



# LIFE SEC ADAPT PROJECT

*Upgrading Sustainable Energy Communities in Mayor Adapt initiative by planning Climate Change Adaptation strategies*

1

*Environmental and energy  
data monitoring system*

**USER MANUAL**

*June 2019*

LIFE SEC ADAPT  
LIFE14 CCA/IT/000316





PROGRAMME LIFE 2014 – 2020 – Climate Change Adaptation

PROJECT ACRONYM LIFE SEC ADAPT

PROJECT CODE LIFE14/CCA/IT/00036

TITLE Environmental and energy data monitoring system – User manual

ACTION RELATED C4

DATE OF DELIVERY 11/06/2019

VERSION Final

AUTHORS E. Taurino, I. Leoni, F. Giordano, A. Scaramella, C. Di Stefano (ISPRA – Italian Institute for Environmental Protection and Research)





## Table of contents

<b>1</b>	<b>Introduction</b> .....	<b>5</b>
1.1	Structure of the manual .....	5
1.2	Update from the previous version .....	5
<b>2</b>	<b>Technical information</b> .....	<b>6</b>
2.1	Software version.....	6
2.2	Software requirements.....	6
2.3	Data storage and backup.....	6
<b>3</b>	<b>User roles and log in</b> .....	<b>7</b>
3.1	User roles.....	7
3.2	Login and logout .....	7
3.2.1	Change password .....	9
3.2.2	Forgot password.....	11
<b>4</b>	<b>General layout and user interface elements</b> .....	<b>14</b>
4.1	Top bar.....	14
4.2	Languages.....	15
4.3	Mandatory fields.....	15
4.4	Main button functions .....	15
<b>5</b>	<b>Codes and parameters</b> .....	<b>16</b>
5.1	Conversion factors.....	17
5.2	Entities.....	17
5.3	Energy Source .....	18
5.4	Indicators .....	19
5.4.1	Indicator list .....	20
5.4.2	Classify the indicators .....	20
5.4.3	Add a new indicator .....	20
5.5	SEC indicators.....	21
5.6	Regions.....	21
5.7	Typologies .....	22
5.7.1	Categories.....	22
5.7.2	Sub-categories .....	23





5.8	Sectors .....	23
5.9	Type of Energy Source .....	24
5.10	Unit of Measure .....	25
5.11	Unit of Measure of Energy Source .....	25
5.12	Territorial Units .....	26
<b>6</b>	<b>Monitoring .....</b>	<b>27</b>
6.1	Monitoring Reports .....	27
6.1.1	Display the Reports list .....	27
6.1.2	Create a new monitoring Report .....	27
6.2	Adaptation section .....	28
6.2.1	Enter a new indicator .....	29
6.2.2	Possible actions on indicators .....	30
6.3	Consumptions section .....	31
6.4	Plans section .....	33
<b>7</b>	<b>Mitigation .....</b>	<b>35</b>
<b>8</b>	<b>Adaptation .....</b>	<b>36</b>
<b>9</b>	<b>Local action plan .....</b>	<b>37</b>
9.1	Display the Plans list .....	37
9.2	Display the Actions list .....	37
9.3	Add and modify a Plan .....	38
9.4	Add and modify the Actions .....	39
9.5	Add Plan and Action .....	41
<b>10</b>	<b>SEC .....</b>	<b>42</b>
10.1	Display the SECs .....	42
10.2	Display the SEC Entities .....	42
10.3	Display the SEC Indicators .....	43
10.4	Create a new SEC .....	44
10.5	Link a new Entity to the SEC .....	45
10.6	Link a new indicator to the SEC .....	45
<b>11</b>	<b>Report .....</b>	<b>47</b>
<b>12</b>	<b>Analytics tool .....</b>	<b>51</b>





## 1 Introduction

This *User manual* has the main objective of guiding the user through the functions of the on-line open source environmental and energy data monitoring system, set up within the action C4 - *Setting up and testing of a climate and Energy data monitoring system* of the LIFE SEC-ADAPT project.

Monitoring represents a fundamental step of the planning processes, as it allows the planner to answer questions such as: *are we doing the right thing? are we doing things right? are our actions effective enough to achieve the established goals? If not, are we still in time to change our approach and better address our action? How could we demonstrate to stakeholders that our actions are producing good results?*

The environmental and energy data monitoring system here described therefore represents a potentially useful tool for those administration that are willing to monitor their own Sustainable Energy Action Plan (SEAP), their Local Adaptation Plans (LAP) and finally their Sustainable Energy and Climate Action Plans (SECAP)<sup>1</sup>, both in terms of progress and effectiveness.

The tool has been set up on the basis of the project requirements and tested by the Italian and Croatian municipalities involved within the SEC-ADAPT project but it can be customized based on the local needs of the user administrations.

### 1.1 Structure of the manual

The manual is organised as it follows:

- Chapter 1: Introduction – it provides general information and basic information concerning the software;
- Chapter 2: Technical information – it provides technical information concerning the software;
- Chapter 3: User roles and access – it describes the different potential users of the software, their individual roles, their access rights and introduces the user to the software functions;
- Chapters 4 - 12: they provide the general layout and describe the user interface elements: it describes the layout of the main windows, including the functions of the menu.

### 1.2 Update from the previous version

This is the beta version of the software.

---

<sup>1</sup> For further details see the following website: <https://www.covenantofmayors.eu/en/>.





## 2 Technical information

This is a web-based software and it does not require any installation on the user PC.

### 2.1 Software version

<b>Software version</b>	Beta
<b>URL</b>	<a href="http://193.206.192.125/svim/login.php">http://193.206.192.125/svim/login.php</a>

6

### 2.2 Software requirements

In order to use the full functionalities available, the user PC should be equipped with:

- Modern browser that meet the latest HTML standards: this version has been tested in the recent desktop versions of Mozilla Firefox and Google Chrome;
- Microsoft Excel 2010 or later version: the software allows to export and import data entry grids in .csv format and the export of report tables in .xls format (data can also be exported in .doc, html, .csv and .pdf or directly to the printer or e-mail).

### 2.3 Data storage and backup

The data entered in the application are stored in a central database managed by SVIM srl. Regular backup is performed and a continuous management of the database is guaranteed.





### 3 User roles and log in

#### 3.1 User roles

The software can be accessed and used by all the registered users of the environmental and energy data monitoring system. Each user is assigned a role. The software defines various user roles and different levels of access rights (see table 1).

*Table 1 – Roles and access rights*

<b>Roles</b>	<b>Roles description</b>	<b>Access rights</b>
Administrator	System manager	<ul style="list-style-type: none"> <li>• He/She has a free access to all levels</li> <li>• He/She has the right to create/disable the user account</li> <li>• He/She has the right to change the permission of the user levels</li> </ul>
Thematic expert	Responsible for the management and update of decoding tables	<ul style="list-style-type: none"> <li>• He/She has the right to update and/or modify the decoding tables; i.e. to add a energy source or a new indicator</li> <li>• He/She has the right to create and/or modify the SEC, the entities and the associated indicators</li> <li>• He/She has the right to display all the data entered by the users base</li> <li>• He/She has not the right to enter new environmental or energy data nor modify the existing data</li> </ul>
User base	Responsible for the environmental and energy data entry and update	<ul style="list-style-type: none"> <li>• He/She to display/enter/modify the data</li> <li>• He/She has the right to export the entered data</li> <li>• He/She has the right to set up and display the reports</li> </ul>

#### 3.2 Login and logout

Login credentials are provided to users by e-mail. The following steps describe how to correctly login and logout by the system. After 10 minutes of inactivity on the system, the session is automatically disconnected and the user will be successively required to login again.

In order to login, the user should:

- open the web browser and go on <http://193.206.192.125/svim/login.php>
- the login page will shown:



A screenshot of the login page in the SVIM SEC system. The page has a blue header with 'SVIM SEC' on the left and language options 'hr en it' and a 'Login' link on the right. The main content area is titled 'Login' and contains a form with two input fields: 'User Name' and 'Password'. Below the fields is a blue 'Login' button and a link for 'Forgot Password'. At the bottom of the page, there is a footer with the LIFE logo, the text 'With the contribution of the LIFE financial instrument of European Union', and 'DG-SINA©'.

- enter the username and the password provided by the e-mail. Note that both are sensitive to uppercase/lowercase
- click on “Login” button in order to display the destination page.

In order to logout, the user should:

- click on the user icon in the upper right corner of the menu bar



- click on the “Logout” button in the window

A screenshot of the user profile dropdown menu. It shows the user's name 'admin' next to a person icon. Below the name are two buttons: 'Change Password' and 'Logout'.



### 3.2.1 Change password

In order to change the password the user should follow the logout procedure and click on the “Change password” button rather than on the “Logout” button. A window will open:

A screenshot of a web application interface for changing a password. The page title is "Change Password". The navigation bar at the top includes links for SVIM, Monitoring, Indicators, Local action plan, SEC, Bulk upload, Report, Codes and parameters, System, User Manual, and language options (hr, en, it). The main content area contains three input fields: "Old Password", "New Password", and "Confirm Password". The "New Password" field has a strength indicator (a lightning bolt icon). Below the fields is a blue "Change" button. The footer of the page includes the LIFE SEC ADAPT logo, the European Union flag, the text "With the contribution of the LIFE financial instrument of European Union", and the copyright notice "DG-SINA©".

The user will be required to enter the old password and the new password twice, in order to avoid typing errors. The new password will be accepted by the system if it will satisfy the security requirements indicated by the force bar under the new password box.





SVIM Monitoring Indicators - Local action plan - SEC - Bulk upload - Report - Codes and parameters - System - User Manual hr en it

Change Password Change Password

Change Password

.....

.....

Strength: 92%

Confirm Password

Change

With the contribution of the LIFE financial instrument of European Union DG-SINA©

The new password could be also automatically and casually generated by clicking on the button shown in the figure below, by ensuring the new password force.





SVIM Monitoring Indicators - Local action plan - SEC - Bulk upload - Report - Codes and parameters - System - User Manual hr en it

Change Password Change Password

Change Password

.....

.....

Strength: 92%

Confirm Password

Change



  With the contribution of the LIFE financial instrument of European Union DG-SINA©

### 3.2.2 Forgot password

In case a password has been forgotten, the software provides the opportunity to recover it by clicking on “Forgotten password” in the login page.





SVIM SEC - hr en it Login

### Login

Login

User Name

Password

Login

[Forgot Password](#)

  With the contribution of the LIFE financial instrument of European Union DG-SINA©

The user will be then required to enter his e-mail address to which the system will send the new password.





SVIM SEC - hr en it Login

### Request Password

Home > Request Password

Request Password

Email

  With the contribution of the LIFE financial instrument of European Union DG-SINA©





## 4 General layout and user interface elements

The mitigation section of the monitoring system is based on the energy consumptions monitoring, specifically related to fossil fuels. The transition to greenhouse gases emissions is performed through specific emissions factors taking also into account the technologies used for the energy production. The system then returns the emissions in terms of CO<sub>2eq</sub> by simply entering the consumptions per energy source and emission sector. The system currently considers the same type of emission factor for the different user entities in order to ensure homogeneity and comparability. However, it could be easily updated by the administrator or the thematic expert in order to make specific emission factors available for each territorial area.

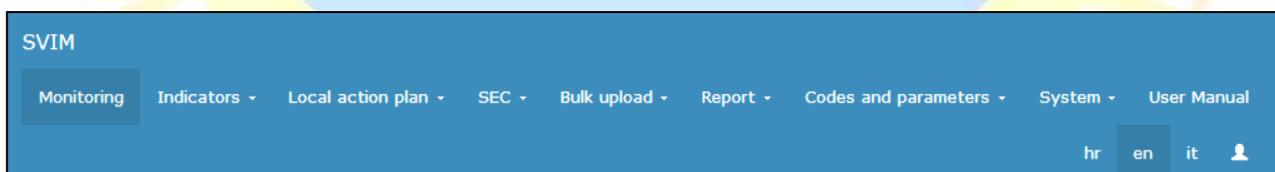
Based on AA.VV, Ancona Municipality Working Group (2017), the adaptation section of the monitoring system is based on the two following different types of adaptation indicators which are defined and shared at international level:

- *process-based indicators*: have the main objective to monitor and evaluate the ongoing adaptation process, thus measuring the progress of the adaptation measures implementation;
- *outcome-based indicators*: have the main objective to investigate if and how the adaptation interventions contribute to the climate change impact and vulnerability reduction, thus measuring the effectiveness of the actions in the achievement of the adaptation goals.

### 4.1 Top bar

The table illustrates the various functions of the menu elements (Table 2).

**Table 2 – Menu elements and related functions**



Menu elements	Function
Monitoring	It includes the monitoring mitigation and adaptation reports, and the information on the local action plans.
Indicators	“Shortcut” that allows the user to access the energy consumption and adaptation data regardless of the monitoring reports.
Local action plan	“Shortcut” that allows the user to access the local action





	plans regardless of the monitoring reports.
Sustainable Energy Community (SEC)	It reports the data of all the SEC entities.
Massive upload	It allows to update data through .csv file.
Report	It allows to analyse data through graphic visualization and query
Decoding tables	It contains all the service tables of the system. User base are allowed to access just a subset.
System	It is accessed only by the administrator and allows to modify and/or add/cancel users and permissions levels.
User manual	It provides the last available version of the user manual.

## 4.2 Languages

The system is set up both in italian (it) and english (en) and is prepared for the development of the croatian version (hr). The transition from a language to another occurs through the specific button in the upper right part of the menu bar.



## 4.3 Mandatory fields

Mandatory fields are marked with a red asterisk.

## 4.4 Main button functions

The list and description of the main function buttons are illustrated here below.

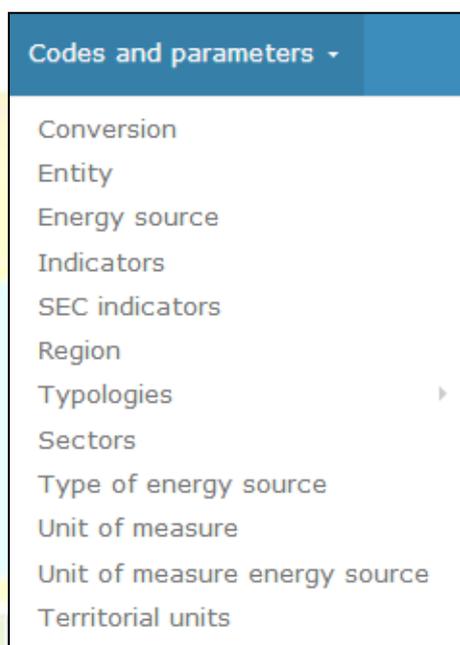
	<b>Export</b> , it allows to export the selected records into different format: excel, word, html, csv and in some cases .pdf or directly to the printer or e-mail
	<b>Search/Look</b> , it allows to open search panels or to visualize details of the selected record
	<b>Filter</b> , it allows to perform search filters, to save or delete them
	<b>Add</b> , it allows to add records at the operating level
	<b>Delet</b> , it allows to delete selected records
	<b>Modify</b> , it allows to modify selected records
	<b>Copy</b> , it allows to copy the selected record



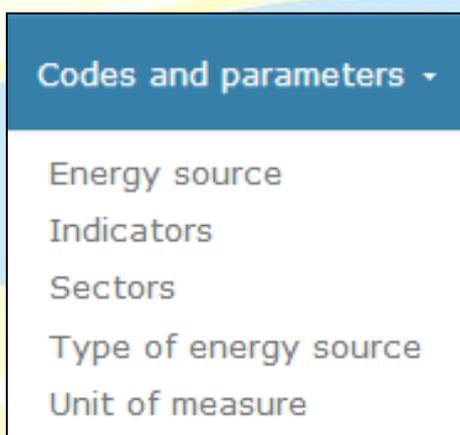


## 5 Codes and parameters

The “Thematic expert” is responsible for the definition of the Codes and parameters tables.



The “User Base” is allowed to display some of the deconding tables from the “Codes and parameters” menu just for consultation, without the right to modify the contents.



Here below all the tables accessible to the “Thematic expert” are listed.





## 5.1 Conversion factors

In this table the conversion factors of consumptions entered in the Mitigation section are listed for the transformation into MWh (unit of measure required by the Covenant of Mayors). There are currently 402 conversion factors per Energy Source and unit of measures. Conversion factors take into account specific national situations (energy mix, fossil fuels characteristics) as they are described in the National Inventory Reports 2017 and 2018 published by ISPRA. The Reports are part of the official submissions of greenhouse gases emissions estimates performed by Italy in the framework of the UNFCCC. The “Thematic expert” has the right to modify, add or delete a conversion factor. The “User Base” is not allowed to display this table.

17

Energy source	From	To	Value
Energia elettrica	J	MWh	.000000000277800
Carbone da coke	Mcal	MWh	.001163000000000
Energia elettrica	MJ	MWh	.000277800000000
Energia elettrica	GJ	MWh	.277800000000000
Energia elettrica	TJ	MWh	277.800000000000011
Energia elettrica	Wh	MWh	.000001000000000
Energia elettrica	kWh	MWh	.001000000000000
Energia elettrica	MWh	MWh	1.000000000000000
Gas naturale	J	MWh	.000000000277800
Gas naturale	GJ	MWh	.277800000000000

## 5.2 Entities

This table lists the administrative Entities joining the system. Only the “Administrator” is allowed to modify, add or delete an entity.





SVIM Monitoring Indicators Local action plan SEC Bulk upload Report Codes and parameters System User Manual

hr en it

### Entity

Entity

Page 1 of 2 Records 1 to 10 of 14

Entity
Comune di Ancona
Comune di Ascoli Piceno
Comune di Fabriano
Comune di Fermo
Comune di Jesi
Comune di Macerata
Comune di Offida
Comune di Pesaro
Comune di San Paolo di Jesi
Comune di Santa Maria Nuova

Page 1 of 2 Records 1 to 10 of 14

With the contribution of the LIFE financial instrument of European Union DG-SINA©

### 5.3 Energy Source

The table lists the Energy Sources currently considered by the System. Each Energy Source is associated to a Code for the massive upload to be used in case of data massive upload through the file import of .csv, from the Type of energy source (see par. 5.9) and from the emission factor CO<sub>2</sub>. Emission factors take into account specific National systems (energy mix, fossil fuels characteristics) as they are described in the National Inventory Reports 2017 and 2018 published by ISPRA. The Reports are part of the official submissions of greenhouse gases emissions estimates performed by Italy in the framework of the UNFCCC. The “Thematic expert” has the right to modify, add or delete a conversion factor. The “User Base” is not allowed to display this table.





SVIM Monitoring Indicators - Local action plan - SEC - Bulk upload - Report - Codes and parameters - System - User Manual

hr en it

### Energy source

Energy source

Page 1 of 3 Records 1 to 10 of 29

	Code for massive upload	Energy source	Type of energy source	MWh to CO2
<input type="checkbox"/>	25	pellet	Biomassa	0
<input type="checkbox"/>	26	cippato	Biomassa	0
<input type="checkbox"/>	1	Energia elettrica	Elettricit� e riscaldamento	0.321324524555583
<input type="checkbox"/>	2	Gas naturale	Gas	0.207695511196029
<input type="checkbox"/>	3	Olio da riscaldamento	Liquidi	0.2757755693017
<input type="checkbox"/>	4	Diesel (Gasolio) - auto	Liquidi	0.265134076768324
<input type="checkbox"/>	5	Carbone	Solidi	0.342447119607955
<input type="checkbox"/>	6	Gas liquido (GPL)	Liquidi	0.236129832
<input type="checkbox"/>	7	Kerosene	Liquidi	0.25884
<input type="checkbox"/>	8	Legna	Biomassa	0

Page 1 of 3 Records 1 to 10 of 29

With the contribution of the LIFE financial instrument of European Union DG-SINA©

## 5.4 Indicators

The table lists the available indicators both for Adaptation and Mitigation sections. Each indicator can be displayed, modified and copied by the ‘Thematic expert’.





SVIM Monitoring Indicators - Local action plan - SEC - Bulk upload - Report - Codes and parameters - System - User Manual hr en it

### Indicators

Page << 1 >> of 17 Records 1 to 10 of 164 10 + -

	Theme	Sector	Typology	Category	Sub category	Indicator	Unit of measure	Territoria
<input type="checkbox"/>	Adaptation	Foreste	Processo			Misure proposte nel regolamento edilizio	N	Comune
<input type="checkbox"/>	Adaptation	Foreste	Processo			Volontari/altre persone coinvolgibili in caso di evento	N	Comune
<input type="checkbox"/>	Adaptation	Risorse idriche	Processo			Misure per il risparmio idrico previste nei protocolli	N	Comune
<input type="checkbox"/>	Adaptation	Foreste	Processo			Misure proposte nel piano incendi boschivi e d'interfaccia	N	Comune
<input type="checkbox"/>	Adaptation	Salute	Processo			Euro investiti in attività di adattamento	€	Comune
<input type="checkbox"/>	Adaptation	Territorio	Processo			Convenzioni/protocolli d'intesa sottoscritti - ambito istituzionale	N	Comune
<input type="checkbox"/>	Adaptation	Territorio	Processo			Convenzioni/protocolli d'intesa sottoscritti - ambito privato	N	Comune
<input type="checkbox"/>	Adaptation	Territorio	Processo			Interventi di monitoraggio della rete reflua sotterranea effettuati	N	Comune
<input type="checkbox"/>	Adaptation	Foreste	Processo			Numero di aree di attesa/centro di accoglienza	N	Comune
<input type="checkbox"/>	Adaptation	Agricoltura	Processo			Spesa in progetti di ricerca sugli impatti dei cambiamenti climatici e l'adattamento	€	Comune

Page << 1 >> of 17 Records 1 to 10 of 164 10 + -

### 5.4.1 Indicator list

The “Adaptation” section currently includes 164 indicators, based on the indicator list provided by the Ancona Municipality, on the European literature and on the indicators used by the partners of the SEC-ADAPT project in order to perform the Vulnerability and Risk assessment.

As regards the “Mitigation” section emissions from the different sectors have been entered.

### 5.4.2 Classify the indicators

Adaptation indicators have been classified on the basis of the sector, the typologies (Process and Outcome), the Outcome categories (Vulnerability and Impact) and the Vulnerability sub-categories (Exposure, Sensitivity, Adaptive capacity).

Vulnerability indicators classification is not always an easy task and could be sometimes subjective, as a consequence of a still evolving conceptual framework from the IPCC 2007 to the IPCC 2014 approach. Some definitions have been changed during time thus making the indicator classification even more difficult. A clear definition of the meanings are therefore required.

### 5.4.3 Add a new indicator

The “Thematic expert” is allowed to add a new indicator, by selecting and entering the information required: Theme (Adaptation or Mitigation), Sector (mandatory), Typology, Category and Sub-category, indicator name (mandatory) unit of measure and the territorial unit (Municipality, census section, etc.).





SVIM Monitoring Indicators Local action plan SEC Bulk upload Report Codes and parameters System User Manual hr en it

### Indicators Add

Theme  Mitigation  Adaptation

Sector \*

Typology

Category

Sub category

Indicator \*

Unit of measure

Territorial units

## 5.5 SEC indicators

The SEC indicators list currently sorts 10 indicators as they have been proposed by the Municipality of Ancona for a SEC summary. Click on  and enter the name in order to add a new indicator.

SVIM Monitoring Indicators Local action plan SEC Bulk upload Report Codes and parameters System User Manual hr en it

### Indicators for SEC

Records 1 to 10 of 10

<input type="checkbox"/>	<input type="checkbox"/>	Indicator
<input type="checkbox"/>	<input type="checkbox"/>	Consumo di energia totale
<input type="checkbox"/>	<input type="checkbox"/>	Produzione da FER totale
<input type="checkbox"/>	<input type="checkbox"/>	Carbon footprint (CO2/anno)
<input type="checkbox"/>	<input type="checkbox"/>	Budget investito per la mitigazione (€/anno)
<input type="checkbox"/>	<input type="checkbox"/>	Budget investito per l'adattamento (€/anno)
<input type="checkbox"/>	<input type="checkbox"/>	Perdite economiche da eventi climatici estremi (€/anno)
<input type="checkbox"/>	<input type="checkbox"/>	Numero di azioni per la mitigazione
<input type="checkbox"/>	<input type="checkbox"/>	Numero di azioni per l'adattamento
<input type="checkbox"/>	<input type="checkbox"/>	Numero di cittadini coinvolti in iniziative di sensibilizzazione
<input type="checkbox"/>	<input type="checkbox"/>	Numero di cittadini beneficiari

Records 1 to 10 of 10

## 5.6 Regions

The table lists all the Italian Regions.





SVIM Monitoring Indicators - Local action plan - SEC - Bulk upload - Report - Codes and parameters - System - User Manual hr en it

### Region

Page << 1 >> of 2 Records 1 to 10 of 20 10

Code for massive upload	code	Name
	1	Piemonte
	2	Valle D'Aosta
	3	Lombardia
	4	Trentino-Alto Adige
	5	Veneto
	6	Friuli Venezia Giulia
	7	Liguria
	8	Emilia-Romagna
	9	Toscana
	10	Umbria

Page << 1 >> of 2 Records 1 to 10 of 20 10

## 5.7 Typologies

This table lists the different typologies of the adaptation indicators: Process-based (implementation state) and Outcome (effectiveness). The “Thematic expert” has the right to modify, add and delete a typology. The “User Base” is not allowed to display this table.

SVIM Monitoring Indicators - Local action plan - SEC - Bulk upload - Report - Codes and parameters - System - User Manual hr en it

### Typologies

Records 1 to 2 of 2 10 + -

			Typology
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Processo
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Risultato

Records 1 to 2 of 2 10 + -

### 5.7.1 Categories

As regards “Outcome-based” indicators two different categories are considered: Impact and Vulnerability. The “Thematic expert” has the right to modify, add or delete a category. The “User Base” is not allowed to display this table.





Typology	Category
Risultato	Impatto
Risultato	Vulnerabilità

### 5.7.2 Sub-categories

As regards “Vulnerability” three sub-categories are considered: Exposure, Sensitivity and Adaptive Capacity. The “Thematic expert” has the right to modify, add or delete a category. The “User Base” is not allowed to display this table.

Category	Sub category
Vulnerabilità	Esposizione
Vulnerabilità	Sensibilità
Vulnerabilità	Capacità adattativa

### 5.8 Sectors

The different relevant sectors have been entered into the system. Reference theme, code for the massive upload and a sorting number are therefore associated. Click on  in order to enter new sectors. The “Thematic expert” has the right to modify, add or delete a category. The “User Base” is not allowed to display this table.





SVIM Monitoring Indicators Local action plan SEC Bulk upload Report Codes and parameters System User Manual hr en it

### Sectors

Records 1 to 22 of 22 All + -

	Code for massive upload	Sectors	Theme	Sorting
<input type="checkbox"/>		1 Edifici comunali	Mitigazione	1
<input type="checkbox"/>		6 Edifici settore terziario	Mitigazione	2
<input type="checkbox"/>		5 Edifici residenziali	Mitigazione	3
<input type="checkbox"/>		2 Illuminazione	Mitigazione	4
<input type="checkbox"/>		4 Industrie non ETS	Mitigazione	5
<input type="checkbox"/>		3 Industrie ETS	Mitigazione	6
<input type="checkbox"/>		8 Flotta municipale	Mitigazione	8
<input type="checkbox"/>		7 Trasporto pubblico	Mitigazione	9
<input type="checkbox"/>		10 Trasporto privato	Mitigazione	10
<input type="checkbox"/>		11 Salute	Adattamento	1
<input type="checkbox"/>		12 Trasporti e infrastrutture	Adattamento	2
<input type="checkbox"/>		13 Risorse idriche	Adattamento	3
<input type="checkbox"/>		14 Industria	Adattamento	6
<input type="checkbox"/>		15 Agricoltura	Adattamento	7
<input type="checkbox"/>		16 Ambiente marino e costiero	Adattamento	9
<input type="checkbox"/>		18 Patrimonio culturale e Turismo	Adattamento	4
<input type="checkbox"/>		19 Foreste	Adattamento	8
<input type="checkbox"/>		20 Territorio	Adattamento	11
<input type="checkbox"/>		9 Altro	Mitigazione	99
<input type="checkbox"/>		22 FER	Mitigazione	11
<input type="checkbox"/>		24 Agricoltura	Mitigazione	12
<input type="checkbox"/>		17 Ecosistemi e biodiversità	Adattamento	10

Records 1 to 22 of 22 All + -

### 5.9 Type of Energy Source

This table lists the different Types of Energy Sources currently taken into account. The correspondence between Typology and Energy Source is reported in the table Energy Source (see par. 5.3). The “Thematic expert” has the right to modify, add or delete a category. The “User Base” is not allowed to display this table.





SVIM Monitoring Indicators - Local action plan - SEC - Bulk upload - Report - Codes and parameters - System - User Manual hr en it

Type of energy source Type of energy source

Records 1 to 7 of 7

	Code for massive upload	Type of energy source
<input type="checkbox"/>		1 Gas
<input type="checkbox"/>		2 Liquidì
<input type="checkbox"/>		3 Solidi
<input type="checkbox"/>		5 Elettricit� e riscaldamento
<input type="checkbox"/>		4 Biomassa
<input type="checkbox"/>		6 Rifiuti
<input type="checkbox"/>		7 Produzione FER

Records 1 to 7 of 7

### 5.10 Unit of Measure

All the Units of Measure both for adaptation and mitigation are reported. The ‘‘Thematic expert’’ has the right to add new ones by entering the Name and Description. The ‘‘User Base’’ can display this table.

SVIM Monitoring Indicators - Local action plan - SEC - Bulk upload - Report - Codes and parameters - System - User Manual hr en it

Unit of measure Unit of measure

Page << 1 >> of 4 Records 1 to 10 of 33

	Code for massive upload	Name	Description
<input type="checkbox"/>		1 J	J (Joule)
<input type="checkbox"/>		2 kJ	kJ (kilo joule)
<input type="checkbox"/>		3 MJ	MJ (Mega joule)
<input type="checkbox"/>		4 GJ	GJ (Giga joule)
<input type="checkbox"/>		5 TJ	TJ (Tera joule)
<input type="checkbox"/>		6 Wh	Wh (Watt/ora)
<input type="checkbox"/>		7 kWh	kWh (kilowatt/ora)
<input type="checkbox"/>		8 MWh	MWh (Megawatt/ora)
<input type="checkbox"/>		9 GWh	GWh (Gigawatt/ora)
<input type="checkbox"/>		10 TWh	TWh (Terawatt/ora)

Page << 1 >> of 4 Records 1 to 10 of 33

### 5.11 Unit of Measure of Energy Source

In this table the correspondence between Energy Source and the Units of Measure allowed for that Energy Source is reported. The ‘‘Thematic expert’’ has the right to modify, add or delete a record for the table. The ‘‘User Base’’ is not allowed to display this table.





SVIM Monitoring Indicators Local action plan SEC Bulk upload Report Codes and parameters System User Manual hr en it

### Unit of measure energy source

Unit of measure energy source

Page 1 of 43 Records 1 to 10 of 423

	Energy source	Unit of measure
<input type="checkbox"/>	Energia elettrica	J
<input type="checkbox"/>	Energia elettrica	kJ
<input type="checkbox"/>	Energia elettrica	MJ
<input type="checkbox"/>	Energia elettrica	GJ
<input type="checkbox"/>	Energia elettrica	TJ
<input type="checkbox"/>	Energia elettrica	Wh
<input type="checkbox"/>	Energia elettrica	kWh
<input type="checkbox"/>	Energia elettrica	MWh
<input type="checkbox"/>	Energia elettrica	GWh
<input type="checkbox"/>	Energia elettrica	TWh

Page 1 of 43 Records 1 to 10 of 423

## 5.12 Territorial Units

Three different territorial units have been currently entered: Municipality, Census section and Basin. The “Thematic expert” has the right to modify, add or delete a record for the table. The “User Base” is not allowed to display this table.

SVIM Monitoring Indicators Local action plan SEC Bulk upload Report Codes and parameters System User Manual hr en it

### Territorial units

Territorial units

Records 1 to 3 of 3

	Territorial unit
<input type="checkbox"/>	Comune
<input type="checkbox"/>	Sezione censuaria
<input type="checkbox"/>	Bacino

Records 1 to 3 of 3





## 6 Monitoring

### 6.1 Monitoring Reports

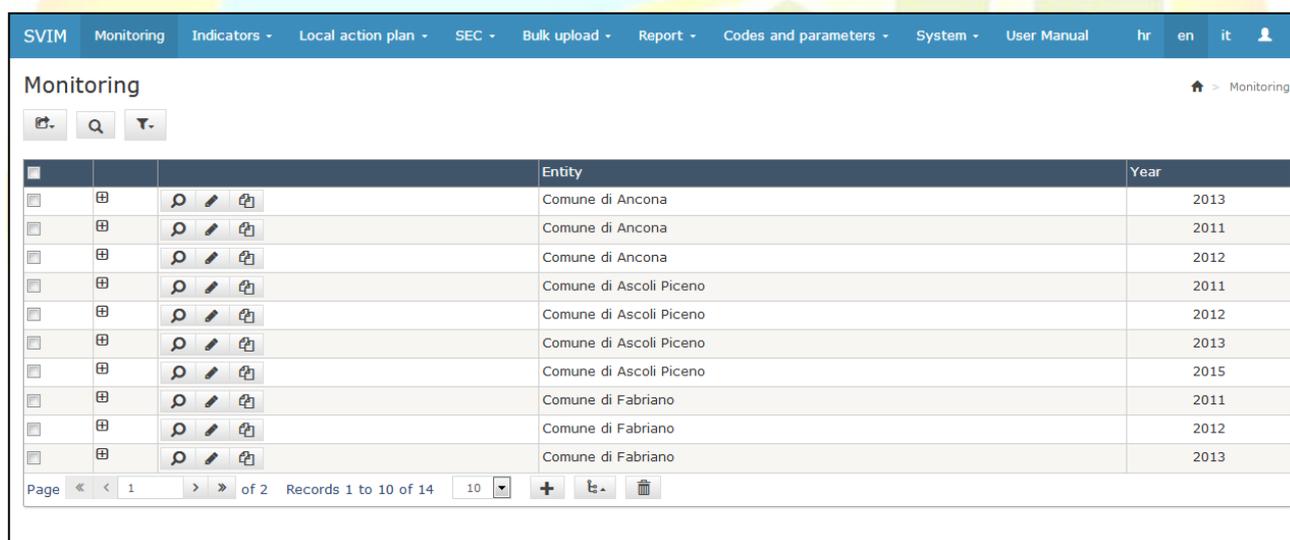
The monitoring data entry is a task of the User.

#### 6.1.1 Display the Reports list

The starting screen allows to display the list of the monitoring Reports already entered.

Each Municipality will be allowed to display only their own Reports. Click on  in order to open the detail view of each Report, with the possibility to display the associated indicators. The Report groups the “Adaptation”, “Consumptions” and “Plans” section for each year.

Keys   allow the user to modify and copy the Reports.



The screenshot shows a web application interface for monitoring reports. The top navigation bar includes 'SVIM' and various menu items like 'Monitoring', 'Indicators', 'Local action plan', 'SEC', 'Bulk upload', 'Report', 'Codes and parameters', 'System', and 'User Manual'. The main content area is titled 'Monitoring' and contains a table with columns for 'Entity' and 'Year'. The table lists reports for various municipalities (Comune di Ancona, Comune di Ascoli Piceno, Comune di Fabriano) across the years 2011, 2012, and 2013. Each row has a grid icon for detail view and edit/copy icons. A pagination bar at the bottom indicates 'Page 1 of 2' and 'Records 1 to 10 of 14'.

			Entity	Year
<input type="checkbox"/>			Comune di Ancona	2013
<input type="checkbox"/>			Comune di Ancona	2011
<input type="checkbox"/>			Comune di Ancona	2012
<input type="checkbox"/>			Comune di Ascoli Piceno	2011
<input type="checkbox"/>			Comune di Ascoli Piceno	2012
<input type="checkbox"/>			Comune di Ascoli Piceno	2013
<input type="checkbox"/>			Comune di Ascoli Piceno	2015
<input type="checkbox"/>			Comune di Fabriano	2011
<input type="checkbox"/>			Comune di Fabriano	2012
<input type="checkbox"/>			Comune di Fabriano	2013

#### 6.1.2 Create a new monitoring Report

A new monitoring Report could be added on the starting screen. Click on  in order to open a new window for the data entry. The red asterisk marks the only mandatory field representing the year of the data (“Year”). The other fields such as “Surface (km<sup>2</sup>)”, “Surface year (km<sup>2</sup>)”, “Population” and “Population year” are optional. The fields “Surface year” and “Population year” refer to the year of the surveys. Click on “Add” in order to add the monitoring Report to the list.





SVIM Monitoring Indicators Local action plan SEC Bulk upload Report Codes and parameters System User Manual hr en it

Monitoring Add Home > Monitoring > Add

**Year \***

**Surface area (km<sup>2</sup>)**

**Surface - year**

**Population**

**Population - year**

With the contribution of the LIFE financial instrument of European Union DG-SINA ©

## 6.2 Adaptation section

Click on  in the initial screen showing the list of the monitoring Reports in order to open the detail window of each Report. Adaptation contents are the first contents displayed on the detail window, with the list of indicators for the selected year.





SVIM Monitoring Indicators Local action plan SEC Bulk upload Report Codes and parameters System User Manual hr en it

Monitoring Monitoring

Entity: Comune di Ancona Year: 2013

Adaptation 13 Consumptions 5 Plans 0

Monitoring	Sector	Indicator	Value	State	Note
Comune di Ancona, 2013	Foreste	Estensione superficie forestale, km <sup>2</sup>	22000		
Comune di Ancona, 2013	Agricoltura	Consumo idrico annuo per irrigazione, m <sup>3</sup>	700		
Comune di Ancona, 2013	Salute	55	9		
Comune di Ancona, 2013	Patrimonio culturale e Turismo	Presenze turistiche nei mesi estivi, N	1400		
Comune di Ancona, 2013	Territorio	Estensione superfici impermeabili, km <sup>2</sup>	10000		
Comune di Ancona, 2013	Salute	Campagne di comunicazione e divulgazione, N	5		
Comune di Ancona, 2013	Salute	110	8000		
Comune di Ancona, 2013	Foreste	Fonti idriche disponibili, N	40		
Comune di Ancona, 2013	Agricoltura	Numero dei bacini di accumulo realizzati, N	5		
Comune di Ancona, 2013	Ambiente marino e costiero	Interventi di ripascimento, N	2		
Comune di Ancona, 2013	Ambiente marino e costiero	Spesa per interventi di ripascimento, €	6000		
Comune di Ancona, 2013	Patrimonio culturale e Turismo	Indice di Erosione dei materiali (R), N	2		
Comune di Ancona, 2013	Patrimonio culturale e Turismo	Percentuale di patrimonio culturale monitorato (beni, siti, sistemi), N	50		
Comune di Ancona, 2013	Patrimonio culturale e Turismo	Indice di Comfort Turistico (TCI), N	2		
Comune di Ancona, 2013	Agricoltura	Perdite economiche da eventi climatici estremi, €/anno	2000		

### 6.2.1 Enter a new indicator

Click on  in order to enter a new indicator. A specific form will open to let the user enter the information required.

The red asterisk marks the mandatory fields (“Entities”, “Sector”, “Indicator”, “Value”).  
The selection of a specific “Sector” will allow to display the list of the associated indicators in the “Indicator” field. Click on the “Add” button in order to add the new indicator to the list.





SVIM Monitoring Indicators Local action plan SEC Bulk upload Report Codes and parameters System User Manual hr en it

Adaptation Add Home > Monitoring > Adaptation > Add

**Monitoring \*** Comune di Ancona, 2013

**Sector \*** Please select

**Indicator \*** Please select

**Value \*** Value

**Class** Class

**Note** Note

Add Cancel

  With the contribution of the LIFE financial instrument of European Union DG-SINA©

### 6.2.2 Possible actions on indicators

The uploaded indicators can be easily managed using the key  which allows to visualize, modify, copy or delete the entered data. The “Copy” function allows the user to rapidly enter a new record for the same indicator and then modify the specific fields.





SVIM Monitoring Indicators Local action plan SEC Bulk upload Report Codes and parameters System User Manual hr en it

### Monitoring

Entity: Comune di Ancona Year: 2013

Adaptation 15 Consumptions 5 Plans 0

Monitoring	Sector	Indicator	Value	State	Note
Comune di Ancona, 2013	Foreste	Estensione superficie forestale, km <sup>2</sup>	22000		
View	Comune di Ancona, 2013	Agricoltura	Consumo idrico annuo per irrigazione, m <sup>3</sup>	700	
Edit	Comune di Ancona, 2013	Salute	55	9	
Copy	Comune di Ancona, 2013	Patrimonio culturale e Turismo	Presenze turistiche nei mesi estivi, N	1400	
Delete	Comune di Ancona, 2013	Territorio	Estensione superfici impermeabili, km <sup>2</sup>	10000	
+	Comune di Ancona, 2013	Salute	Campagne di comunicazione e divulgazione, N	5	
	Comune di Ancona, 2013	Salute	110	8000	
	Comune di Ancona, 2013	Foreste	Fonti idriche disponibili, N	40	
	Comune di Ancona, 2013	Agricoltura	Numero dei bacini di accumulo realizzati, N	5	
	Comune di Ancona, 2013	Ambiente marino e costiero	Interventi di ripascimento, N	2	
	Comune di Ancona, 2013	Ambiente marino e costiero	Spesa per interventi di ripascimento, €	6000	
	Comune di Ancona, 2013	Patrimonio culturale e Turismo	Indice di Erosione dei materiali (R), N	2	
	Comune di Ancona, 2013	Patrimonio culturale e Turismo	Percentuale di patrimonio culturale monitorato (beni, siti, sistemi), N	50	
	Comune di Ancona, 2013	Patrimonio culturale e Turismo	Indice di Comfort Turistico (TCI), N	2	
	Comune di Ancona, 2013	Agricoltura	Perdite economiche da eventi climatici estremi, €/anno	2000	

### 6.3 Consumptions section

Click on “Consumption” within the monitoring Report in order to access the “Consumption” section. Click on  in order to enter a new record.





SVIM Monitoring Indicators - Local action plan - SEC - Bulk upload - Report - Codes and parameters - System - User Manual hr en it

### Consumptions Add

Monitoring \* Comune di Ancona, 2013

Sector \* Please select

Name \* Name

Code Code

Group  Yes  No

Surface area Surface an

Type of energy source \* Please select

Energy source \* Please select

Unit of measure \* Please select

Consumption \* Consumption

Cost Cost

Add Cancel

With the contribution of the LIFE financial instrument of European Union DG-SINA©

The name of the Municipality and the reference year will be already filled-in as the user is currently working within a specific monitoring Report.

The user will be then required to fill-in the following mandatory fields:

- Sector: it indicates the emission sector which has been taken into account and can be selected by means of the drop down menu. Sectors are those entered into the “Sector” decoding table (see par. 5.8);
- Name: it indicates the specific name of the emission source;
- Energy source type: it indicates the group of energy sources taken into account and can be selected by means of the drop down menu. The types of energy sources are those included in the “type of energy source” decoding table (see par. 5.9);
- Energy source: it indicates the energy vector taken into account. The selection of “Type of energy source” is required first in order to make the energy sources associated to that particular type available in the selection. The energy sources are those included in the “Energy source” decoding table (see par. 5.3);
- Unit of measure: it indicates the unit of measure of the entered energy source and can be selected through the drop down menu. The selection of “Energy source” is required first in





order to make the unit of measure associated to that particular type available in the selection. Unit measure are those included in the “Unit of measure” decoding table (see par. 5.11).

In addition it is possible to fill-in the optional fields:

- Code: it can be used in order to introduce a service code associated to the emission source considered;
- Group: it can be checked in order to indicate that the emissive source considered is not a single element but a group;
- Surface: the field can be filled-in in order to indicate the surface of the emission source taken into consideration for subsequent indicators per unit area evaluations or set-up;
- Costs: the field can be filled-in in order to indicate the costs of consumptions associated to the emission source taken into account for subsequent indicators per unit cost evaluations or set-up.

Click on “Add” at the end of the data entry in order to add the consumption to the selected monitoring Report.

#### 6.4 Plans section

Click on “Plans” within the monitoring Report in order to access the “Plans” section.

Click on  in order to enter a new record and access the data entry form: “Title” and “Year” are mandatory fields and “Description” is optional.





SVIM Monitoring Indicators - Local action plan - SEC - Bulk upload - Report - Codes and parameters - System - User Manual hr en it

### Plans Add

Monitoring \* 91

Title \*

Year \*

Description

File - Edit - Insert - View - Format - Table - Tools

Formats - **B** *I* [List Icons]

Powered by TinyMCE

Words: 0

With the contribution of the LIFE financial instrument of European Union DG-SINA©

Click on “Add” at the end of the data entry in order to add the new Plan to the selected monitoring Report.





## 7 Mitigation

It represents a shortcut for the direct input of consumption data and emissions calculation. See par. 6.3 for details. The only difference is that it is necessary to enter the monitoring Report, i.e. the reference year of the consumption.

SVIM Monitoring Indicators Local action plan SEC Bulk upload Report Codes and parameters System User Manual hr en it

Consumptions Add Home > Consumptions > Add

**Monitoring \*** Please select

**Sector \*** Please select

**Name \*** Name

**Code** Code

**Group**  Yes  No

**Surface area** Surface ar

**Type of energy source \*** Please select

**Energy source \*** Please select

**Unit of measure \*** Please select

**Consumption \*** Consumption

**Cost** Cost

Add Cancel

With the contribution of the LIFE financial instrument of European Union DG-SINA©





## 8 Adaptation

It represents a short cut for the direct input of adaptation data (i.e. impacts and vulnerability data). See par. 6.32 for details. The only difference is that it is necessary to enter the monitoring Report, i.e. the reference year of the impact/vulnerability.

“Adaptation” section allows the user to work on adaptation indicators associated to each Municipality. Click on “Indicators” in order to automatically display from the menu the list of indicators used in the various monitoring Reports.

Indicators can be sorted according to specific criteria:

- “per year” by clicking on “Monitoring”,
- “per sector” by clicking on “Sector”,
- “per indicator” by clicking on “Indicator”
- “per value” by clicking on “Value”

SVIM Monitoring Indicators - Local action plan - SEC - Bulk upload - Report - Codes and parameters - System - User Manual hr en it

Adaptation Add Adaptation > Add

**Monitoring \***

**Sector \***

**Indicator \***

**Value \***

**Class**

**Note**

With the contribution of the LIFE financial instrument of European Union DG-SINA©





## 9 Local action plan

It represents a shortcut for the direct input of information associated to the Plans. See par. 6.34 for details. The User is responsible for the new Actions and Plan data entry.

### 9.1 Display the Plans list

Click on “Plans” on the “Local action plan” menu in order to display the list of plans already entered by the Municipality.

37

SVIM Monitoring Indicators Local action plan SEC Bulk upload Report Codes and parameters User Manual hr en it

### Plans

Records 1 to 2 of 2 10 + Add Plans/Actions

Monitoring	Title	Year	Description
Comune di Ancona, 2011	Piano di adattamento 1	2015	
Comune di Ancona, 2012	PAESC	2012	

Records 1 to 2 of 2 10 + Add Plans/Actions

With the contribution of the LIFE Financial instrument of European Union DG-SINA©

### 9.2 Display the Actions list

Click on in order to display the Actions entered for each Plan.





SVIM Monitoring Indicators Local action plan SEC Bulk upload Report Codes and parameters User Manual hr en it

### Plans

Records 1 to 2 of 2 10 + Add Plans/Actions

Monitoring	Title	Year	Description
Comune di Ancona, 2011	Piano di adattamento 1	2015	

Actions 2

Plan	Code	Name	Targets	Theme	Sectors	Monitoring indicators	Start date	Economic resources
Piano di adattamento 1	e01	Implementazione di un sistema di monitoraggio dinamico del patrimonio culturale (HMS)		Adaptation	Patrimonio culturale e Turismo	Indice di Erosione dei materiali (R), Percentuale di patrimonio culturale monitorato (beni, siti, sistemi)		30000
Piano di adattamento 1	e02	Monitoraggio delle condizioni climatiche		Adaptation	Patrimonio culturale e Turismo	Indice di Comfort Turistico (TCI)		5000

Records 1 to 2 of 2 10 + Add Plans/Actions

Comune di Ancona, 2012 PAESC 2012

Records 1 to 2 of 2 10 + Add Plans/Actions

With the contribution of the LIFE financial instrument of European Union DG-SINA©

### 9.3 Add and modify a Plan

Click on in order to enter a new Plan by filling-in the mandatory fields marked with a red asterisk such as “Monitoring”, “Title” and “Year”. The “Description” field is optional. Click on “Add” in order to complete the procedure.





SVIM Monitoring Indicators Local action plan SEC Bulk upload Report Codes and parameters User Manual hr en it

### Plans Add

Monitoring \* Please select

Title \* Title

Year \* Year

Description

File Edit Insert View Format Table Tools

Formats B I

Words: 0

Add Cancel

Powered by TinyMCE

With the contribution of the LIFE financial instrument of European Union

DG-SINA ©

## 9.4 Add and modify the Actions

Click on  in order to add new Actions, from the detail window of each Plan (see par. 9.2).

In this case the action will be directly associated to the current Plan. Click on the “Action” item in the Plans menu if the entry is required: in this case the user should also indicate the reference plan (mandatory field). The “Name” and “Objectives” of the action are therefore required and then it should be classified according to the “Item”, the “Sector” and the “Monitoring indicators”.

Optional information such as “Starting date”, “Responsible authority”, “Reference plans”, “Involved stakeholder” and “Critical issues”, while “Economic resources used”, “Involved citizens” and “Beneficiary citizens” are mandatory fields as part of the SEC indicators.





### Actions Add

[Home](#) > [Actions](#) > [Add](#)

#### Actions

**Plan \***

**Code**

**Name**

**Targets**

**Theme**  Mitigation  Adaptation

**Sectors**

**Monitoring indicators**

**Start date**

**Responsible authority**

**Reference plans**

**Involved stakeholder**

**Critical issues**

**Economic resources used \***  Yes  Not quantifiable/Not known

**Involved citizens \***  Yes  Not quantifiable/Not known

**Beneficiary citizens \***  Yes  Not quantifiable/Not known



With the contribution of the LIFE financial instrument of European Union

DG-SINA©

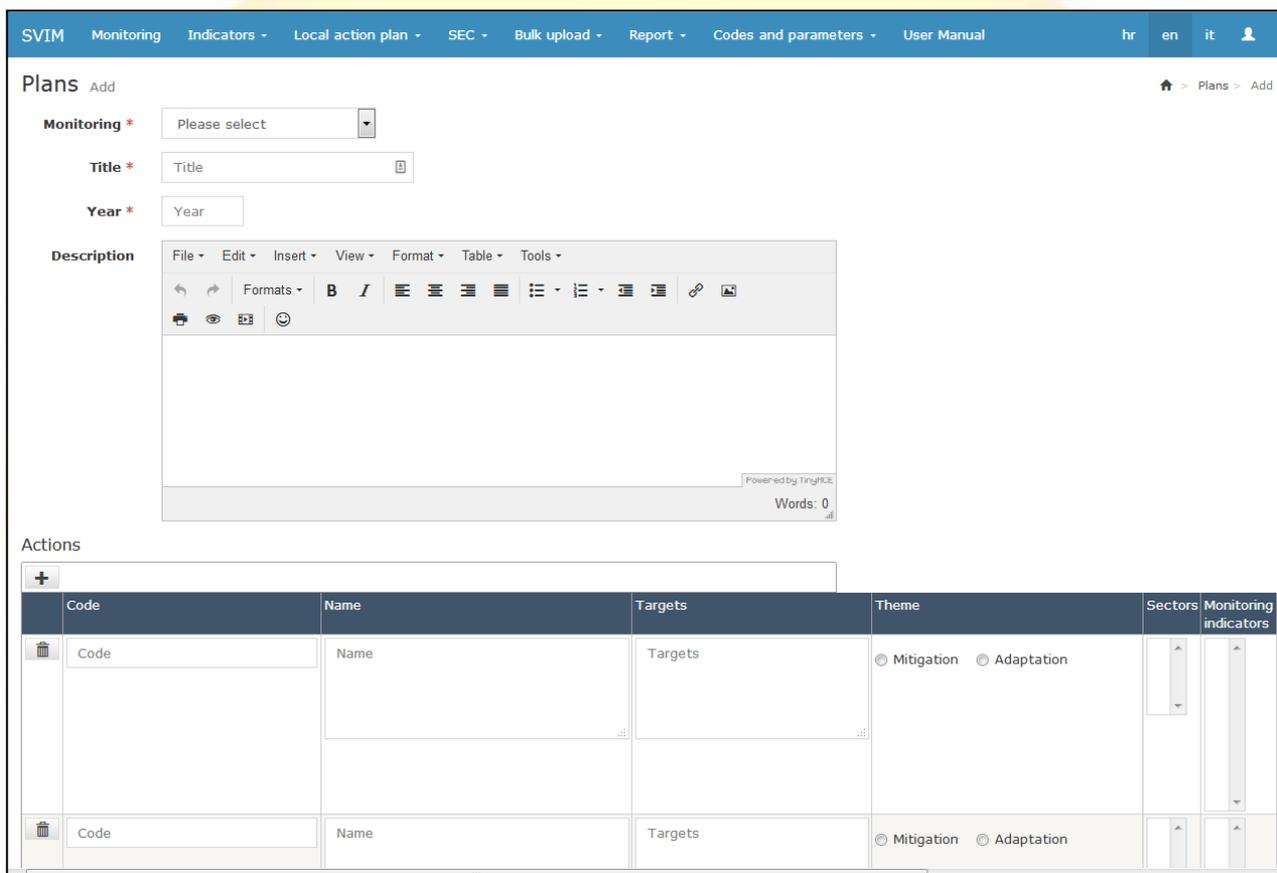




The “Action” format requires to fill-in various optional fields which are highly recommended as they allow to associate significant descriptive information to the action.

## 9.5 Add Plan and Action

Click on  in order to open a window where a simultaneous addition of Plan and Action is allowed.



The screenshot shows the 'Plans Add' form in the SVIM application. The form includes the following fields:

- Monitoring \***: A dropdown menu with 'Please select' as the current value.
- Title \***: A text input field with 'Title' as the placeholder.
- Year \***: A text input field with 'Year' as the placeholder.
- Description**: A rich text editor with a toolbar containing options like Bold, Italic, Text color, Background color, Bulleted list, Numbered list, Indent, Outdent, Link, and Image. The text area is currently empty, and the word count is 'Words: 0'.

Below the form is the 'Actions' section, which contains a table with the following columns: Code, Name, Targets, Theme, Sectors, and Monitoring indicators. The table has two rows, each with a trash icon in the first column. The 'Theme' column has radio buttons for 'Mitigation' and 'Adaptation'. The 'Sectors' and 'Monitoring indicators' columns have vertical scroll bars.





## 10 SEC

### 10.1 Display the SECs

Click on “SEC” from the “SEC” menu in order to display the existing SECs.

A screenshot of the LIFE SEC ADAPT web application interface. The top navigation bar includes links for SVIM, Monitoring, Indicators, Local action plan, SEC, Bulk upload, Report, Codes and parameters, System, and User Manual. The current page is titled "SEC" and shows a list of records. The table has one row with the header "SEC name" and the value "SEC Marche". The interface also includes search and filter icons, a records count of "1 to 1 of 1", and a language selector set to "en".

SEC name
SEC Marche

### 10.2 Display the SEC Entities

Click on  in order to display the Entities belonging to the SEC.





SVIM Monitoring Indicators - Local action plan - SEC - Bulk upload - Report - Codes and parameters - System - User Manual hr en it

### SEC

Records 1 to 1 of 1 10 + -

SEC name	
SEC Marche	

SEC entity 12 SEC indicators 0 SEC files 0

SEC	Entity
SEC Marche	Comune di Ancona
SEC Marche	Comune di Ascoli Piceno
SEC Marche	Comune di Fabriano
SEC Marche	Comune di Fermo
SEC Marche	Comune di Jesi
SEC Marche	Comune di Macerata
SEC Marche	Comune di Offida
SEC Marche	Comune di Santa Maria Nuova
SEC Marche	Comune di Pesaro
SEC Marche	Comune di San Paolo di Jesi
SEC Marche	Comune di Senigallia
SEC Marche	Comune di Urbino

Records 1 to 1 of 1 10 + -

### 10.3 Display the SEC Indicators

Click on  and on “SEC Indicators” in order to display the SEC indicators.





SVIM Monitoring Indicators Local action plan SEC Bulk upload Report Codes and parameters System User Manual hr en it

### SEC

Records 1 to 1 of 1 10 +

SEC name
SEC Marche

SEC entity 12 SEC indicators 9 SEC files 0

SEC	Indicators
SEC Marche	Budget investito per l'adattamento (€/anno)
SEC Marche	Budget investito per la mitigazione (€/anno)
SEC Marche	Carbon footprint (CO2/anno)
SEC Marche	Consumo di energia totale
SEC Marche	Numero di azioni per l'adattamento
SEC Marche	Numero di azioni per la mitigazione
SEC Marche	Produzione da FER totale
SEC Marche	Numero di cittadini coinvolti in iniziative di sensibilizzazione
SEC Marche	Numero di cittadini beneficiari

Records 1 to 1 of 1 10 +

With the contribution of the LIFE financial instrument of European Union DG-SINA©

## 10.4 Create a new SEC

A new SEC can be created by the “Thematic expert”. Click on  in the starting screen of the SEC menu in order to create a new SEC.

SVIM Monitoring Indicators Local action plan SEC Bulk upload Report Codes and parameters System User Manual hr en it

### SEC

Records 1 to 1 of 1 10 +

SEC name
SEC Marche

Records 1 to 1 of 1 10 +

With the contribution of the LIFE financial instrument of European Union DG-SINA©





Enter the name of the new SEC in the opening form.

SVIM Monitoring Indicators Local action plan SEC Bulk upload Report Codes and parameters System User Manual

hr en it

SEC Add

SEC name \*

Add Cancel

With the contribution of the LIFE financial instrument of European Union DG-SINA©

### 10.5 Link a new Entity to the SEC

The “Thematic expert” can link a new Entity to the SEC from the menu SEC – Entities. The list of Entities is available in the associated decoding table (see par. 5.2).

SVIM Monitoring Indicators Local action plan SEC Bulk upload Report Codes and parameters System User Manual

hr en it

SEC entity Add

SEC \*

Entity \*

Add Cancel

With the contribution of the LIFE financial instrument of European Union DG-SINA©

### 10.6 Link a new indicator to the SEC

The “Thematic expert” can link a new Indicator to the SEC from the SEC/Indicator window. The list of SEC Indicators is available in the associated decoding table (see par. 5.5).





SVIM Monitoring Indicators Local action plan SEC Bulk upload Report Codes and parameters System User Manual hr en it

### SEC indicators Add

SEC \*

Indicators \*

With the contribution of the LIFE financial instrument of European Union DG-SINA©



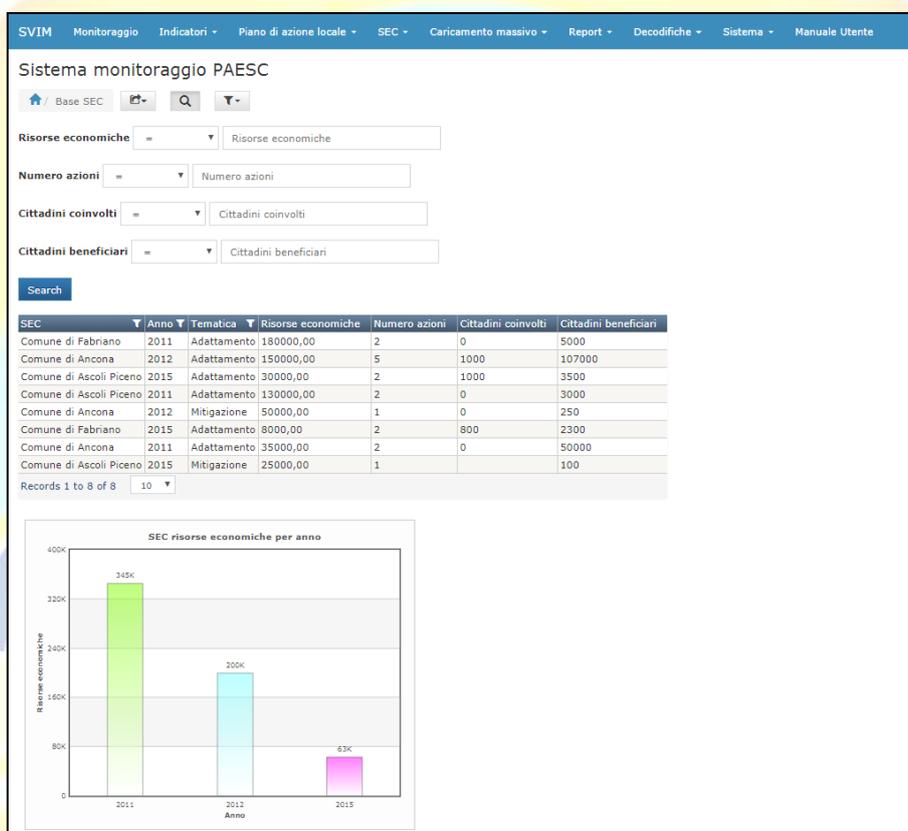


## 11 Report

The “Report” section allows to display pre-defined graphs based on the mitigation or adaptation data entered by the single Entity or the entire SEC.

Select “SEC – Base” from the Report menu in order to access the visualization form of SEC indicators previously defined (see par. 5.5). The system allows to perform queries for the selection of specific data (i.e. values exceeding specific thresholds) and apply filters on “SEC”, “Year” and “Theme” fields in order to visualize significant data.

47



Select “Mitigation – Consumptions” from the Report Menu in order to access the page illustrated here below.

The top side of the monitoring system page allows to search and perform specific selections by filtering consumptions and/or emissions values. The graphs automatically update and the results can be exported through .xls or .pdf format.

Data can also be directly filtered by sorting them per “Year”, “Sector” and “Energy Source” in the table. Also in this case graphs automatically update and the results can be exported through .xls or .pdf format.





Furthermore, it is also possible to sort the data in the table by clicking on the fields headers. Hold the button “Ctrl” in order to sort on the basis of more fields.

SVIM Monitoraggio Indicatori Piano di azione locale SEC Caricamento massivo Report Decodifiche

### Sistema monitoraggio PAESC

Consumi/Produzione

Consumo (MWh) = Consumo (MWh)

Emissioni CO2 (t) = Emissioni CO2 (t)

Search

Entità	Anno	Settore	Fonte energetica	Consumo (MWh)	Emissioni CO2 (t)
Comune di Fabriano	2011	Trasporto privato	Benzina	88,36	23,33
Comune di Fabriano	2011	Edifici residenziali	Olio da riscaldamento	93,58	25,81
Comune di Fabriano	2011	Edifici comunali	Gas naturale	47,62	9,89
Comune di Fabriano	2011	Edifici residenziali	Gas naturale	95,25	19,78
Comune di Fabriano	2012	Edifici comunali	Gas naturale	52,39	10,88
Comune di Fabriano	2012	Trasporto privato	Benzina	97,24	25,67
Comune di Fabriano	2012	Edifici residenziali	Olio da riscaldamento	93,58	25,81
Comune di Fabriano	2012	Edifici residenziali	Gas naturale	95,25	19,78
Comune di Fabriano	2013	Edifici comunali	Gas naturale	57,15	11,87
Comune di Fabriano	2013	Edifici residenziali	Gas naturale	114,30	23,74

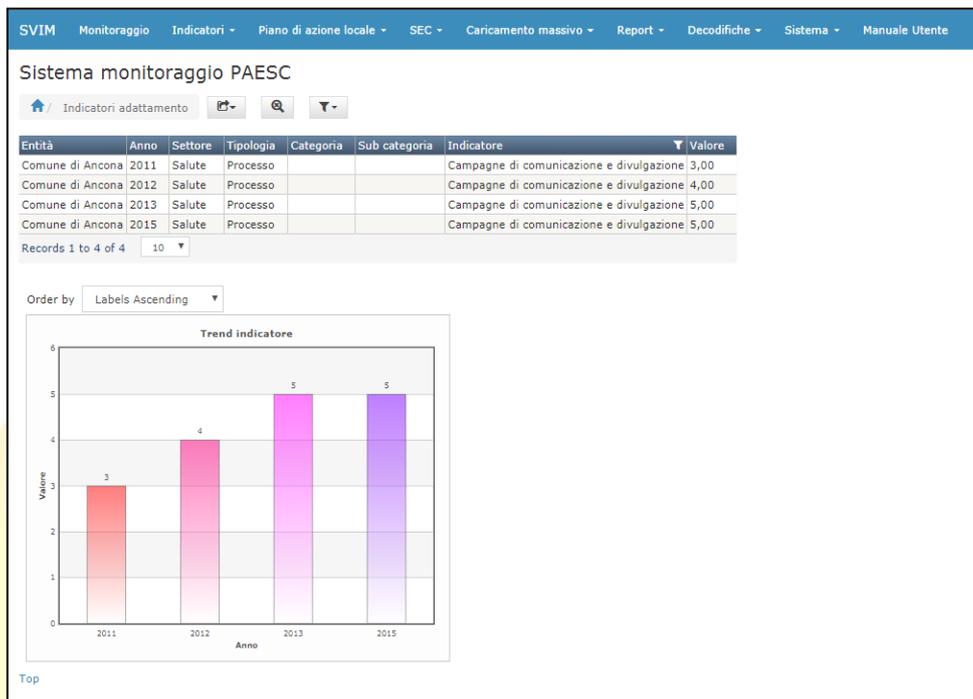
Page 1 of 2 Records 1 to 10 of 16

#### Consumi per Tipologia

Tipologia	Consumo (MWh)
Edifici residenziali	756,67
Edifici comunali	210,5
Trasporto privato	273,07

Select “Adaptation – Indicators trend” from the Report menu and select the indicator in order to display the historical indicator trend. Also in this case the graphs automatically update and the result can be exported through .xls or .pdf format.





Select “Dashboard” in order to access a series of pre-defined graphs that can be customized by the user. Click on the graphs in order to access all the functionalities foreseen by the items “Adaptation – Indicators trend”, “Mitigation – Consumptions” or “SEC – Base” from the Report menu.





SVIM Monitoraggio Indicatori Piano di azione locale SEC Caricamento massivo Report Decodifiche Sistema Manuale Utente

### Sistema monitoraggio PAESC

Base SEC

Risorse economiche = Risorse economiche

Numero azioni = Numero azioni

Cittadini coinvolti = Cittadini coinvolti

Cittadini beneficiari = Cittadini beneficiari

Search

SEC	Anno	Tematica	Risorse economiche	Numero azioni	Cittadini coinvolti	Cittadini beneficiari
Comune di Fabriano	2011	Adattamento	180000,00	2	0	5000
Comune di Ancona	2012	Adattamento	150000,00	5	1000	107000
Comune di Ascoli Piceno	2015	Adattamento	30000,00	2	1000	3500
Comune di Ascoli Piceno	2011	Adattamento	130000,00	2	0	3000
Comune di Ancona	2012	Mitigazione	50000,00	1	0	250
Comune di Fabriano	2015	Adattamento	8000,00	2	800	2300
Comune di Ancona	2011	Adattamento	35000,00	2	0	50000
Comune di Ascoli Piceno	2015	Mitigazione	25000,00	1		100

Records 1 to 8 of 8 10

SEC risorse economiche per anno

Anno	Risorse economiche (K)
2011	345
2012	200
2015	63



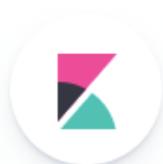


## 12 Analytics tool

The “Analytics tool” allows to display graphs and conduct visual analytics based on the mitigation or adaptation data entered by the single Entity or the entire SEC.

In order to open the Dashboard click on Report and then Dashboard. Insert your credentials (user:svim and password: svimrosa246) and click on “Log in”.

51



# Welcome to Kibana

Your window into the Elastic Stack

**Username**

  
**Password**





You will be redirected to the home section of the analytics tool, click on the button “Dashboard” in order to access to pre-defined dashboards.

**Add Data to Kibana**  
Use these solutions to quickly turn your data into pre-built dashboards and monitoring systems.

- APM**  
APM automatically collects in-depth performance metrics and errors from inside your applications.  
[Add APM](#)
- Logging**  
Ingest logs from popular data sources and easily visualize in preconfigured dashboards.  
[Add log data](#)
- Metrics**  
Collect metrics from the operating system and services running on your servers.  
[Add metric data](#)
- Security analytics**  
Centralize security events for interactive investigation in ready-to-go visualizations.  
[Add security events](#)

**Add sample data**  
[Load a data set and a Kibana dashboard](#)

**Upload data from log file**  
[Import a CSV, NDJSON, or log file](#)

**Use Elasticsearch data**  
[Connect to your Elasticsearch index](#)

**Visualize and Explore Data** | **Manage and Administer the Elastic Stack**

Select “Svim Dashboard”:

**Dashboards** [Create new dashboard](#)

Search...

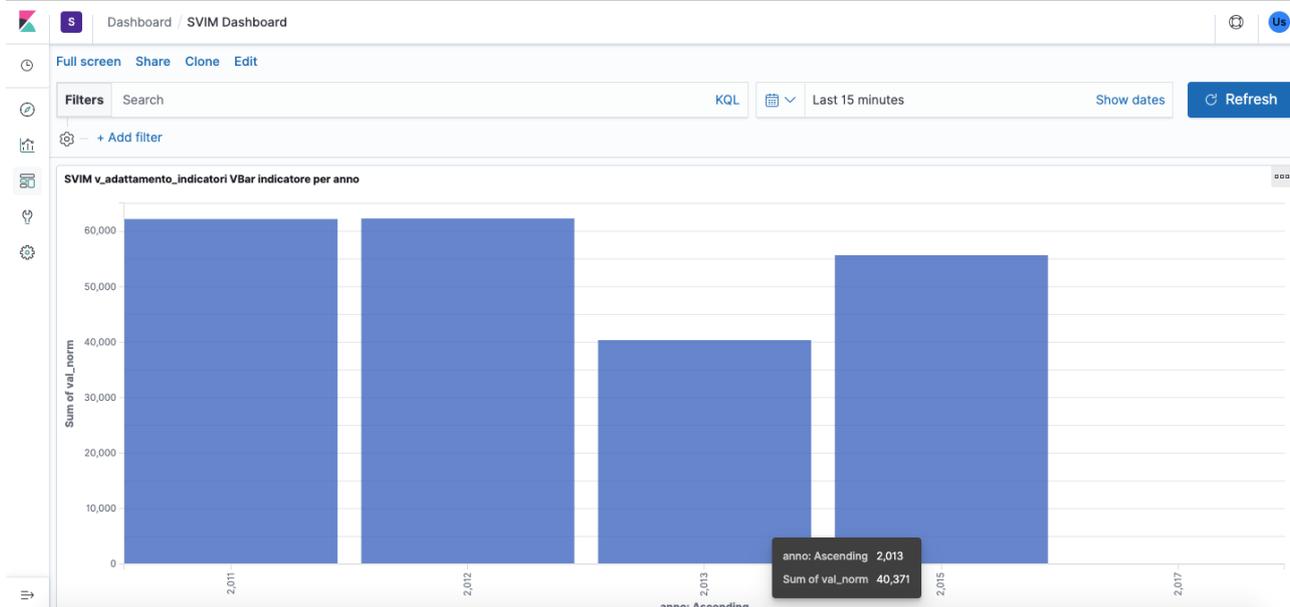
<input type="checkbox"/>	Title	Description	Actions
<input type="checkbox"/>	SVIM_Dashboard		<a href="#">Edit</a>
<input type="checkbox"/>	SVIM v_adattamento_indicatori Dashboard		<a href="#">Edit</a>
<input type="checkbox"/>	SVIM v_base_sec dashboard		<a href="#">Edit</a>
<input type="checkbox"/>	SVIM v_consumi dashboard		<a href="#">Edit</a>

Rows per page: 10

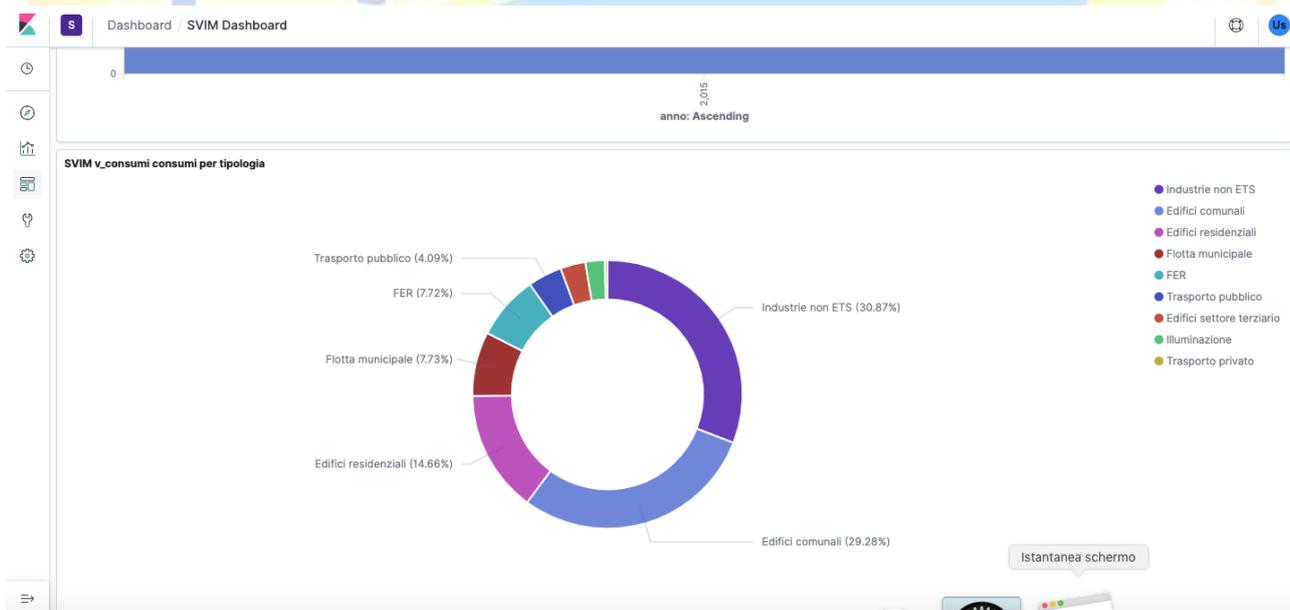




You will see various pre-defined dynamic graphs. Dashboards can be filtered further by entering a search query, changing the time filter, or clicking on the elements within the visualization.

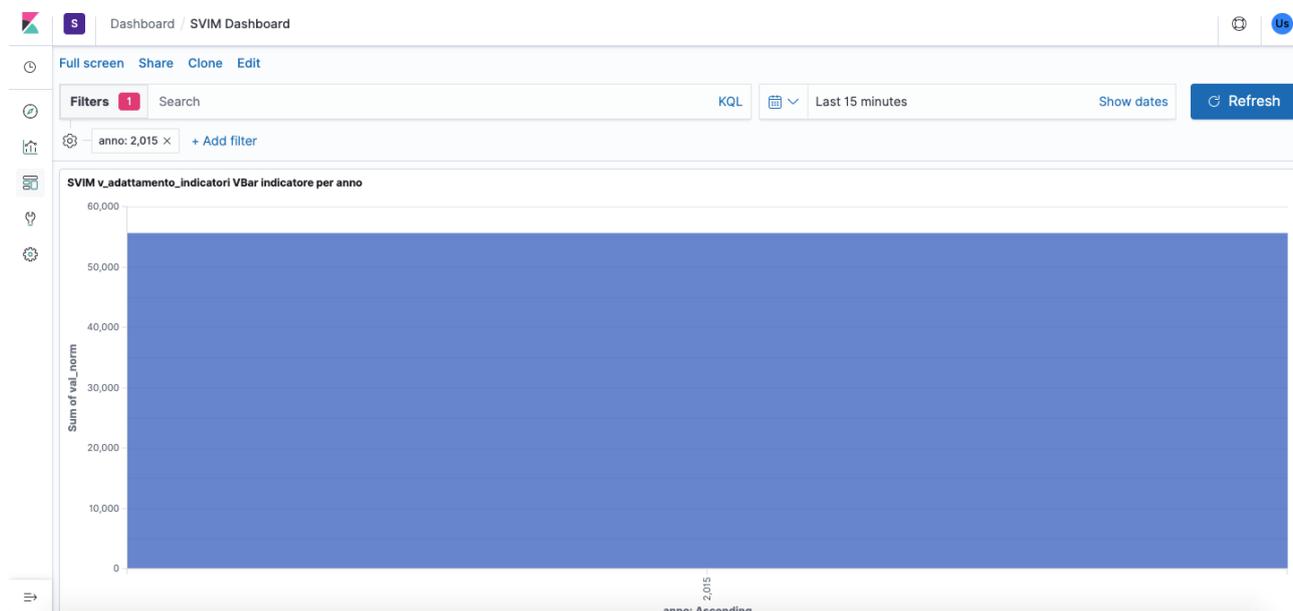


For example, if you click on a particular color segment in the histogram, the analytics tool will allow you to filter on the significant term that the segment represents. For example you can click on the histogram of the “indicators per year” and automatically update all the graphs with the selected year. In the screenshot below you can see the graph “consumption per tipologia” filtered for the year 2015.



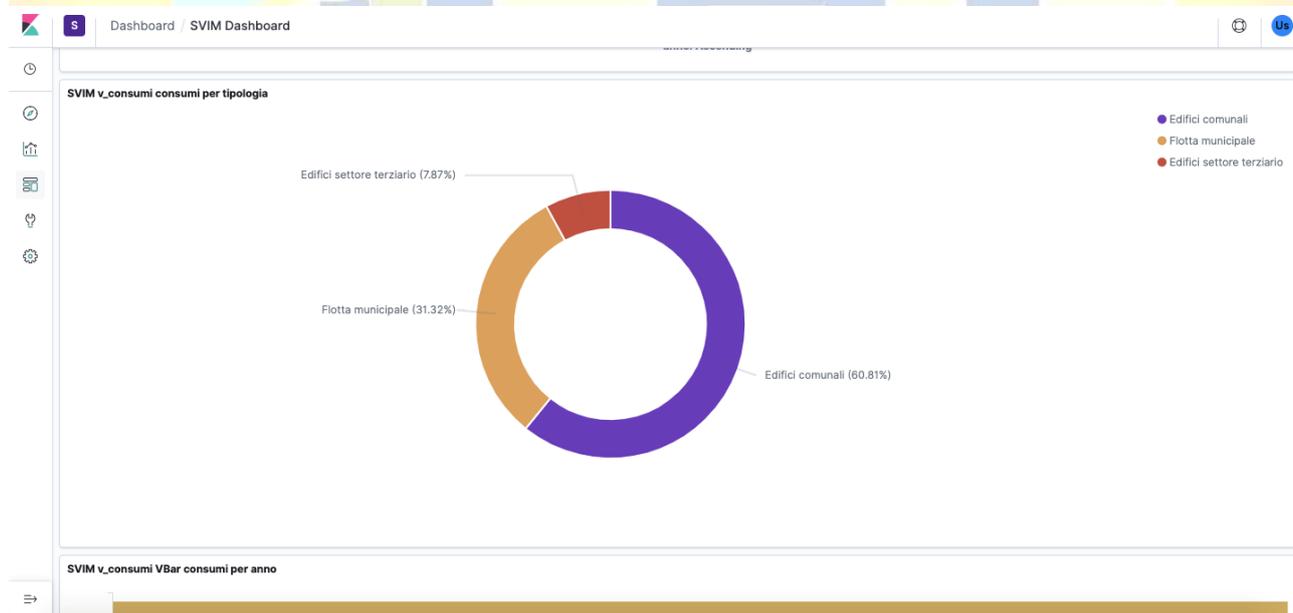


You can see active filters on top of the analytics tool:



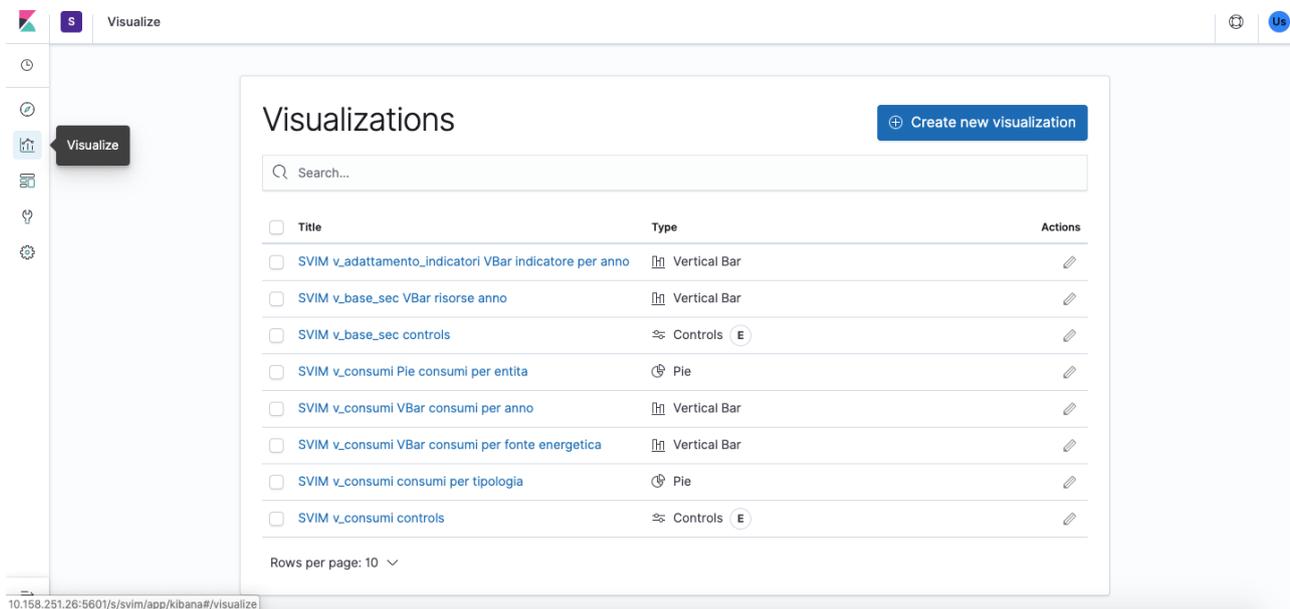
54

In the graph below you can see data filtered by “entity keyword”=”Comune di Ancona” and year 2011.



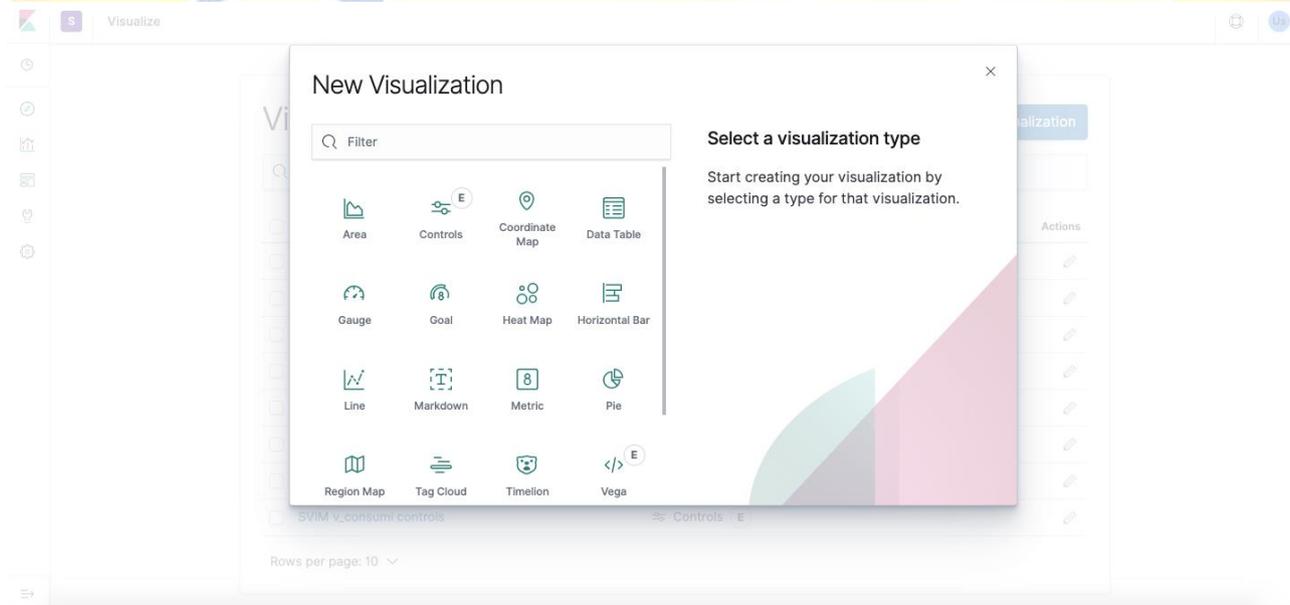


More graphs can be created or existing ones customized clicking on the “visualize” button:



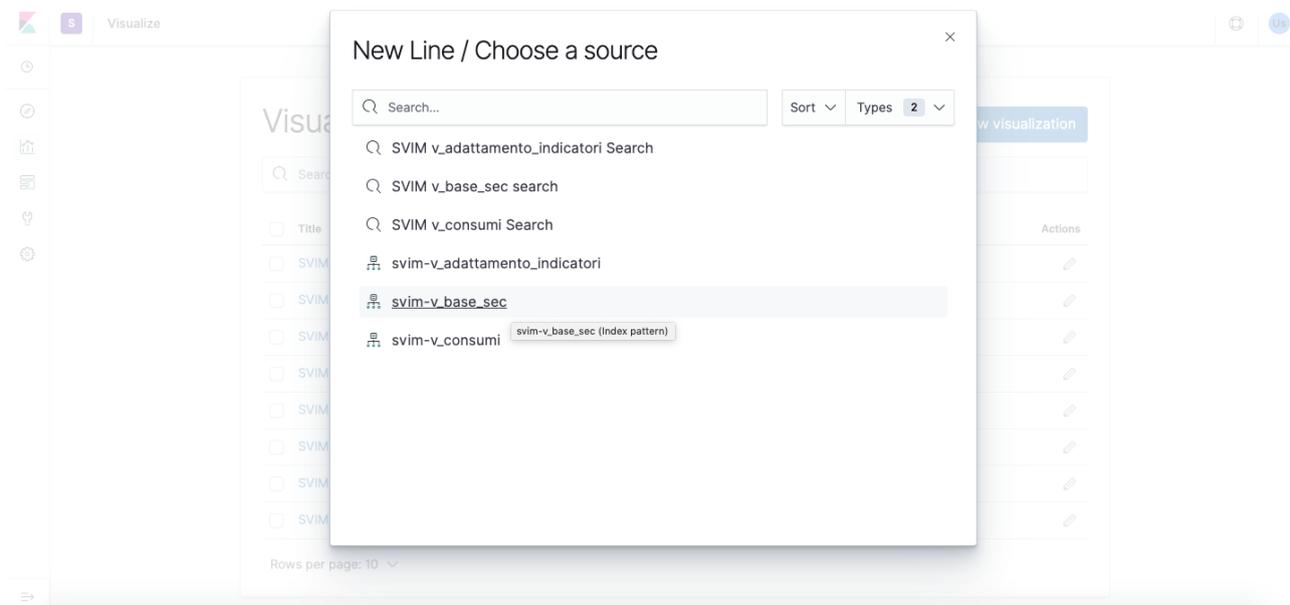
In the screenshot above you can see active visualizations (graphs), clicking on each one you can see the graph and modify it. In order to create a new visualization you can click on “create new visualization”.

You can select many different graphs:

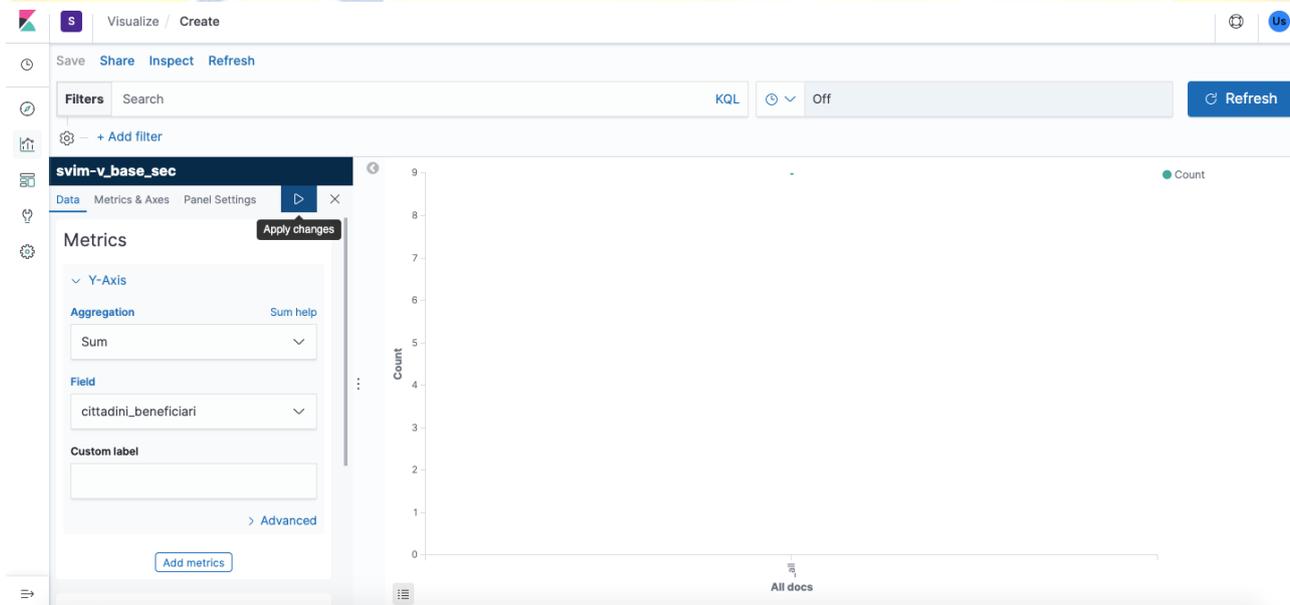




Select the one appropriate for your data visualization (eg. We'll create a line graph representing number of beneficiary citizens per year). Click on “Line” and select “svim-v\_base\_sec” as data source:

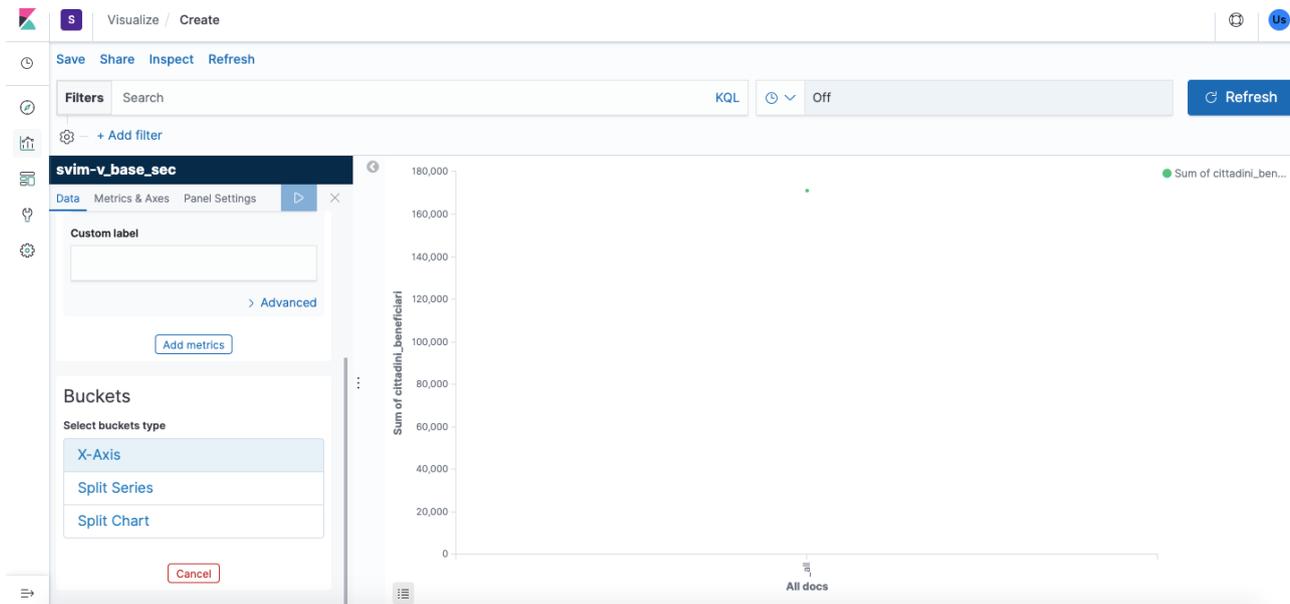


In the Y-axis metric select “Sum” as aggregation and “cittadini\_beneficiari” as field and click on apply changes:

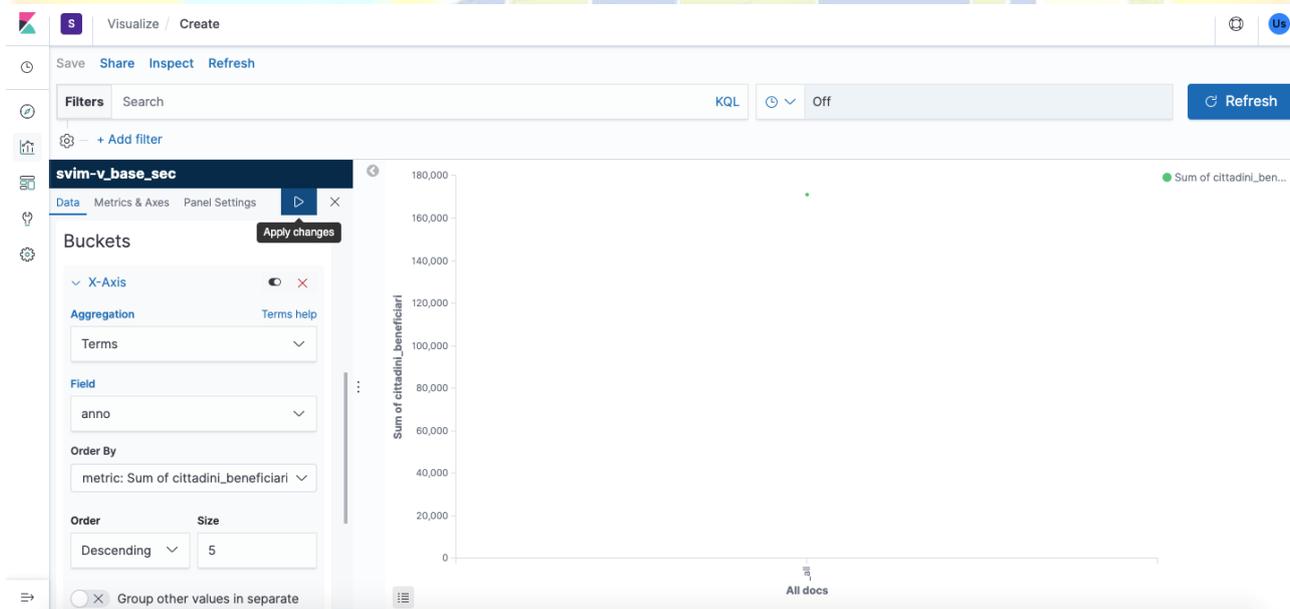


In the “buckets” section select X-Axis:



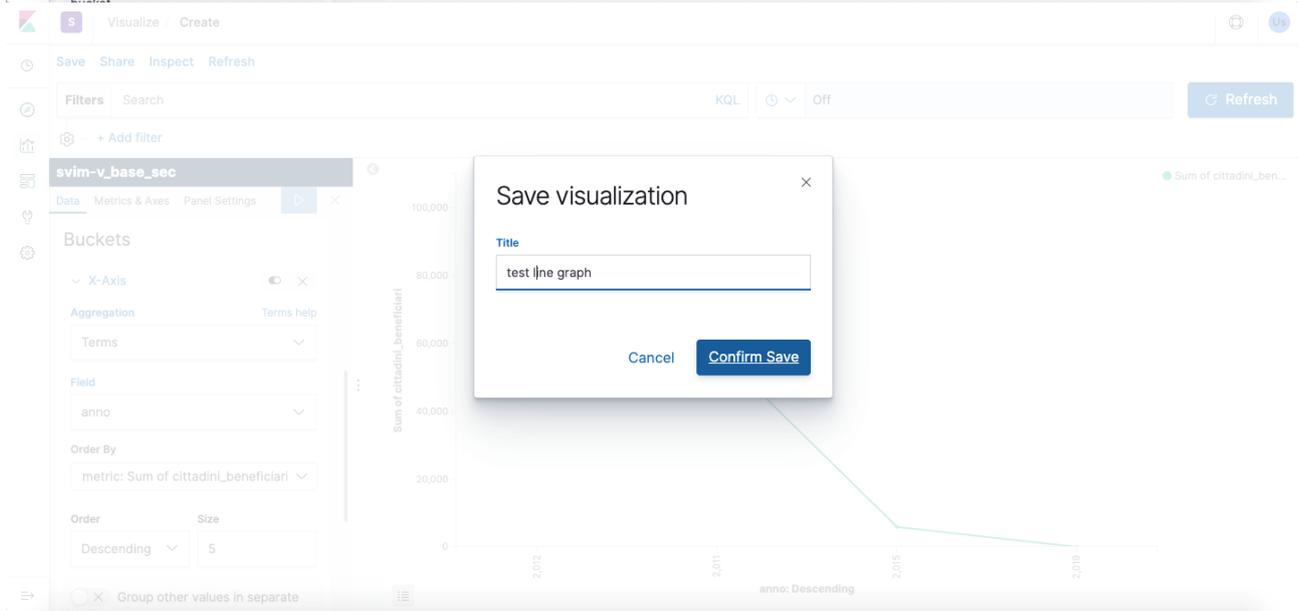
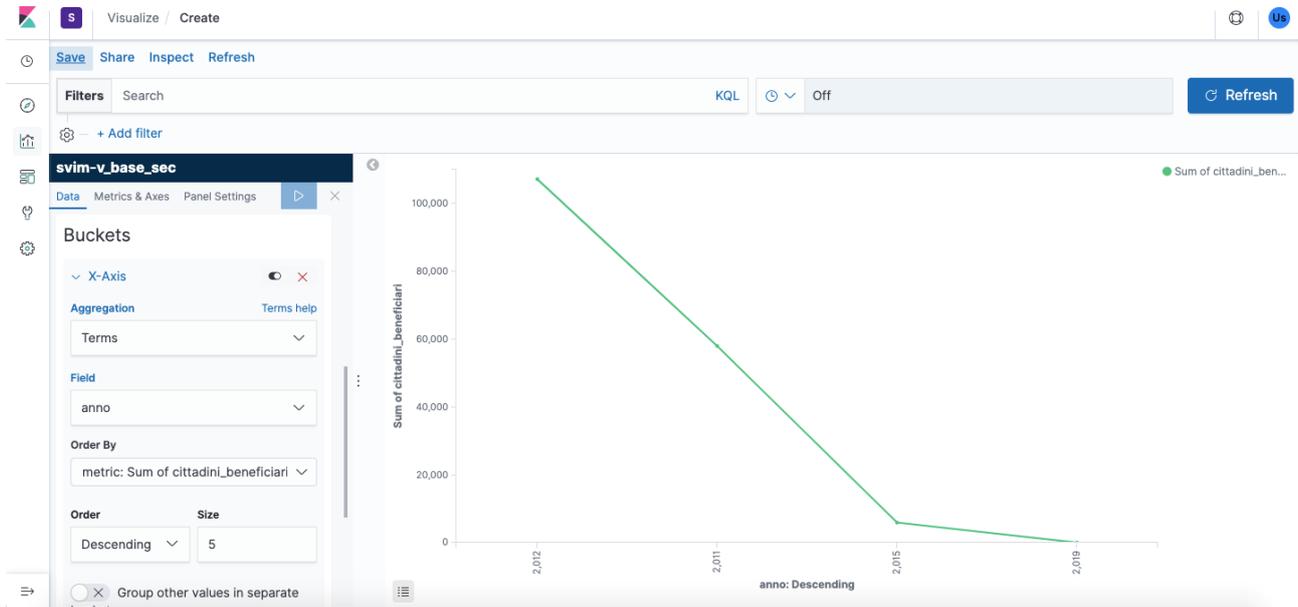


Select “Term” as aggregation and “anno” as field, then click again on the apply changes button:



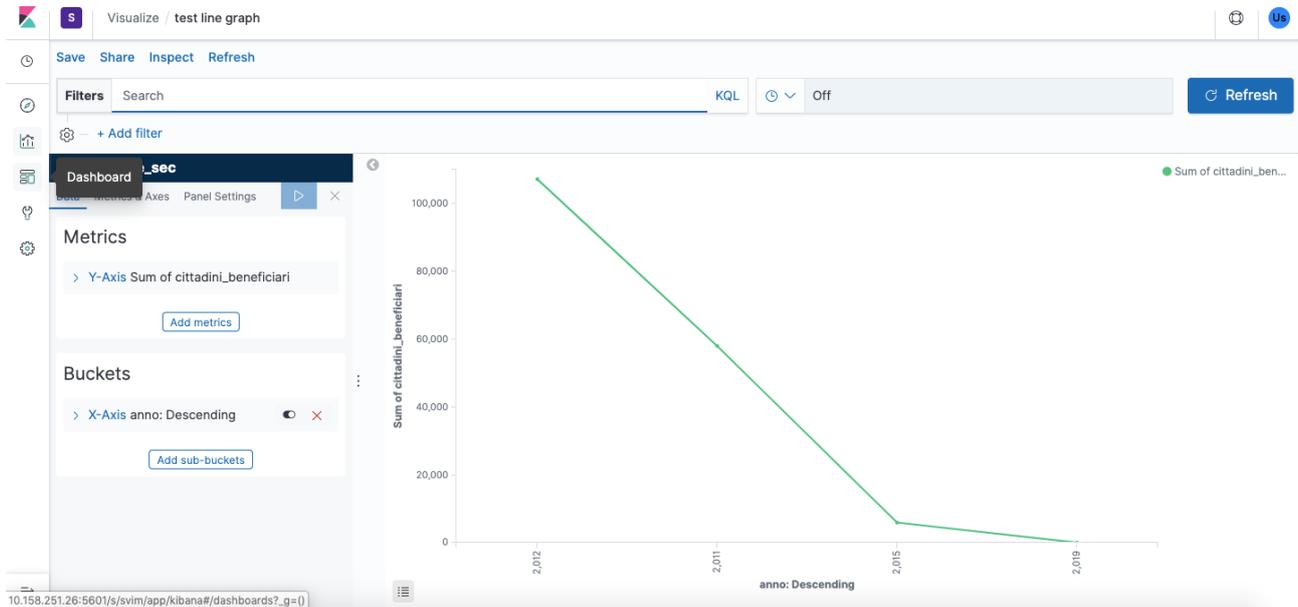
Done! You’ve just created a new graph! Click on save and choose a name for your visualization:





Let's add it on the dashboard. Click on dashboard and select "SVIM Dashboard":

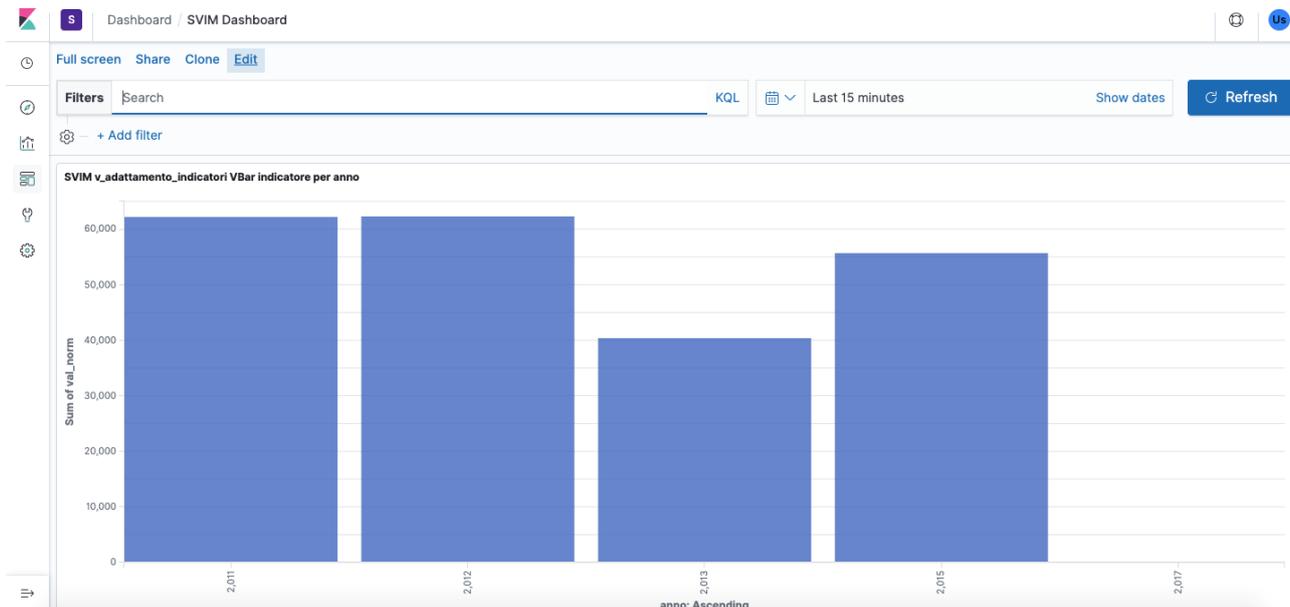




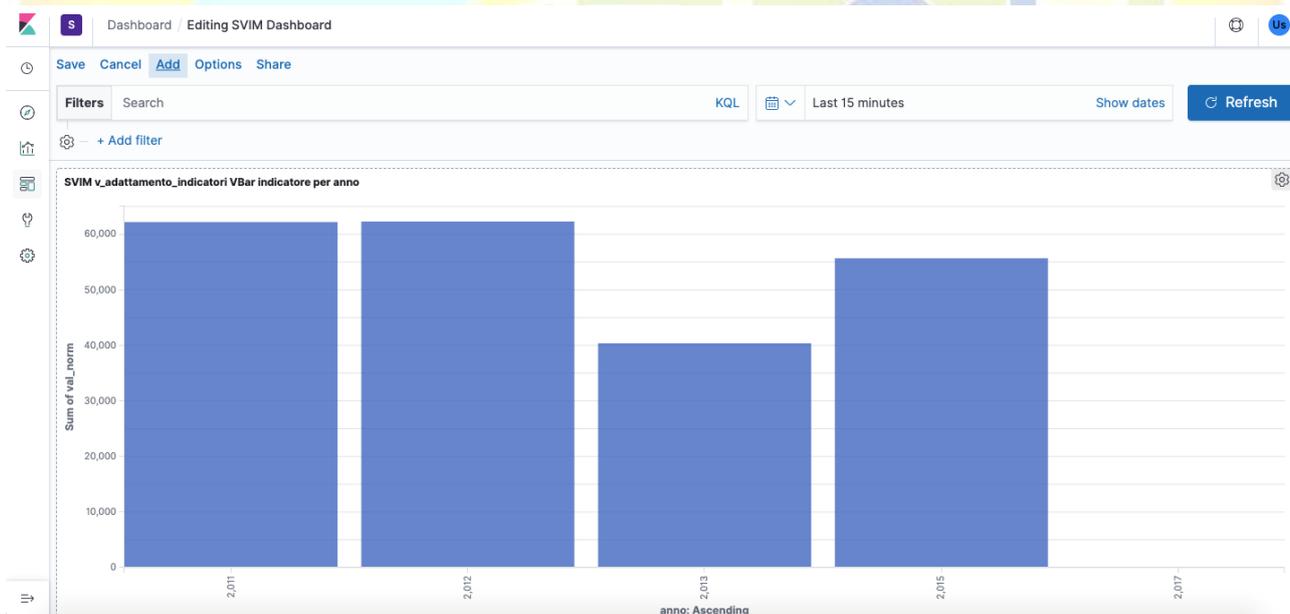
Title	Description	Actions
<input type="checkbox"/> <a href="#">SVIM Dashboard</a>		
<input type="checkbox"/> <a href="#">SVIM v_adattamento_indicatori Dashboard</a>		
<input type="checkbox"/> <a href="#">SVIM v_base_sec dashboard</a>		
<input type="checkbox"/> <a href="#">SVIM v_consumi dashboard</a>		

Now click on “edit”:



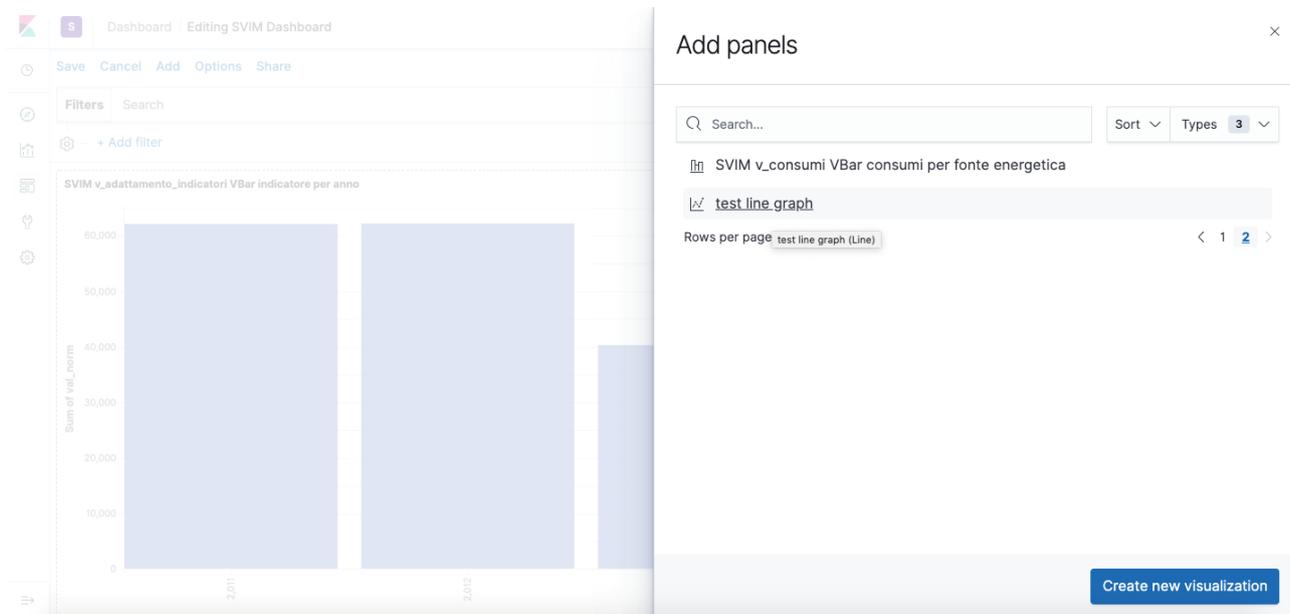


Then click on “Add”:

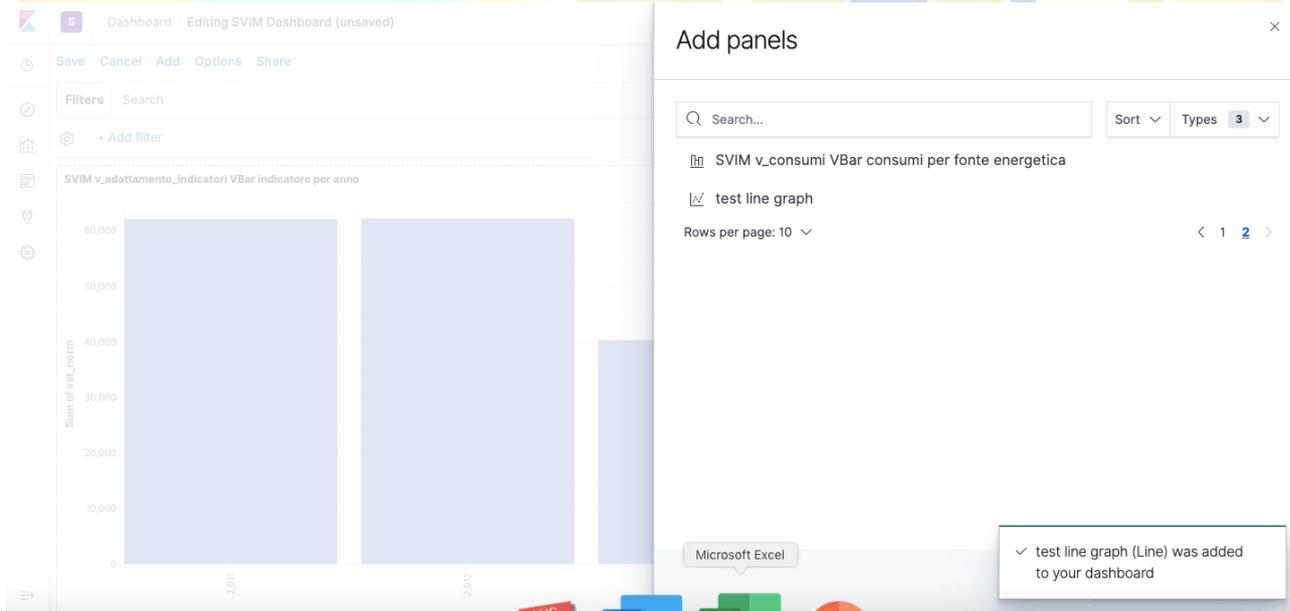


Search for your saved visualization and click on it:



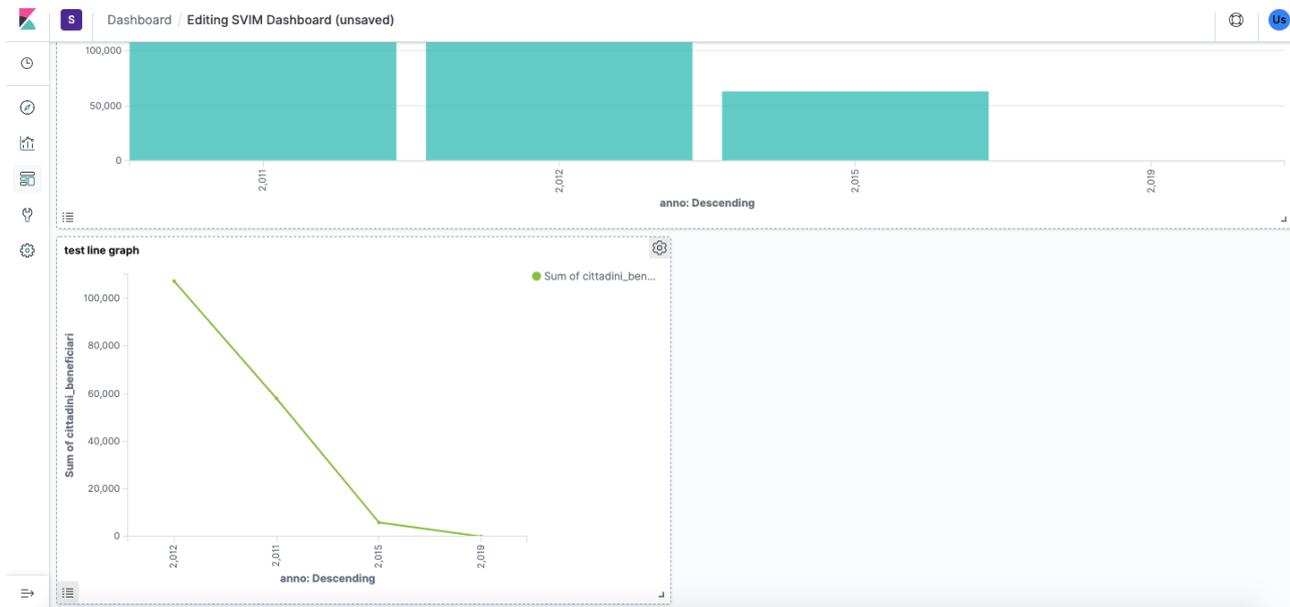


The system displays a message saying that the graph was added to your dashboard:

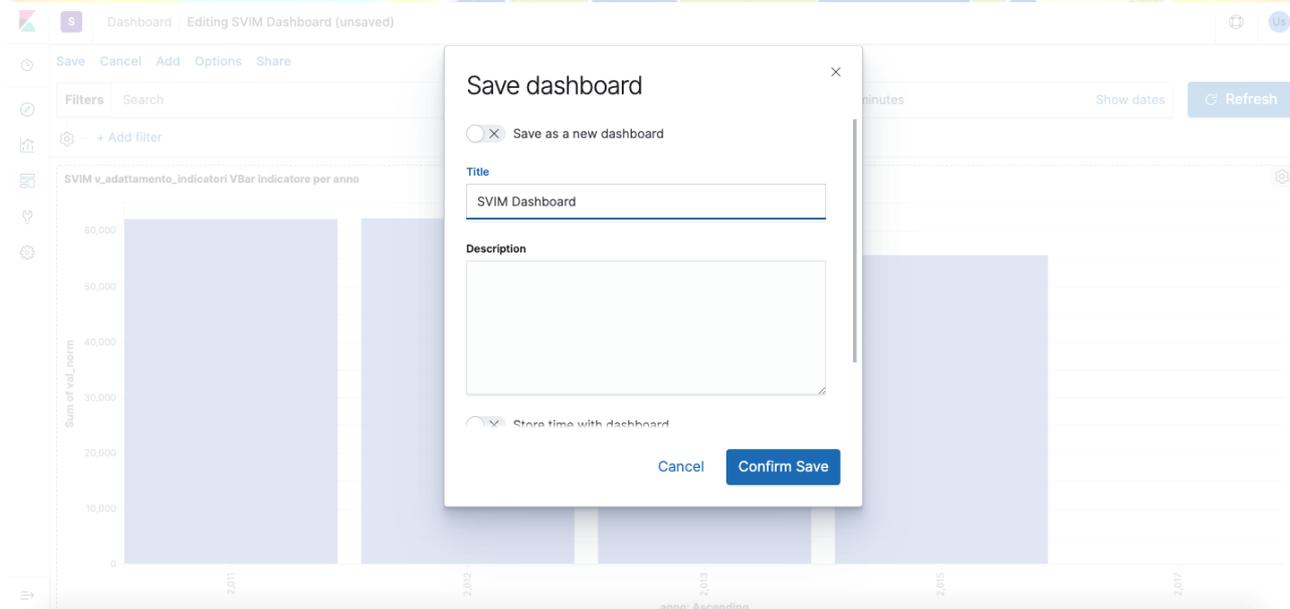


Close the panel and go back to your dashboard, the line graph is at the bottom of the dashboard:





You can resize your graphs and move them in the dashboard. When your done you have to click on “Save” button in the header area of the dashboard:



Detailed guidelines for the visual tool can be found here:  
<https://www.elastic.co/guide/en/kibana/current/index.html>

