



Platform User's Manual

FIWOO Platform

<https://platform.fiwoo.eu/>



Table of Contents

1 Platform Access	4
2 Login-Signup Operations	5
2.1 Login	5
2.2 Signup	6
2.3 Terms and Conditions	8
3 Header and Footer Operations	8
3.1 Menu	8
3.2 User's Options	10
3.3 Search	11
3.4 Notifications	12
3.5 Chatbot	14
4 Dashboards and widgets	15
4.1 Dashboards	16
4.2 Widgets	18
5 IoT Management	20
5.1 Devices	20
5.2 Templates	24
6 Business Intelligence	26
6.1 Models	27
6.2 Routes	28
6.3 Predictions	29
7 Statements	29
7.1 Expert Mode	30
7.2 Basic Mode	31
8 Users Management	32
8.1 Users	32
8.2 Roles	33
8.3 Groups	34
9 Rewards	35
9.1 My Wallet	36
9.2 Transactions	37
10 Agenda	38
10.1 Add event	38
10.2 Join Meeting	38
11 Reports	39
12 Open Data	40
13 Bulk Data	42
13.1 Device import export	43
13.2 Open Data import export	43



14	Data privacy	43
14.1	<u>Historical Data</u>	44
14.2	<u>Personal Data</u>	44
14.3	<u>Sensitive Data</u>	45
15	Forum	46
16	About	46



I Platform Access

To access to the Platform you must access to the following url from a browser in a personal computer or a mobile device (tablet or smartphone):

<https://platform.fiwoo.eu/>

Also, you can access directly through the first shortcut on the FIWOO Resources webpage:

<http://www.fiwoo.eu/resources/>

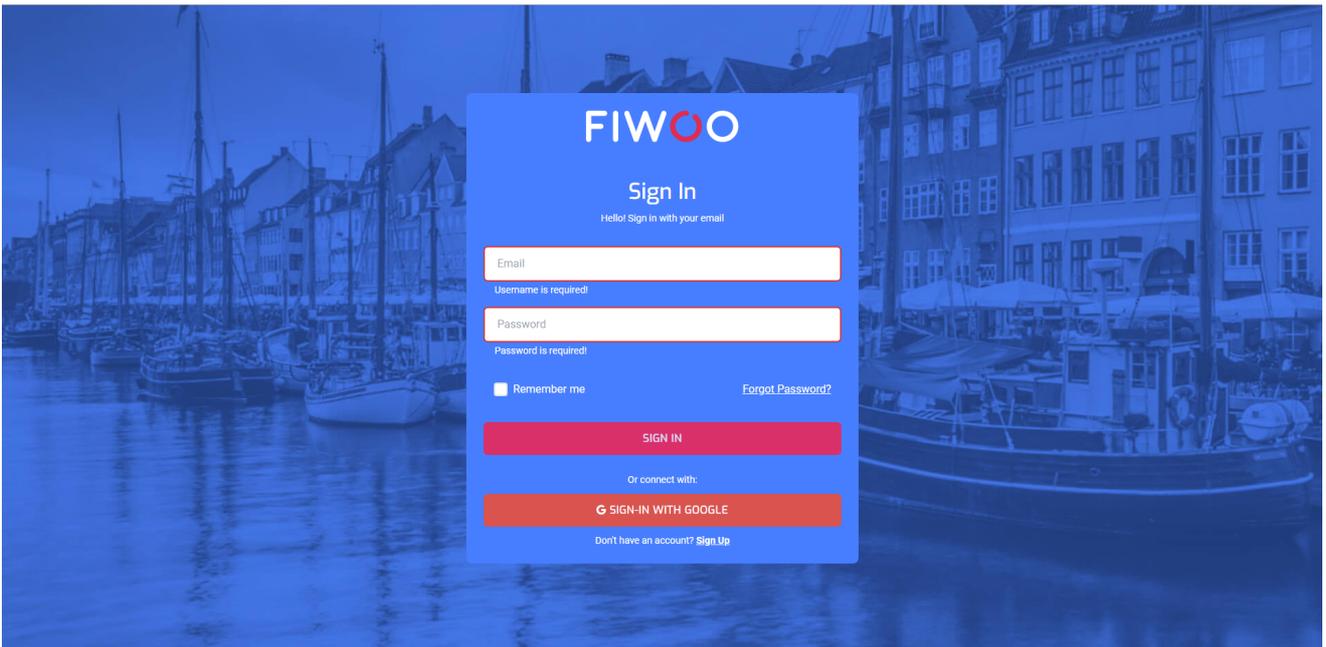




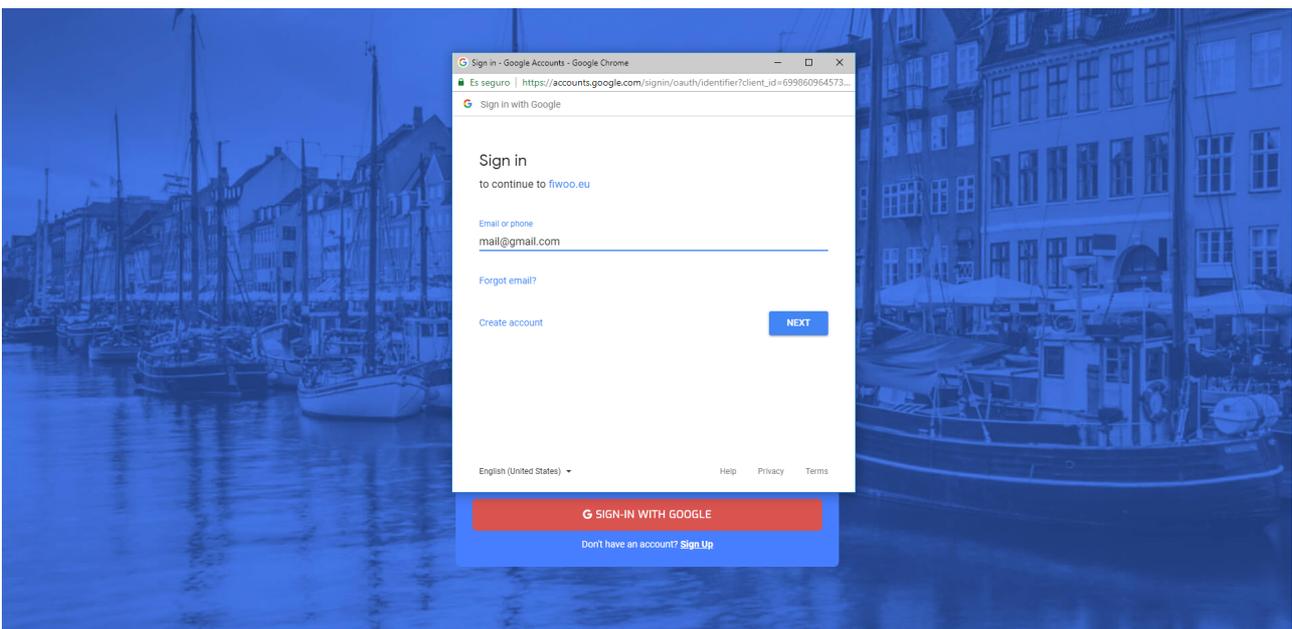
2 Login-Signup Operations

2.1 Login

Once typing the url, you will access to the login screen where you must put your credentials: user id (your email address) and your password.

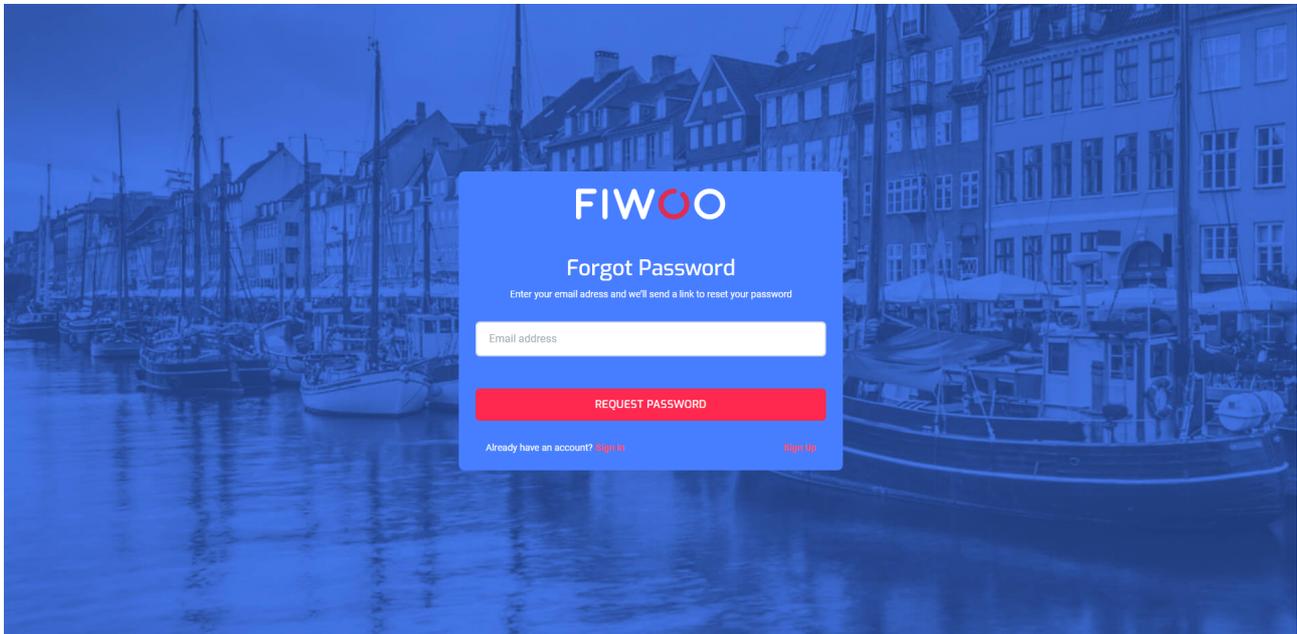


Also, you are able to login with your Google Account:





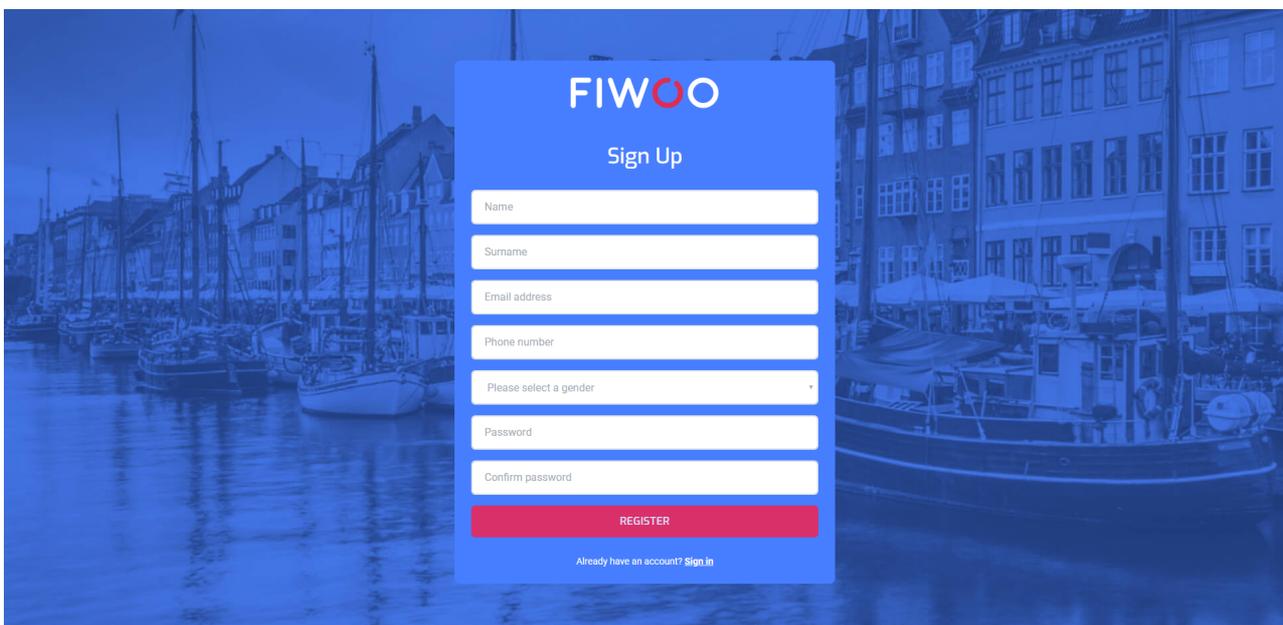
If you don't remember your password, you can request a new password using the Forgot Password screen:



2.2 Signup

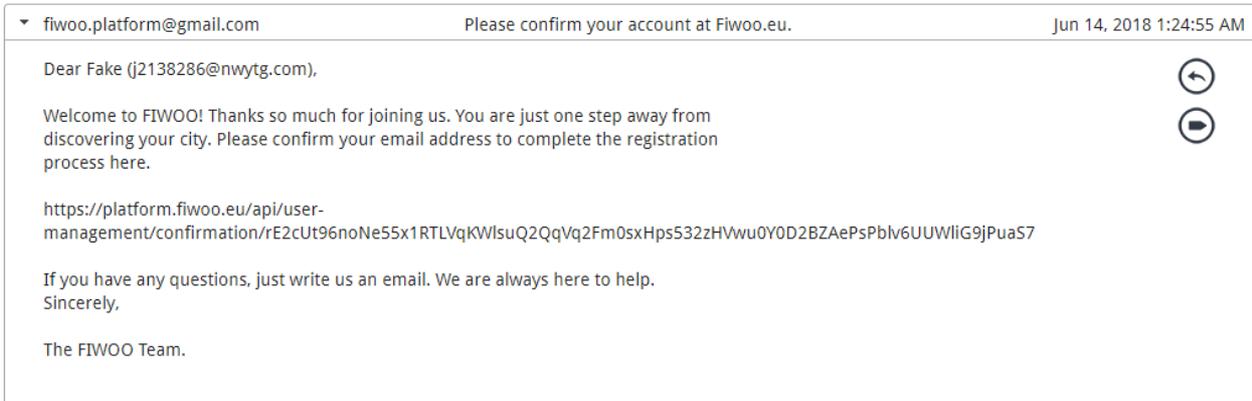
If you still don't have a FIWOO account, you are able to create one at registration page on our website, also accessible from mobile devices:

<https://platform.fiwoo.eu/#/auth/register>

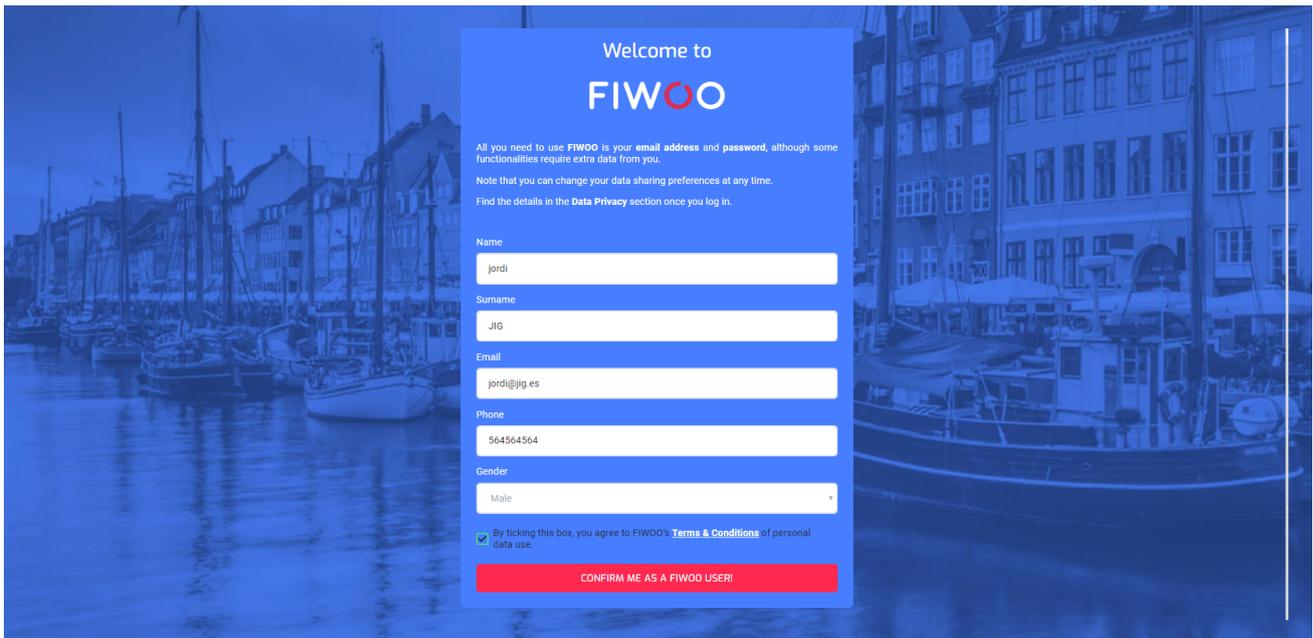




You will receive a confirmation email:



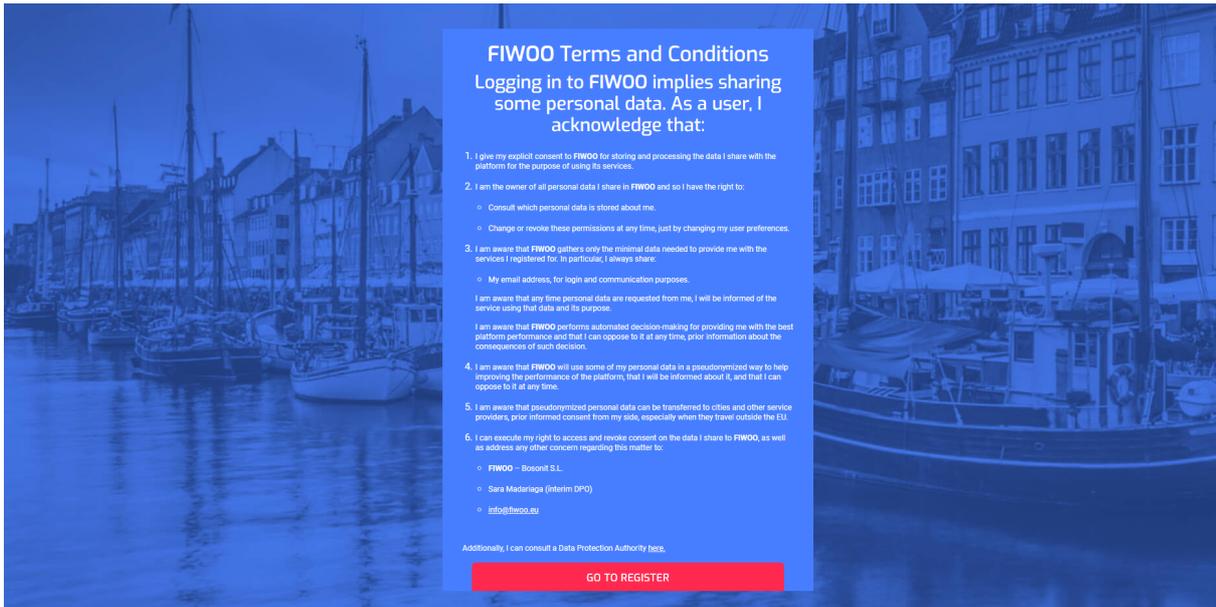
You will be redirect a the User Confirmation page to confirm your data an validate your email:





2.3 Terms and Conditions

At the “Terms and Conditions” page you will be able to access the implication of logging into FIWOO about the sharing of some personal data.



3 Header and Footer Operations

3.1 Menu

In all the sections of the platform, anytime, you will be able to access to the menu of the application clicking on the menu left upper button.

The button takes the form of an icon that consists of three parallel horizontal lines also called the hamburger, options button, tribar or triple bar. It is a common button placed typically in a top corner of a graphical user interface.



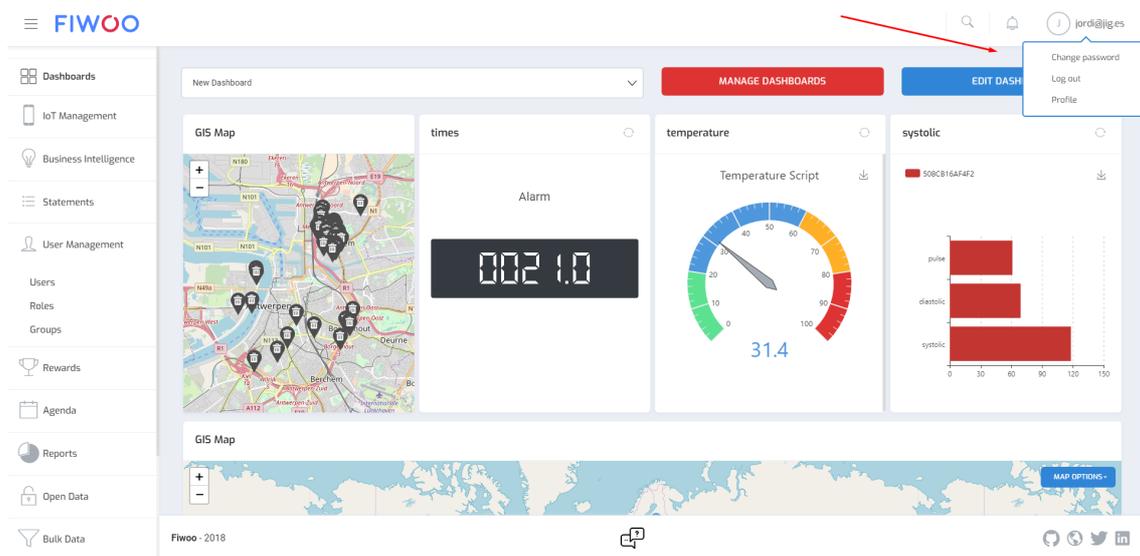
	Dashboards
	IoT Management
	Business Intelligence
	Statements
	User Management
	Users
	Roles
	Groups
	Rewards
	Agenda
	Reports
	Open Data
	Bulk Data



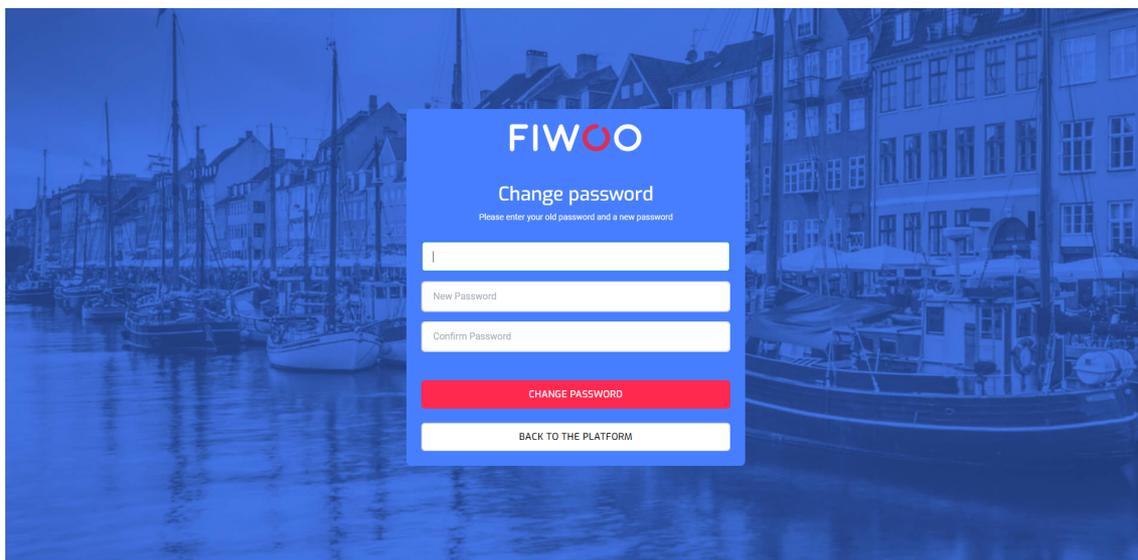
3.2 User's Options

On the top right of the header, you can access to the user options menu where you will be able to change the password or see your profile.

From this user menu, the user can also do a log out. The log-out button is located at the bottom of the lateral menu. Once clicked the user will be logged out of the app.

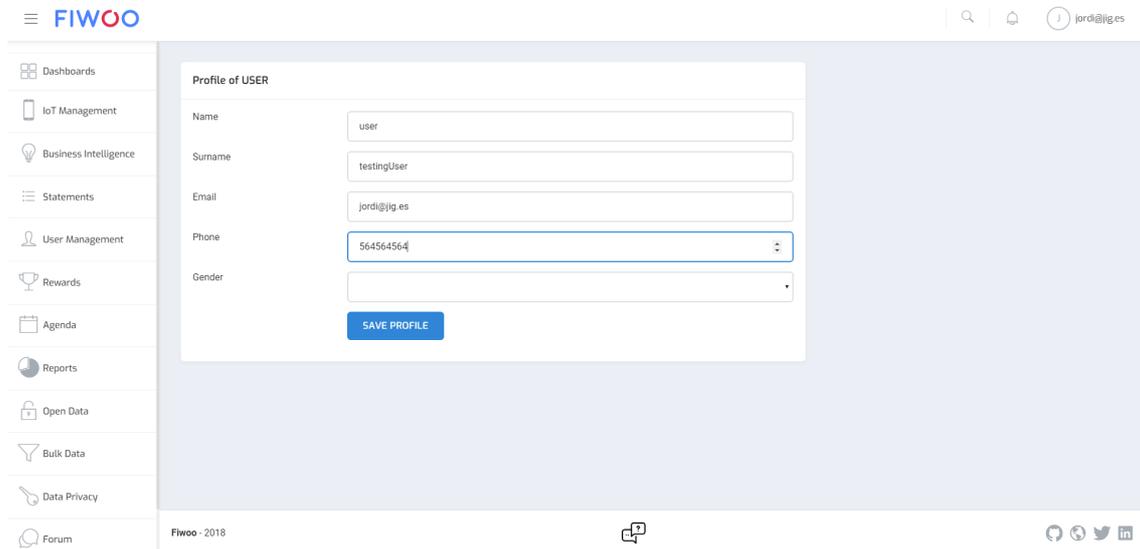


To change de password, you must introduce the old password and the new password (twice):



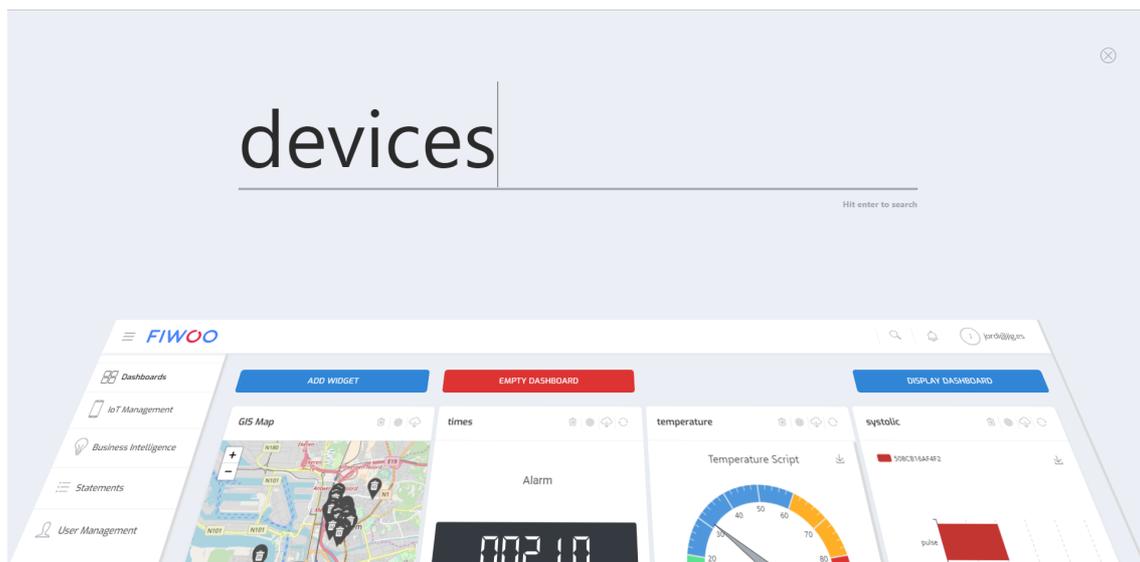


Also, the user is able to see the profile of the user and be able to update the name, surname, email, phone number and gender:

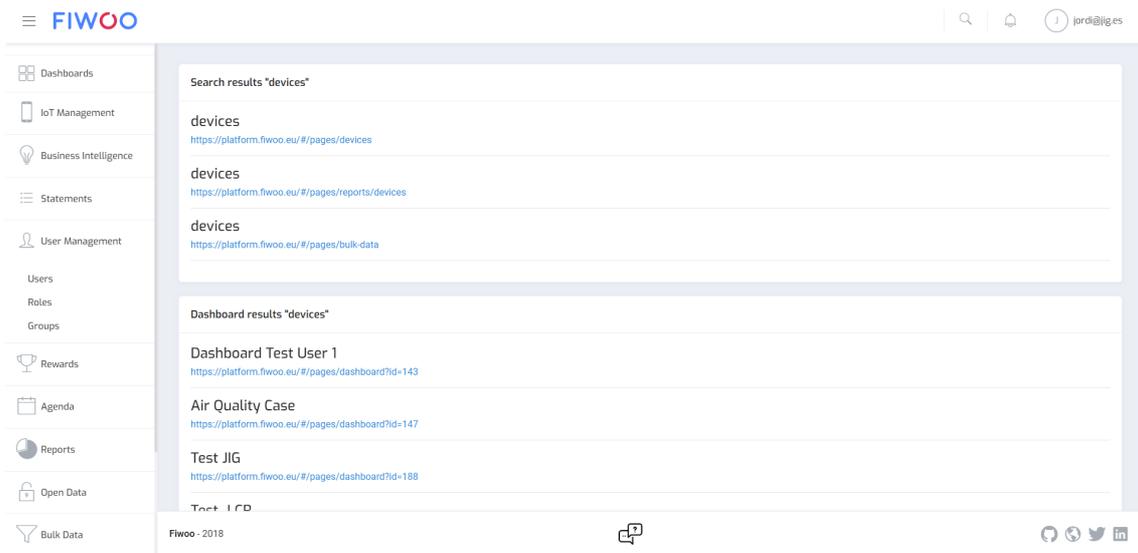


3.3 Search

Search screen is reachable from the header, clicking the icon of a magnifying glass. One clicking, you will be able to text whatever you want to search on the platform (devices, dashboards, users...):



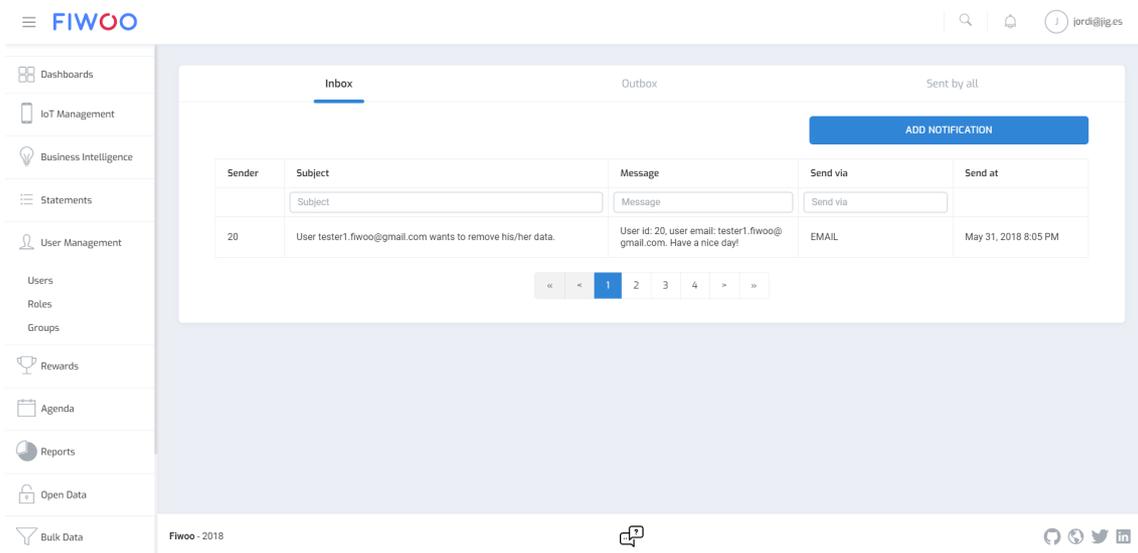
Once introducing the text to search, and clicking the enter button, you will be able to access to the search results pages with all the items coinciding with the search:



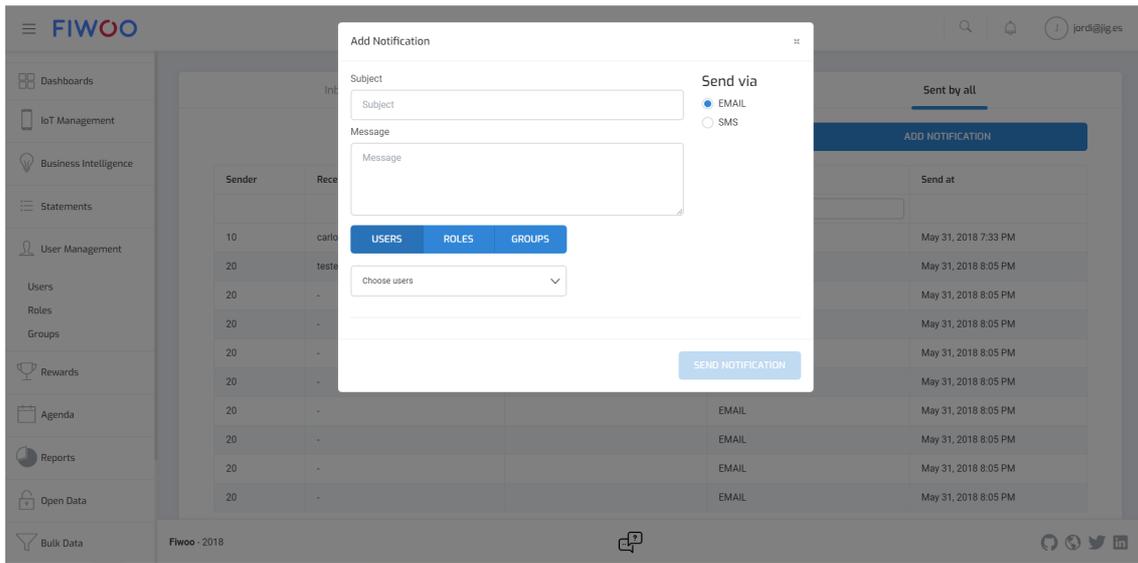
3.4 Notifications

Also at the header, clicking on the “bell” icon, you will be able to access to the Notifications with 3 sections: Inbox, Outbox and Sent by all.

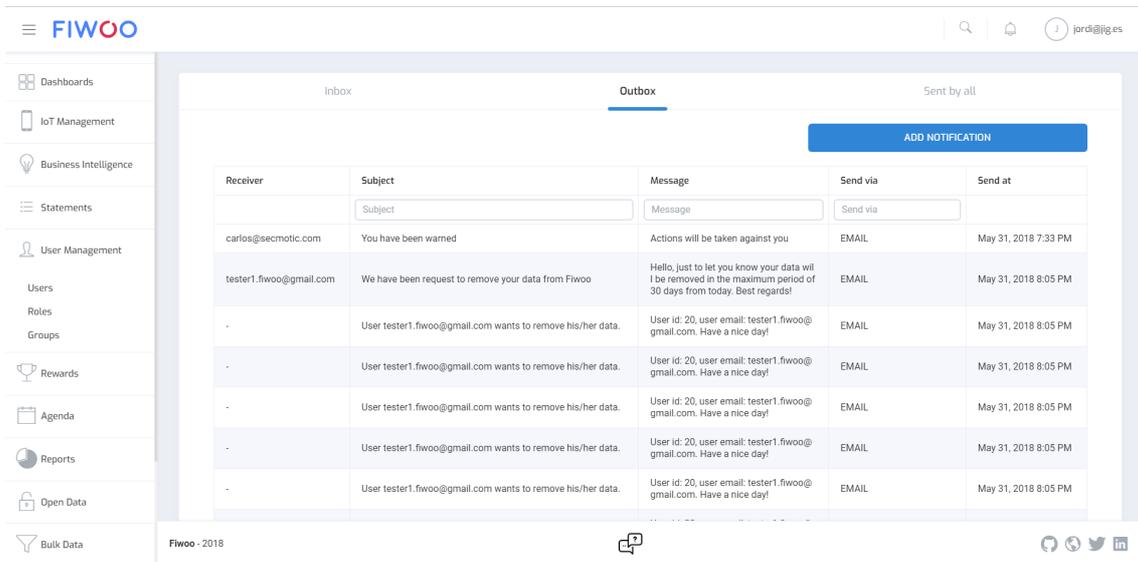
Notifications inbox where it is possible to search by subject, message or sent method:



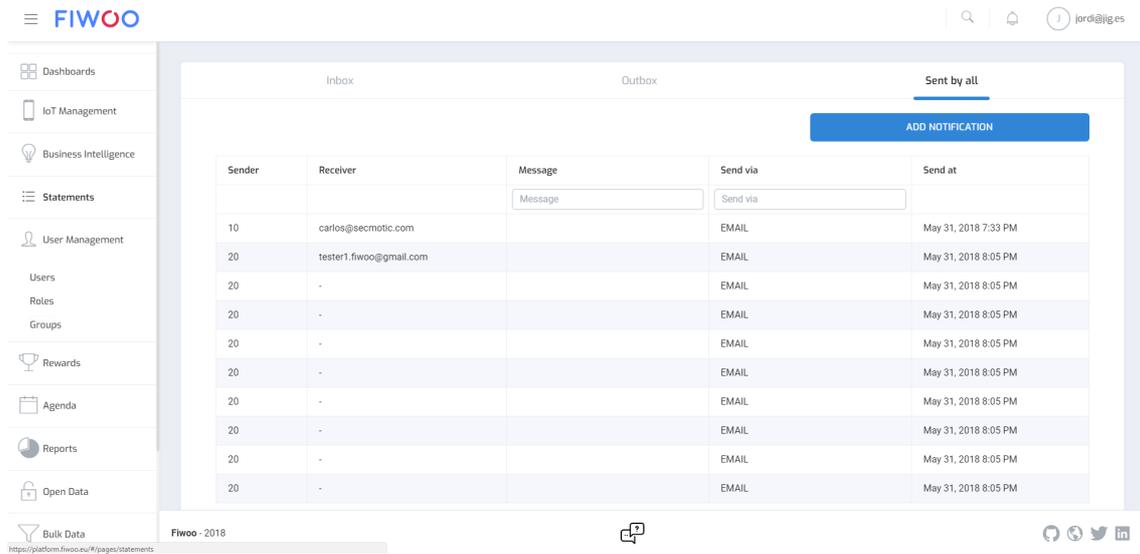
Clicking on the Add Notification Button, it will be possible to send a notification via email or SMS. You will be able to choose users, roles or groups:



At the notification outbox you will also be able to filter the messages by subject, message or sent method:

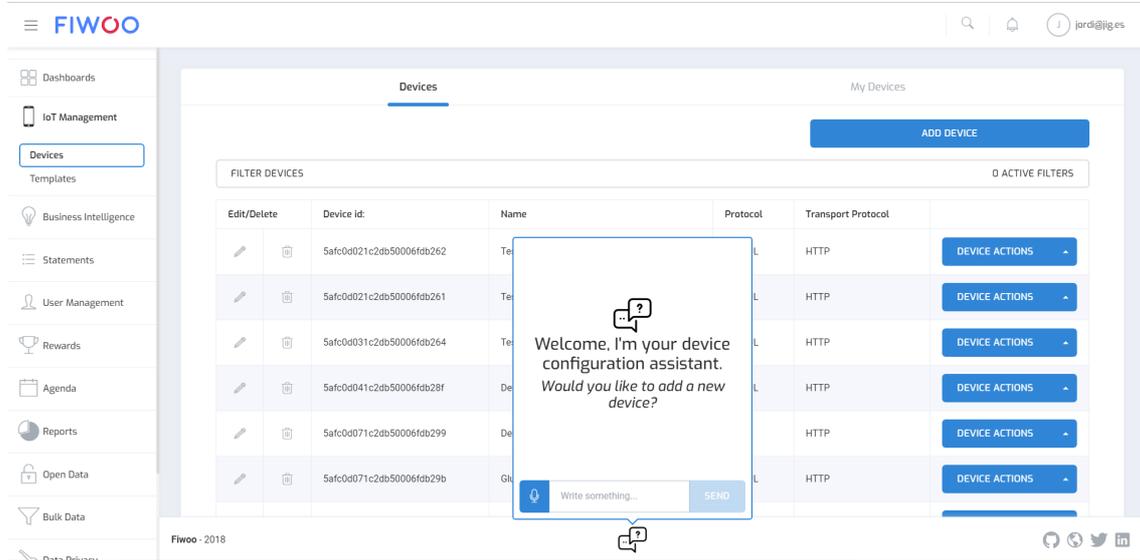


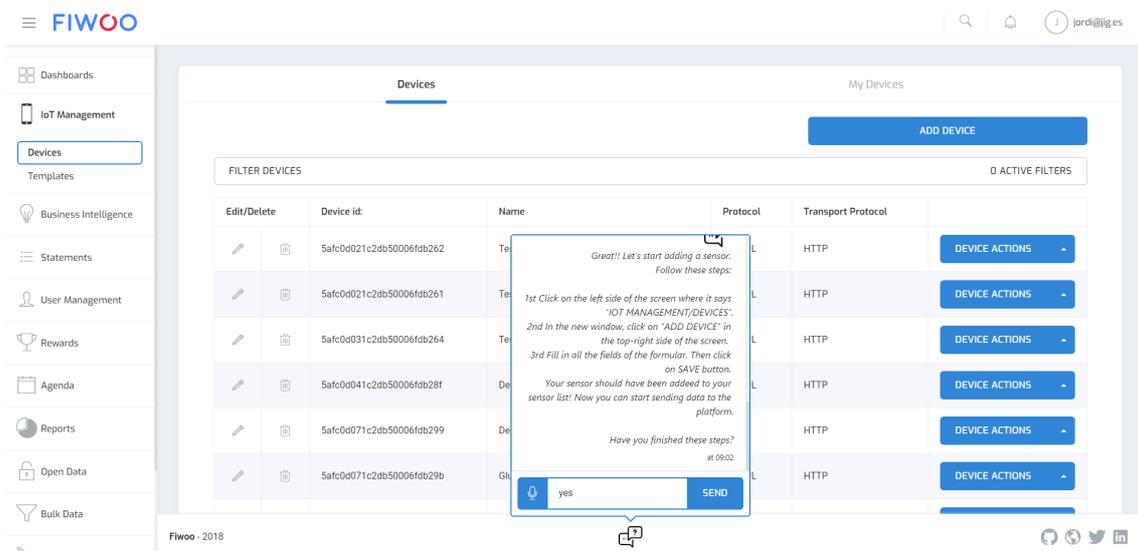
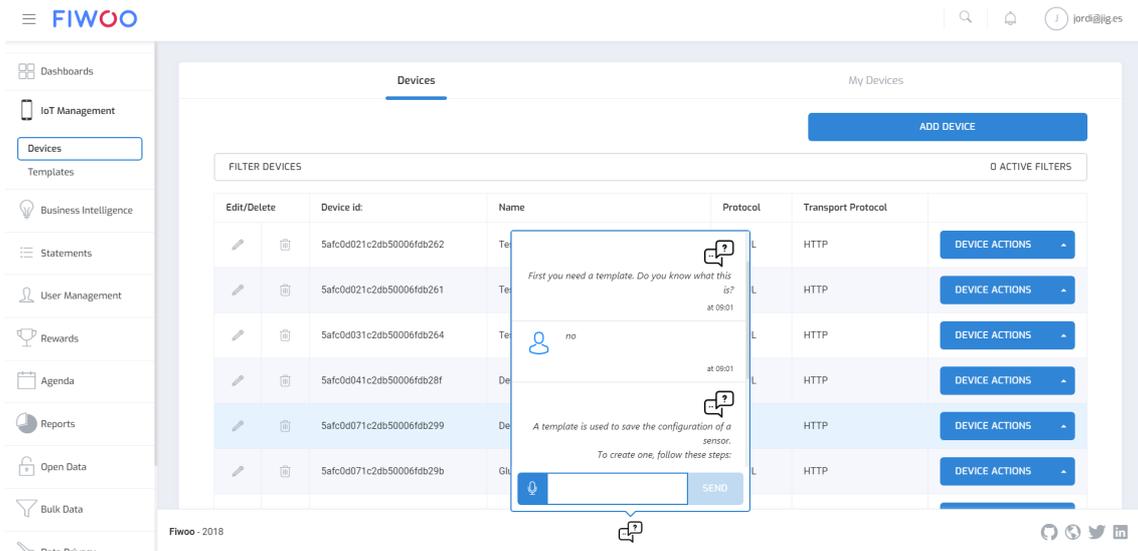
Also at the notifications “sent by all” screen:



3.5 Chatbot

At the middle of the footer, you will access to the chatbot where you can start a talk with it texting or using the microphone of the computer:





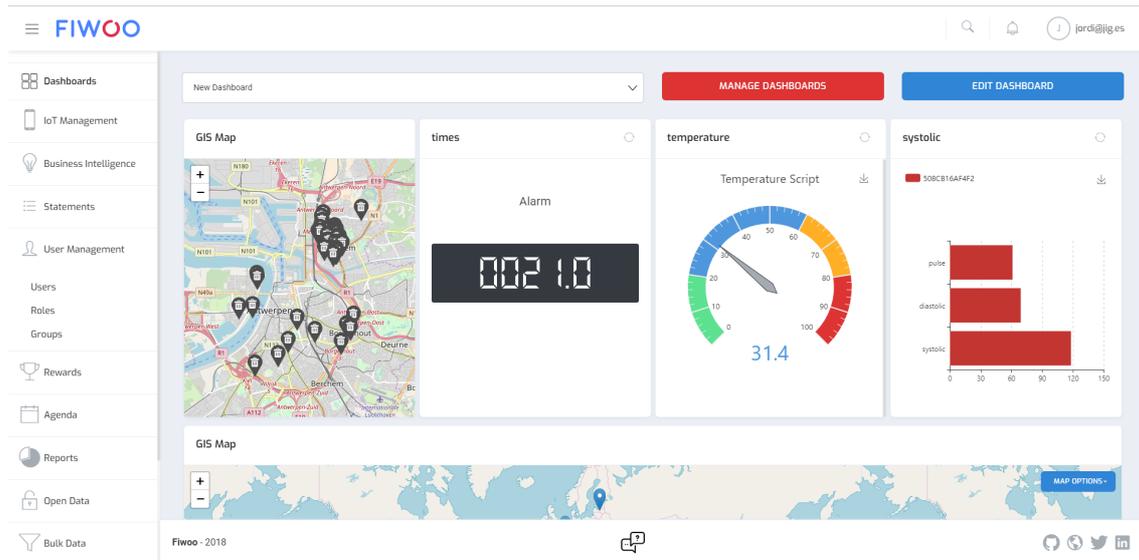
4 Dashboards and widgets

The most visual part of the FIWOO platform is the Dashboards section that includes the dashboards but also the widgets inside these dashboards:

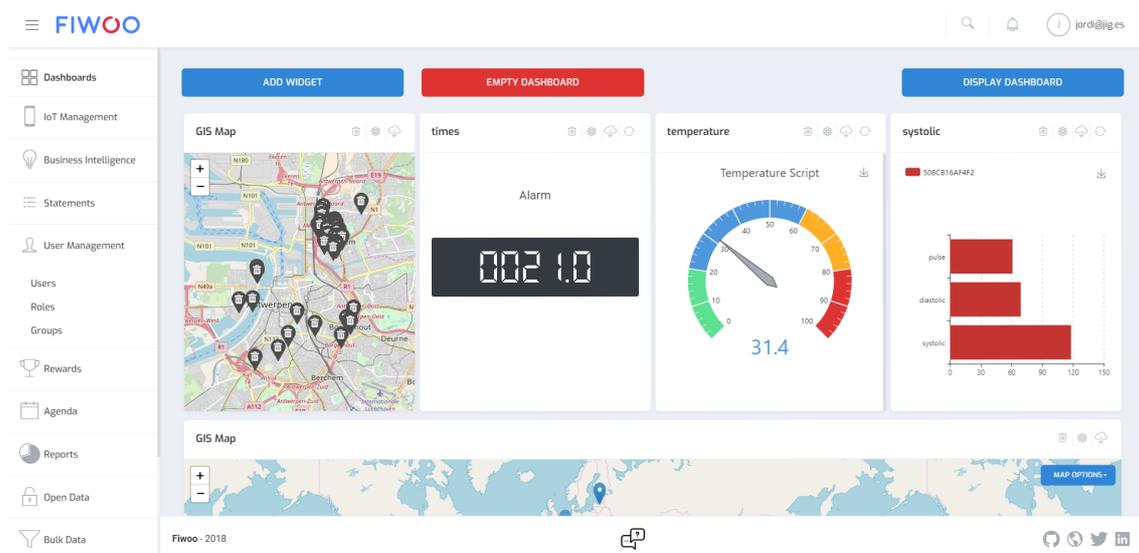


4.1 Dashboards

This is how it looks a dashboard in FIWOO composed of different kinds of widgets where the user can manage totally choosing the size and editing each of the widgets to obtain totally personalized dashboards:

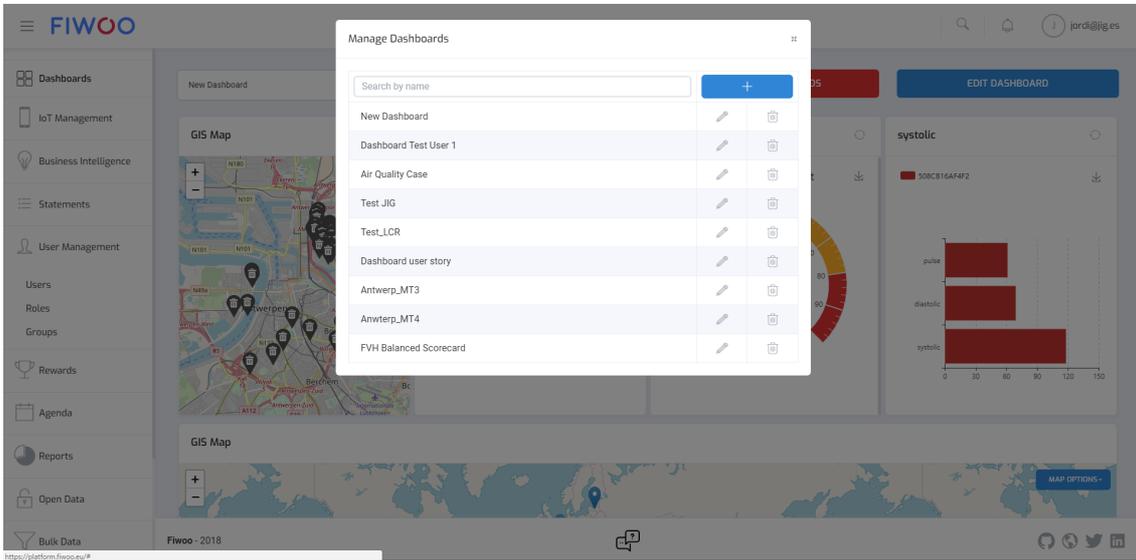


Clicking of the “Edit dashboard” button, you will be able to add new widgets, to empty the dashboard completely or to edit, delete, download... each of the widgets inside the dashboard:

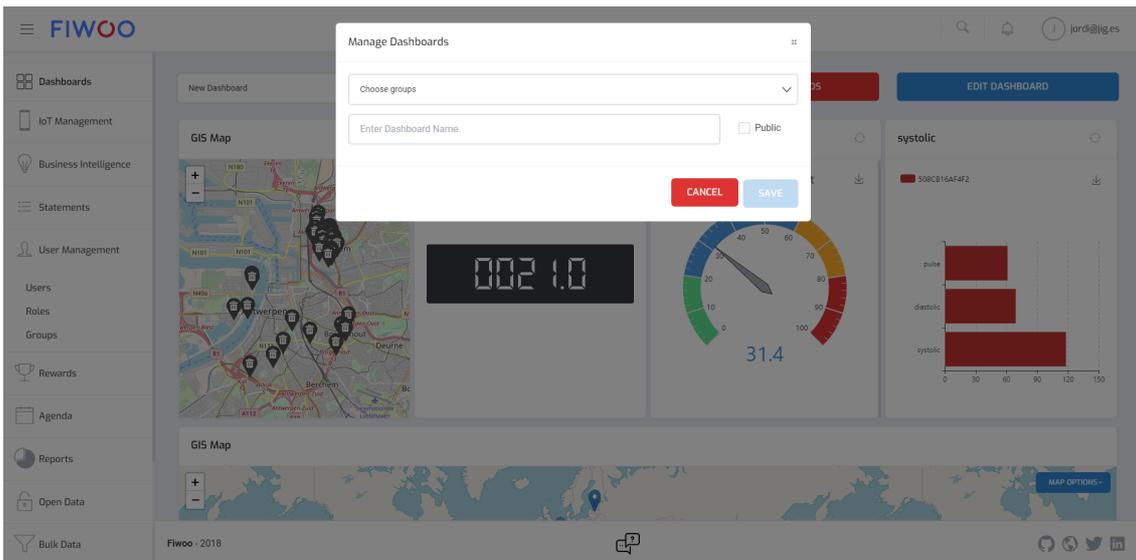




When clicking on the “Manage Dashboard” button, you will be able to add new dashboards, to filter, edit or delete all the available dashboards:



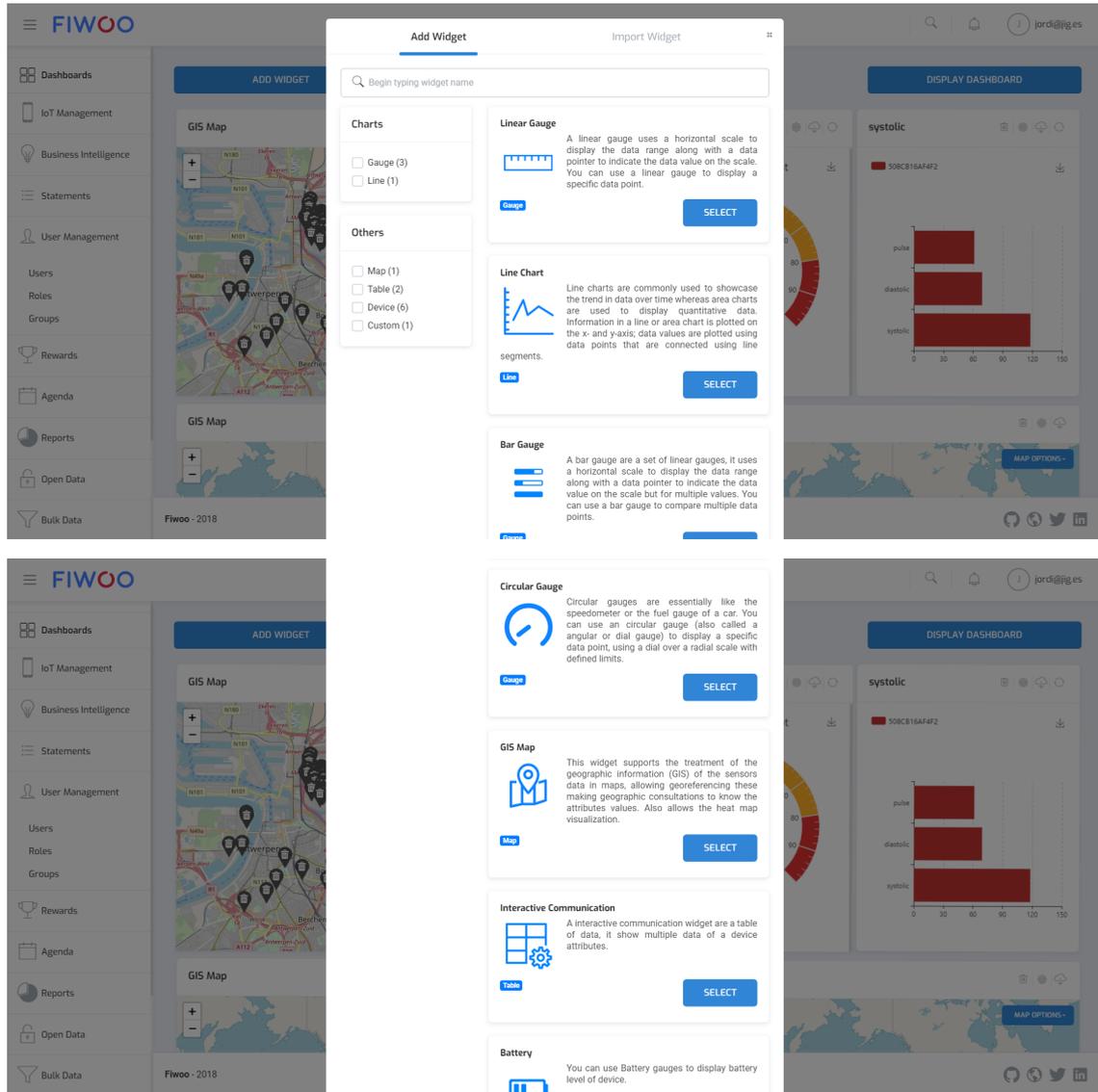
When clicking on the “Create Dashboard” button, you will be able to create an empty dashboard. You can choose the groups for what the created dashboard will be available or even create the dashboard as public (the users must also have permission to see the device information inside the dashboard):

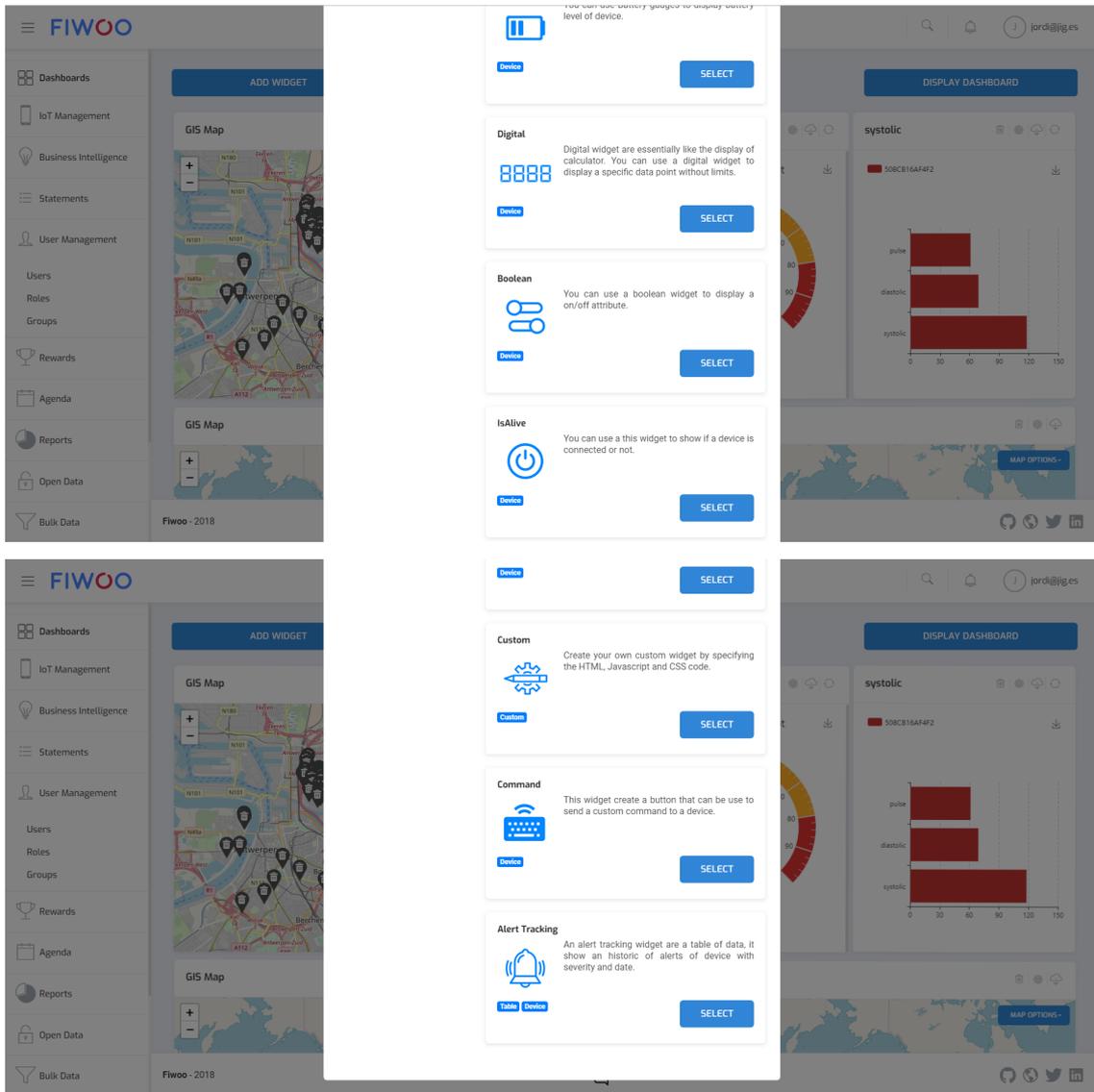




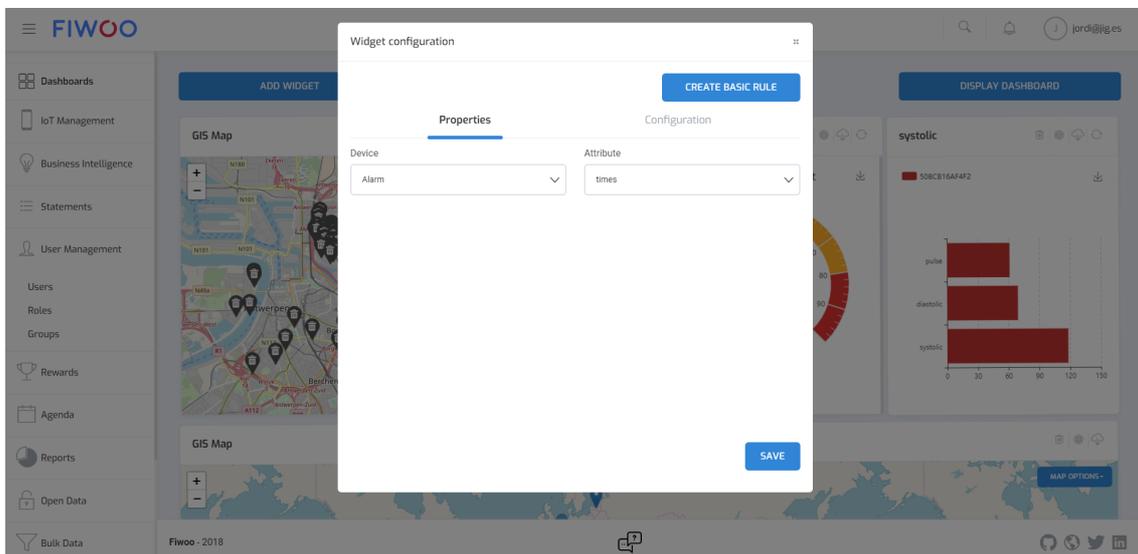
4.2 Widgets

FIWOO offer a huge list of different kind of widget to the users: linear gauge, line chart, bar gauge, circular gauge, GIS Map, interactive communication, battery, digital, Boolean, is alive, command, alert tracking... and even custom widget where the user can upload the code of the widget to implement it.



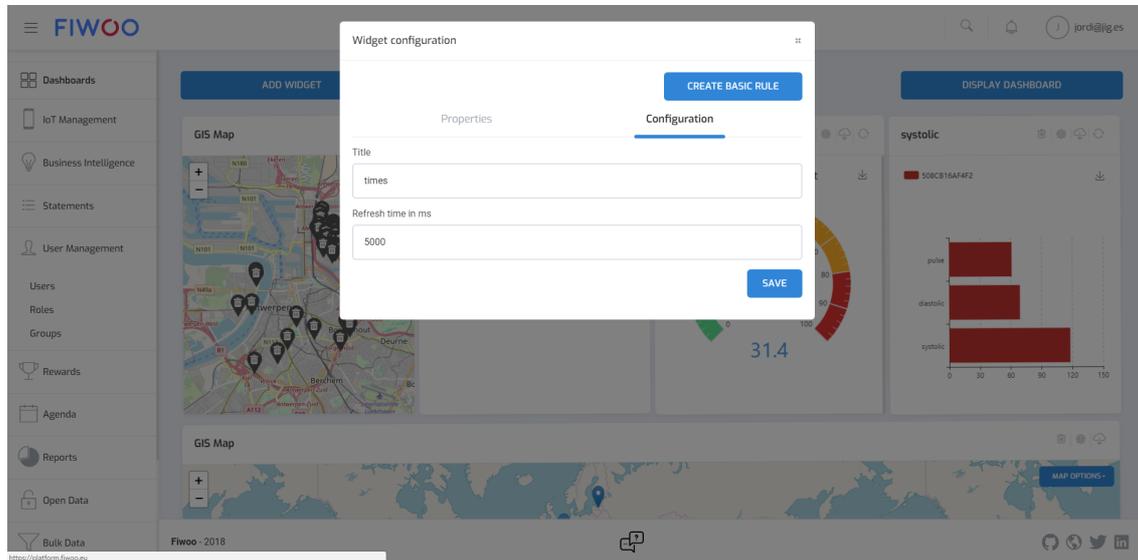


Each widget allows to edit the widget properties:





And also allows to edit the widget configuration including the refresh time:



5 IoT Management

The IoT management section is divided into subsections: Devices and Templates:

5.1 Devices

You can see all the devices in a list with the device id, the name of the device, the protocol of the device and the transport protocol. From this list you are able to filter, to add, to edit or to delete devices, and also execute some actions:



The screenshot shows the 'Devices' management interface. On the left is a navigation sidebar with options like Dashboards, IoT Management, and Business Intelligence. The main content area is titled 'Devices' and includes an 'ADD DEVICE' button. Below this is a 'FILTER DEVICES' section with '0 ACTIVE FILTERS'. A table lists the following devices:

Edit/Delete	Device id:	Name	Protocol	Transport Protocol	
	5afc0d021c2db50006fdb262	Test Device for modify	IoTA-UL	HTTP	DEVICE ACTIONS
	5afc0d021c2db50006fdb261	Test User 3 Public Device	IoTA-UL	HTTP	DEVICE ACTIONS
	5afc0d031c2db50006fdb264	Test User 3 Private, Not Shared Device	IoTA-UL	HTTP	DEVICE ACTIONS
	5afc0d041c2db50006fdb28f	Device - 62	IoTA-UL	HTTP	DEVICE ACTIONS
	5afc0d071c2db50006fdb299	Device - 6		HTTP	DEVICE ACTIONS
	5afc0d071c2db50006fdb29b	Glucometer Script	IoTA-UL	HTTP	DEVICE ACTIONS

It is easy to filter the devices on the list:

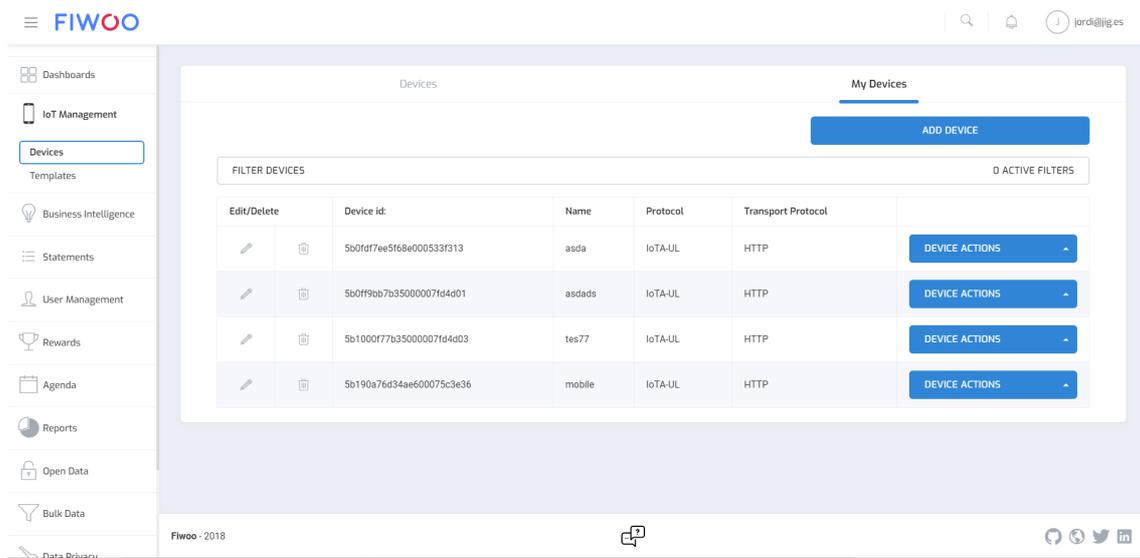
This screenshot shows the same 'Devices' page but with the filter interface active. The 'FILTER DEVICES' section now shows '1 ACTIVE FILTERS'. The filter fields are:

- Name: Test
- Protocol: Protocol
- Entity type: Entity type
- Entity name: Entity name
- Transport Protocol: Transport Protocol
- Owner id: Owner
- Attribute: Attribute
- Public:

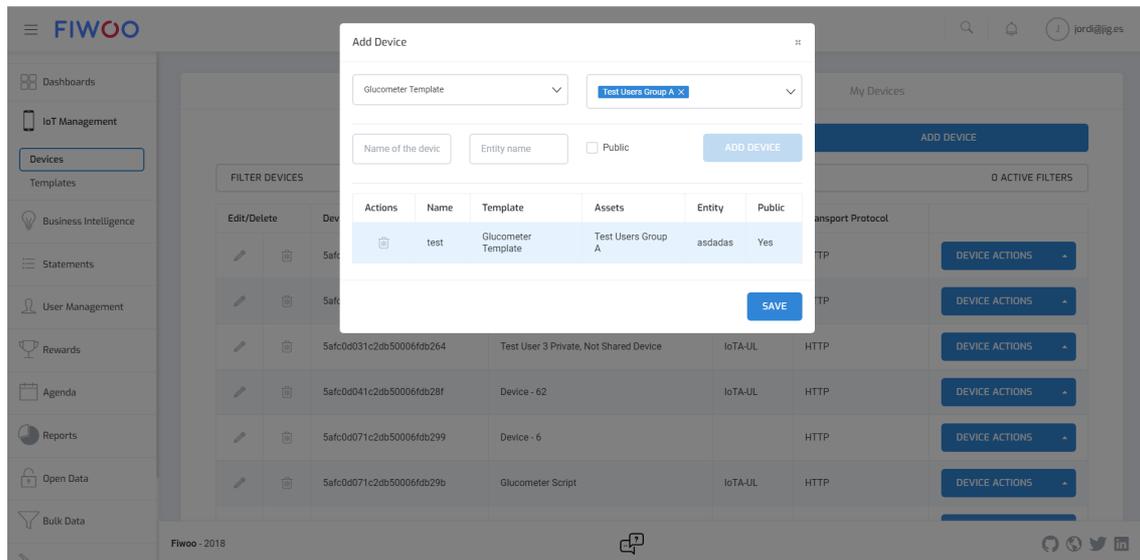
Buttons for 'RESET' and 'APPLY' are visible. The table below shows the filtered results:

Edit/Delete	Device id:	Name	Protocol	Transport Protocol	
	5afc0d021c2db50006fdb262	Test Device for modify	IoTA-UL	HTTP	DEVICE ACTIONS
	5afc0d021c2db50006fdb261	Test User 3 Public Device	IoTA-UL	HTTP	DEVICE ACTIONS
	5afc0d031c2db50006fdb264	Test User 3 Private, Not Shared Device	IoTA-UL	HTTP	DEVICE ACTIONS

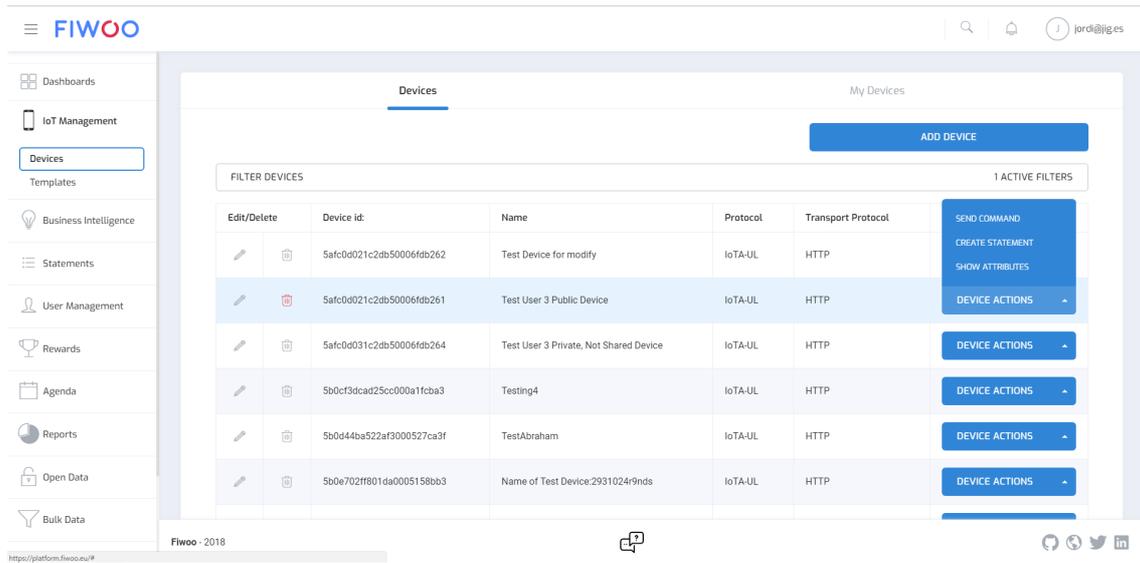
Also, you can list just your devices using the “My Devices” tab:



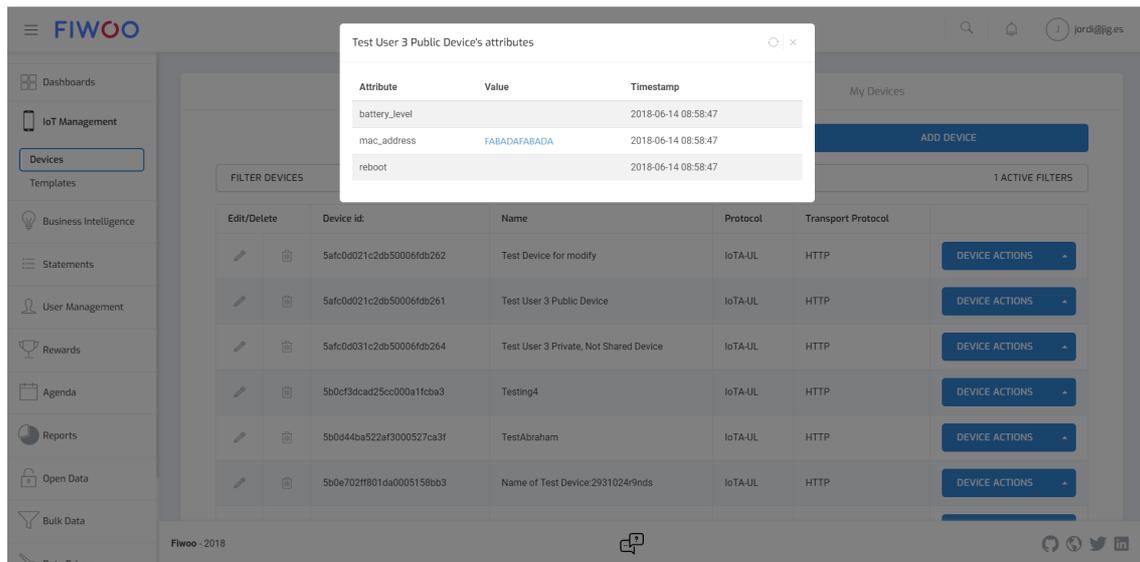
From both lists, it is easy to add a new device where you can use an existing template, add the name of the device, the entity name and the groups that you want your device be available for. Also, you can mark this device as public:



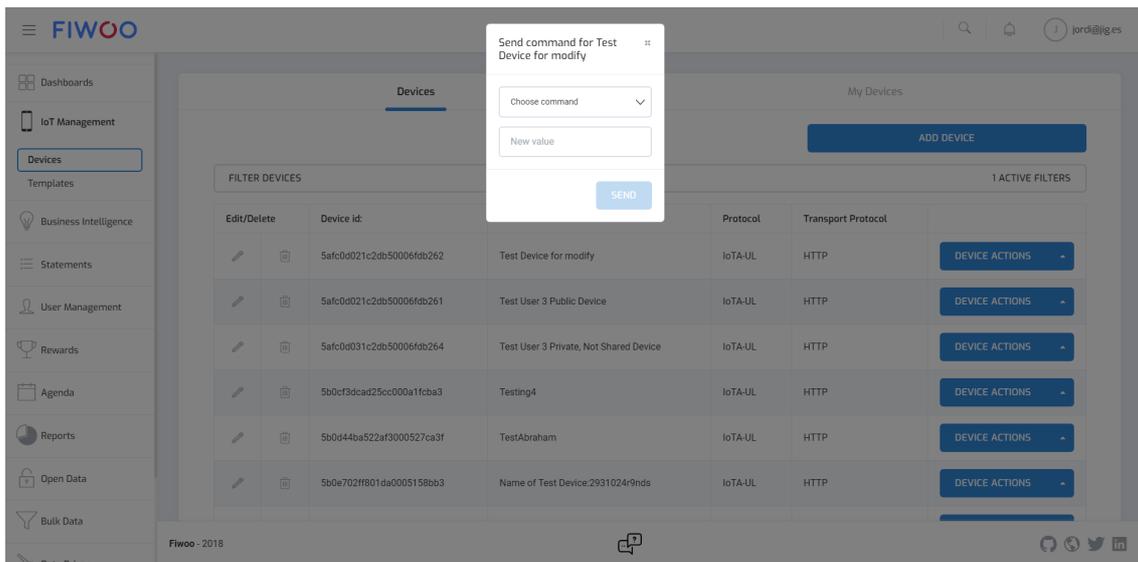
From the list of devices, you can execute some device actions. Find here de list of this device actions when clicking the drop-down button:



It is easy to show the attributes of a device:

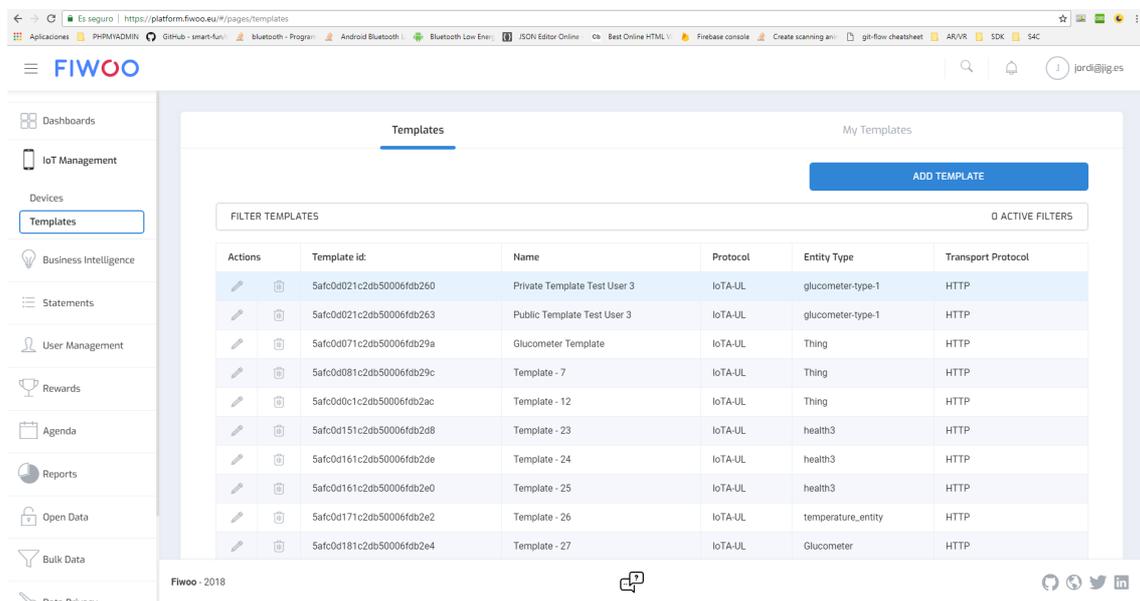


Also, you can send commands directly from this list:



5.2 Templates

At the Templates section, you will find a list of all the available templates for your user. Here, you can filter, edit, delete or add new templates.



It is easy to create and apply filters to the list of templates:



My Templates

ADD TEMPLATE

FILTER TEMPLATES 1 ACTIVE FILTERS

Name: public Protocol: Protocol Entity type: Entity type Transport Protocol: Transport Protocol

Owner id: Owner Attribute: Attribute Public

RESET APPLY

Actions	Template id:	Name	Protocol	Entity Type	Transport Protocol
	5afc0d021c2db50006fab263	Public Template Test User 3	IoT-A-UL	glucometer-type-1	HTTP

Also, you can list just your templates using the “My Templates” tab:

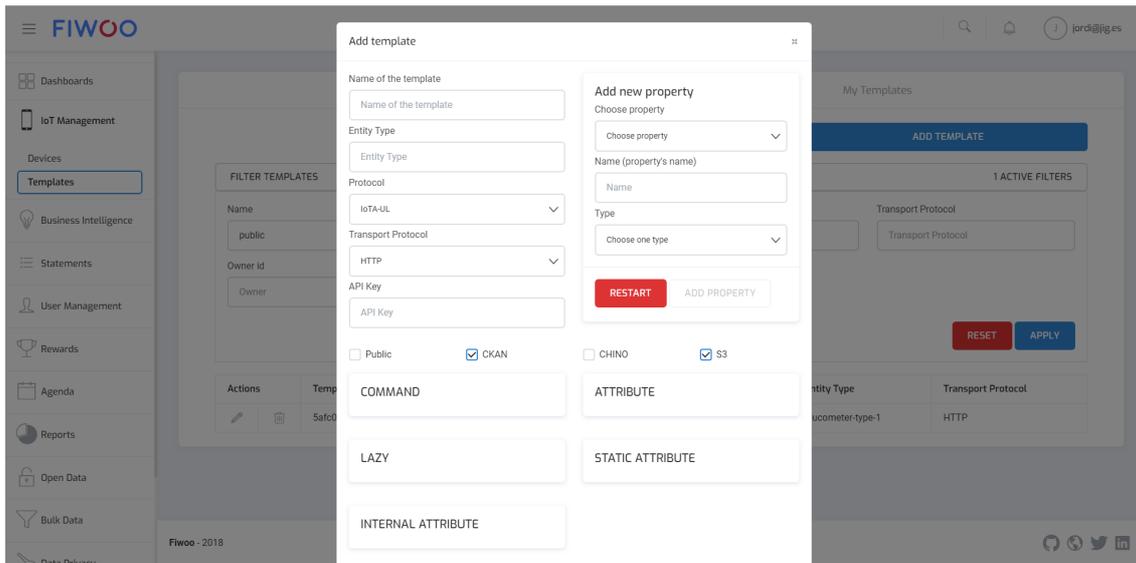
My Templates

ADD TEMPLATE

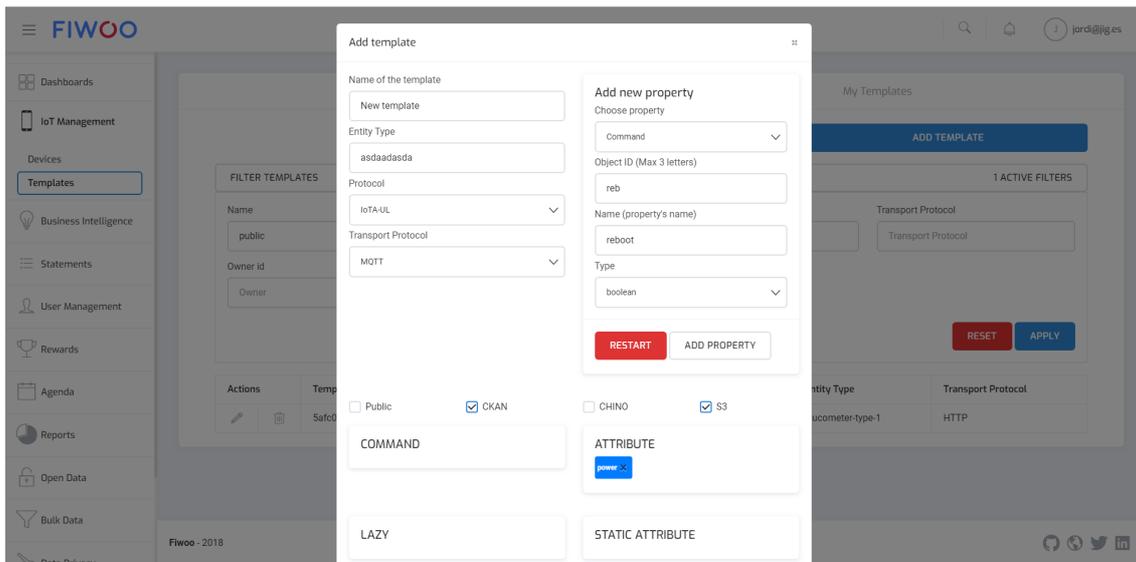
FILTER TEMPLATES 0 ACTIVE FILTERS

Actions	Template id:	Name	Protocol	Entity Type	Transport Protocol
	5b0ff8b07b35000007f64cfe	testinga	IoT-A-UL	adasdasas	MQTT
	5b0ff8bc7b35000007f64cff	asdasads	IoT-A-UL	adsad	HTTP
	5b0ff8cd7b35000007f64d00	testing6	IoT-A-UL	asdadsa	HTTP
	5b0ff8b87b35000007f64d02	testing77	IoT-A-UL	adadasdda	HTTP

When adding a new template you must introduce all the parameters and properties of the template:



Find here an example of a filled template:



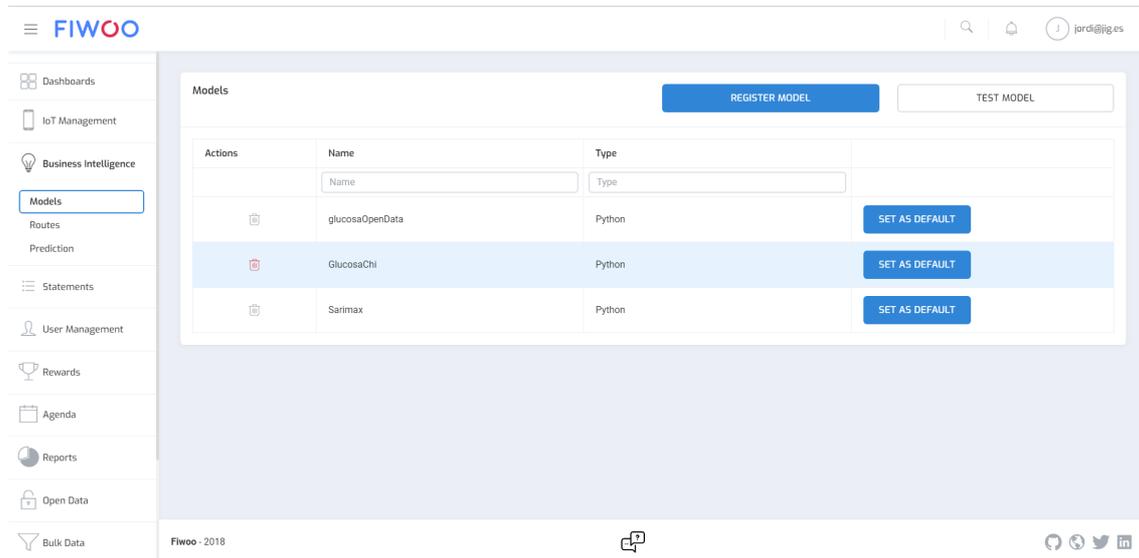
6 Business Intelligence

The business intelligence allows the users to upload different data models and look for the recommendations for the actual use cases: routes for traffic and predictions for the glucose and other health parameters.

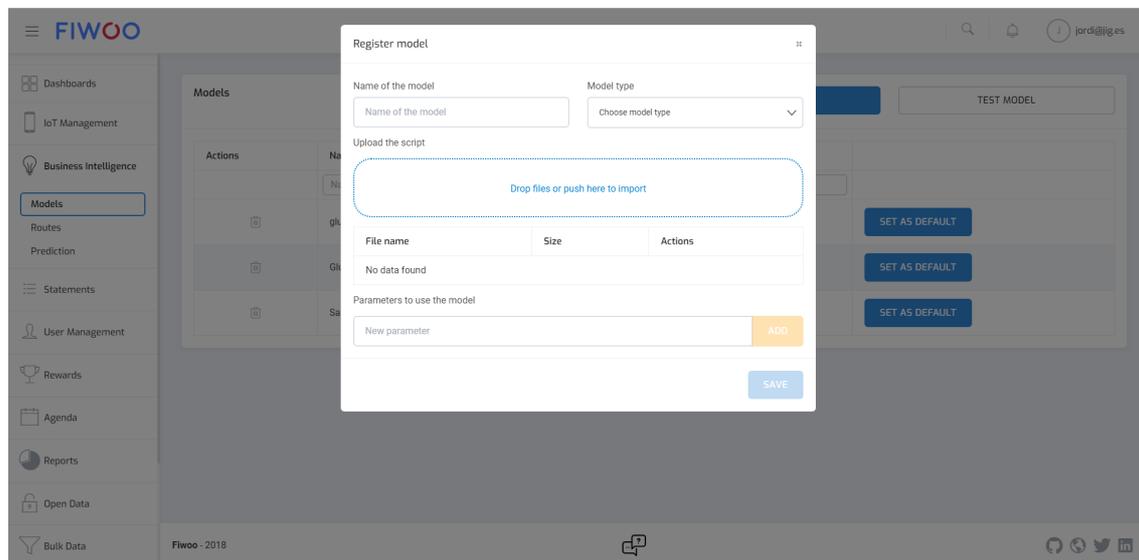


6.1 Models

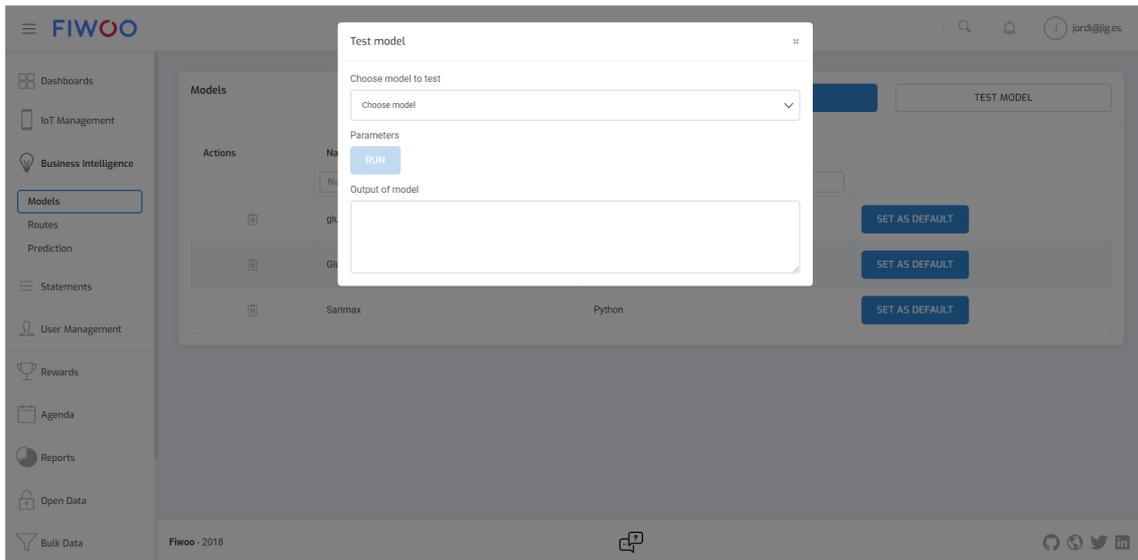
From the list of models, you can filter through name and type. From this screen you can also delete existing models, set as default, register model and test model:



To register a model, you must upload the file, choose a name, a type and add the parameters to use the model:

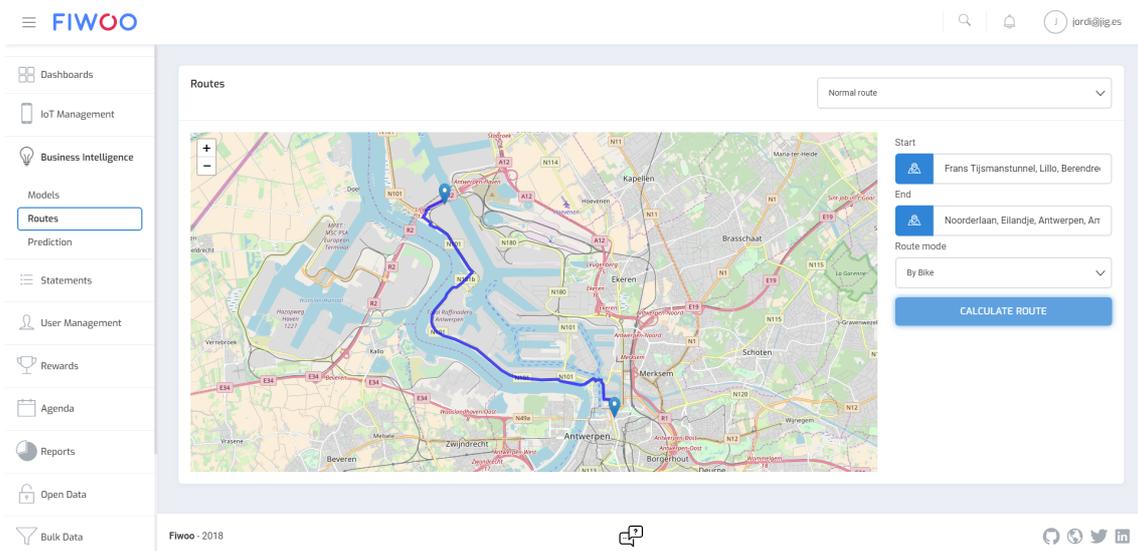


You will be also able to test a model within the Platform:

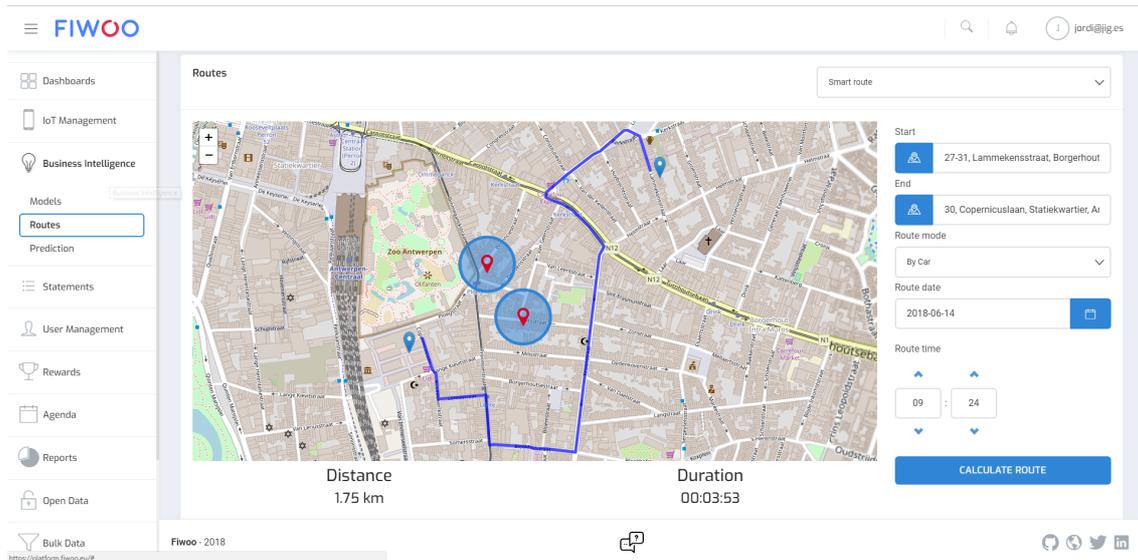


6.2 Routes

For the first use case, the can calculate normal routes choosing a start and end point and the mode to do the route (walking, by bike, by car...).

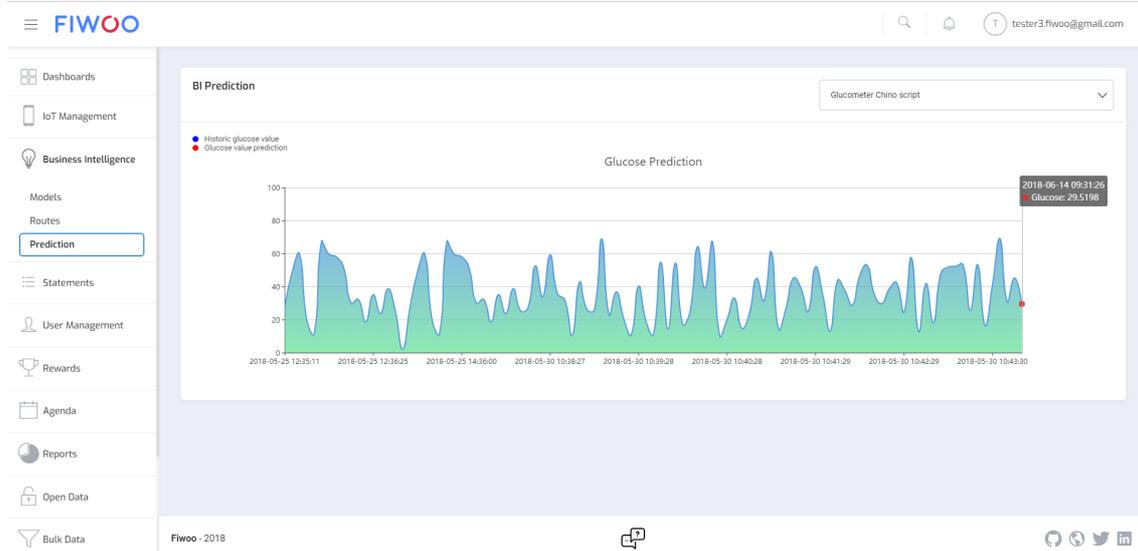


It also allows to calculate smart routes indicating the date and the time you are planning to do the route:



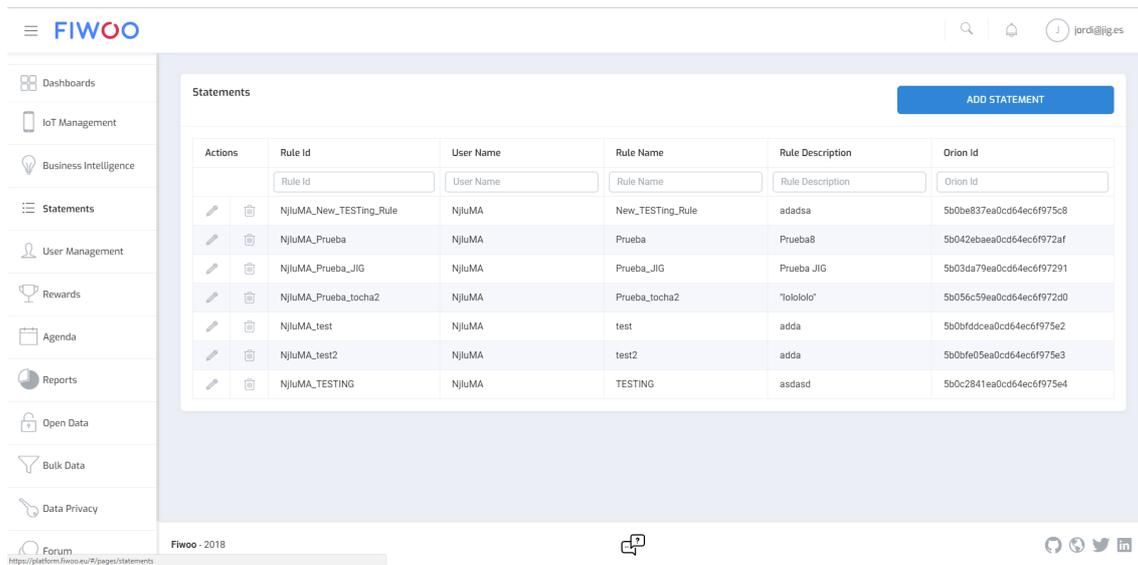
6.3 Predictions

For the second use case, choosing the device for the business intelligence prediction (for example, a glucometer), you will be able to see all the historic values but also to know the prediction of the chosen parameter.

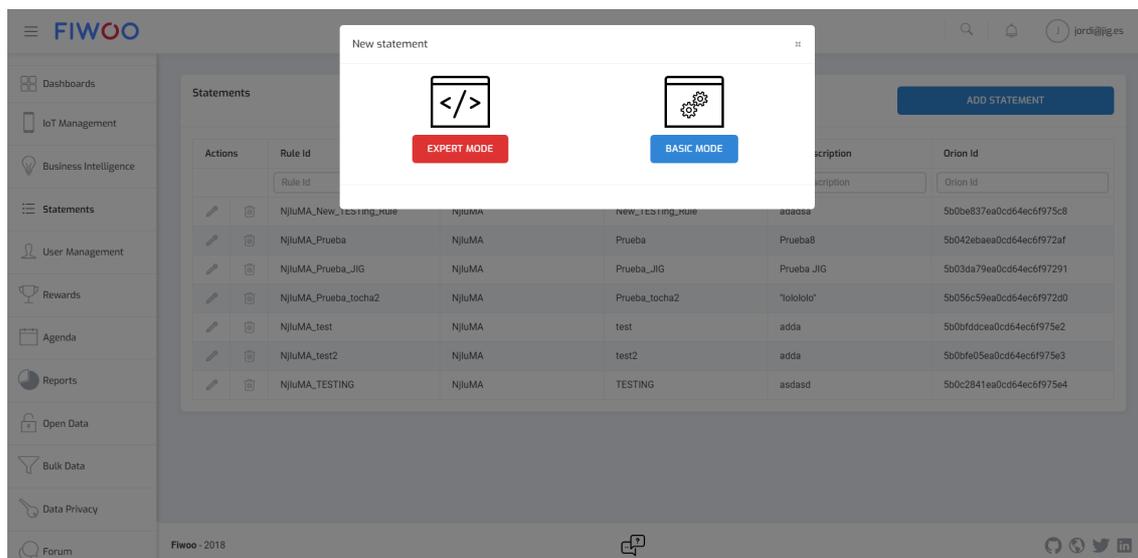


7 Statements

From the statements screen, you can access to all the statements already created on the Platform and you can list it, modify, delete and add new statement.

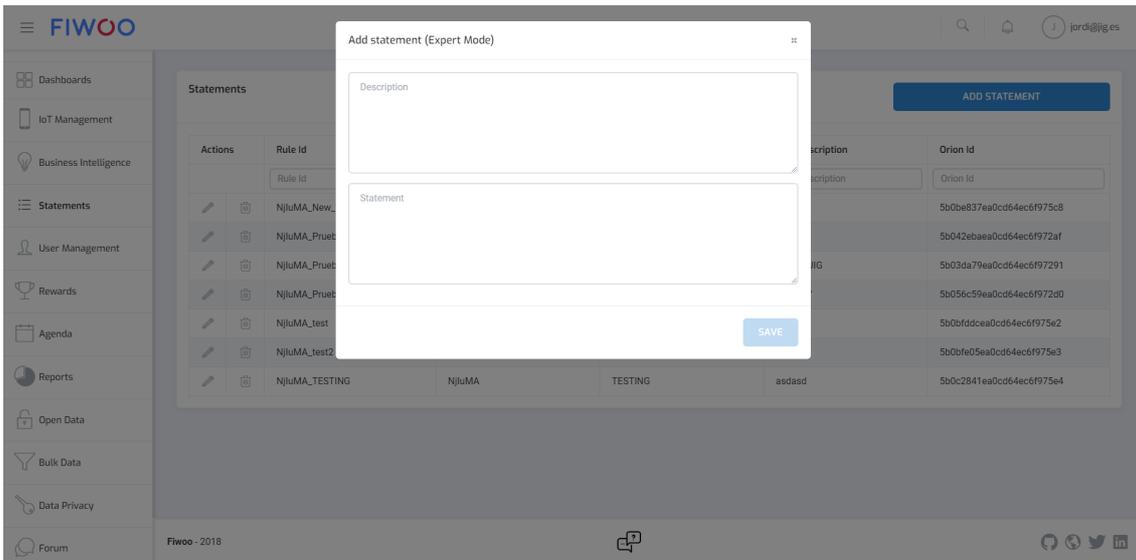


Once you choose to add an statement, you will be able to add an statement in an expert mod and in a basic mode:



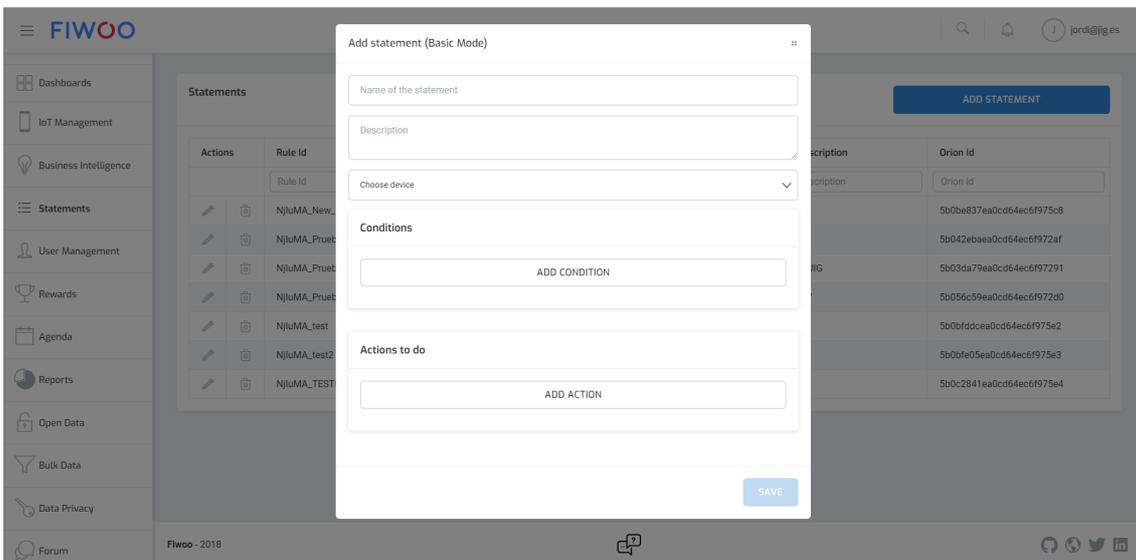
7.1 Expert Mode

Statements in expert mode must be written directly the EPL code on the platform:

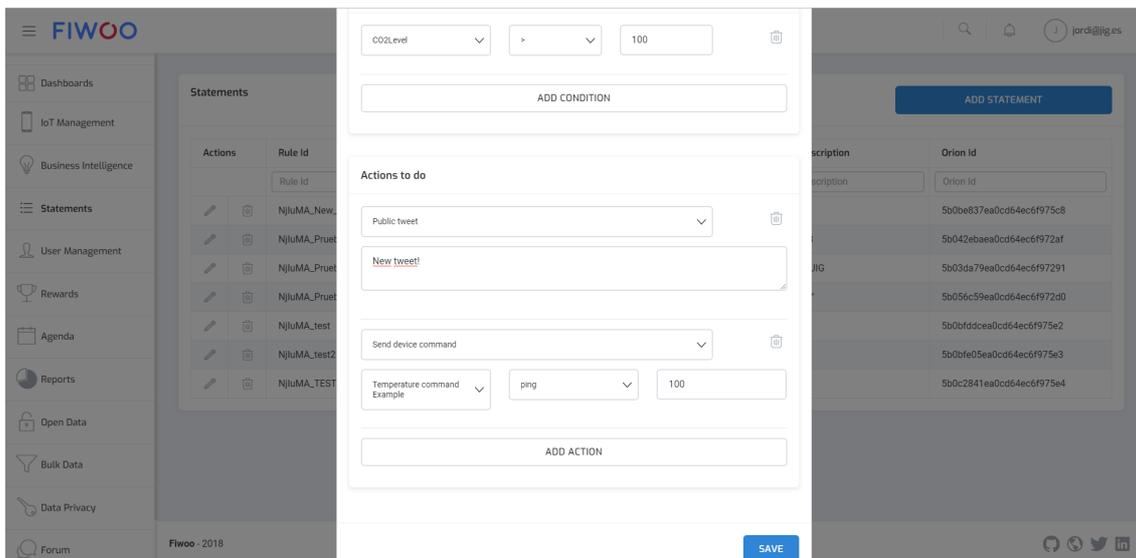
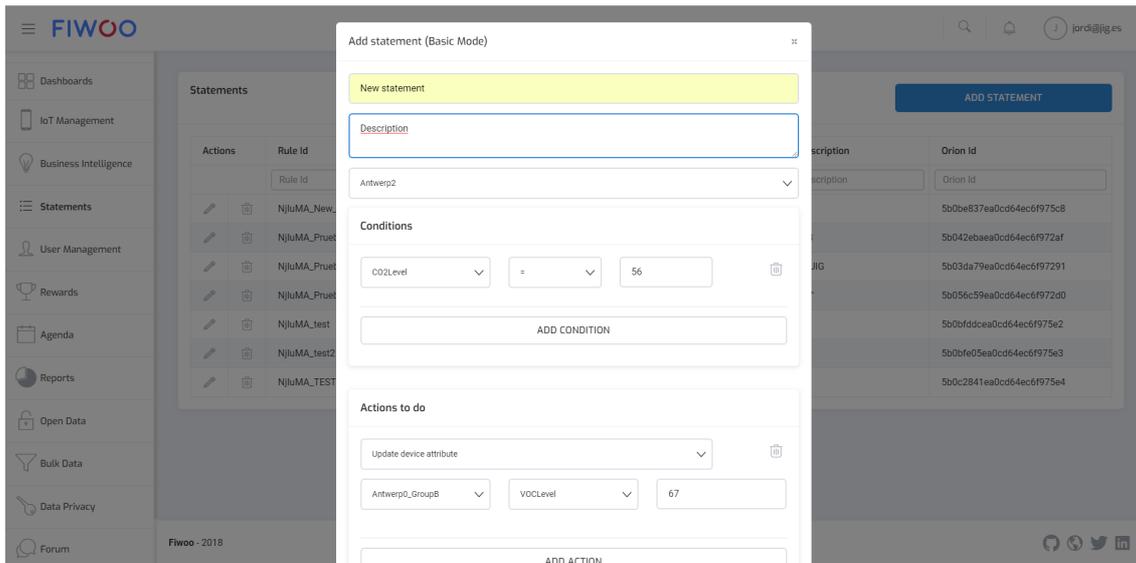


7.2 Basic Mode

For the non-expert users, it is easy to create some statements for devices choosing conditions and actions to do:



Find here some statements already filled with different devices and attributes:

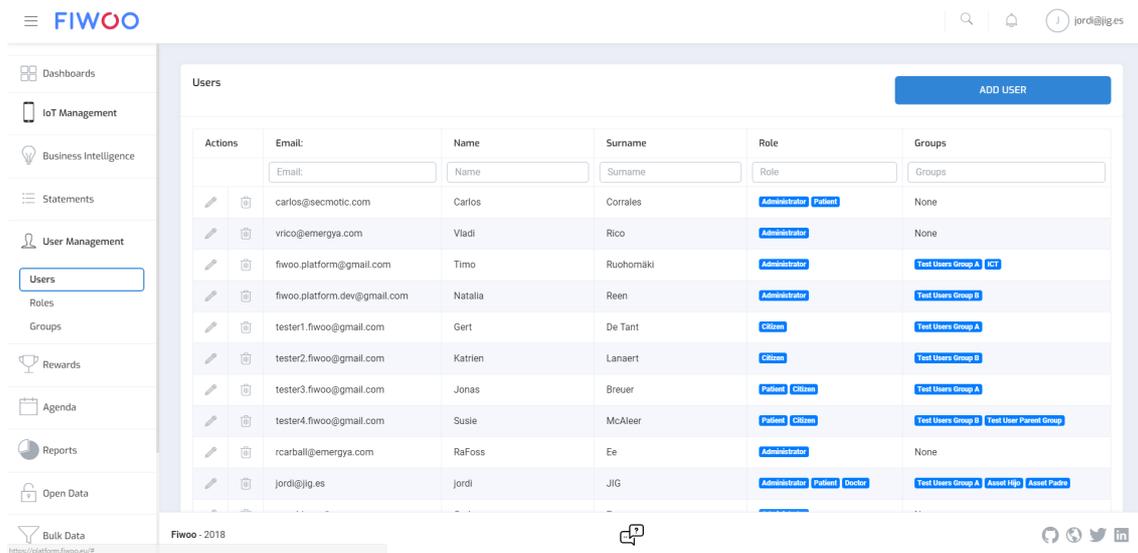


8 Users Management

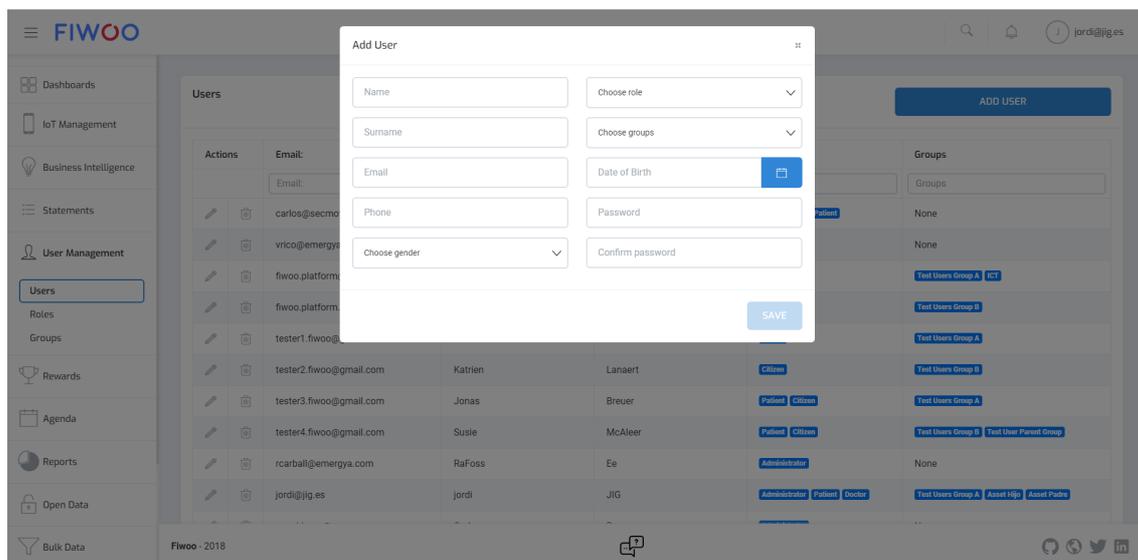
The user management could be done in the following three aspects: Users, Roles and Groups.

8.1 Users

Depending on your privileges, you will be able to list and manage the users of the platform. On the list, you can filter by name, email, name, surname, role and group. Also, you can edit or delete a user directly from the list.

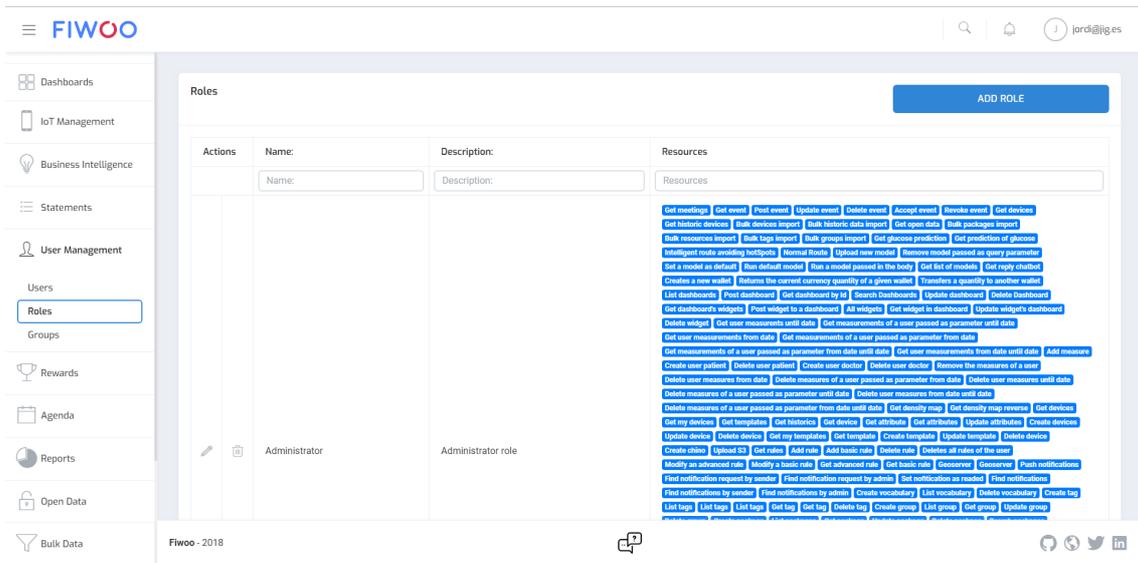


Using the “Add User” button, you can easily create users introducing the personal data and the role, group and access credentials to the platform:

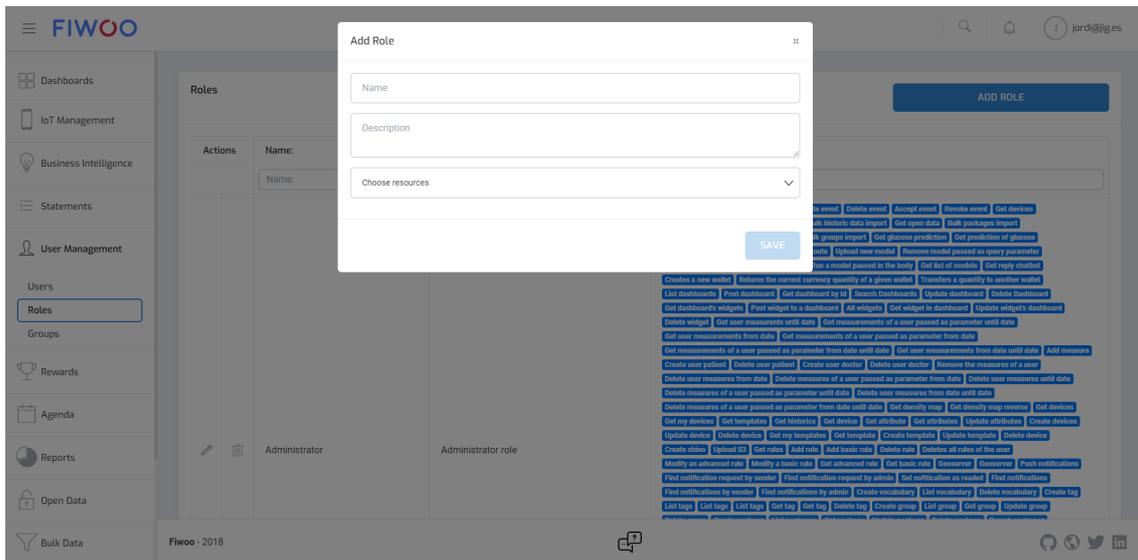


8.2 Roles

Listing all the roles, you can see all the resources that the users with that role are able to access. You filter by name, description or resources and also you can edit, add or delete some of the existing roles:

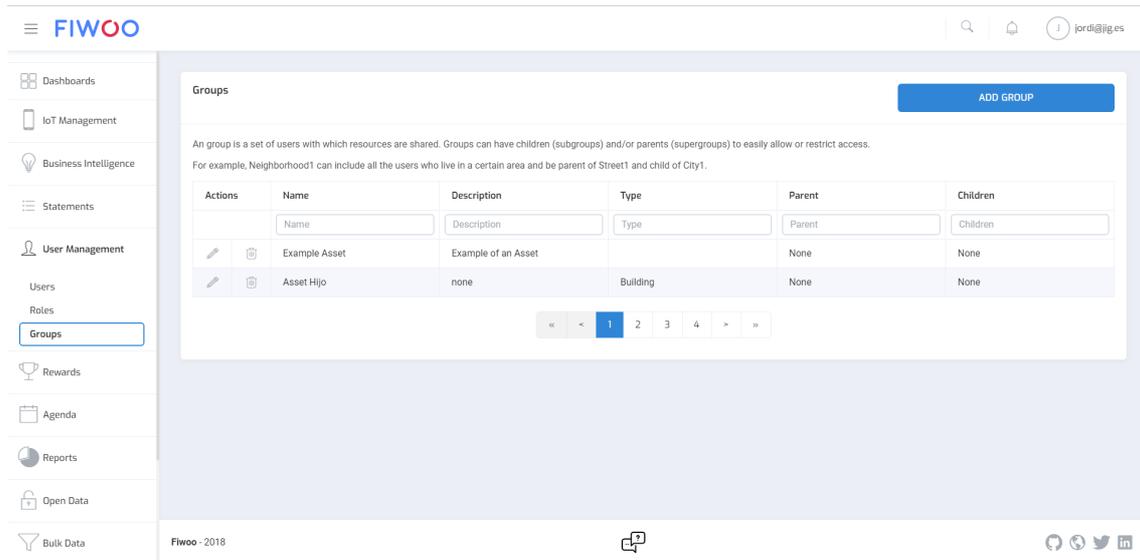


Using the “Add Role” button you can easily add new roles typing the name of the role, the description and the resources attached to that role:

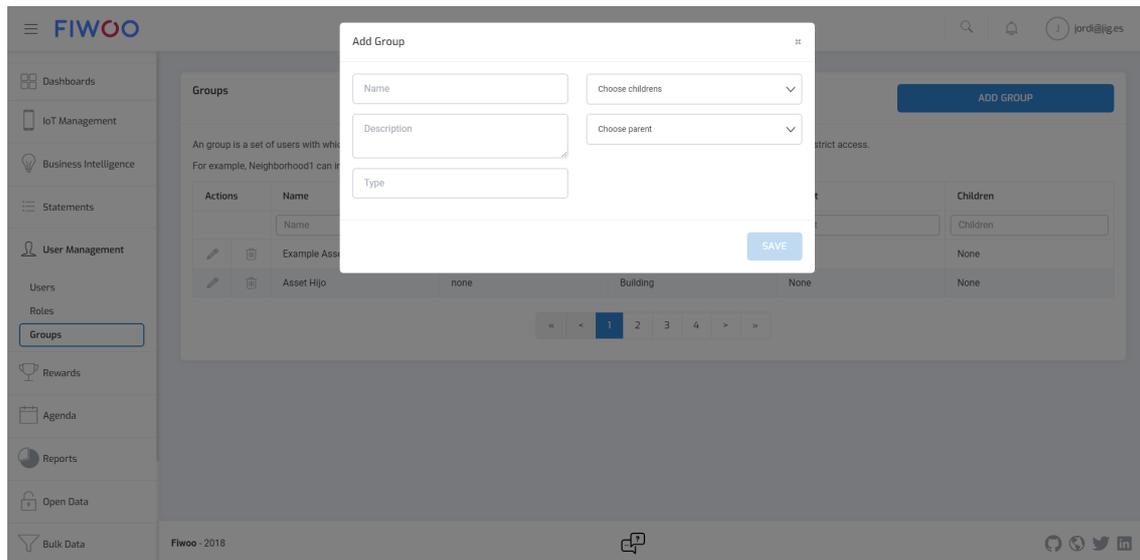


8.3 Groups

Users could belong to groups to be classified. The list of groups includes the name, description, type, parent and children. From this screen, you will be able to edit, delete or add a new group:



When adding a new group, you will be able to add the name of the group, the description, type, parent and children:



9 Rewards

The blockchain rewards service includes two kind of sections: My Wallet (for the user rewards) and Transactions to see all the rewards transactions:



9.1 My Wallet

Users are able to create a wallet inside FIWOO to store the received cryptocurrencies. It can be easily create introducing the user private key:

Create your Wallet

The first step to receiving rewards is to create a wallet to store the received cryptocurrencies.
To create your wallet, enter your private key and click on the "Create Wallet" button.

IMPORTANT NOTE: Do not lose your private key because you will need it to access your wallet and be able to make transactions with it.

Enter your private key

The private key has a minimum length of 8, is recommended that it contain letters, numbers and special characters.

CREATE WALLET

Once created you can check your balance and all the transactions of the personal account:

YOUR BALANCE

0 WooCoins

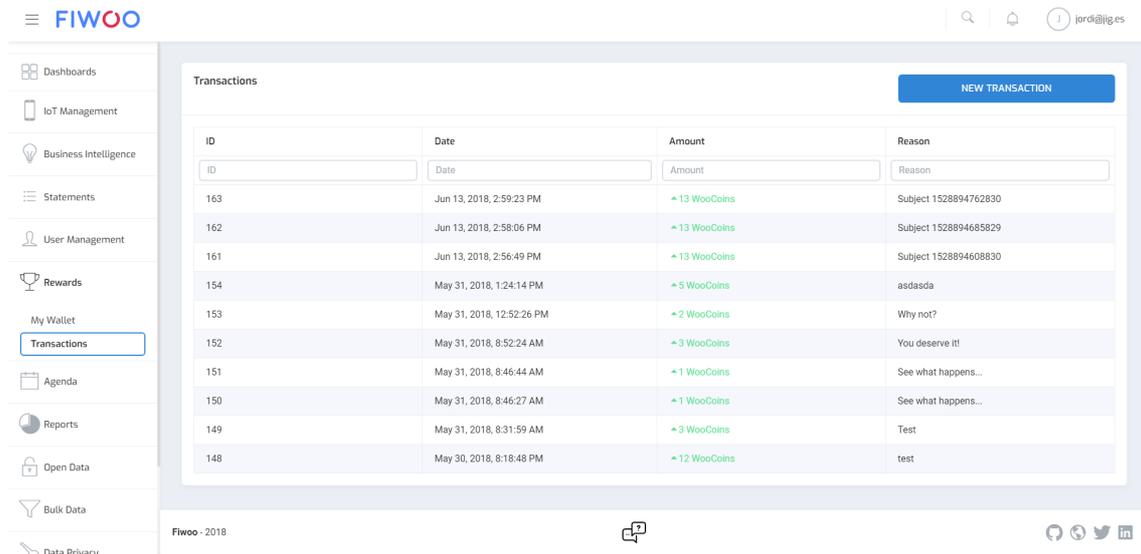
Transactions

ID	Date	Amount	Reason
154	May 31, 2018, 1:24:14 PM	+ 5 WooCoins	asdasda
81	May 23, 2018, 5:17:10 PM	+ 10 WooCoins	Otro diezmo
80	May 23, 2018, 3:48:46 PM	+ 10 WooCoins	Diezmo para el Marques

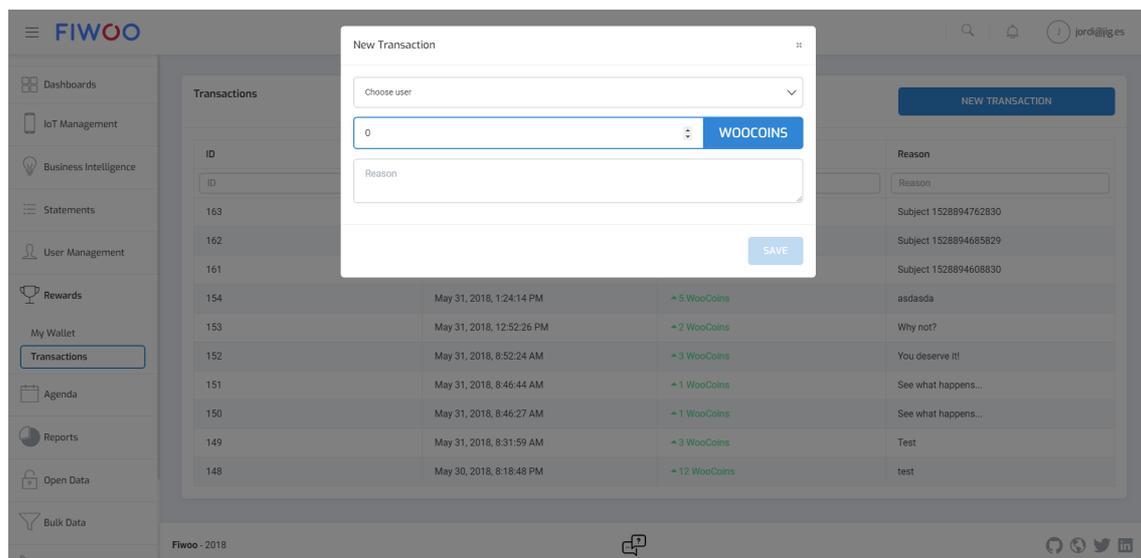


9.2 Transactions

For the users with roles of administrators, they will be able to access to see all the transactions filtering by ID, date, amount and reason:



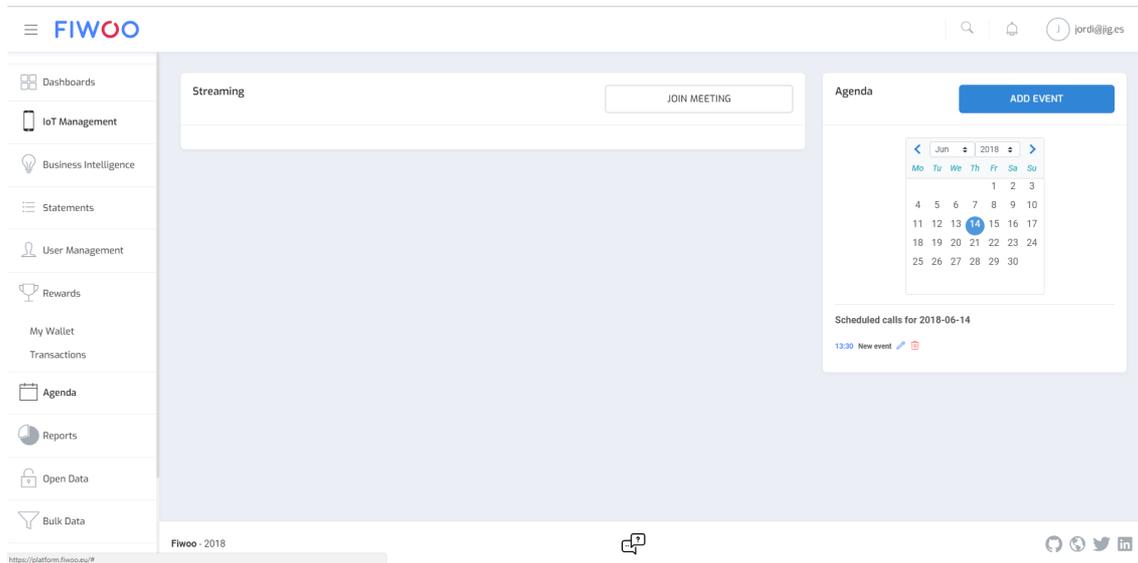
Also, you can add a new transaction for any user choosing the amount of coins to add or decrease at the reason:





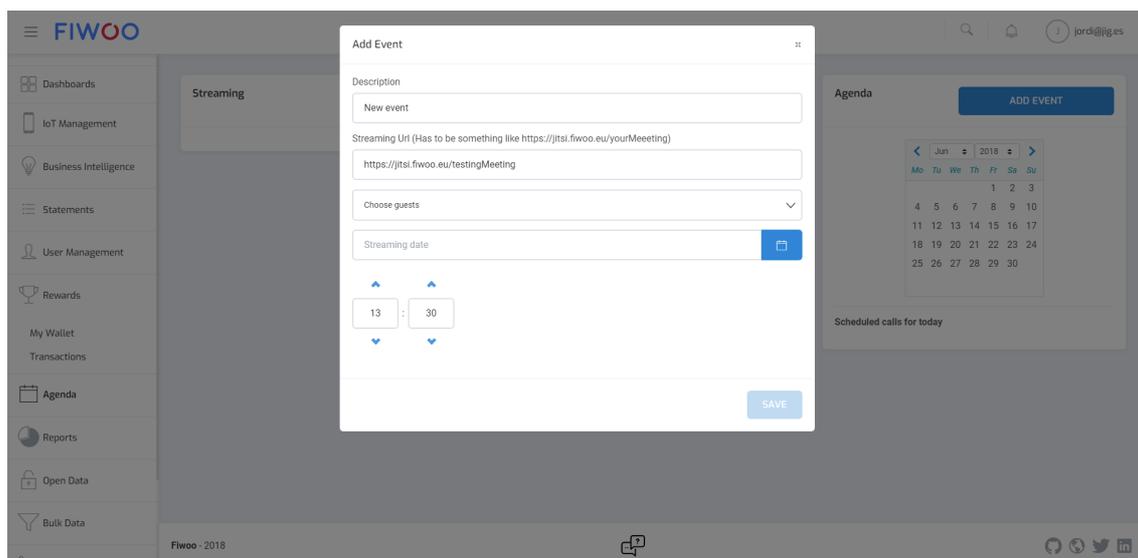
10 Agenda

The Agenda service allows you to add new events, see the scheduled calls and join the meeting via streaming:



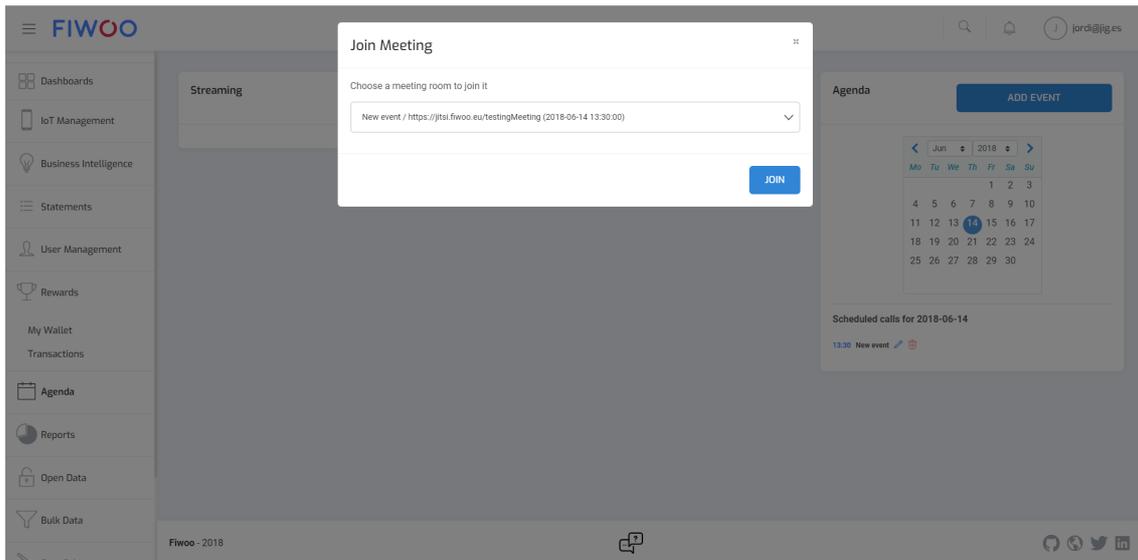
10.1 Add event

You can easily create new events easily choosing guests and schedules:

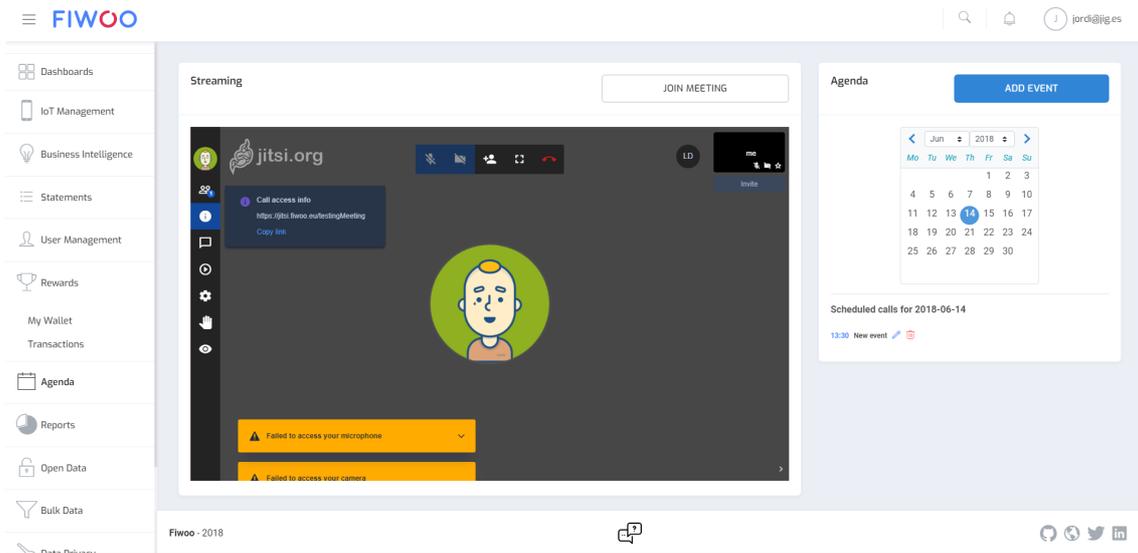


10.2 Join Meeting

You can easily choose a meeting room to join the different meetings:

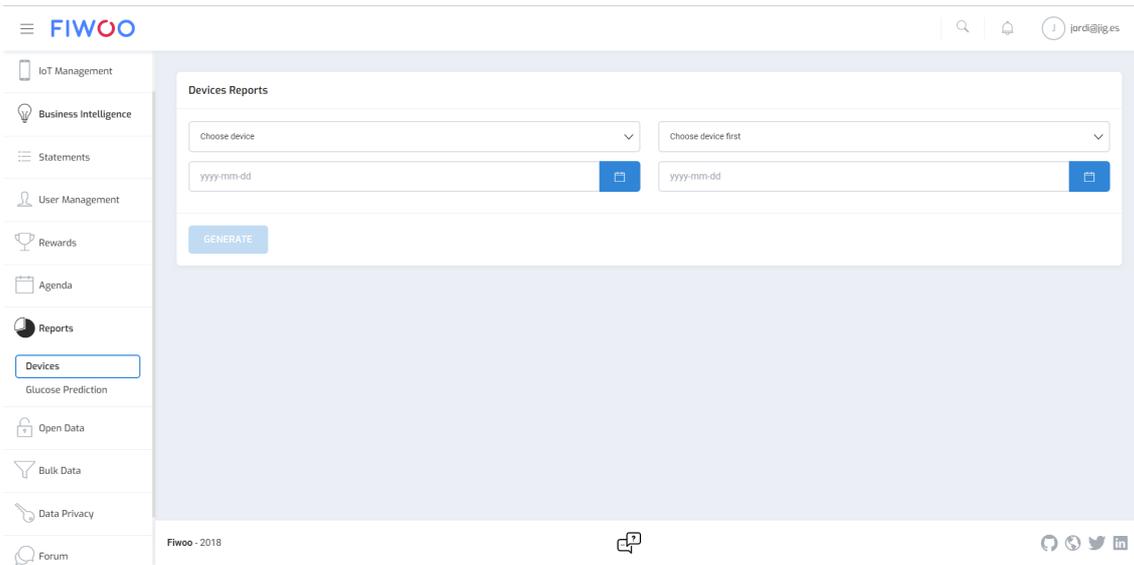


Once inside the meeting room, it will be easy to chat and talk using the camera and the microphone of the computer:

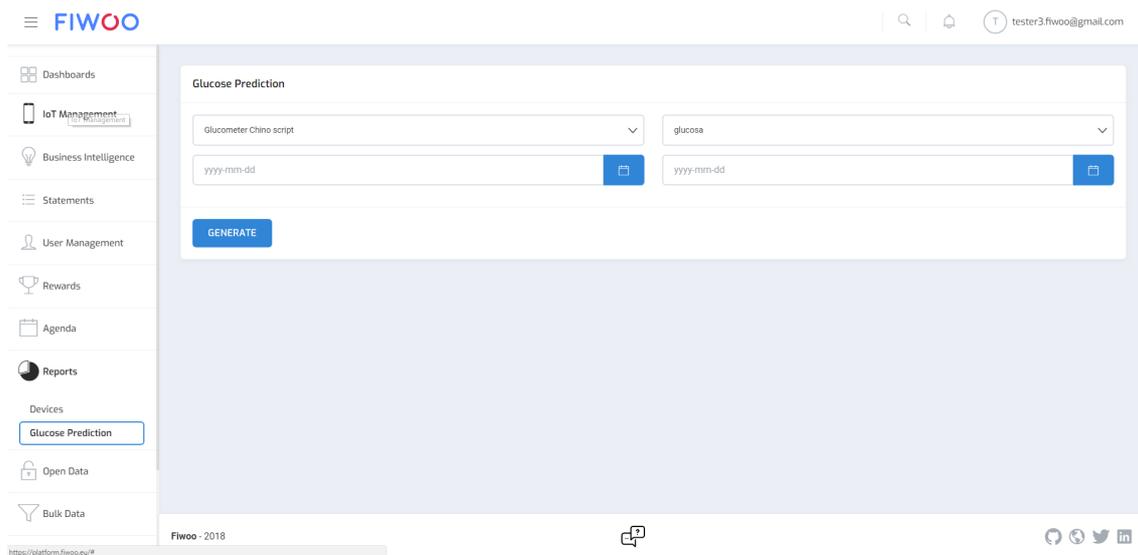


II Reports

At this version of the app, you will be able to generate reports about the devices and the different parameters, choosing starting and ending dates:

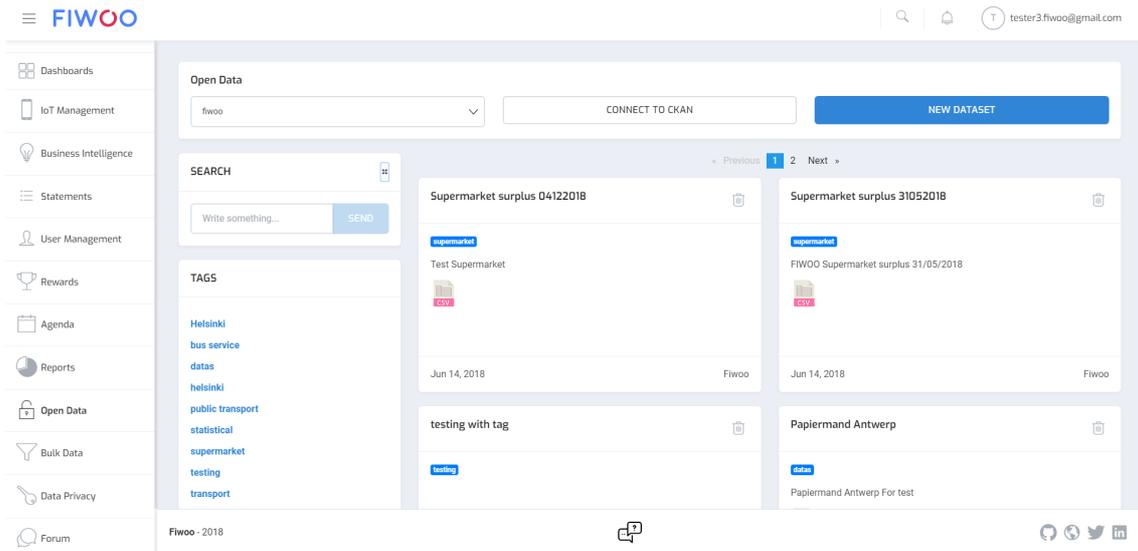


Also, the platform allows you to generate reports about glucose prediction:

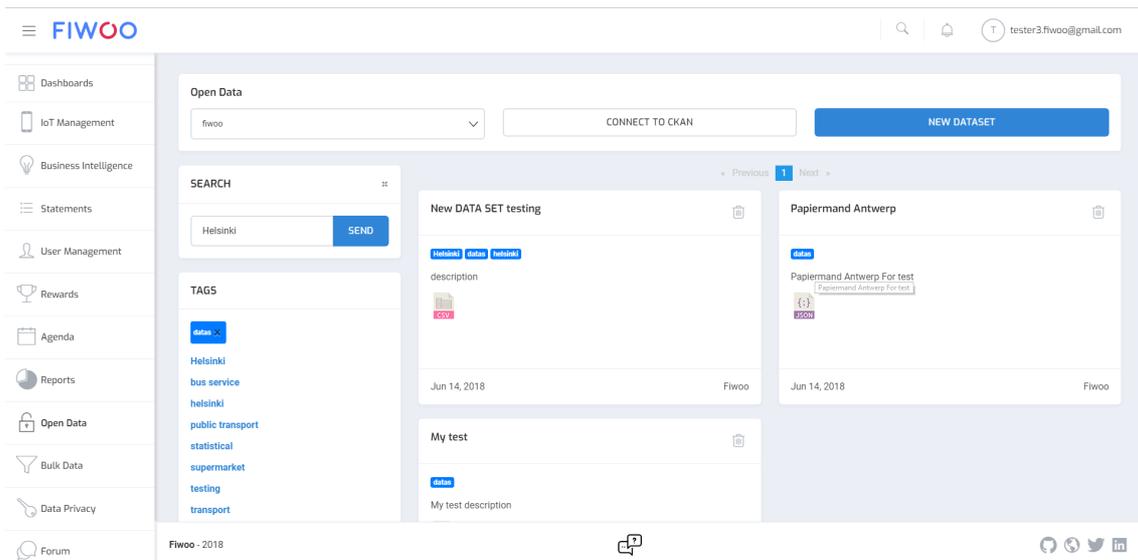


12 Open Data

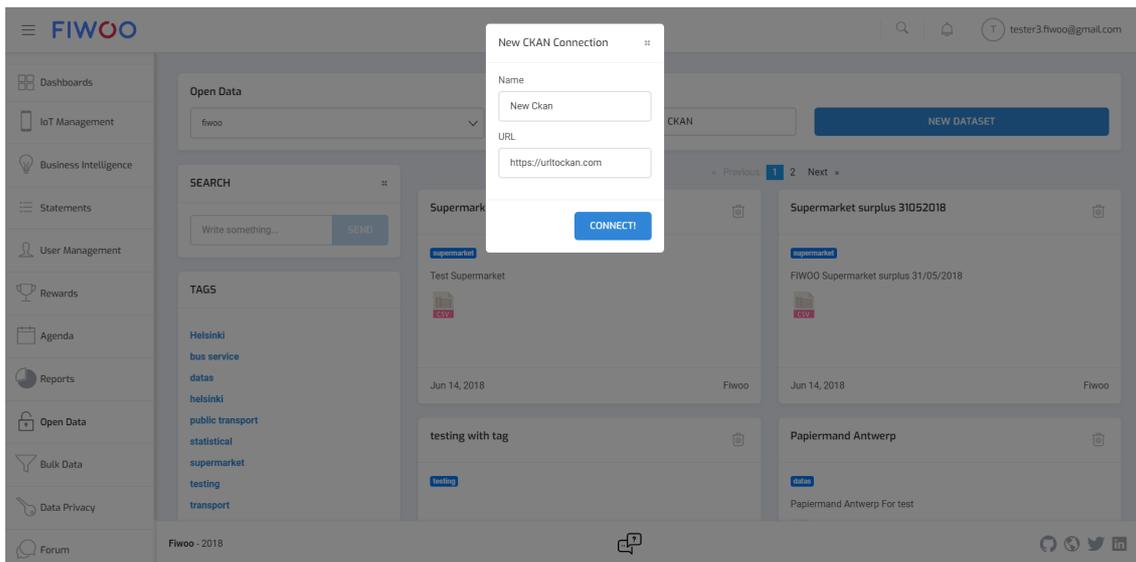
At the Open Data screen, you will be able to see at the same page all the open data available at the FIWOO platform. You have also the possibility of search inside the open data collection:



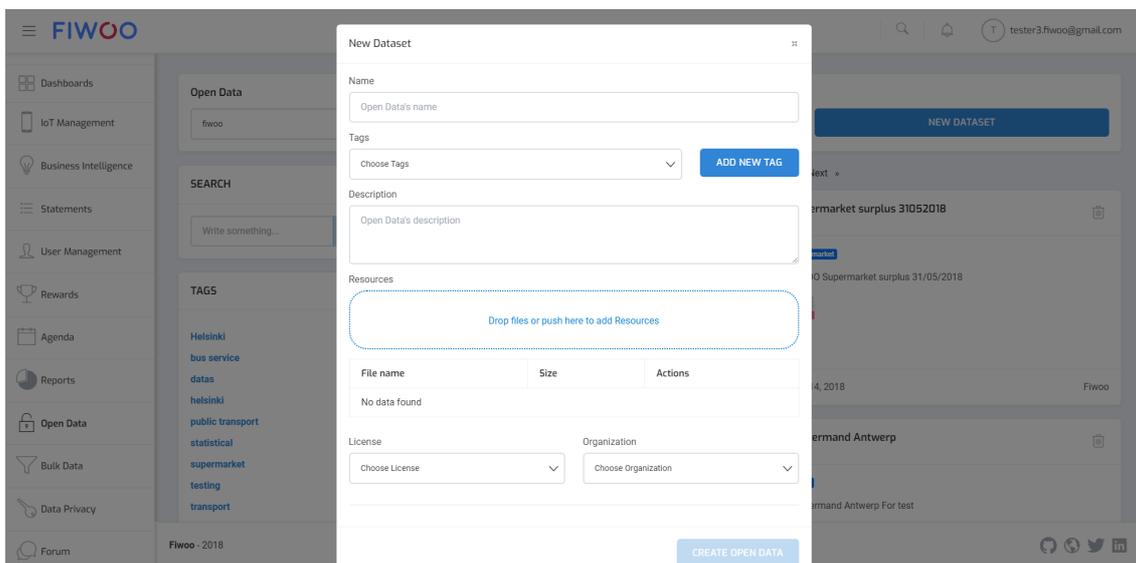
Clicking on the tags, you can filter the collection of open data easily:



Also, the screen offers you the possibility to add a new CKAN collection:



Also, you can easily add new datasets adding tag, descriptions, organization, licenses... and choosing the files with the data:



13 Bulk Data

Within the Bulk Data section you will be able to import and export devices data and open data in different formats like JSON, CSV or XML:



13.1 Device import export

The screenshot shows the FIWOO interface for device data management. On the left is a navigation sidebar with categories like IoT Management, Business Intelligence, Statements, User Management, Rewards, Agenda, Reports, Open Data, Bulk Data, and Forum. The main area is split into two panels: 'Data Export' and 'Data Import'. The 'Data Export' panel has tabs for 'DEVICES' and 'HISTORICS', a 'Device' dropdown menu, and radio buttons for 'JSON', 'CSV', and 'XML' formats. The 'Data Import' panel has similar tabs, a file upload area, and a table with columns for 'File name', 'Size', and 'Actions'. A table entry shows 'devices_bulk_data (17).json' with a size of '696 B'. Both panels have an 'EXPORT' or 'IMPORT' button at the bottom.

13.2 Open Data import export

The screenshot shows the FIWOO interface for Open Data management. The layout is similar to the previous screenshot, but the 'Data Export' panel has tabs for 'PACKAGE', 'TAG', and 'RESOURCE', and a search input field containing 'HelsinkiResource'. The 'Data Import' panel has tabs for 'PACKAGE', 'TAG', and 'RESOURCE', and two separate file upload areas: 'Upload Bulk Data File (JSON or XML)' and 'Upload Resource Files'. Both panels have an 'EXPORT' or 'IMPORT' button at the bottom.

14 Data privacy

FIWOO is totally GDPR compliance. Inside the platform, the user could authorize FIWOO to use the user data and her/his activity. The data are structured in two sections: Personal Data and Sensitive Data. In this section the user can authorize or revoke permissions to use personal data in every section of the Platform.



At this data privacy section you will have 3 buttons to remove historic, remove device data and forget me (to remove all the saved information).

14.1 Historical Data

List of the historical data info and the service that is using the information:

The screenshot shows the FIWOO Data Privacy interface. The main content area is titled "Data Privacy" and contains a table labeled "HISTORICAL DATA INFO ACCESS". The table has four columns: Date, Field, Service, and Endpoint. Below the table is a pagination control showing page 1 of 4. Below the table are two sections: "Personal Data" and "Sensitive Data". The "Personal Data" section has two input fields: "Name" and "Surname", each with a "Select All" checkbox. The "Sensitive Data" section is currently empty.

Date	Field	Service	Endpoint
Jun 14, 2018, 10:10:16 AM	email	notifications	notifications_send_email_to_user
Jun 14, 2018, 10:09:27 AM	date_of_birth	agenda	agenda_list_users_create_event
Jun 14, 2018, 10:09:27 AM	gender	agenda	agenda_list_users_create_event
Jun 14, 2018, 10:09:27 AM	phone	agenda	agenda_list_users_create_event
Jun 14, 2018, 10:09:27 AM	surname	agenda	agenda_list_users_create_event

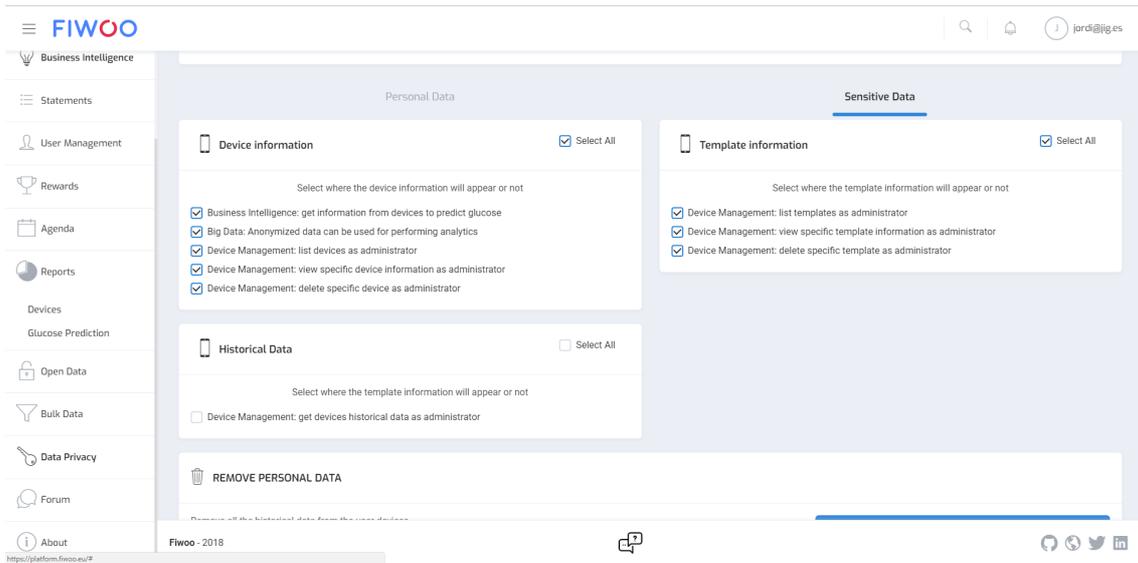
14.2 Personal Data

Personal information like name, surname, email, telephone number, gender and date of birth and the services that are using this information:



14.3 Sensitive Data

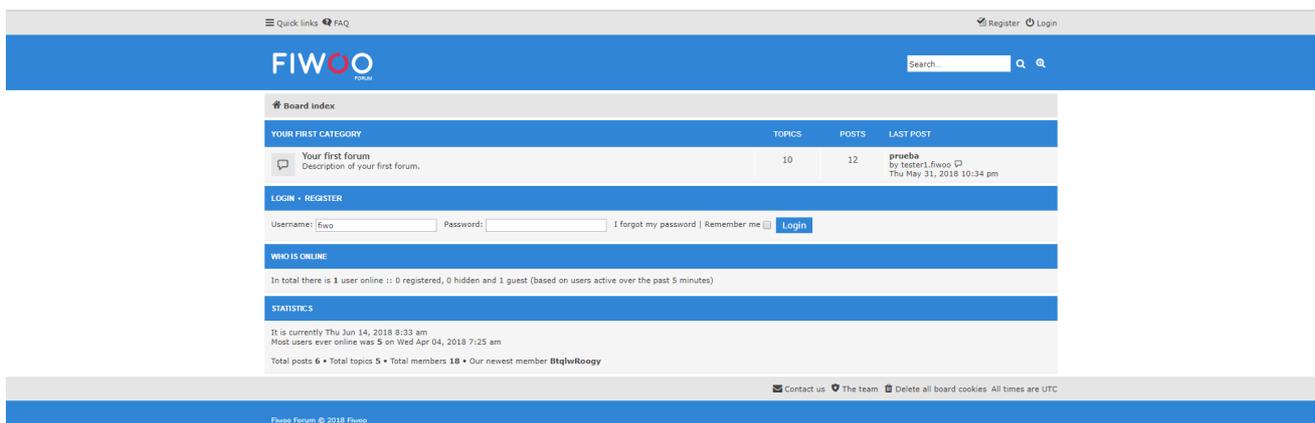
Sensitive information like device information, template information or historical data and the services that are using this information:



15 Forum

FIWOO also provides an external open forum for the FIWOO community.

The forum is accessible from inside the Platform, from the Resources webpage (<http://www.fiwoo.eu/resources/>) and also from the direct link <https://forum.fiwoo.eu/>



16 About

On the About page, you can access to the list of technologies used to develop FIWOO and their corresponding licenses. You can also filter the results filling the “Name” or “License” fields.



FIWOO

Business Intelligence

Statements

User Management

Rewards

Agenda

Reports

Devices

Glucose Prediction

Open Data

Bulk Data

Data Privacy

Forum

About

About

FIWOO is an open source internet of everything smart city platform being developed by the four Spanish companies Bosonit, Emergya, JIG and Secmotic as a response of the open call made by the SELECT for Cities pre-commercial procurement project. You can see below the list of technologies used to develop FIWOO and their corresponding licenses.

You can filter the results filling the 'Name' or 'License' fields.

Name	License
Allure Test Report tool	Apache 2.0
Ambari	Apache v2.0
Android	Apache v2.0
Angular	The MIT License
Apache JMeter	Apache 2.0
Apache Maven	Apache 2.0
CKAN	The MIT License
Carto	BSD 3-clause
Chai-JS syntax	The MIT License
Codacy	The MIT License

Fiwoo - 2018

🔄 🌐 🐦 🌐