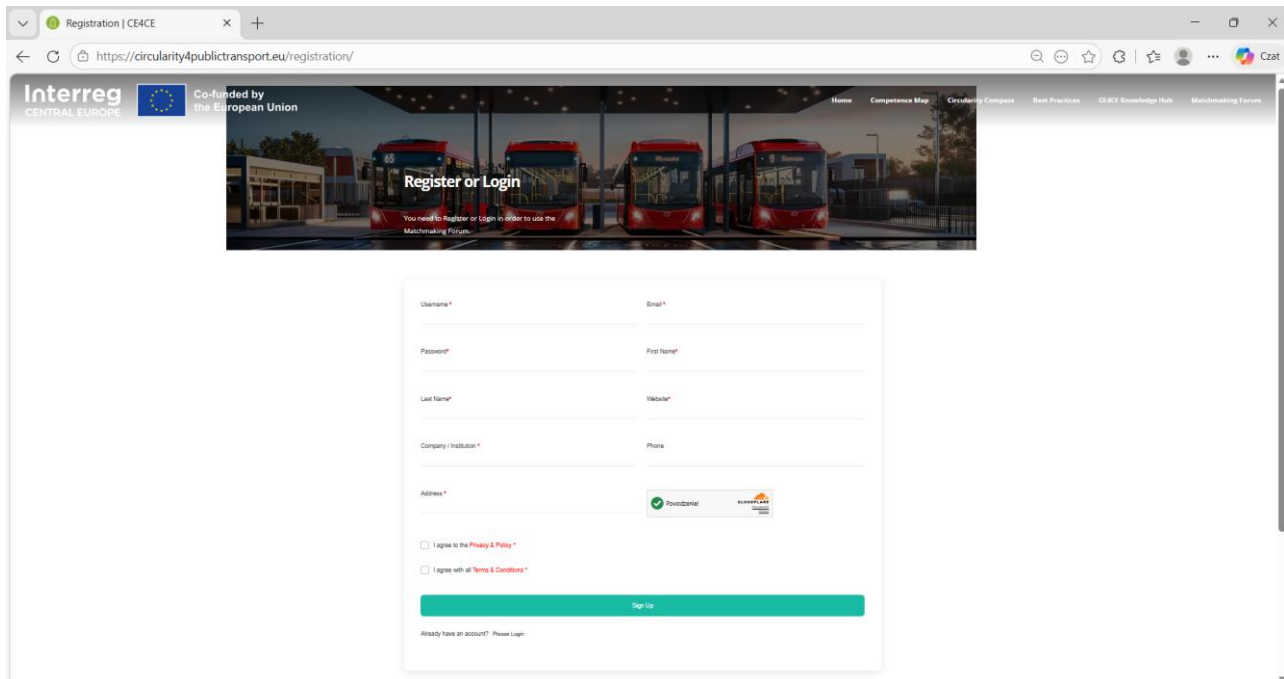


Figure 6 Registration process for new users - required data

They also necessarily need to agree to Privacy&Policy and Terms&Conditions.

This registration data is at no point visible to the public. It is only visible for trolley:motion in order to verify the organization in order to approve the user and grant access. Once the organization submits the Registration Form they will receive a confirmation email from the address [mail@circularity4publictransport.eu](mailto:mail@circularity4publictransport.eu) with this content:

Thanks for creating an account on CE4CE.  
The Admin might take up to 2 days in order to review your account. Please be patient, you will receive a confirmation email, once your account has been approved.

After successful verification and user approval by trolley:motion, the user will receive a confirmation from [mail@circularity4publictransport.eu](mailto:mail@circularity4publictransport.eu) with this content: "You have been approved to access CE4CE Matchmaking Forum.", and with the accompanying link to set or reset their password to their account.

Once the new user logs in they see their personal dashboard to manage listings:

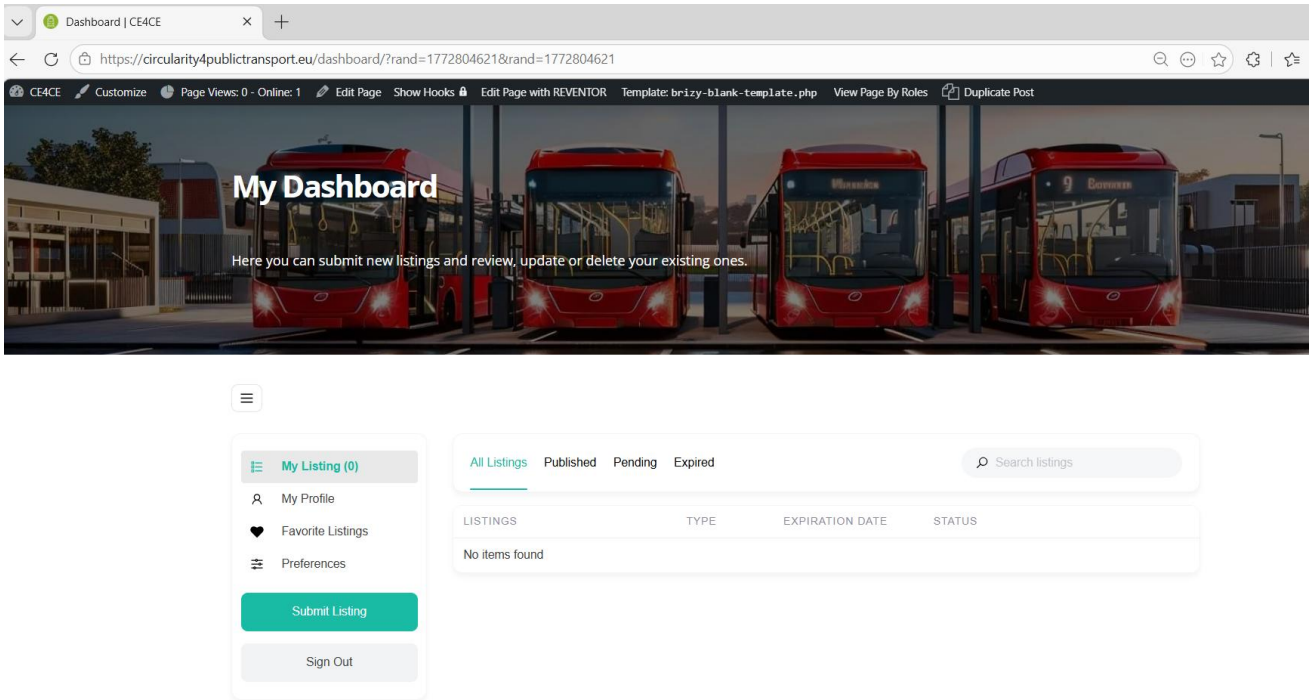


Figure 7 User dashboard

From *My Dashboard*, registered users now create and submit their listings via this form:

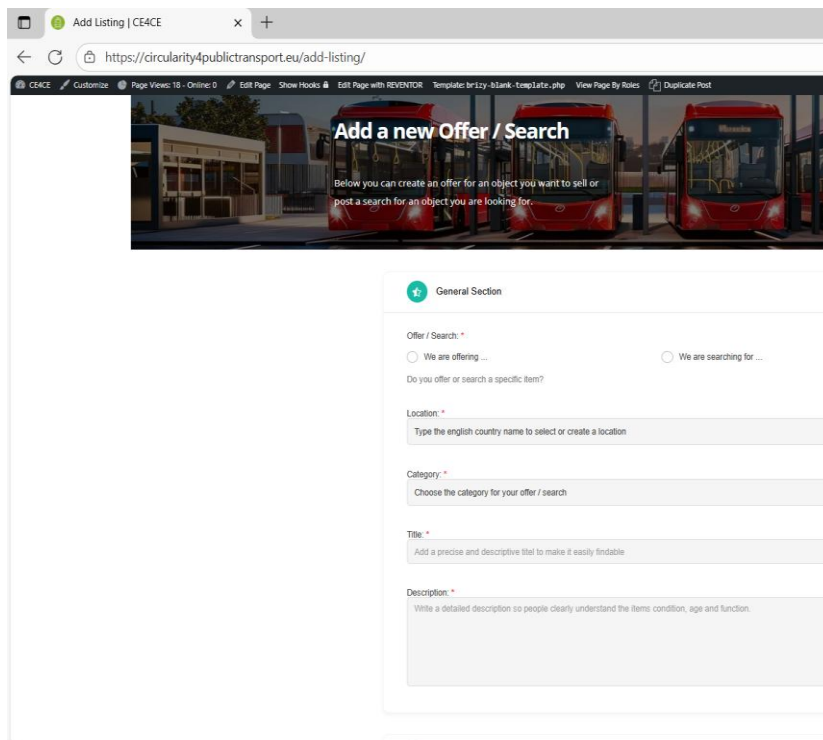


Figure 8 How to add a new offer or post an announcement (1)



Figure 9 How to add a new offer or post an announcement (2)

Users can now publish advertisements offering or searching for vehicles, spare parts, infrastructure components, batteries or related equipment. By means of the Dashboard users can also edit and remove listings.

Listings are automatically archived after nine months to ensure that the marketplace remains up to date.

Listing owners can retrieve the archived listings through their dashboard if they are still valid and they wish so.

After submitting the listing, it is visible to the public but without the entity contact details, just the country is stated.

If some other public transport company/authority or municipality gets interested in this posting they need to register to the Matchmaking Forum and be verified by trolley:motion as well, in order to be able to contact the listing owner via the conversation window.

In this conversation window the interested entity would have to fill in their email address. The listing owner will then get this message of interest to their email and it will be up to them whether they wish to reply to the sender or not for privacy protection.

Thus, the platform functions solely as an information-sharing forum since it makes possible to publishing advertisements, yet any party interested should follow up bilaterally with the respective seller / buyer.

Transactions and agreements take place outside the platform between interested parties. The Matchmaking Forum does not facilitate the transaction process itself; thus no payments are made through the platform.



## 8. Deployment and integration with the CE4CE circularity platform

The Matchmaking Forum is available via the Circular Economy for Public Transport Knowledge Platform at <https://circularity4publictransport.eu>

Hosting and user administration are managed within the CE4CE platform infrastructure, while verification of user registration and new listings is coordinated by trolley:motion.

The forum has been promoted among public transport stakeholders and currently contains demonstration listings while awaiting real advertisements. Initial interest has been expressed by operators from Gdynia, Szeged, Vilnius and Lviv to place their listings in search or offer of used vehicles there.

## 9. Challenges and lessons learned

One challenge was balancing open access for browsing with secure verification for publishing advertisements.

Furthermore, stakeholder barriers include limited awareness of the platform and possible language barriers for non-English speakers as it is not possible to put up the advertisement in the company's national language.

Mitigation measures include verification procedures (double verification: first of the prospective user while registration and then of the listing content before it gets published), privacy protection of contact details and recommendations to use reliable translation tools such as DeepL.

In case of the need for assistance or any queries the users can contact the website administrator (trolley:motion) via email address visible in the bottom of the Matchmaking Forum website: [mail@circularity4publictransport.eu](mailto:mail@circularity4publictransport.eu)

The screenshot shows the footer of the CE4CE knowledge platform. It includes the Interreg Central Europe logo and the text 'Co-funded by the European Union'. Navigation links for 'Imprint' and 'Privacy Policy' are present. The 'Contact' section lists 'TrolleyMotion' and the email address 'mail@circularity4publictransport.eu'. There are also social media icons for Facebook, Twitter, and LinkedIn. At the bottom, there are two call-to-action buttons: 'Visit the CE4CE Project Website' and 'Sign up for our Newsletter'.

Figure 10 Contact details of the CE4CE knowledge platform



## 10. Sustainability, future outlook and upscaling

The platform is expected to remain available after the CE4CE project as part of the Circular Economy Knowledge Platform.

Future improvements could include expanded listing categories and enhanced matchmaking functionalities.

The concept can be replicated in other regions or transport sectors seeking to promote circular economy solutions.

What is more, several institutions signed Letters of Commitment declaring their support in upscaling the CE4CE Circular Economy Knowledge Platform and the Matchmaking Forum.

## 11. Conclusions

The Matchmaking Forum successfully provides a working fully functional practical tool enabling reuse of public transport assets and improving information exchange between operators.

The solution contributes to CE4CE objectives by supporting circular economy implementation, reducing waste and promoting resource efficiency in public transport systems.

All things considered, there are very high prospects of the Matchmaking Forum functioning beyond the project lifetime.