



# User manual RER DPG

## Rural Property Registration Module



**CAR DPG User Manual – Rural Property Registration Module**

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## 1. Objective

This manual aims to present the operationalization of the RER DPG<sup>1</sup> – Rural Environmental Registry as a Digital Public Asset, about the Rural Environmental Registry module.

## 2. Introduction

The Ministry of Management and Innovation in Public Services (MGI), in partnership with Dataprev and support from NORAD, proposed the development of the RER DPG — an open, modular and customizable digital solution, based on the principles of a Digital Public Good (DPG)

RER DPG is a technological platform that aims to increase efficiency, interoperability with other systems, adaptation to international legislation and user experience in the management of rural property registration.

The solution's approach aims to meet both Brazil's specific needs and allow its replication in international contexts, promoting the interoperability and flexibility necessary to adapt to different legislation, cultural requirements, and local realities.

Based on open-source technologies, the solution will be modular, scalable and interoperable, and should include:

- An administrative portal for configuration and management;
- A portal for registering properties and owners;
- Robust geospatial tools are integrated into modules.

The system is designed to offer a range of innovative features, most notably a highly efficient geospatial engine that enables the processing and analysis of spatial data in real time, facilitating visualization and decision-making in various areas, such as urban planning and environmental monitoring.

The solution will have multilingual capabilities, supporting multiple languages, ensuring global accessibility and adaptability to users' local needs, regardless of region. Additionally, the

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<sup>1</sup> RER - Rural Environmental Registry, and DPG - Digital Public Good.

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system should be structured based on microservices, which ensures greater flexibility, scalability and ease of maintenance, allowing each component to function independently and can be updated or replaced without impacting overall operation.

Building blocks, a traditional concept in *DPGs*, enable the creation of customized solutions and integration with other platforms, providing a modular and reusable approach, and allowing blocks to be replaced by other technologies more suited to the reality of each country. That said, the solution that will be implemented will have three blocks: (i) administration portal, (ii) registrant portal and (iii) calculation engine.

This manual aims to provide a step-by-step guide for using the property registration module, in its first version.

It's worth noting that the map centroid, satellites, map features, required registration fields, logo displayed on receipts, property identification code prefix, and other customizations are defined in configuration files and can be configured during the initial installation process. More information can be found in the project's technical documentation on Git Hub.

### **3. System Operationalization – Registration Module**

#### **Step 1 - Access**

Available at: [registration.rer.gov.br /login](http://registration.rer.gov.br/login), the user must log in to the solution through the “Register” option or use Gov.BR federated credentials.

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gov.br

English (USA) ▾

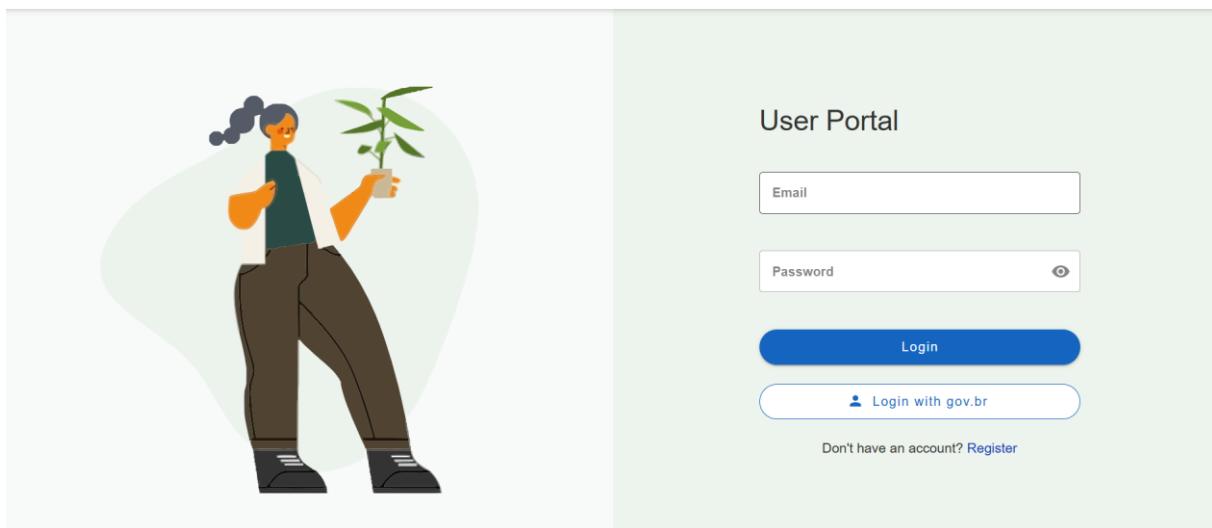


Figure 1- Login screen

### Step 2 – View initial options

gov.br

English (USA) ▾



Information. This environment is for demonstration purposes. Data is deleted daily and should not be considered permanent.



Choose the option based on what you want to do.



Register property



Properties



Profile

Learn more about the project.

Figure 2- View initial options

In this step, the user has the option to choose to register property, view properties (already registered) and view profile details.

Alternatively, on this screen or any other in the system, the user can change the page language: English, Portuguese and Spanish.

### Step 3 – Register rural property

The first option, register rural property, consists of 5 steps that will be detailed below.

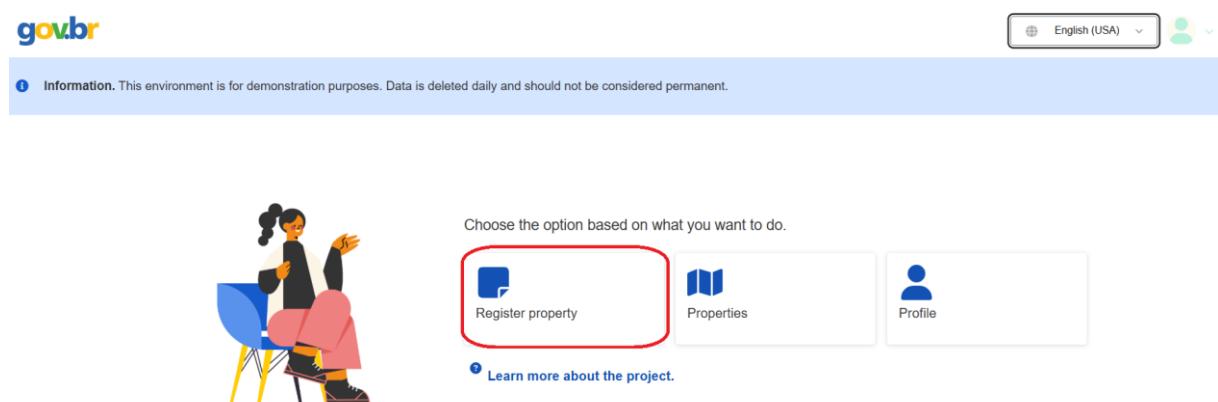
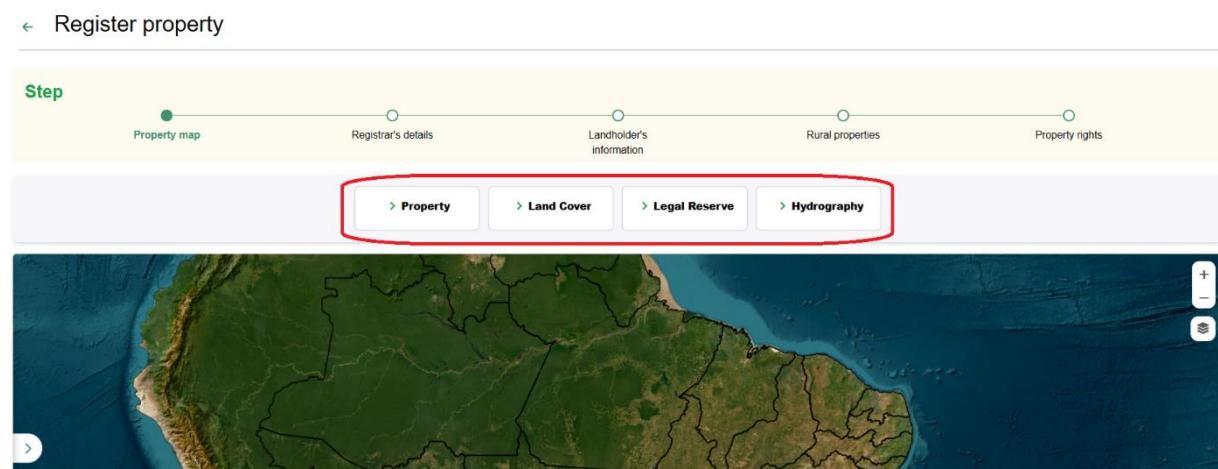


Figure 3- Register rural property

#### 3.1 Property map

In this step, the user should use the features available on the right side of the map to draw the geospatial layers that make up the properties. The layers are grouped into property (for drawing the property area and indicating the headquarters), land cover (for drawing the consolidated area and reborn native vegetation), and hydrography (for drawing the river, rivers up to 10 m deep, and any springs that may exist on the property).



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must be drawn .

[← Register property](#)

**Step**

Property map      Registrar's details      Landholder's information      Rural properties      Property rights

**Property**      **Land Cover**      **Legal Reserve**      **Hydrography**

**Property**  
Select a layer to draw and process property areas.  
  **Rural Property Area**  
  **Property Headquarter**

Please select a layer from the group above.



Figure 5 – Property map

After drawing the property polygon and with the necessary layers, the user must click on the “Next” button, in the bottom right corner of the page.

### 3.2 – Declarant Details

[← Register property](#)

**Step**

Property map      Registrar's details      Landholder's information      Rural properties      Property rights

**REGISTRAR'S DETAILS**  
Fill in the information of the person responsible for doing the register (landholder, technical assistant, government officer, others).

**Data**

Personal ID (Required)	Date of birth (Required)
Name (Required)	Mother's name (Required)

**Representative Data**  
Representative: In the Rural Environmental Registry (RER), the representative is an individual authorized by the property owner or landholder to act on their behalf at all stages of the registration process.

I do not have a representative	I have a representative and he/she is the registrar	I have a representative and he/she is not the registrar
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Name (Required)	Date of birth (Required)
Name (Required)	Mother's name (Required)

[Previous](#)      [Next](#)

Figure 6 – Declarant Details

In this session, information about the property declarant and the relationship between the declarant and the property representative, if any, must be entered.

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### 3.3 – Property owner information

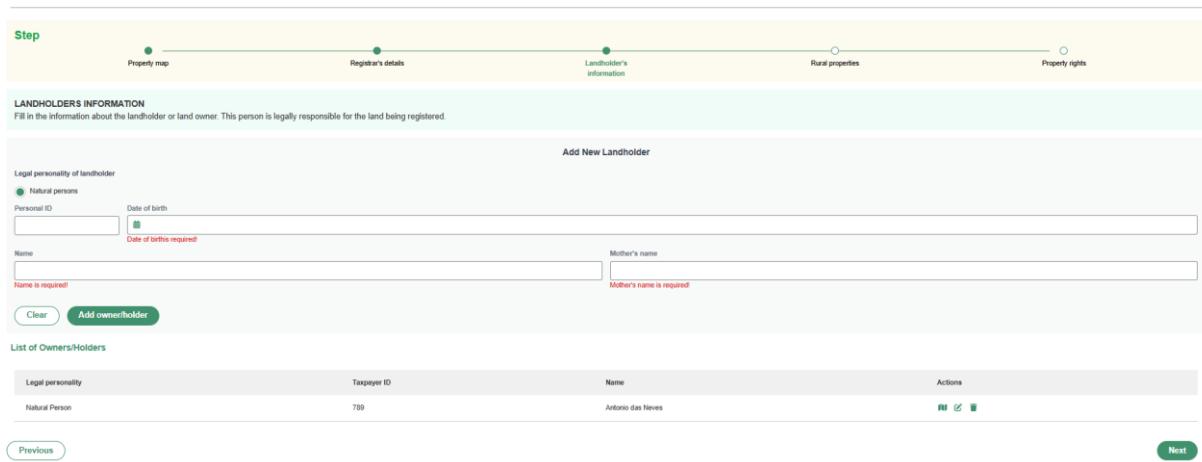


Figure 7 – Property owner information

In this section, you must enter the property owner's information. One or more owners can be added to the listing. Alternatively, each owner's information can be changed using the features in the "Actions" column. After entering all owner information, click the "Next" button.

### 3.4 – Rural property data

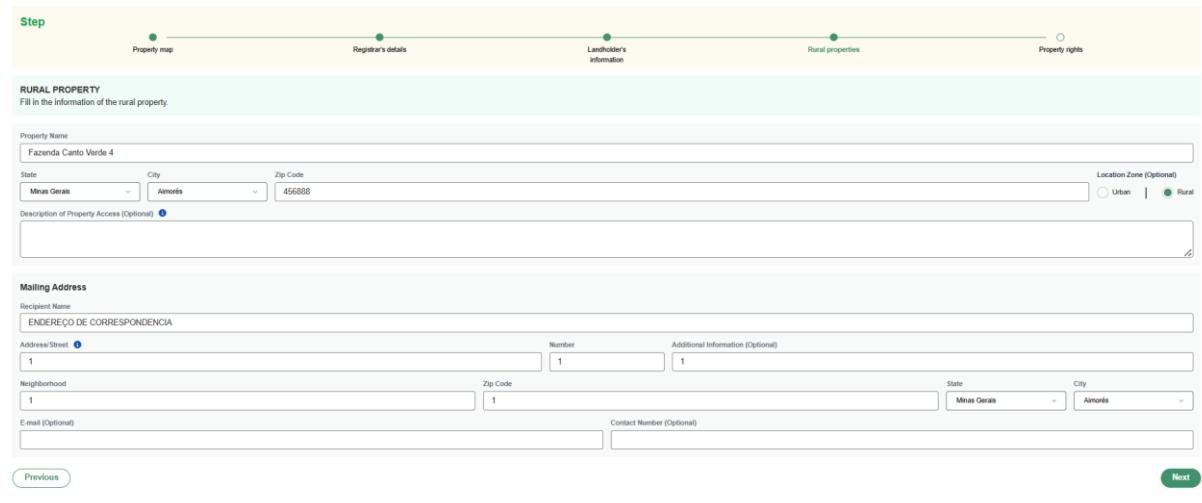
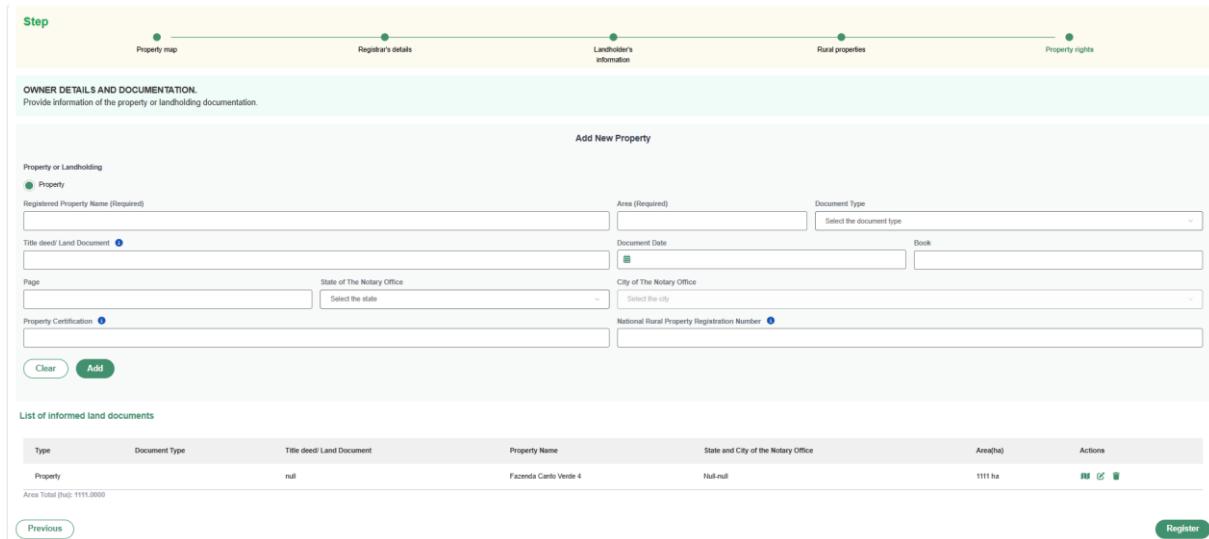


Figure 8 – Rural property data

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In this section, information about the rural property/property must be entered: Property Name, State, Municipality/City, Zip Code, Zone (Rural or urban), Access Description, Address, as shown in figure 7. After filling in the mandatory fields, the user must click on “Next”.

### **3.5 – Documents of possession or ownership**



Type	Document Type	Title deed/ Land Document	Property Name	State and City of the Notary Office	Area(ha)	Actions
Property	null	Fazenda Canto Verde 4	Null-null	1111 ha		

**Figure 9 – Documents of possession or ownership**

In this section, information regarding ownership or possession of the property must be entered. Owner's details and documentation: Name of property; area; type of document (deed, deed, purchase and sale agreement); title deed; date of document, book, page, state of registry office, city of registry office, National Rural Property Registry System Code, Ownership Certification, National Rural Property Registration Number, has registered legal reserve. One or more types of property documents can be informed, and the total area of the property will be considered as the sum of the areas of the document(s) informed.

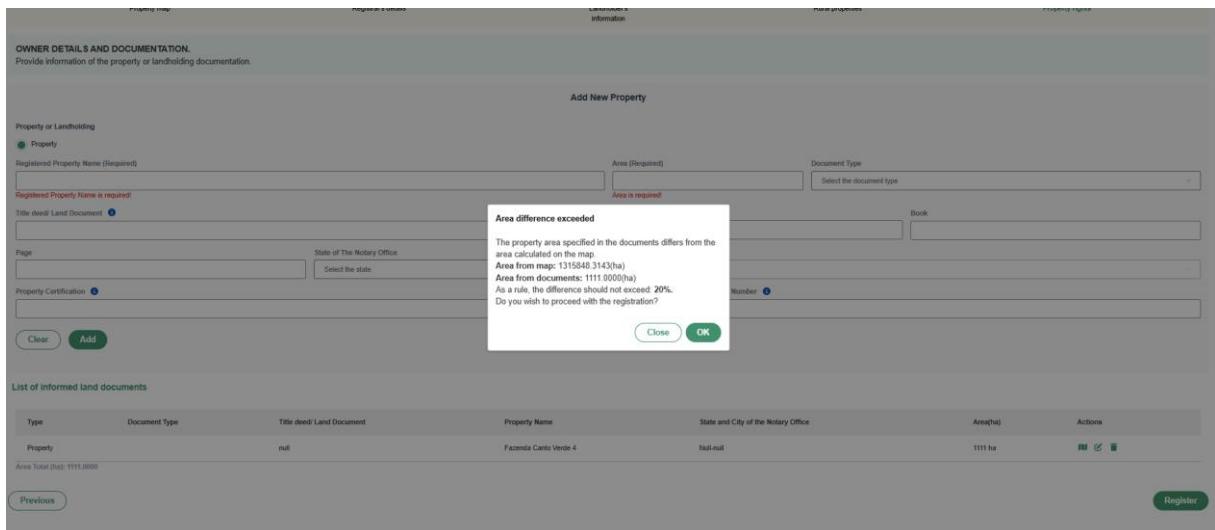
After entering all the necessary data, the user must click "Register." At this point, the system internally checks the property area value calculated in step 3.1 - Property Map against the total displayed in this step.

If the difference value is greater than the percentage defined in the configuration files, an alert will be displayed on the screen, and the user must proceed with the adjustments or provide notice to complete the property registration, as shown in the image below.

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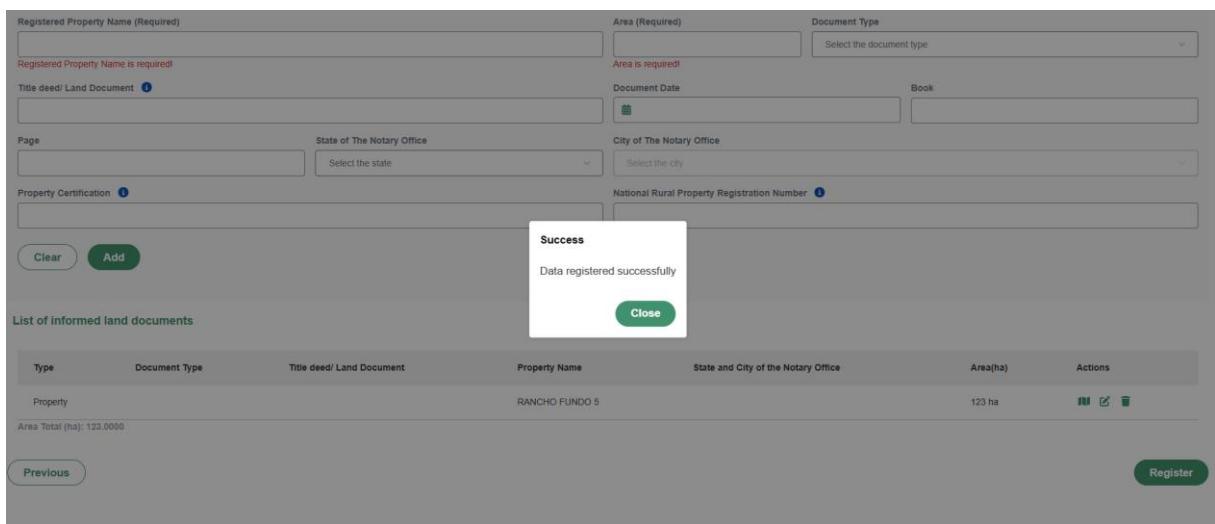
Figure 10 – Area difference exceeded alert

In this example, by clicking “Ok”, the user authorizes the registration of the property.



The screenshot shows a form for 'Add New Property'. In the 'Property or Landholding' section, there is a red validation message 'Area is required'. A modal dialog box titled 'Area difference exceeded' contains the following text:  
 The property area specified in the documents differs from the area calculated on the map.  
 Area from map: 1315648.3143(ha)  
 Area from documents: 1111.0000(ha)  
 As a rule, the difference should not exceed 20%.  
 Do you wish to proceed with the registration?  
 Buttons: Close (green), OK (green).

Figure 11 – Saving property data



The screenshot shows a form for 'Add New Property'. A modal dialog box titled 'Success' contains the text 'Data registered successfully'. Buttons: Close (green).  
 Below the form is a table titled 'List of informed land documents' with one row:  
 Type: Property, Document Type: null, Title deed/ Land Document: null, Property Name: Rancho Fundo 5, State and City of the Notary Office: null, Area(ha): 123 ha, Actions: edit, delete.

Figure 12 – Property registered successfully

This completes the property registration and should be available for viewing in the property listing if the logged-in user is the owner or representative of the property.

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### Step 4 - List properties

The second option on the menu is shown in Figure 2 - Rural property listing.

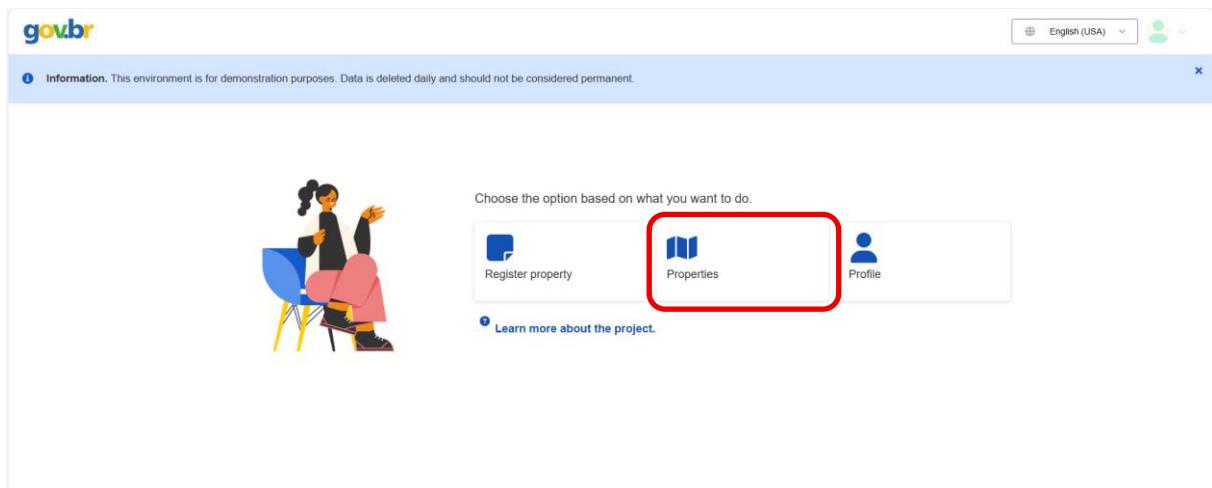
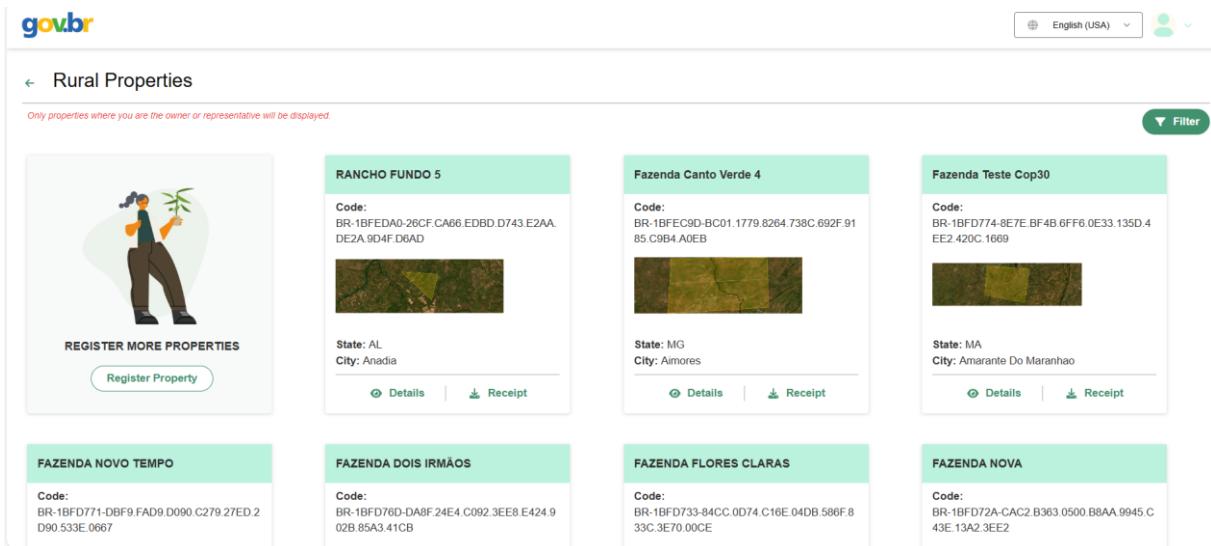


Figure 13 - Rural property listing

When clicking on the option highlighted in figure 13, the system will display the registered properties.



A screenshot of the "Rural Properties" list page. At the top left is the gov.br logo, followed by a back arrow and the text "Rural Properties". Below this is a note: "Only properties where you are the owner or representative will be displayed." On the right is a "Filter" button. The main area displays a grid of property cards. Each card includes a thumbnail image, the property name, its code, state, city, and links to "Details" and "Receipt".

Property Name	Code	State	City	Actions
RANCHO FUNDO 5	BR-1BFEDA0-26CF CA66 EDBD D743 E2AA DE2A 9D4F D6AD	AL	Anadia	<a href="#">Details</a>   <a href="#">Receipt</a>
Fazenda Canto Verde 4	BR-1BFEC9D-BC01.1779.8264.738C.692F.91 85.C9B4.A0EB	MG	Aimores	<a href="#">Details</a>   <a href="#">Receipt</a>
Fazenda Teste Cop30	BR-1BFD774-8E7E.BF4B.6FF6.0E33.135D.4 EE2.420C.1669	MA	Amarante Do Maranhao	<a href="#">Details</a>   <a href="#">Receipt</a>
FAZENDA NOVO TEMPO	BR-1BFD771-DBF9.FAD9.D090.C279.27ED.2 D90.533E.0667			<a href="#">Details</a>   <a href="#">Receipt</a>
FAZENDA DOIS IRMÃOS	BR-1BFD76D-DA8F.24E4.C092.3EE8.E424.9 02B.85A3.41CB			<a href="#">Details</a>   <a href="#">Receipt</a>
FAZENDA FLORES CLARAS	BR-1BFD733-84CC.0D74.C16E.04DB.586F.8 33C.3E70.00CE			<a href="#">Details</a>   <a href="#">Receipt</a>
FAZENDA NOVA	BR-1BFD72A-CAC2.B363.0500.B8AA.9945.C 43E.13A2.3EE2			<a href="#">Details</a>   <a href="#">Receipt</a>

Figure 14 – List properties

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In this section, the user will only be able to view registered properties where the logged-in user is the owner or representative of the property.

Alternatively, the user can improve the property query using filters.

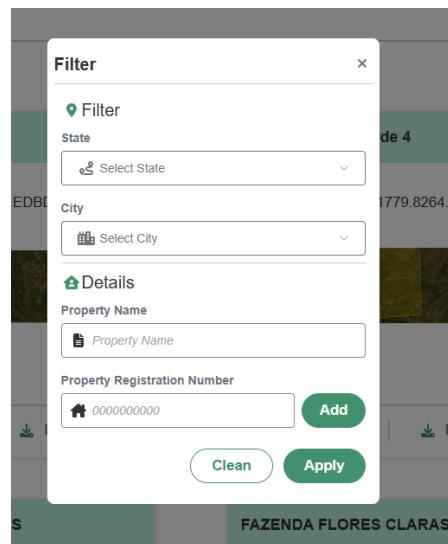


Figure 16 – Filter to list properties

For each registered property, the user can view or download the property receipt or even start the process of registering a new property.

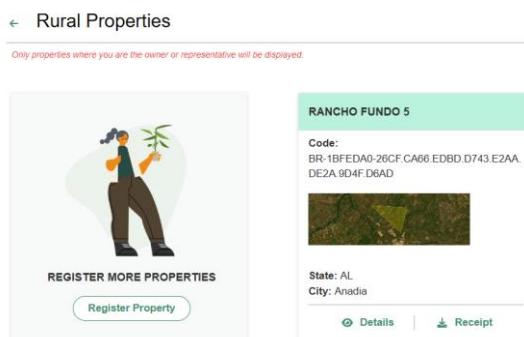
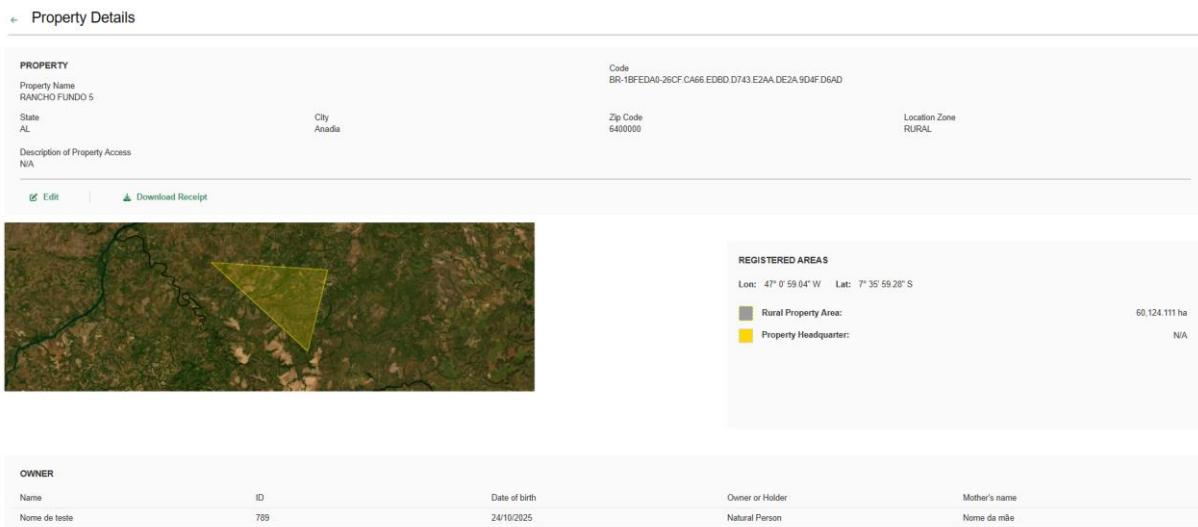


Figura 16 - Funcionalidades alternativas

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By clicking on the details option, the user can view all the data registered for that property and, if necessary, make changes by clicking the "edit" button. It is also possible to download the receipt for that property by clicking "Download Receipt."



The screenshot shows a web-based application interface for managing rural properties. At the top left is a back arrow labeled "Property Details". Below it is a section titled "PROPERTY" containing the following data:

Property Name	RANCHO FUNDO 5	Code	BR-1BFEDA0-26CF.CA66 ED8D D743.E2AA DE2A 904F D6AD
State	AL	City	Anadia
Description of Property Access	N/A	Zip Code	6400000
		Location Zone	RURAL

Below this is a "Description of Property Access" field with "N/A". Underneath are two buttons: "Edit" and "Download Receipt".

The main area features a satellite map of a rural landscape with a yellow polygon highlighting a specific property area. To the right of the map is a box titled "REGISTERED AREAS" containing the following information:

Lon: 47° 0' 59.04" W	Lat: 7° 35' 59.28" S
Rural Property Area:	60,124.111 ha
Property Headquarter:	N/A

At the bottom of the page is a "OWNER" section with the following fields:

Name	ID	Date of birth	Owner or Holder	Mother's name
Nome de teste	789	24/10/2025	Natural Person	Nome da mãe

Figure 17 – List properties

By clicking the "Download Receipt" option, the user will have access to the property receipt in PDF format. The receipt will be available in English by default, but this language must be changed in the configuration file.



### RECEIPT OF REGISTRATION OF RURAL PROPERTY IN RER

RER Registry: BR-1BFEDA0-26CF.CA66.EDBD.D743.E2AA.DE2A.9D4F.D6AD	Registered at: 24/10/2025 14:04:44
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#### RECEIPT OF REGISTRATION OF RURAL PROPERTY IN RER

Rural Property Name: RANCHO FUNDO 5		
Municipality: ANADIA	State/District: AL	
Geographic Coordinates of the Centroid of the Rural:	Latitude: -47.28137500	Longitude: -7.51803700
Total Area (ha) of Rural Property: 60124.1111		

#### GENERAL INFORMATION

- 1 - This document represents confirmation that the rural property has been declared in the Rural Environmental Registry-RER and is subject to validation by the competent body;
- 2 - The information provided in the RER is of a declaratory nature;
- 3 - Documents, especially those of a personal or property nature, are the responsibility of the owner or rural holder who declares;
- 4 - This registration of the Rural Property of Agrarian Reform Settlements in the RER may be suspended or cancelled at any time due to failure to comply with notifications of pending issues or inconsistencies detected by the competent body within the deadlines granted or due to irregularities found;
- 5 - This document does not replace any environmental license or authorization for forestry exploitation or vegetation suppression, nor does it exempt the authorizations necessary to exercise economic activity on the rural property;
- 6 - The registration of the Rural Property of Agrarian Reform Settlements in the RER will not be considered a title for the purposes of recognizing the right of ownership or possession; and
- 7 - The declarant assumes full environmental responsibility for the Rural Property of Agrarian Reform Settlements declared in his/her name, without prejudice to liability for environmental damages in a contiguous area,

Figure 18 – I received the property in PDF format

### Step 5 – View user profile

The third functionality option is to view the data of the user logged into the system.

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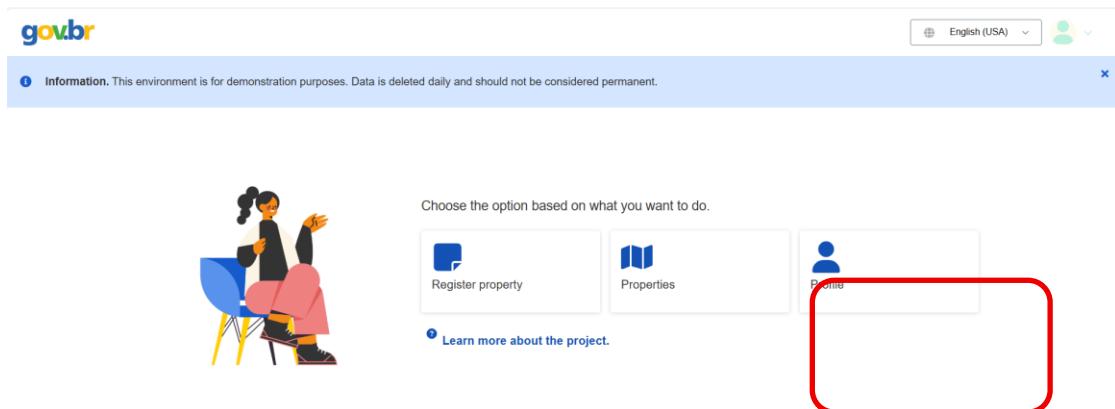
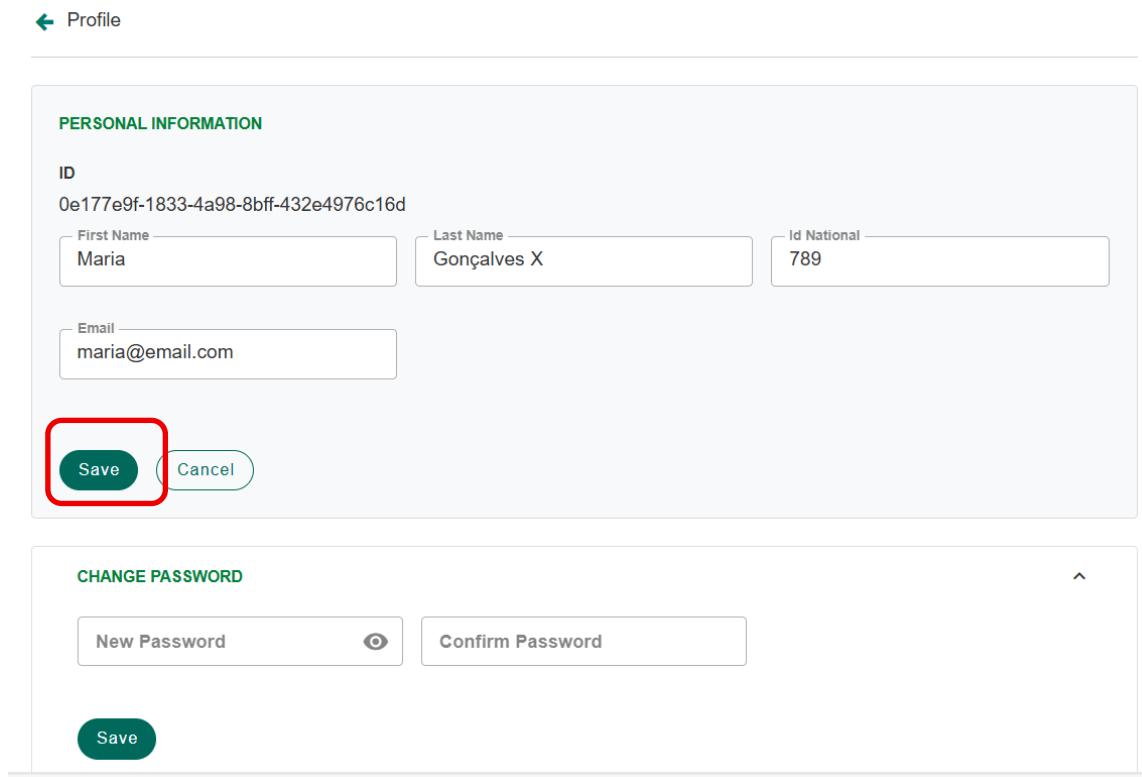


Figure 19 - View profile

In this option, the user will be able to view the logged-in user's data and change it when necessary.



The screenshot shows the 'Edit profile' section. At the top, there's a back arrow and the word 'Profile'. The first section is 'PERSONAL INFORMATION' with fields for ID (0e177e9f-1833-4a98-8bff-432e4976c16d), First Name (Maria), Last Name (Gonçalves X), Id National (789), and Email (maria@email.com). A 'Save' button is at the bottom of this section, highlighted with a red box. Below it is a 'CHANGE PASSWORD' section with 'New Password' and 'Confirm Password' fields, and a 'Save' button at the bottom.

Figure 20 - Edit profile

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When the user is logged into the application using a federated authentication method, the data cannot be changed to maintain uniqueness with the chosen authentication method. An alert is displayed on the screen to better guide the user.

## **4 Conclusion**

The registration module aims to allow the registration of rural properties with a focus on details of geographic and non-geographic data of properties, owners and their relationships, with some minimum automated validations (identification and authentication).