



# City Amberprint Users Guide

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## 1 Executive Summary

The BlueSCities Users Guide to the City Blueprint and City Amberprint is the manual which will accompany the BlueSCities Independent Analysis Software packages. The two packages are the result of the work carried out on the revised version of the City Blueprint and the creation of the City Amberprint which have already been undertaken in more than 50 cities around the World.

The two parallel methodologies incorporated into the BlueSCities Software permit target users, both professional and non-professional including municipal administrations to generate a concise, clear and effective analysis of the situation concerning Water and Waste (City Blueprint) and Energy, Transport and ICT (City Amberprint) in any given town or city. The results reveal at a glance precisely where a municipality's strong and weak points lie and can serve as the key first step in a local, regional, national or supranational strategic approach so that all stakeholders will be better equipped to create broad, long-term visions in order to plan for the sustainable urban communities of the future.

Presented in an easily-accessible format which will permit one to obtain and provide the necessary information in a logical step-by-step procedure, the BlueSCities Independent Analysis Software packages produces visual results which converts it into an effective communication methodology which enables stakeholder engagement, city-to-city learning and the exchange of best practices.

The system has been tried and tested and works efficiently. It will strengthen the argument that all environmental factors must be analysed as a whole when considering the options available for urban development in the coming years.

## 2 The City Amberprint manual

### 2.1 Welcome page

When you enter the link a welcome page will appear. You will find the essential information concerning the benefits of the application together with a description of the methodology. At the top of the page is a link to register in the application, the link to log in as a user and further information concerning the City Amberprint. Here you may contact the BlueSCities experts for support and access this Users' Guide.

**BlueSCities** Register Log in Menu

## The City Amberprint

a practical communicative tool that can help cities on their path to becoming sustainable cities

**1** Extreme weather events that leave city streets under water in no time. Prolonged drought that renders a city's water supply incapable of meeting its needs. Two extreme cases that become more and more a reality because of climate change, and especially since urbanization is rapidly increasing.

**2** In 2050, 87% of the population in developed countries will be living in cities. At about that time, water supply will fall short of demand by 40%. The consequences of climate change leave cities no choice: they are forced to adapt their water cycle, because the cost of inaction is very high. But how can a city quickly grasp which elements of its water cycle are already sustainable and which need to be adapted?

Try it! Know more

### Benefits of the City Amberprint

- Reveals at a glance precisely where a city's strong and weak points lie and can serve as the first step in strategic long-term planning to realize cities to be sustainable.
- It is an easy-to-understand interactive tool serving strategic decisions. The actual assessment is done together with key stakeholders ensuring viable results and quick access to expert knowledge.
- It offers a platform that enhances city-to-city learning, exchange of best practices. Cities can learn important practical lessons from other cities that have already implemented best practices.
- The City Amberprint platform is expanding with at present, 50 cities in 30 different countries.

### How does it work?

Participation in the City Amberprint process requires little effort whereas it can produce high returns. It shows the city exactly what steps they want to take towards making Urban Water Cycle Services (UWCS) sustainable.

Complete the questions provided → Preliminary City Amberprint (Can be used for internal purposes and comparisons with the right other cities that have been assessed)

↓

Experts from KWR check the source data and complete indicators information whenever needed → City Amberprint (This guarantees an original and independent assessment of the baseline situation and allows for a comparison with all other cities, providing the city insight into its most important strengths and weaknesses)

↓

We can then work together in defining the right direction and goals for UWCS, show the most revealing points of improvement and show cities that have already implemented measures to seize these opportunities.

↓

Finally, we will also show which next steps and WaterShare tools (<https://www.watershare.eu/>) can be useful for reaching the city's own formulated ambitions on their path to become water-wise.

### Methodology

After the completion of the questionnaire, a radar chart of all 22 performance-oriented indicators and the overall score, the Blue City Index (BCI) are provided both varying from 0 (concern) to 10 (no concern). The indicators are divided over three broad categories representative of the city environmental performance:

- Energy
- Transport
- ICT

For detailed information regarding the scoring and rationale of each individual indicator, see [City Amberprint Questionnaire](#).

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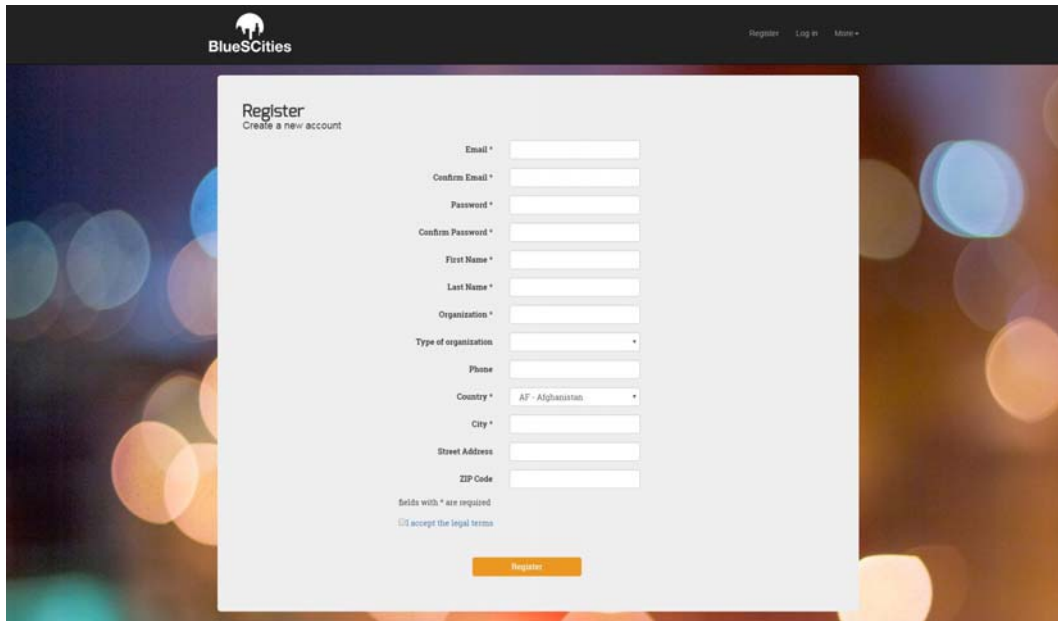
Project Coordinator: **ctm** (City of The Hague)

Project partners: **KWR** (Watercycle Research Institute), **European Commission** (Joint Research Centre)

... All partners

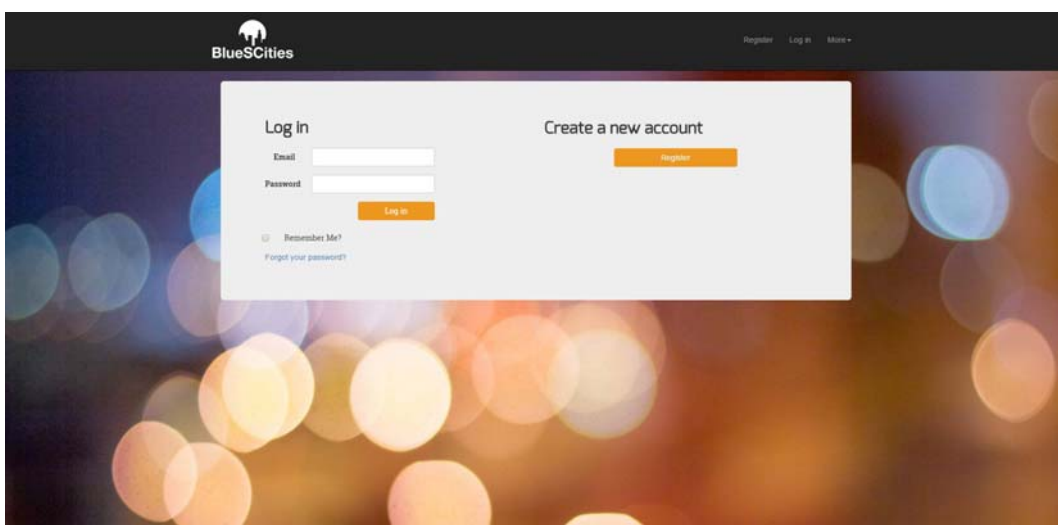
## 2.2 Register page

To register you enter this page and fill in the required information. It is also important to have read and accepted the legal terms of use which in turn can be accessed by clicking on the link. Having submitted the information you will receive an e-mail which will confirm that your Amberprint account has been successfully created and which asks you to validate your account following the link provided.



The screenshot shows the 'Register' page on the BlueSCities website. The page has a dark header with the BlueSCities logo and navigation links for 'Register', 'Log in', and 'More'. The main content area is a white box with the title 'Register' and the subtitle 'Create a new account'. The form contains the following fields: Email \*, Confirm Email \*, Password \*, Confirm Password \*, First Name \*, Last Name \*, Organization \*, Type of organization (dropdown), Phone, Country \* (set to 'AF - Afghanistan'), City \*, Street Address, and ZIP Code. Below the fields, there is a note 'Fields with \* are required' and a checkbox for 'I accept the legal terms'. An orange 'Register' button is at the bottom of the form.

Once the account is validated the user can access the 'log in' page providing both their e-mail and password. If the password has been forgotten then the user clicks on the 'Forgot your password' link.

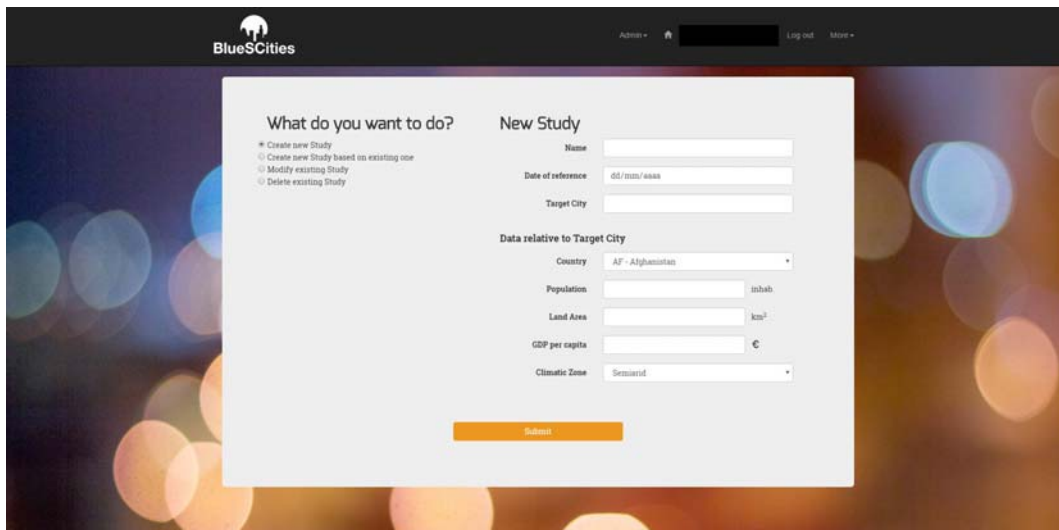


The screenshot shows the 'Log in' page on the BlueSCities website. The page has a dark header with the BlueSCities logo and navigation links for 'Register', 'Log in', and 'More'. The main content area is a white box with the title 'Log in' and the subtitle 'Create a new account'. The form contains the following fields: Email and Password. Below the fields, there is a 'Remember Me?' checkbox and a 'Forgot your password?' link. An orange 'Log in' button is at the bottom of the form. A 'Register' button is also visible in the top right corner of the white box.

## 2.3 Study definition and selection

When the user enters they are automatically directed to the principal page. Here they can decide to undertake one of four actions: to create a new study, to create a new study based on an existing one, to modify a study or to delete a study.

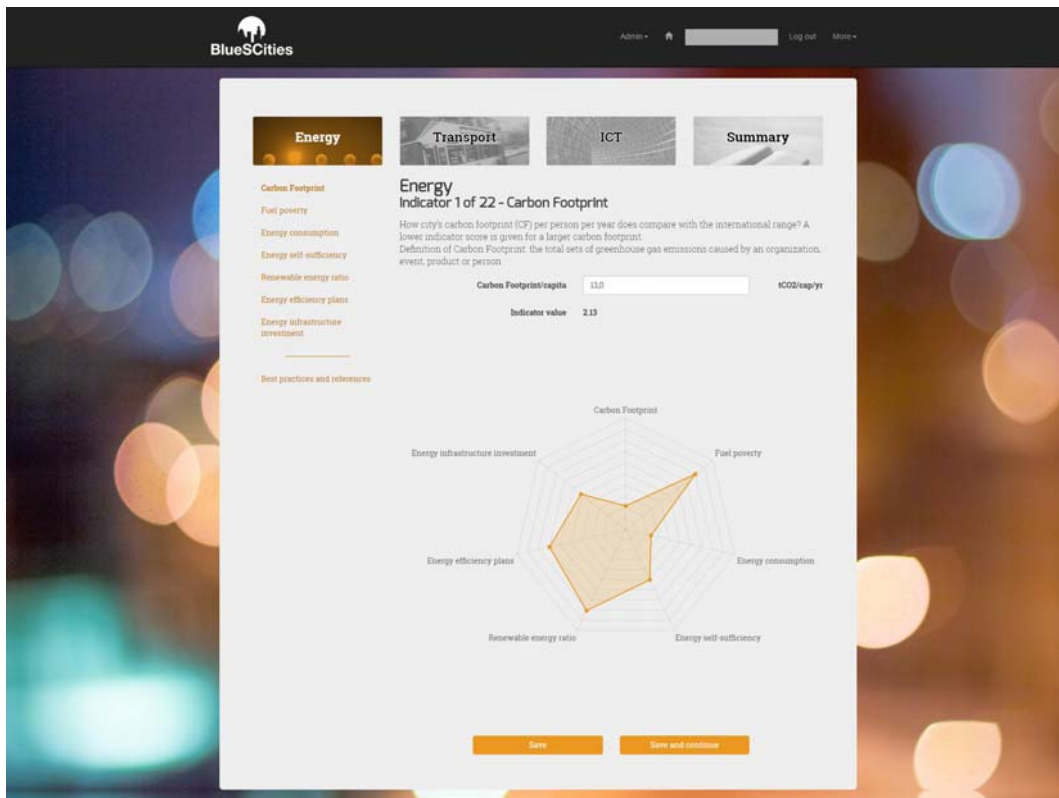
By clicking on one of the aforementioned options, the relevant questions to be answered will appear and once completed, the user clicks on 'Submit'.



The screenshot shows the BlueSCities web interface. At the top left is the BlueSCities logo. At the top right are links for 'Admin', 'Log out', and 'More'. The main content area is a white form titled 'New Study'. On the left side of the form, under the heading 'What do you want to do?', there are four radio button options: 'Create new Study' (selected), 'Create new Study based on existing one', 'Modify existing Study', and 'Delete existing Study'. The 'New Study' section contains several input fields: 'Name' (text), 'Date of reference' (text, pre-filled with 'dd/mm/aaaa'), 'Target City' (text), 'Country' (dropdown menu, pre-filled with 'AF - Afghanistan'), 'Population' (text, pre-filled with 'inhab'), 'Land Area' (text, pre-filled with 'km²'), 'GDP per capita' (text, pre-filled with '€'), and 'Climatic Zone' (dropdown menu, pre-filled with 'Semiarid'). A blue 'Submit' button is located at the bottom center of the form.

## 2.4 Indicator categories

A page appears which at the top shows the three different aspects to be analysed and a summary. These are Energy, transport and ICT. Clicking on each aspect in turn, opens the 22 indicators in numerical order. Each indicator is described and the user is expected to enter the relevant information in the box provided. The user may then save the information or save and continue with the next indicator. When an indicator is saved, automatically, said information is illustrated on the graphic display which appears on the screen.



## 2.5 Best reference practices

Having completed one of the aforementioned categories, a section appears in which the user may describe in their own words Best Practices, References and Additional Comments which will be read carefully by the official City Amberprint validators.

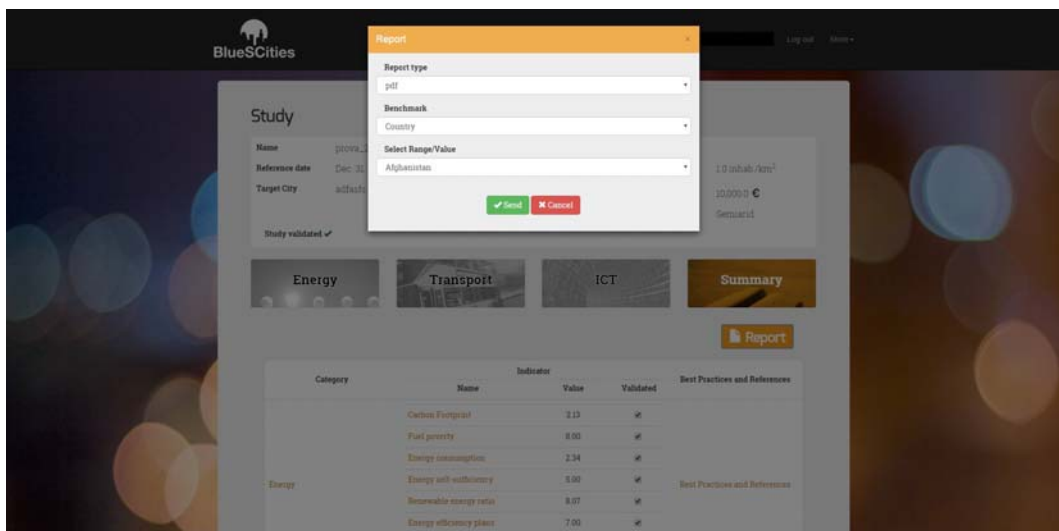
This screenshot shows the 'Energy' dashboard with the 'Best Practices' section active. The 'Energy' tab is selected, and the 'Best Practices' section is highlighted. It contains three text input fields: 'Best Practices', 'References', and 'Additional Comments'. At the bottom of the dashboard, there is a 'Save' button.

## 2.6 Summary and reporting

In the Summary appears at the top of the page a number of general statistics concerning the city in question which the user will have supplied at the beginning of the creation of the study. Below appears a report which is in reality, a table reflecting the numerical values of all the indicators which the user has answered. At the bottom of the same page, the resulting graph or City Amberprint can be observed.

By clicking on the 'Report' button the user can generate a Preliminary City Amberprint for their own private, non-commercial use.

Once the analysis of the city in question has been validated by the BlueSCities experts (the validation is requested by sending an e-mail via the contact form), the user can generate a PDF report and compare their data to the benchmark consisting of the anonymous data of other municipalities according to different criteria such as Country, Population, Land Area, Population Density, GDP per capita and Climatic Zone.



The screenshot displays the BlueSCities web application interface. A 'Report' dialog box is open, allowing the user to select a report type (pdf), a benchmark (Country), and a range value (Alghassistan). Below the dialog, the 'Summary' tab is active, showing a table of indicators. The table includes columns for Category, Name, Indicator, Value, Validated, and Best Practices and References. The indicators listed are Carbon Footprint (3.13), Fuel poverty (8.00), Energy consumption (2.34), Energy self-sufficiency (5.00), Renewable energy ratio (8.07), and Energy efficiency plans (7.00).

Category	Name	Indicator	Value	Validated	Best Practices and References
	Carbon Footprint		3.13	✓	
	Fuel poverty		8.00	✓	
	Energy consumption		2.34	✓	
Energy	Energy self-sufficiency		5.00	✓	
	Renewable energy ratio		8.07	✓	Best Practices and References
	Energy efficiency plans		7.00	✓	



BlueSCities
Admin | [Log out](#) | [More](#)

### Study

Name		Target city data	
Reference date	Dec 31, 2015	Country	Spain
Target City	Madrid	Population	0 inhab
		Land Area	0.0 km <sup>2</sup>
		Population density	0.0 inhab./km <sup>2</sup>
		GDP per capita	0.0 €
		Climatic Zone	Semi-arid

Study not validated

Energy
Transport
ICT
Summary

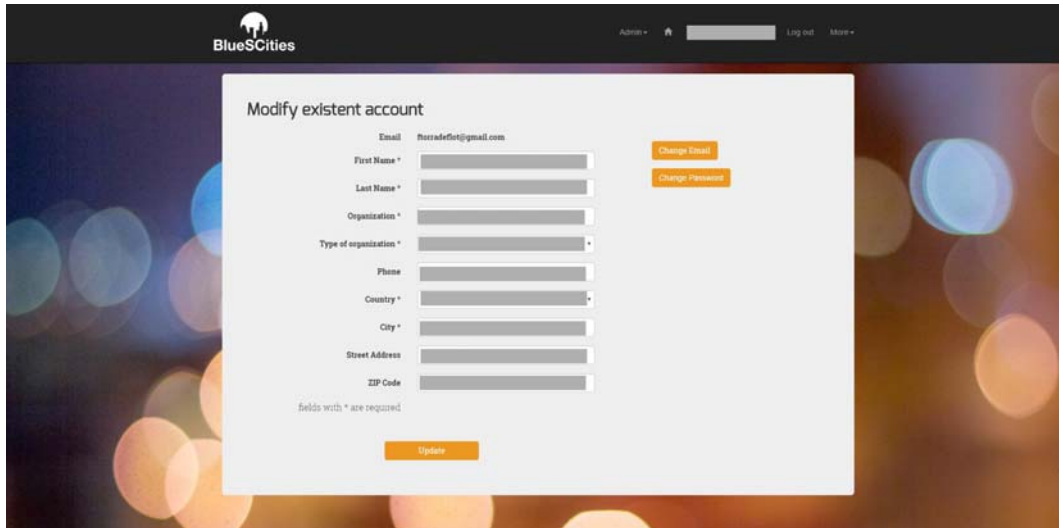
Report

Category	Indicator	Name	Value	Validated	Best Practices and References	
Energy	Carbon Footprint		213	<input type="checkbox"/>		
	Fuel poverty		8.00	<input type="checkbox"/>		
	Energy consumption		2.34	<input type="checkbox"/>		
	Energy self-sufficiency		5.00	<input type="checkbox"/>	Best Practices and References	
	Renewable energy ratio		8.07	<input type="checkbox"/>		
	Energy efficiency plans		7.00	<input type="checkbox"/>		
	Energy infrastructure investment		5.00	<input type="checkbox"/>		
Transport	Commuting time		10.00	<input type="checkbox"/>		
	Use of public transport		5.00	<input type="checkbox"/>		
	Bicycle network		0.31	<input type="checkbox"/>		
	Transportation fatalities		7.01	<input type="checkbox"/>	Best Practices and References	
	Clean energy transport		5.00	<input type="checkbox"/>		
	Transport-related pollution		2.00	<input type="checkbox"/>		
	Transport infrastructure investment		5.12	<input type="checkbox"/>		
ICT	ICT access		1.96	<input type="checkbox"/>		
	ICT use households		2.44	<input type="checkbox"/>		
	ICT use water utilities		4.25	<input type="checkbox"/>	Best Practices and References	
	ICT use energy utilities		4.25	<input type="checkbox"/>		
	ICT use transport		5.00	<input type="checkbox"/>		
	ICT use waste management		7.50	<input type="checkbox"/>		
	Digital public service		7.50	<input type="checkbox"/>		
ICT infrastructure investment		10.00	<input type="checkbox"/>			

Save

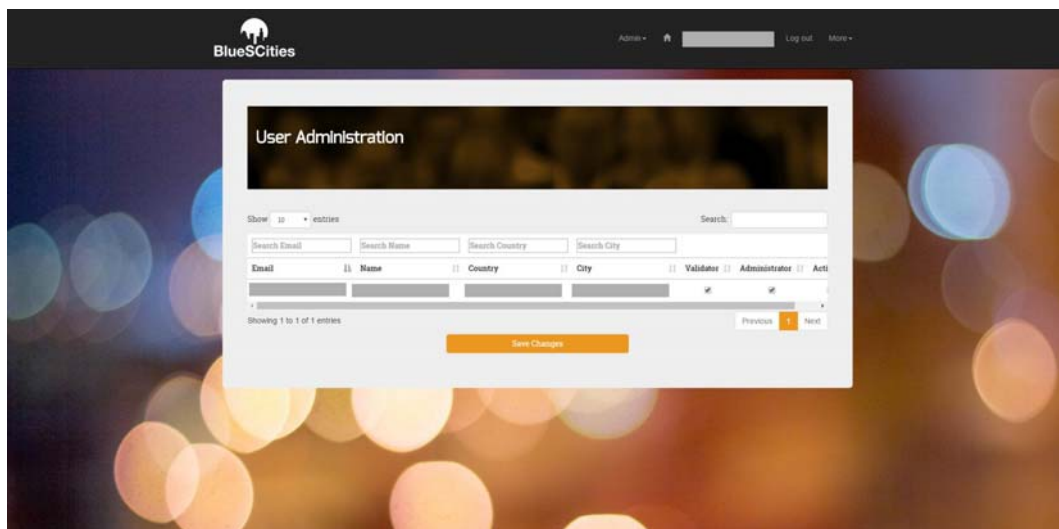
## 2.7 Profile editing

There is also a page which permits the user to update the details of their account.

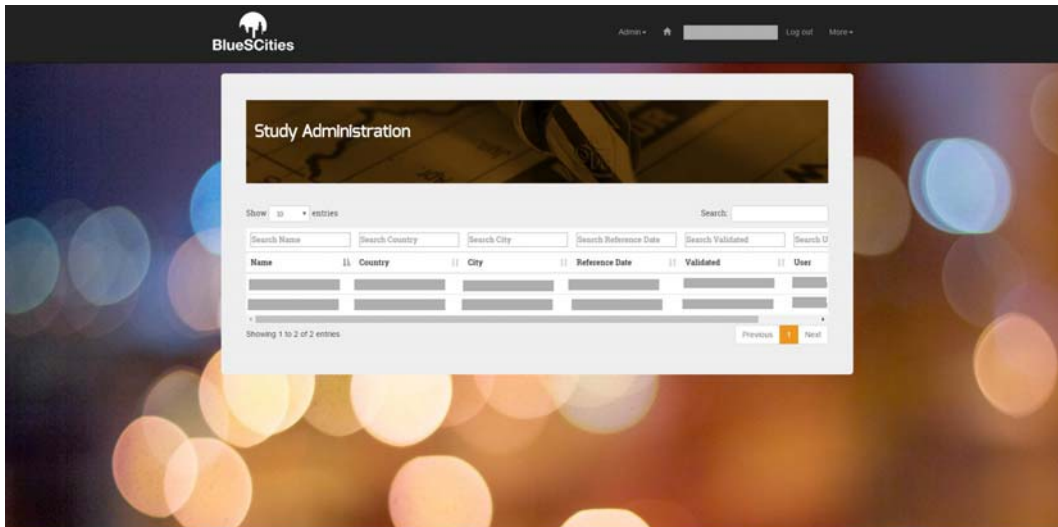


The screenshot shows the 'Modify existent account' form in the BlueSCities application. The form is centered on a dark background with a bokeh light effect. At the top left of the form, the email address 'thetrade@t@gmail.com' is displayed. Below this, there are several input fields, each with an asterisk indicating it is required: 'First Name', 'Last Name', 'Organization', 'Type of organization', 'Phone', 'Country', 'City', 'Street Address', and 'ZIP Code'. To the right of the 'First Name' and 'Last Name' fields are two orange buttons labeled 'Change Email' and 'Change Password'. At the bottom of the form is an orange 'Update' button. A note at the bottom left of the form states 'fields with \* are required'. The BlueSCities logo and navigation links are visible at the top of the page.

## 2.8 Users and administration portal



The screenshot shows the 'User Administration' portal in the BlueSCities application. The portal is centered on a dark background with a bokeh light effect. At the top left of the portal, the title 'User Administration' is displayed. Below the title, there is a search bar and a dropdown menu showing '10' entries. There are four search filters: 'Search Email', 'Search Name', 'Search Country', and 'Search City'. Below these filters is a table with columns for 'Email', 'Name', 'Country', 'City', 'Validator', 'Administrator', and 'Acti'. The table contains one row of data. At the bottom of the table, there is a 'Showing 1 to 1 of 1 entries' message and a 'Save Changes' button. The BlueSCities logo and navigation links are visible at the top of the page.



## 2.9 Contact form and about

