



OPENPLATFORM (user guide V2.0)

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1. What is the OpenPlatform of huellasolar?

The huellasolar OpenPlatform is an environment that allows you to build and display radiation and sun exposure maps of your projects of cities.

Is specially designed to work with cities and urban environments but can be used with any sort of model.

Built maps are interactive and have a lot of features available to analyze the sun exposure and the radiation in the models.



2. What do I need to start?

- 1. First you need to have a geometric definition of your model including heights.
- 2. You need to format your data so the OpenPlatform can recognize and work with them (See point 4)
- 3. To build maps you must be registered in the web. Register is free and you can build maps for free up to 1,44Km2

3. Free accounts and business accounts

You can use the OpenPLatform and the huellasolar viewer for free. However there are some features only available for business account:

Free accounts

Free accounts allow you build and explore radiation maps with all the features available in the huellasolar online viewer

There is no limit to the number of maps you can create; however the size of each map is limited to 1.44Km² with a number of tiles up to 4.

With free accounts you can only create open maps.

Business accounts

Business accounts allow you build bigger maps up to 116Km² with a number of tiles up to 324. In addition business accounts offer three ways to publish your maps:

- Open-Map.
- Pay-Map. You can earn money with your radiation maps
- Private-Map. Only you will have access to your maps

4. Formatting my data

The app works with geotif or png files.

Geotif files

These are files usually generated from digital model of terrain, clouds of points, lidar files etc.

These files should have only one band of data corresponding to the elevations from the sea level for each point. You can save this type of file using any GIS program like Qgis or Gvsig.

The installation of the databuilder includes examples with tif files. If you want to visualize them, we recommend opening them with GIS software.

PNG files

Depending on your necessities or your source of data, you can also work with png files but they must be formatted as follows.

They must be .png files where the rgb value of each pixel is the elevation in meters over the sea level. For example, if a point has an rgb value of #00003b its elevation is 00003b=59 meters over the sea level.

Visit the section 'Documentation' of the web to find tools and video tutorials explaining how to format these files from CAD or shp files.

The relation m/pixel must be 1 in both types of files.

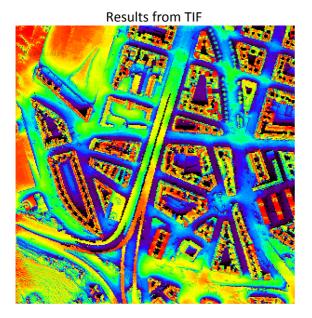
The size of the tiles must be between 120m and 600m. Therefore the minimum size admitted is 120x120m (=pixel) and the maximum is 600x600m (=pixel)

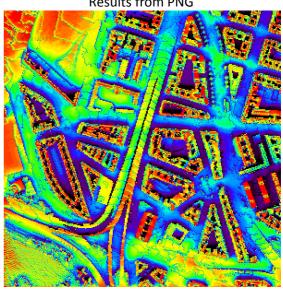
Results with TIF files vs results with PNG files

Tif files deal with decimal values but png files only support integer values.

For example, a pixel which in a tif file has the value of 34.2, in a png file will be 34.

Therefore, results from tif files will have softer transitions than results from png files as it is shown in the following images.





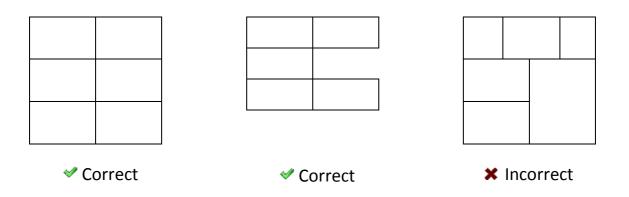
Results from PNG



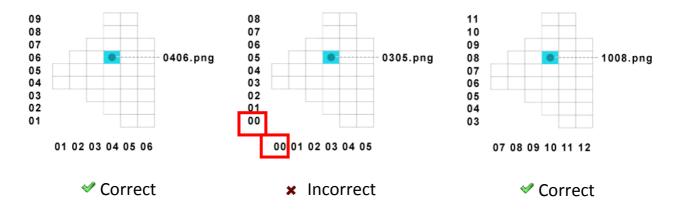
Structuring the map

Every raster correspond to a tile of your map. You must split your model in tiles with the following conditions:

- a. Width and length of every tile must be between 120 and 600 meters
- b. Both dimensions width and length can be different but all the tiles in a map must have the same dimensions
- Free accounts allow maps up to 4 tiles. If your tile is 600x600 meters you can build maps up to 1.44Km²
- Business accounts allow maps up to 324 tiles. If your tile is 600x600 meters you can build maps up to 116.64Km²



c. Number the raster as in the following images



5. Building data packages with the desktop tool

Once you have the raster of your model you can start building your map.

The first step is to generate data packages with the desktop tool.

The desktop tool is a free download. Visit the documentation page in <u>www.huellasolar.com</u> and download it.

This tool is a little windows application that will compile a number of data packages that you must upload to your project from you edition panel (See point 7.2)

Open the tool and select the type of file

	ie Help Select Directory Coordinates of the ongitude: atitude:	Work directory project Type here the Longitude Type here the Latitude	Select type of file To learn more about supported formats, dow the OpenPlatform manual at www.huellasole Select	rcom .png
	Coordinates of the ongitude: atitude:	project Type here the Longitude	To learn more about supported formats, dow the OpenPlatform manual at www.huellasoia	rcom .png
	.ongitude: .atitude:	Type here the Longitude	To learn more about supported formats, dow the OpenPlatform manual at www.huellasoia	rcom .png
	atitude:		the OpenPlatform manual at www.huellasola	rcom .png
		Type here the Latitude		.png .tif
F	iles to process		Seler	t All Deselect
	Console		Car	icel Process
				Session: 160118

Select the directory where your raster are located

Graph Output	huellasolar data builder File Help			
	Select Directory Work	lirectory		
	Coordinates of the project		Select type of file	
	Longitude: Typ	e here the Longitude	To learn more about supported formats, download	.tif 💌
	Latitude: Ty	be here the Latitude	the OpenPlatform manual at www.huellasolar.com	
	Files to process		Select All	Deselect
			L	107
				Se let 1
				16.07
			Cancel	Process
	Console		Cancel	Process
	Console		Cancel	Process

A list with the raster available will be displayed

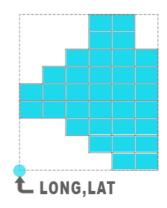


We recommend you to place the raster files of each project in different folders to avoid errors

Only raster numbered according point 4 will be displayed. In the console log the discarded files will be prompted

Type the values of longitude and latitude of your project and select the files to process

These coordinates must correspond to the lower left corner of the square circumscribing your map as in the following image:



Select the files you want to process clicking on them in the list

E Graph Output	huellasolar data builder File Help		
		ocuments\0-huellasolar\Proyectos\Bibao	
	Coordinates of the project	Select type o	f file
	Longitude -2.9		ut supported formats, download .tif
	Latitude: 43.	271833	nandara, www.naciadola.com
	Files to process		Select All Deselect
	0102.tif 0103.tif 0201.tif 0202.tif 0202.tif 0303.tif 0303.tif 0308.t	have the same dimension - 0707 tif	Cancel Process

() West and south values are negative

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You don't need to type the coordinates every time. Next time the tool will load the last values of longitude and latitude for the project

Start processing the data

Click the 'Process' button to start compiling the data.

A progress bar will indicate the state of the progress. Additionally a graphical output will be displayed in the little window.



Notice that computing many raster can take several minutes, and depending on the number and size of the tiles it could take even hours. Nevertheless you can always cancel the process and start it again from the tile where it was canceled

Once the process is finished a dialog will be displayed with the directory where the packages have been stored and the errors log if any.

The results are stored in the following path: "[Your work directory selected]\Session [your id session in the lower right corner of the tool]"

Look at the results path. You will find a number of files with the following names: "hso_package_[the raster number]_[the id package number].hsp" Ex.: hso_package_0512_5.hsp

Additionally you will find png files for each tile formatted as it is explained in the point 2 of this manual. If you are working with png files, they will be just a copy of them.

If you are working with tif files, these png files are the ones which you should upload to your edition panel in the web huellasolar, see point 7.2 of this manual.



6. Creating a Project

Go to your dashboard projects in the <u>www.huellasolar.com</u> web. Select the option 'My Projects' of the OpenPlatform menu at the top of the page (must be logged)

🝘 huel	lasol	ar		(OpenPlatforn	My projects	I xplore maps	Help Feedback	Logout
OpenPlatform	Explore	Build	Services	Documentation	Contact / A	bout			
This will load yo new project' se		cts pane	el from wh	iere you can r	nanage and c	reate new	projects. Go) to the 'Cr	eate
Create New Pr	oject								
Title: The title indentify your	project. Users	can see the	title and descrip	tion of published proy	vects				
Description:									
Coordinates of th	e project								1
Type here the coordina tool (View an example)		er left corner	of the square o	ircumscribing your ma	p. These coordinates	must be the same	you used to gene	rate data in the c	desktop
Longitude Lo	ngitude	Latitude	e Latit	ıde					
Enter the country	of your pro	oject							
Country	1	•]							
License: Select the type of licen you are thinking in self					1023 62				
Creative-Commons	Attribution			- 0					
If you have selected	i 'Other' plea	se, specify:	ê						
Attribution									
Author :									
									Create
									Deverses.

Fill the form and push 'Create'







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Values of Longitude and Latitude must be the same you used in the desktop data builder. See point 5 of this manual

If you are going to create a private map the license selected has no effect because only you will access the map (Private maps is a feature only available in business accounts)

An empty project will be created and a link to the edition panel will be showed.

Create New Project	
Title: The title indentify your project. Users can see the title and description of published proyects	
Example Project	
Description:	
This is an example project for the <u>openplatform</u> manual	H.
Coordinates of the project	
Type here the coordinates of the lower left corner of the square circumscribing your map. These coordinates must be the same you used to generate data in the desktop tool (view an example) Longitude -2.480587 Latitude 36.841825	
Enter the country of your project	
Spain 💌	
License: Select the type of license for your map. We recommend select one of the Creative Commons options, nevertheless you can select other license if you like. Notice that, if you are thinking in sell the access to your map, a restrictive license may discourage users to purchase your map. You can always modify it from the project edition panel. Creative-CommonsAttribution	
If you have selected 'Other' please, specify:	
	- 10
Attribution	
Author : huellasolar	
Project succesfully created! Start editing Greate	

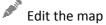
The new project is added to your list of projects:

🝘 huel				(*C*C)*() = =		, 		11		1.10 - 00
OpenPlatform	Explore	Build	Services	Documentation	Contact / A	bout				
Huellasolar Op User: ExampleUser	en Platfo	m. User	r Dashboar	ď			Select Lar	nguage	: English	• Ok
General Settin	gs									
Do you wish to allov	v other users	to contac	t you and requ	uest additional informa	ition about you	r maps? 🛛 🔘	Yes 🙆 No			
My projects										
	Desi	cription				Туре	Status	Acti	ons	
My projects Title			ple project for th	e openplatform manual		Туре	Status Not Published	Acti	1994	×
Title			ple project for th	e openplatform manual		Туре		Acti	1994	×
Title			ple project for th	e openplatform manual		Type -		Activ	1994	×

Legend : 🖋 Edit 🛛 Erase 🗺 View map 🔒 Blocked

From your list of projects you have a briefing with basic information and actions:

- Title and description of the project
- Type: Open Map, Pay-Map, Private Map (Showed when the map is published)
- Status: Published, Not Published
- Actions:



 $^{ imes}$ Erase the project. This will completely erase the project. This action can't be undone

View the map. This link will redirect you to the huellasolar viewer and load your project. The project must be published first

If there is any problem with licenses or permissions the project may be temporally blocked while the issue is solved.



7. Editing your project

Access the edition panel of your project from your dashboard clicking on the button 🔎 The edition panel is the core of your project where all necessary elements are configured. It has five tabs that are explained in the following sections.

Project Tab 7.1.

This tab contains the basic information you gave when the project is created. Here you can edit some values as description and license.

r: Example	User				Select Language: English	• (
Project	Мар	Radiation	Production	Publish		
Title:						
Example F	roject					
Coordinat	es:					
Longitude	-2.4805	37 Latitude 3	36.841825			
Descriptic	n:					
This is an	example	project for the (openplatform ma	inual		
						đ
License:						
Creative-0	Common	sAttribution		- 0		
lf you have	selected	'Other' please,	specify:			
						12
Author : hu	iellasolar					14,8

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Notice that title and coordinates can't be edited once the project is created.

7.2. Map Tab

This tab manages all the graphical information of your project.

Here you have to upload the raster files and the data packages created with the desktop tool (See point 5)

The first section is a list with the current status of your map. This list will be filled while upload data to your project

Project	Мар	Radiat	tion	Pro	duction	1	Publis	h											
Current s	tatus of the	map:																	
Sector	Altitudes Raster		1	2	3	4	5		-	ckage 8		10	11	12	13	14	15	Mask raster	Erase
								The	project	t is emp	ity								
Numbe	r of tiles : 0/	4																	

Uploading the data:

Below the status list there are located three fields to upload the following data:

- a. Raster with altitude data. These are the same files you used to compile the huellasolar data packages in the point 5 of this manual.
- b. Huellasolar data packages. The files compiled with the desktop tool
- c. Mask raster. These are optional data. Yu don't need to upload them to build your map but mask raster add some features may be interested.

Mask raster are used in the huellasolar viewer when you apply filters to overprint areas that match to some sun exposure conditions. In these cases, if a mask raster is present, the app will output the results for the matching areas distinguishing the ones inside the mask and the ones outside.

For example, if you want to differentiate between built areas and open spaces you can make a png file as in the image below:



In this example buildings are set to black and open spaces are in white.

Mask raster must be black and white png files and must be named as the raster of altitudes adding '_mask' at the end.

For example: 0309_mask.png

Notice that, although the most frequent use for this option is the above described, you can define mask with any other purpose, for example for some sort of buildings or some specific areas.



Uploading the raster of altitudes:

Drag and drop the raster files inside the gray rectangle 'Altitudes Raster'

Altitudes Raster (Required data):

Drop here the raster with the information of elevations. This must be the same raster you used to generate data with the desktop tool. Only files named according to the rules described in the guide will be listed (Additional info)

Drop yo	our raster here
Clear list	

Altitudes Raster (Required data):

Drop here the raster with the information of elevations. This must be the same raster you used to generate data with the desktop tool. Only files named according to the rules described in the guide will be listed (Additional info)

Drop your	raster here	<u>+</u>
0414.png 0512.png 0612.png	400 400 400 400 400 400 400 400 400 400	
Clear list		

Push the button 土 to upload the files

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Notice that only files named according to the rules in the point 4 of this manual will be listed. Make sure you are dropping the correct files in the proper area



Uploading the data packages:

Follow the steps above in the section 'Data Packages' to upload them

Data packages (Required data):

Drop here the packages generated with the huellasolar desktop tool (The hsp files numbered from 0 to 15 for each sector of your map). You must upload only one sector at the same time. (Additional info)

hso_package_0414_6.hsp		
hso_package_0414_7.hsp		
hso_package_0414_8.hsp		
hso_package_0414_9.hsp	-	
hso_package_0414_10.hsp	8	
hso_package_0414_11.hsp		
hso_package_0414_12.hsp	-	
hso_package_0414_13.hsp	8	
hso_package_0414_14.hsp		
hso_package_0414_15.hsp	-	
hso_package_0414_0.hsp	÷.	
hso_package_0414_1.hsp		
hso_package_0414_2.hsp	-	
hso_package_0414_3.hsp	±	
hso_package_0414_4.hsp	÷	
hso_package_0414_5.hsp		

You can upload only data packages of one tile at the same time. (In the image the tile 0414)

Uploading the mask raster (Optional):

Follow the same steps to upload mask raster.

Remember that mask raster must be named with a tag '_mask' For example. 0414_mask.png. Otherwise files will be ignored

While you upload data to the map the status list at the top is being updated:

Sector	Altitudes								Data p	ackag	es							Mask	Erase
Sector	Raster	0	1	2	3	4	5	6	7	8	8 9 10 11 12 13 14 15 rast	raster	LIUSC						
0414	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\times	-										
0512	\checkmark	\times	\times	\times	\times	\times	\times	\times	\times	1									
0612	\checkmark	\times	\times	\times	\times	\times	\times	\times	\times	1									



7.3. Radiation Tab

In this tab you can configure values for the estimation of radiation.

If you are only interested in sun exposure values can leave these values to default, otherwise, if you are going to take radiation data from your map we recommend you to set up this section.

Linke atmospheric turbidity factor:

Type here the values of the Tlk factor for your location. If you are not sure about what values are suitable for your project, the web offers a link to values around the world.

You can also get this data from the SoDa (Solar Energy Services for Professionals) web page.

January	February	March	April	Мау	June	July	August	September	Octuber	Novemb	ber December
3.18	3.3	3.44	3.65	3.86	3.91	3.99	4.04	3.94	3.61	3.25	
									Set De	efault	Save Changes

Notice that, although the app provides defaults values, using them without check your local values would cause a loss of reliability for the results of radiation in your map.

Cloudiness Index:

If you have cloudiness index values for your location you can type them in this form. If you don't have such values or you don't want to compute real sky conditions just leave this fields to cero. In that case radiation values will be calculated in conditions of clear sky without take into account cloudiness.

Note: If your map is located in Europe you can get cloud index values at www.satel-light.com

															[Set D	efault	Save	Change
January																			
Fill month	with val			0															
hour		8		9		10		11		12		13		1	14		15		16
coef		0		0		0		0		0		0		(0		0		0
February																			
Fill month v	with val	ue =		0															
hour	7	.5	8	3.5	9.5	;	10.5		11.5		12.5		13.5		14.5		15.5		16.5
coef	C)		0	0		0		0		0		0		0		0		0
March																			



7.4. Production Tab

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This tab is used to set up values to evaluate power production with solar collectors. Type values of dimensions, peak power and performance for the collectors

Solar panels and insta	allation characteri	stics:				
Take into account that, in	order to estimate the		n panels, when they	are located over a horizontal surfa dimension as the one raising from it	-	ition for
Panel Height (m)	1.7	Panel Width (m)	1	Panel Peak power (W)	230	
Performance of the ins	tallation (coef)	0.702				
					Set	Default

Here you can also type values of prices of power in the area of your map to evaluate savings arising from a photovoltaic installation.

Power cos	ts and average consum	nption:		
This value w	e price of the Kwh and the rill be used to output estimat although a default value is d	tes about the	savings that a photovolt	
Kwh Price	0.149	Currency	euro	
Housing a	verage consumption (Kw	/h/year)	3272	

Set Default

Notice that, although defaults values are displayed, they can be quite far from the values for your region so we recommend to customize your data



7.5. Publish Tab

When your data are set up the last step is to publish the project. This will make your map accessible from the huellasolar online viewer and your map and data will be ready to explore them with all the features in the app.



You can always edit your map and publish it again with the modifications. This process can be done every time you want to modify the map or change the access permissions

There are three ways to publish your project:

Open-Map

It's the default type for free accounts. An Open Map can be loaded by any user. However your map if offered with the license that you set up in the Point 6.1.

To publish as Open Map just click on the button 'Publish Now'

	Publising as Open Map anyone can access and use it
Open map	Publish Now

The app will start the process. An information dialog will be displayed under the button. If there is an error during the process a message with instructions will be shown.

0		924 D. D. Ni
Open	map	Publish Now
		\checkmark
Project Published!	. To visit your map op	
Project Published!	. To visit your map op	en the huellasolar viewer and select it in the world map or from your list of projects. Click here!
	. To visit your map op	
Project Published) Log ; Checking changes	. To visit your map op	
Log :	~	en the huellasolar viewer and select it in the world map or from your list of projects. Click here!
Log ; Checking changes	~	
Log ; Checking changes Checking integrity of the p	oroject. 🗸	
Log ; Checking changes Checking integrity of the p Step 1/5	~	
Log ; Checking changes Checking integrity of the p Step 1/5 Step 2/6	oroject. 🗸	

Pay-Map

This is a feature of business accounts. Pay-Maps require a fee to be accessed. This way you can earn money with your data.

How it works?

When a user wants to access to your map the process is the following:

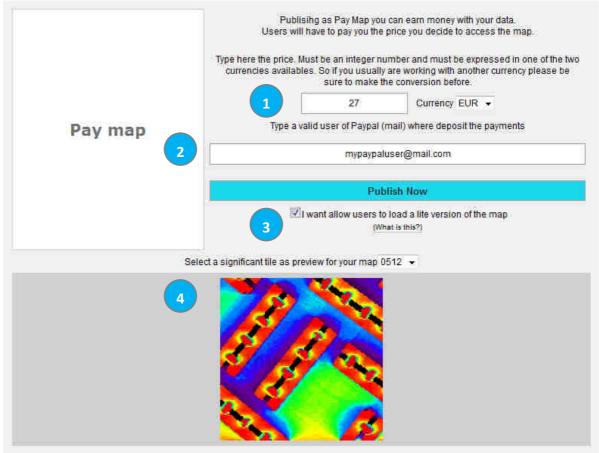
- If the user is not registered in the web he will be asked for it. (Only registered users can access these type of maps)
- We redirect him to the internet safe payment environment Paypal
- Payment is distributed in two portions 80% and 20%
- User pays you directly into your account the 80%
- User pays us the 20%

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Notice that the user pays you directly in your Paypal account. Huellasolar does not retain your fee to afterwards reimburse you

Payment gives access for a period of a month. After this period user must purchase again the access if he wants to continue using the data.

When you are going to publish a pay-map you will be asked to fill in the following information:



Learn more about Pay map

- 1. Put a price to your map and select the currency. Remember the price is for a month
- 2. Type the Paypal user where payments will be deposited
- 3. Allow lite version. When active, users can load a lite version of your map. This is useful for users who prefer have a look to the map before purchasing it.



Lite versions have the following features:

- a. Load and navigate the map
- b. Get basic data of sun exposure on points (diary sunny and shady hours, sun exposure percentages and annual averages of sun exposure)
- c. Estimate electrical production for areas with less than 50m2
- 4. Pay-maps always offer a preview image. Here you can select one of the tiles of your map as preview
- Pay-map is a business account feature. Take into account that, if you revoke your business account you will lose the associate advantages and the map may be blocked
- When your pay-maps have users active (users who have purchased your map and the access period is not expired) you are not allowed to erase the project, erase tiles inside the project or change the access permissions

Private-Map

Publishing as Private Map only you will access the map.

This is a special sort of publication mainly oriented to business and you will have to pay a fee for each map you publish in this modality.

How it works?

The fee is calculated according to the size of the project and is requested in the moment you are going to publish the project.

If afterward you increase the size of the project you will be asked for additional payment only for the new tiles added.

Once you buy the rights for private publishing you can freely change the permissions without additional payments.

For example, if you publish as private and afterward you prefer set as pay-map you can go back again and make your map private without additional payment.



Learn more about Private map

Push the button 'Publish now'. The app will start the preliminary checking and will calculate the fee for the private publication

A dialog will be shown:

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Private	map	Publishing as Private Map only you will access the map. This is a special sort of publication mainly oriented to business and you will have to pay a fee for each map you publish in this modality.
		Publish Now
more about Private map		
		\checkmark
Making and in the second		
Making previous vermo	ations, Please	don't close this page during the process.
Decision		
Log:		
Checking changes	1	
Checking integrity of the pro	jed. 🗸	
Collecting project data	~	
		The price for private publishing is:
		48 EUR
		40 EUR Buy and publish Cancel
One	e the payment is	

Clicking 'Buy and publish' will redirect you to the safe payment environment in Paypal. Once the payment is finished the system will proceed to publish your map and a notification email will be sent to you.

- Private-map is a business account feature. Take into account that, if you revoke your business account you lose the associate advantages and the map may be blocked
 - Reverse the map permissions will not generate refunds. If you publish a private map and afterward decide make it open or pay-map this action will not give you rights for repayments
 - Notice that, although private maps are not accessible for other users, it will be possible to find it in the list of projects of the platform. Title and description are always visible



8. Displaying your maps

Once your map is published you have different ways to access it.

From the huellasolar viewer

(i)

- a. Using the world map and selecting you map.
 - Click on the mark of your map and click on the 'Load' button in the message that is shown.



Notice that if your map requires special permissions you must be logged to freely access it

b. Using the list of your project.

When you are logged and access to the huellasolar viewer a list with all your projects is shown in the upper part of the page. You can load any of your maps from there

🝘 huellas	olar		Ope	nPlatform	My projects	Explore maps	Help	Feedback	Logout
OpenPlatform Explo	ore Build	Services	Documentation	Contact / A	bout				
Huellasolar. Viewe	r of sun ex	posure a	nd radiation						
User: admin						Select La	nguage	: English	+ Ok
Q	EXPI Look for av	.ORE allable maps		<u>بر المراجع</u>	Make ur	BUILD ban radiation n	naps y	ourself	
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Example Project	71	nis is an example	e project for the openpla	tform manual				Loa	
Madrid	N	úcleo urbano de	Madrid. Mapa realizado	por huellasolar				Loa	d



From your dashboard panel

Use the 🔛 button from the list of your projects to load the map in the viewer

OpenPlatform	Explore Bu	ld Services	Documentation	Contact / A	bout					
Huellasolar Ope User: ExampleUser	en Platform. I	Jser Dashboa	rd			Select Lar	nguage	: English	•	Ok
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Do you wish to allow	other users to co	ntact you and req	uest additional informat	tion about you	ir maps? 🔞	Yes 🔘 No				
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Example Project Madrid	This is an i Núcleo urb	example project for t vano de Madrid. Mapi	a realizado por huellasolar		Open Private	Published Published	1	-		,

Now you can start analyzing your model with all the features included in our viewer. Remember that you have available another manual for the huellasolar viewer where are explained all the features you can apply on your maps.

