



LIFE 15 IPE IT 013



# Monitoring the air quality plans actions: environmental accountability

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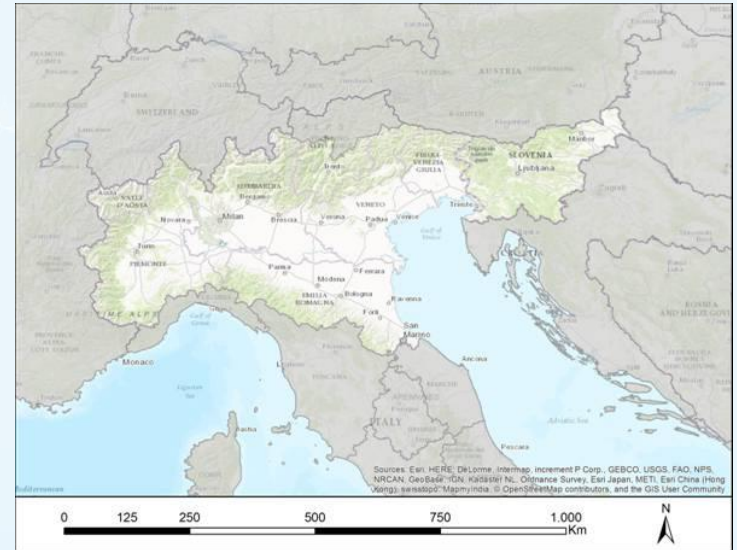
**ERVET**

# PREPAIR aims at the preparation of instruments for managing and monitoring an "Integrated" problem

Prepair Action A2 aims at the preparation of a common data set of actions/measures and of a common system for the periodic upgrading of the actions/measures

The data set will contain a list and quantitative data about all actions/measures planned by the regional/local Air Quality plans and by the PREPAIR project itself

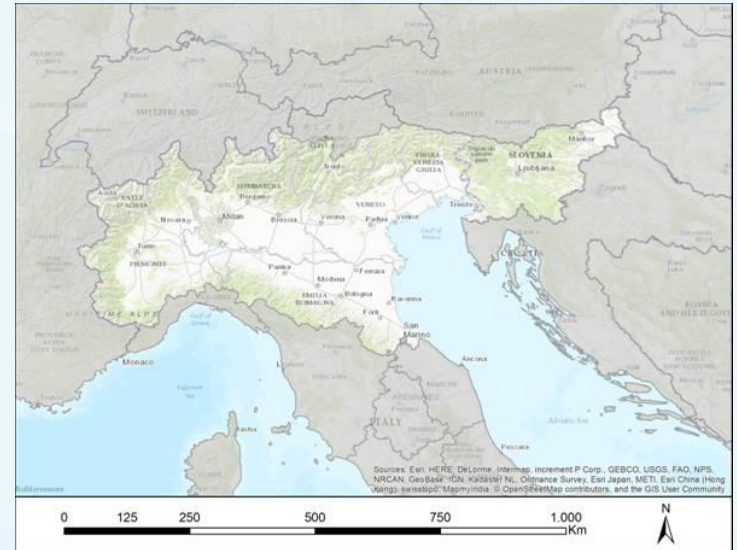
The regional Air Quality plans are the starting point and the main reference policy instrument for preparing and describing policies for Air Quality



# PREPAIR aims at the preparation of instruments for managing and monitoring an "Integrated" problem

## Integrated, what does it mean?

- Integrating different regional administrations
- Integrating different territories and different policies
- Integrating different administrative levels
- Integrating different sectors





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# Air Quality plans are very ambitious policy instruments themselves

Air Quality (AQ) plans are to be functional to describe the Air Quality policies.

Air quality policies are to be designed and described according to geographical peculiarities of the territories, main environmental pressure factors, political priorities, etc.

AQ plans include actions connected to:

- Different sectors and/or competent departments within the administration
- Different other sectorial plans
- Planning or regulation processes at different administrative or regulatory levels
- Use of resources from different sources and related planning/programming instruments (UE structural funds, national funds, regional funds, etc.)
- Possible different role of other administrations, or stakeholders



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# An “integrated” system for managing and monitoring actions included in AQ plans has strong potentialities

## Possible functions of an integrated monitoring system

### At the Po basin level

- Describing, evaluating and reporting about common policies at the Po Basin level.
- Provide common tools that are functional to all regions
- Aggregation of data and monitoring indicators at different territorial levels.

### At regional level

- Describing and managing each action planned by the AQ plan or other planning instruments
- Monitoring implementation, results and effectiveness of actions, and collecting related data
- Enabling communication between different departments and different administrations (regional, local)
- Make the efforts and the results accountable versurs policy makers, stakeholders, citizens.
- Enabling communication, engagement, co-responsibility





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**PREPAIR A2 Action will produce different tools composing a common managing and monitoring system**

### Deliverables

- 1 dataset of actions and measures for the Po Valley Region with indicators planned by the regional/local AQPs and by the IP itself and a Monitoring Protocol to evaluate the impact of the measures
- a web based platform for collecting the data for the accountability of measures + technical handbook

### Operational tools to be delivered

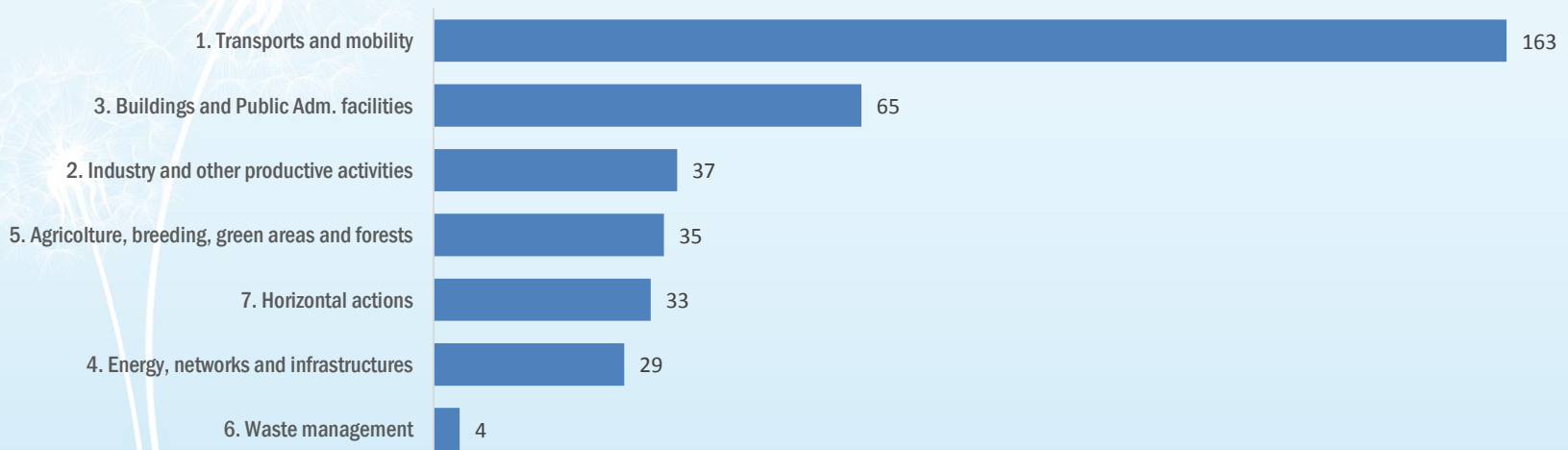
- Collection of actions planned through AQ plans
- Common catalogue of actions
- Models for descriptions of measures and actions
- Features for structuring the monitoring of actions
- Catalogue of indicators for monitoring implementation of actions and their results.
- Input data for monitoring environmental impacts

# Collecting the common dataset of the actions

## OVERALL DATA SET OF ACTIONS

- Actions collected from AQ plans of partner regions + National measures + sub-national measures
- A total of 366 actions composing the current draft of the data set.

Overall dataset of actions - Concentration by sector

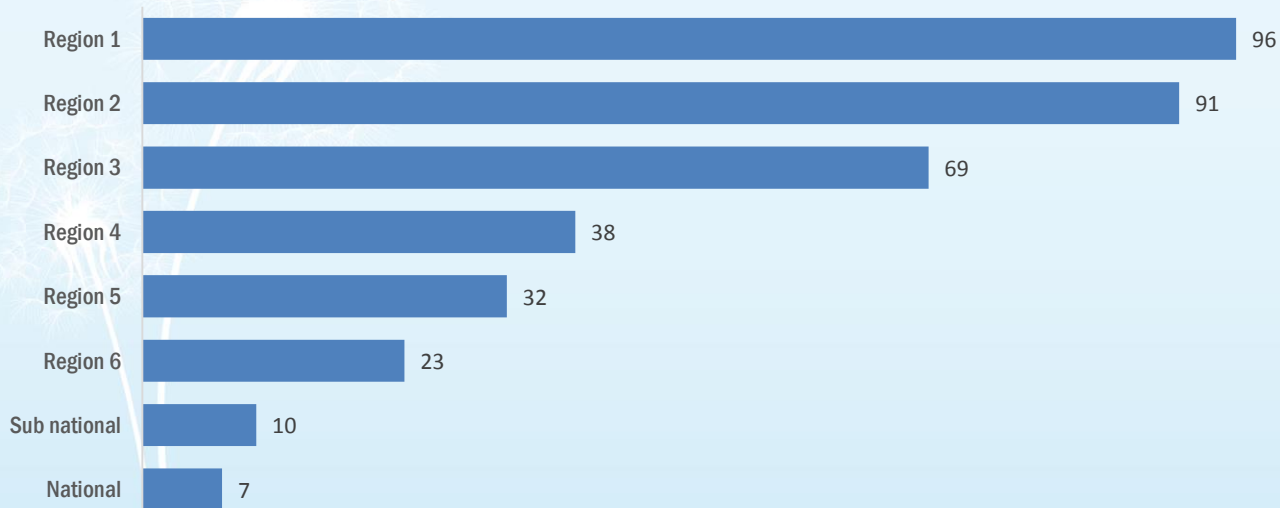


# Collecting the common dataset of the actions

## OVERALL DATA SET OF ACTIONS

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Overall dataset of actions - Concentration by territory





# Building the common Catalogue of actions

## Catalogue structures by

- Sectors (competencies, organization, responsibility of implementation of actions)
- Measures (technical purposes of the actions)
- Typologies of actions (policy instrument, level of competence = object of monitoring)

Sector	Measure	Typology of action	Policy instrument	Competent body
3. Buildings and Public Administration facilities	303. Energy and environmental renovation of public buildings	30301. Regional regulatory acts to assure targets of Directive 2012/27/UE	Regulatory act	Region
		30302. Regional regulatory acts aimed at promoting NZEB buildings (new of renovated)	Regulatory act	Region
		30303. Regional regulatory act to assure public posting of buildings energy performance certificates	Regulatory act	Region
		30304. Regional incentives for improvement of energy performance of public buildings or residential public buildings	Public financing act	Region
		30305. Regional incentives for promoting production of thermal energy from not emitting RES	Public financing act	Region
		30306. Regional incentives for promoting production of thermal energy by cogeneration systems	Public financing act	Region
		30306. Regional incentives for promoting connection of public buildings to remote heating systems	Public financing act	Region



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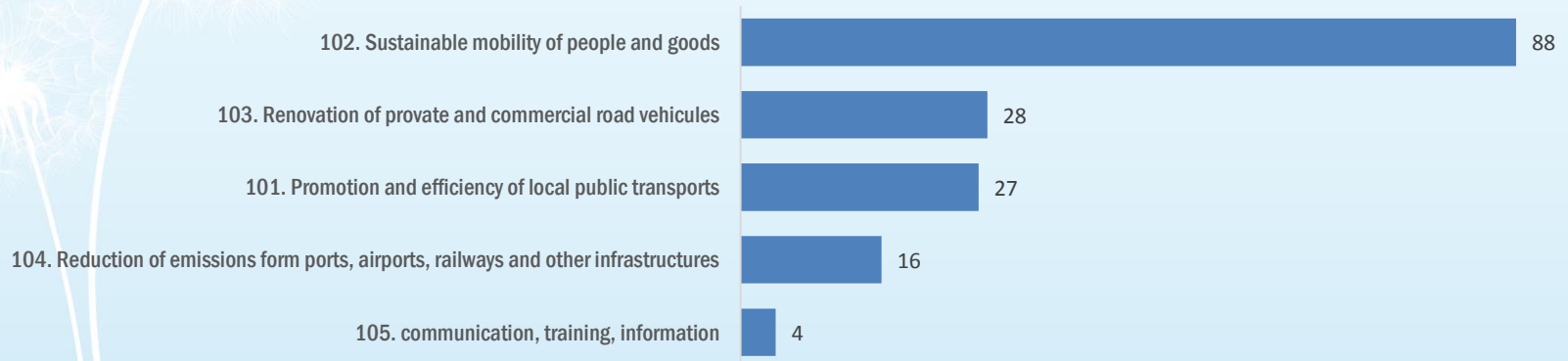


# Organising the dataset

An example:  
distribution of measures of the sector “Transports and mobility”

Currently the sector counts for 163 actions included in the dataset.

Sector "Transports and mobility" - Concentration by measure

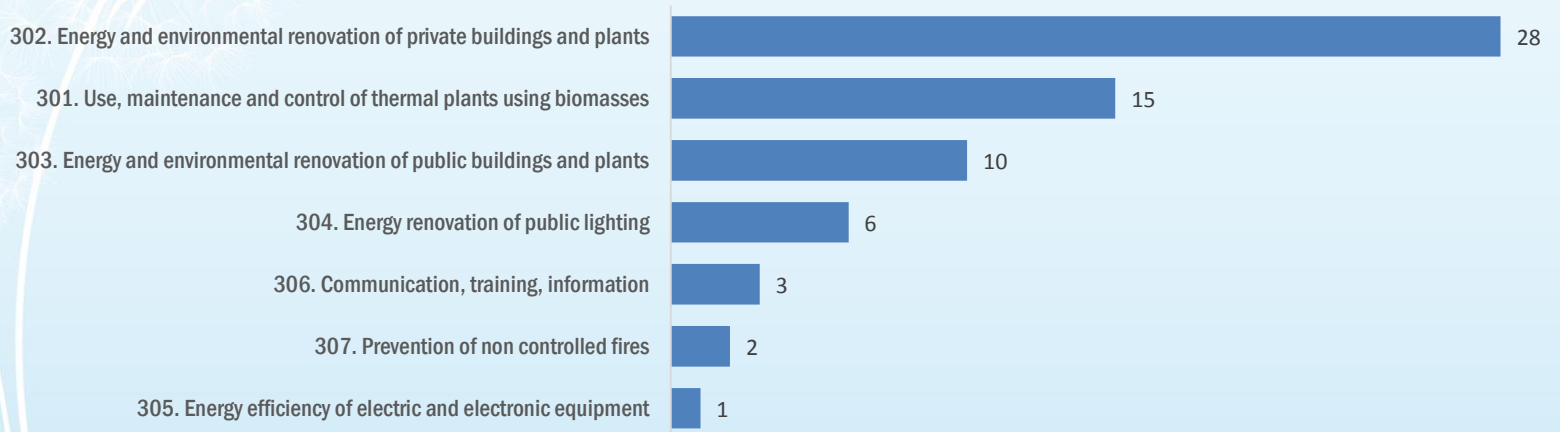


# Organising the dataset

An example: distribution of measures of the sector “buildings and public administration facilities”

Currently the sector counts for 65 actions included in the dataset.

Sector "Buildings and Public Administratin facilities" - Concentration by measure





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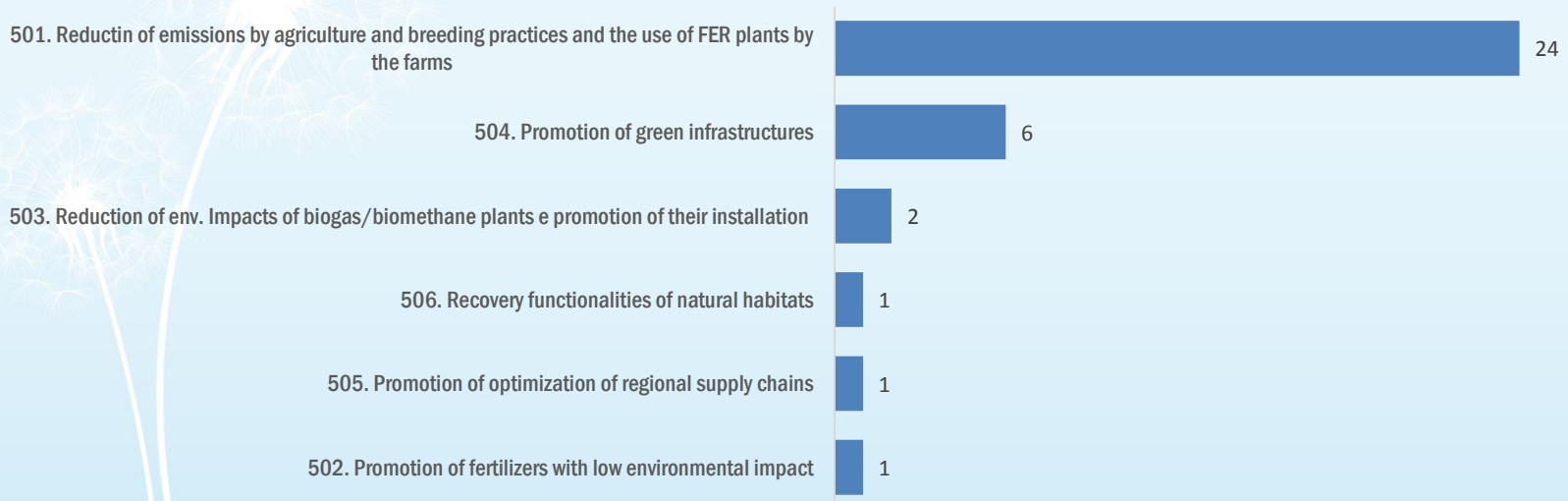
# Organising the dataset

An example:

distribution of measures of the sector “Agriculture, breeding, green areas and forests”

Currently the sector counts for 35 actions included in the dataset.

Sector "Agriculture, breeding, green areas, forests" - Concentration by measure





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# Organising and collecting proper monitoring data

An example:

30304. Regional incentives for improvement of energy performance of public buildings or residential public buildings

Indicators about implementation of action	Efficiency indicators	Effectiveness indicators
N. of calls for public financing	N. of buildings renovated	Reduction of NOx emissions
N. of projects for energy renovation of public buildings co-financed	m <sup>2</sup> surface of renovated buildings	Reduction of PM10 emissions
Euros financial resources assigned to beneficiaires	Kwh reduction of energy consumption	
	N. public buildings classified NZEB	



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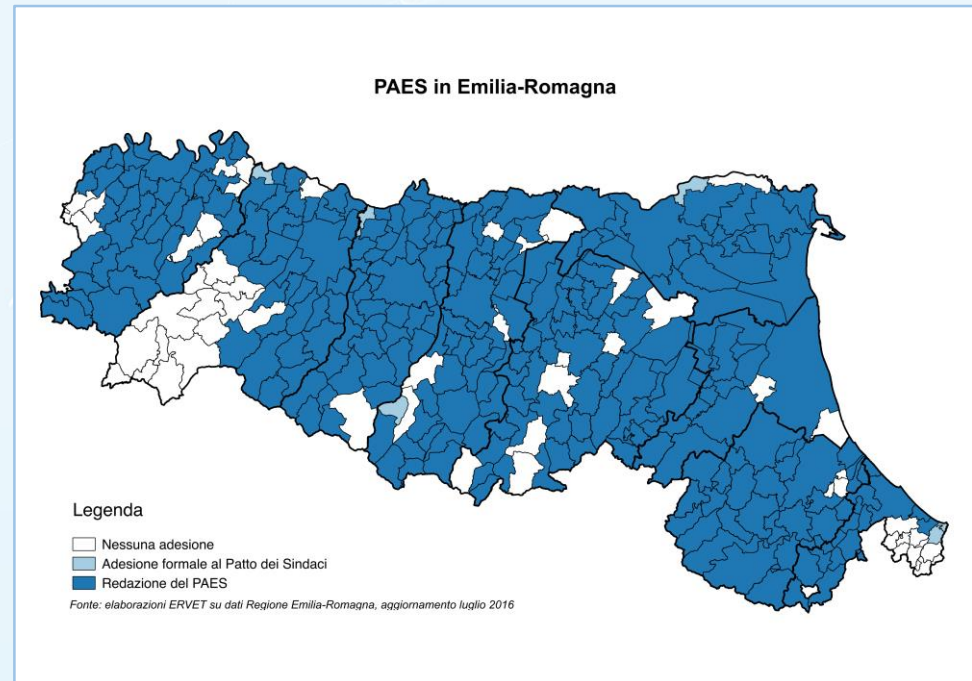
# Assuring the capability of read data e results of actions

Possible characterization criteria for managing actions and monitoring or communicating results about the actions included in the data set through the web platform

- Policy instrument (Regulatory act, financing act, licensing, communication campaign, etc).
- Competent administrative level (region, metropolitan area, group of municipalities, municipality)
- Scale (municipality, group of municipalities, sub-regional, regional, wider territorial or national)
- Frequency (continual, periodical, according to needs, in case of environmental emergency)
- Degree of control by the competent authority (direct control, regulation, promotion by incentives, information campaigns, etc.)
- Origin of the action: Regional AQ plan, Po basin agreement, other national measures, PREPAIR specific actions.
- Related pollutants (NO<sub>x</sub>, PM<sub>10</sub>, CO, etc.)



**The approach used for PREPAIR A2 action is based on previous initiatives implemented in the last few years**



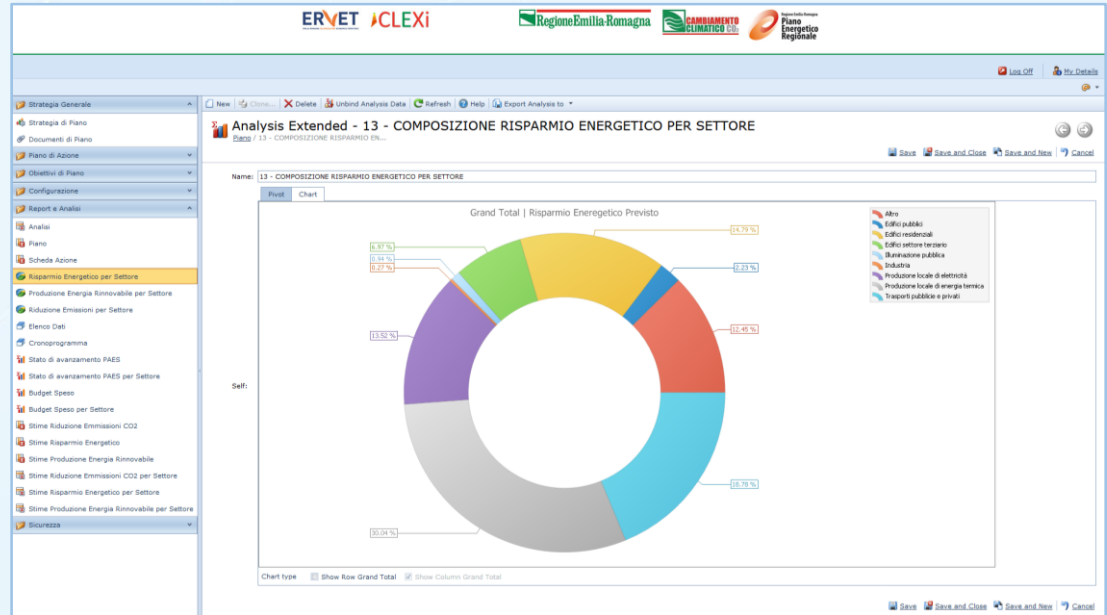
**In specific, Emilia-Romagna Region experimented common territorial instruments for planning and managing actions towards carbon emission reductions and the preparation of local climate plans**

**Following, implemented CLEXi, the web platform supporting the preparation and monitoring of SEAP by the municipalities, as well as the coordination between the local plans and the Regional Energy Plan.**

**Currently, about 300 municipalities out of the 330 (about) total number of municipalities in Emilia-Romagna joined the Covenant of Mayors and prepared their SEAP**

**134 municipalities have an active account on CLEXi including their actions, 94 as a single SEAP, 40 included in a joint SEAP managed as a group of municipalities.**

# Previous experiences about managing and monitoring platforms provide useful indications



## Keep into consideration:

- Usability of the tools
- Relevance of the local policies and priorities
- Ask for data that are really available within the public organization
- Provide practical solutions
- Coherence with other monitoring templates (e.g. communications of emissions to national or EU level)
- Simplify as much as possible (functions of the platform, electronic templates, monitoring protocols, ...)
- Make it a solution, not a problem or an additional burden of work



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# Thank you for your attention

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