



UNA PROSPETTIVA SISTEMICA PER IL PIANO D'AZIONE PER L'ENERGIA SOSTENIBILE E IL CLIMA

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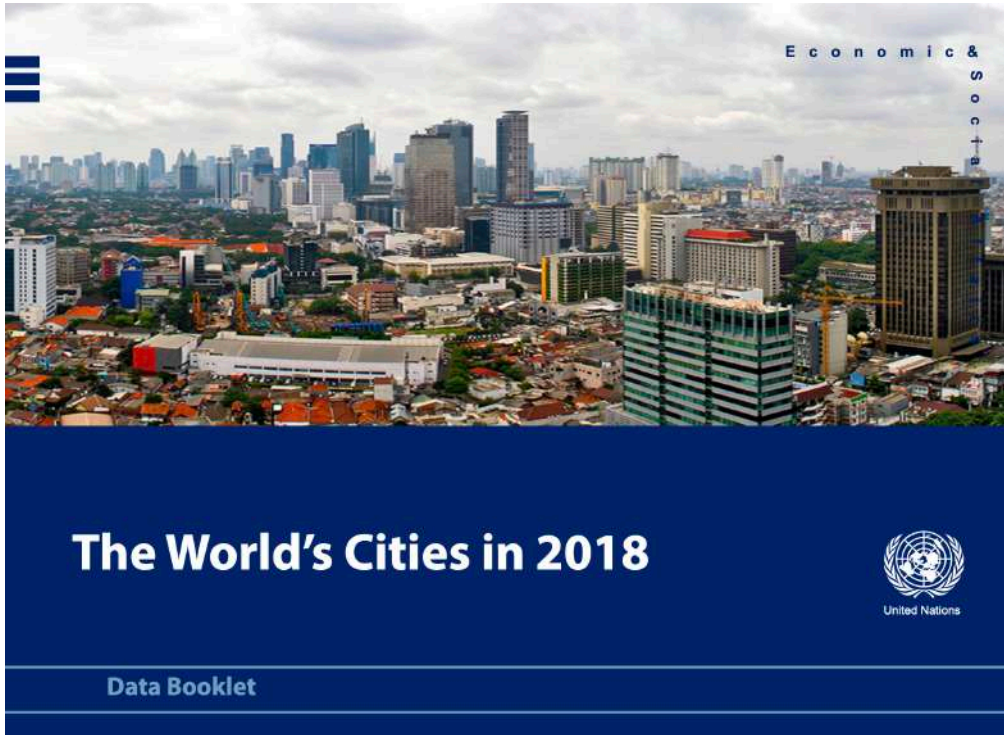


Laboratorio di Ingegneria
dei Sistemi Urbani
e Territoriali

Punti di riflessione

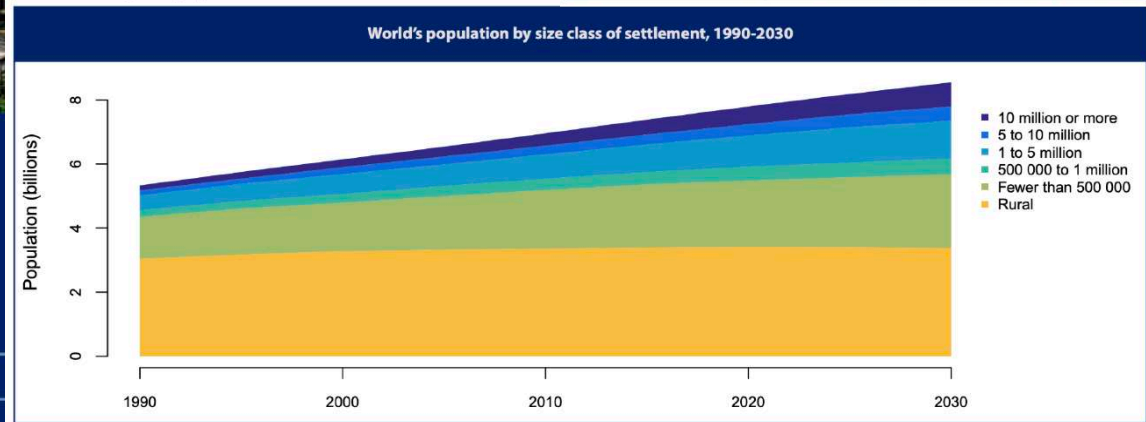
- Domanda di Piano e COM
- Dimensioni territoriali: uno sguardo al passato e una riflessione per il futuro
- SECAP come Piano Integrato di Sviluppo Urbano Sostenibile
- Conclusioni in itinere

Domanda di Piano e COM

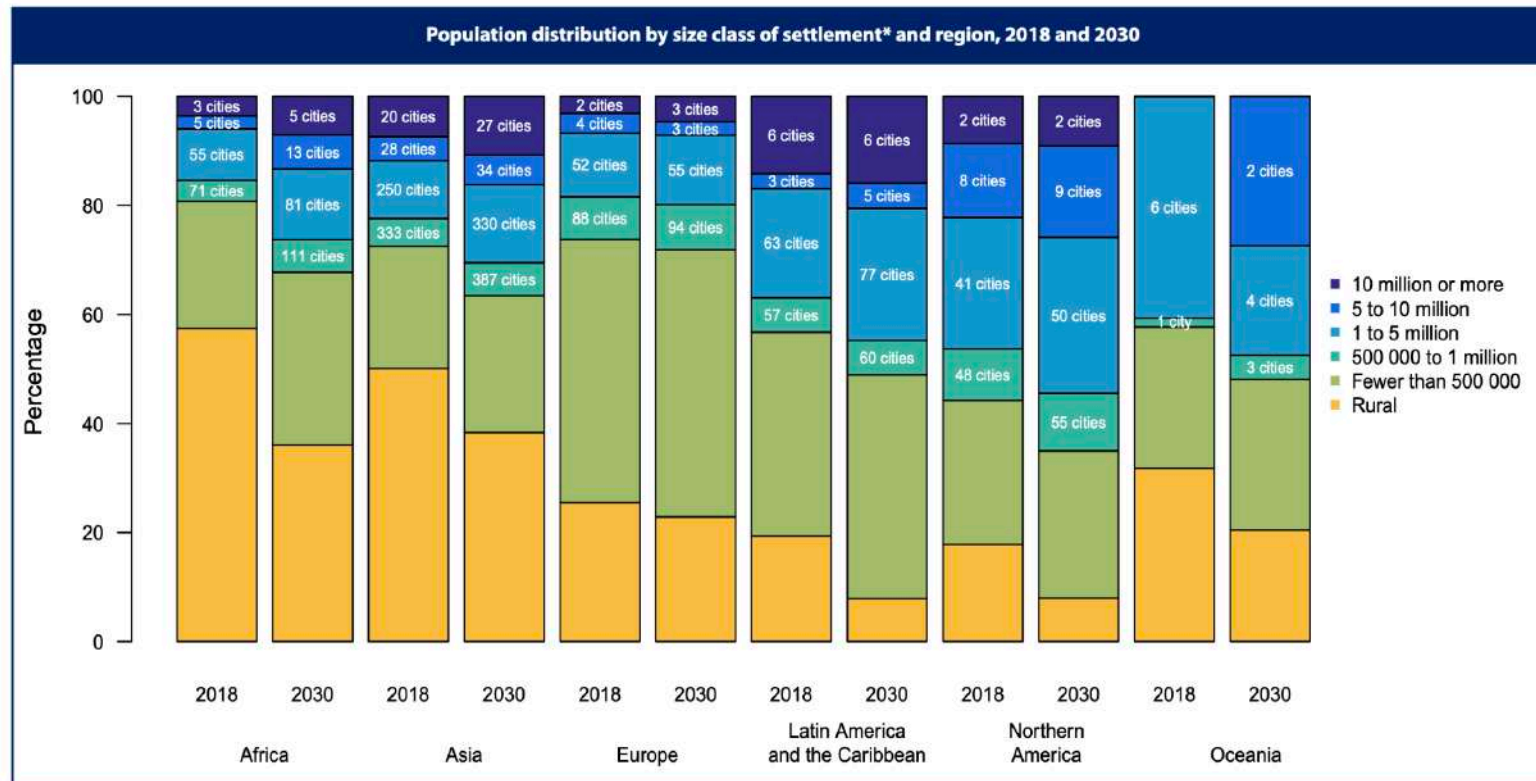


One in five people worldwide lives in a city with more than 1 million inhabitants

Size class	2018			2030		
	Number of settlements	Population (millions)	Percentage of world population	Number of settlements	Population (millions)	Percentage of world population
Urban	..	4 220	55.3	..	5 167	60.4
10 million or more	33	529	6.9	43	752	8.8
5 to 10 million	48	325	4.3	66	448	5.2
1 to 5 million	467	926	12.1	597	1 183	13.8
500 000 to 1 million	598	415	5.4	710	494	5.8
Fewer than 500 000	..	2 025	26.5	..	2 291	26.8
Rural	..	3 413	44.7	..	3 384	39.6



The World of Cities



*The population of cities with fewer than 500,000 inhabitants is estimated by taking the difference between the total urban population and the population in cities with 500,000 inhabitants or more. The number of cities with fewer than 500,000 inhabitants is not estimated.



60 per cent of the world's population will live in cities by 2030

Climate responsive city

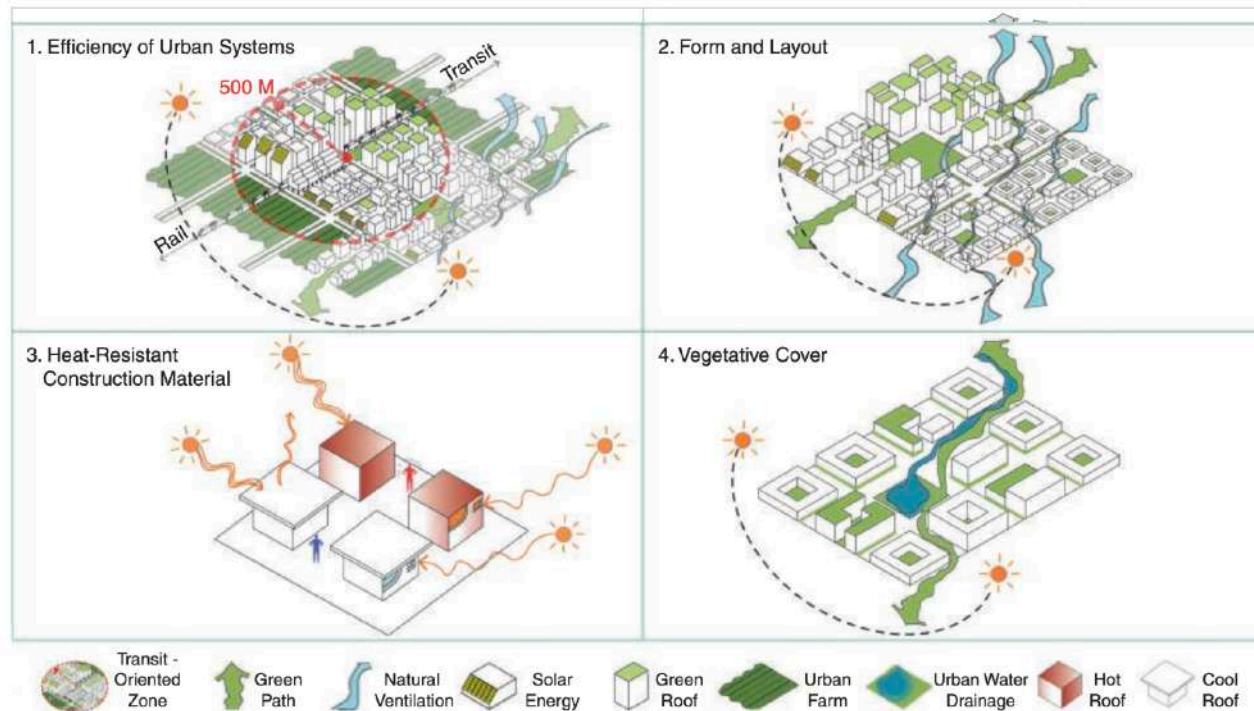


Figure 5.1 Strategies used by urban planners and urban designers to facilitate integrated mitigation and adaptation in cities: (1) reducing waste heat and greenhouse gas emissions through energy efficiency, transit access, and walkability; (2) modifying form and layout of buildings and urban districts; (3) use of heat-resistant construction materials and reflective surface coatings; and (4) increasing vegetative cover.

Source: Jeffrey Raven, 2016

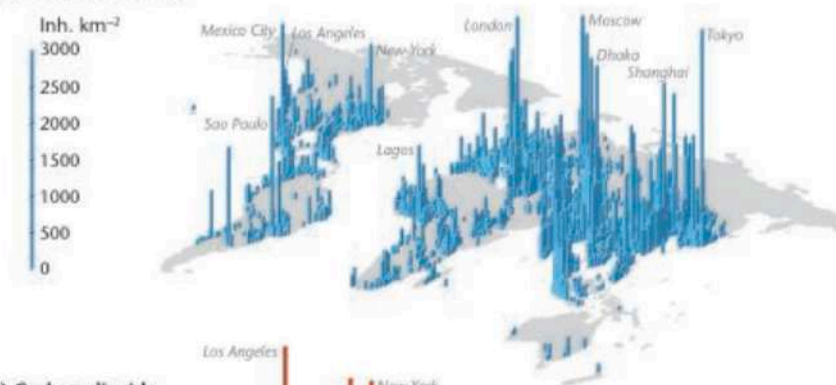
11 SUSTAINABLE CITIES AND COMMUNITIES



60
per cent
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Climate responsive city

(a) Population density



(b) Carbon-dioxide emissions



Figure 5.2 Each bar represents an entire metropolitan area (i.e., the city and the continuous urban footprint surrounding it), including often much lower-density suburbs.

Source: A. L. Brenkert, Oak Ridge National Laboratory. Maps created by Andreas Christen, UBC

Domanda di Piano e COM

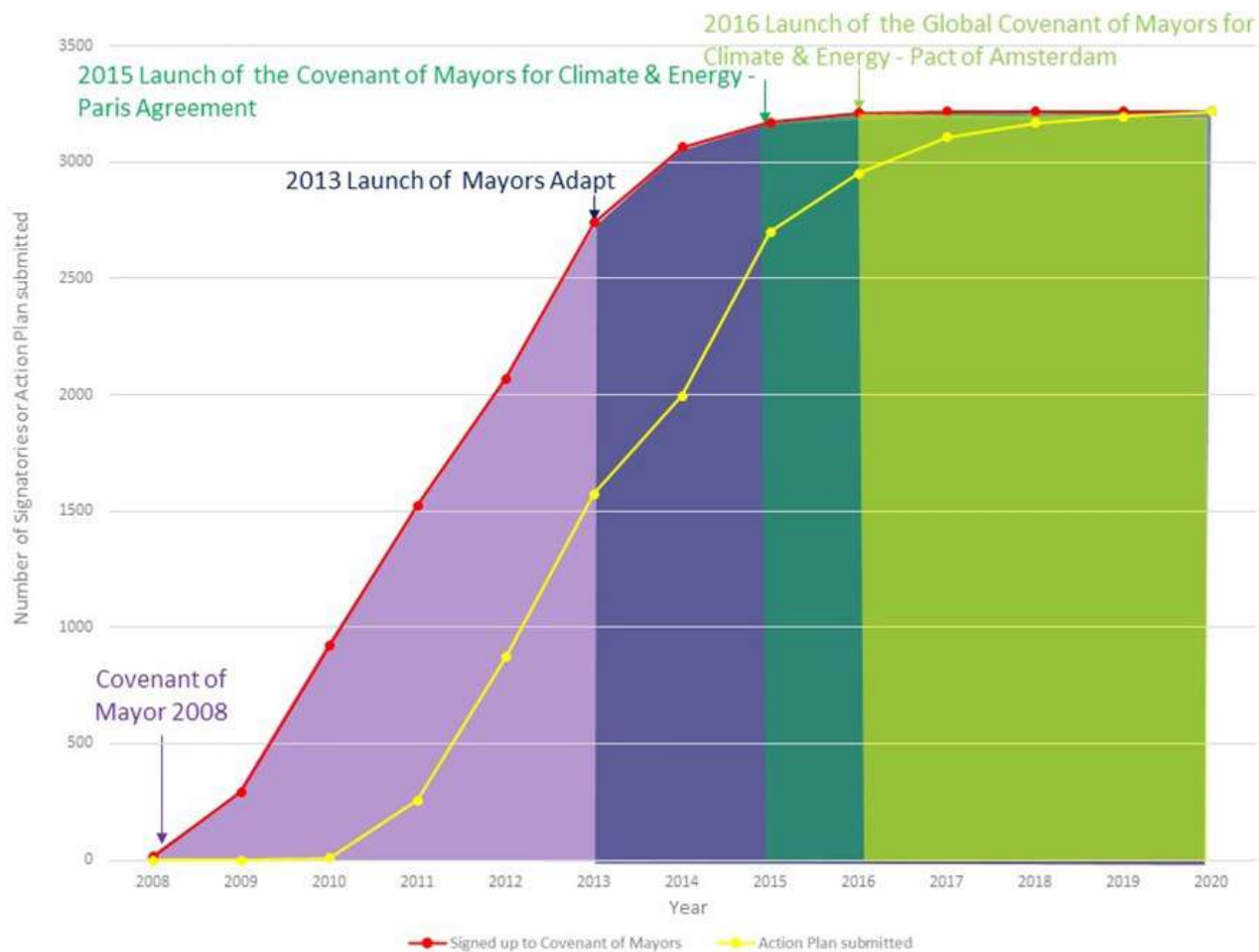
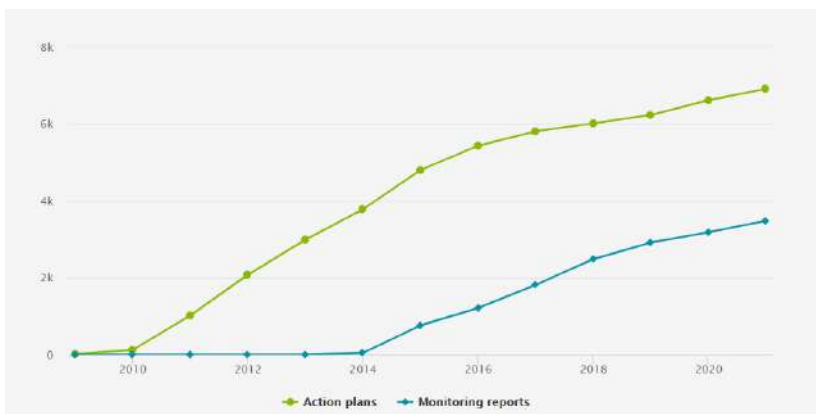
Dalla inadeguatezza degli strumenti tradizionali della pianificazione della Città e del Territorio

-> alla ricerca di performance per la gestione delle sfide contemporanee

Voluntary Planning

- This approach has made possible undertake (environmental and not) policies without a specific institutional framework, highlighting a widespread participation of public and private actors
- “less planning is better planning” (Dorfman, 1983)
- Voluntary programmes have become conventional instruments in urban climate governance (Bulkeley et al., 2015; van der Heijden, 2014)

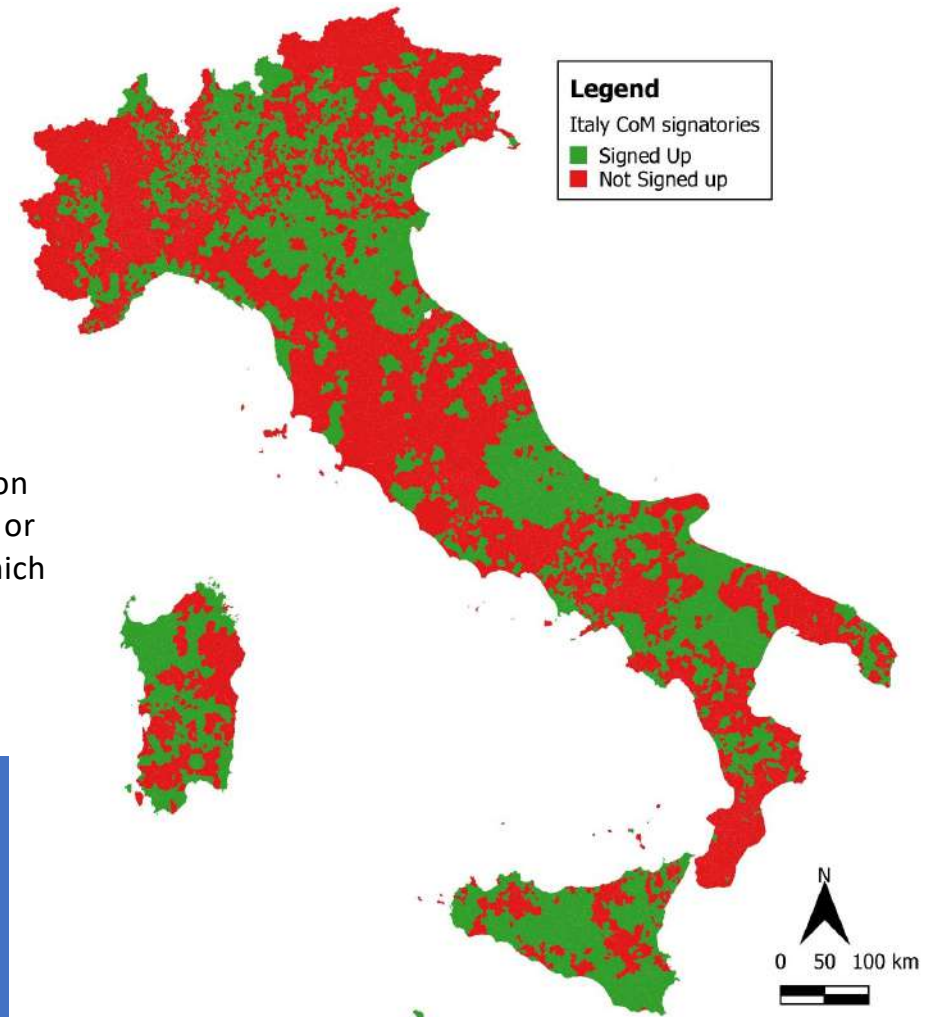
Dimensioni territoriali



Dimensioni territoriali

Country: Italy	
Population Size	Signatories
XS (<10,000)	2488
S (10,000–50,000)	683
M (50,000–250,000)	114
L (250,000–500,000)	9
XL (>500,000)	5

This classification does not take into account the fact that the population size of the signatories in Italy could refer either to a single municipality or to a group of Municipalities. Indeed, we have 3299 CoM signatories which include 104 unions/associations of Municipalities. The Municipalities included in those 104 unions/associations comprise 706 small Municipalities (representing 21% of the total CoM signatories).



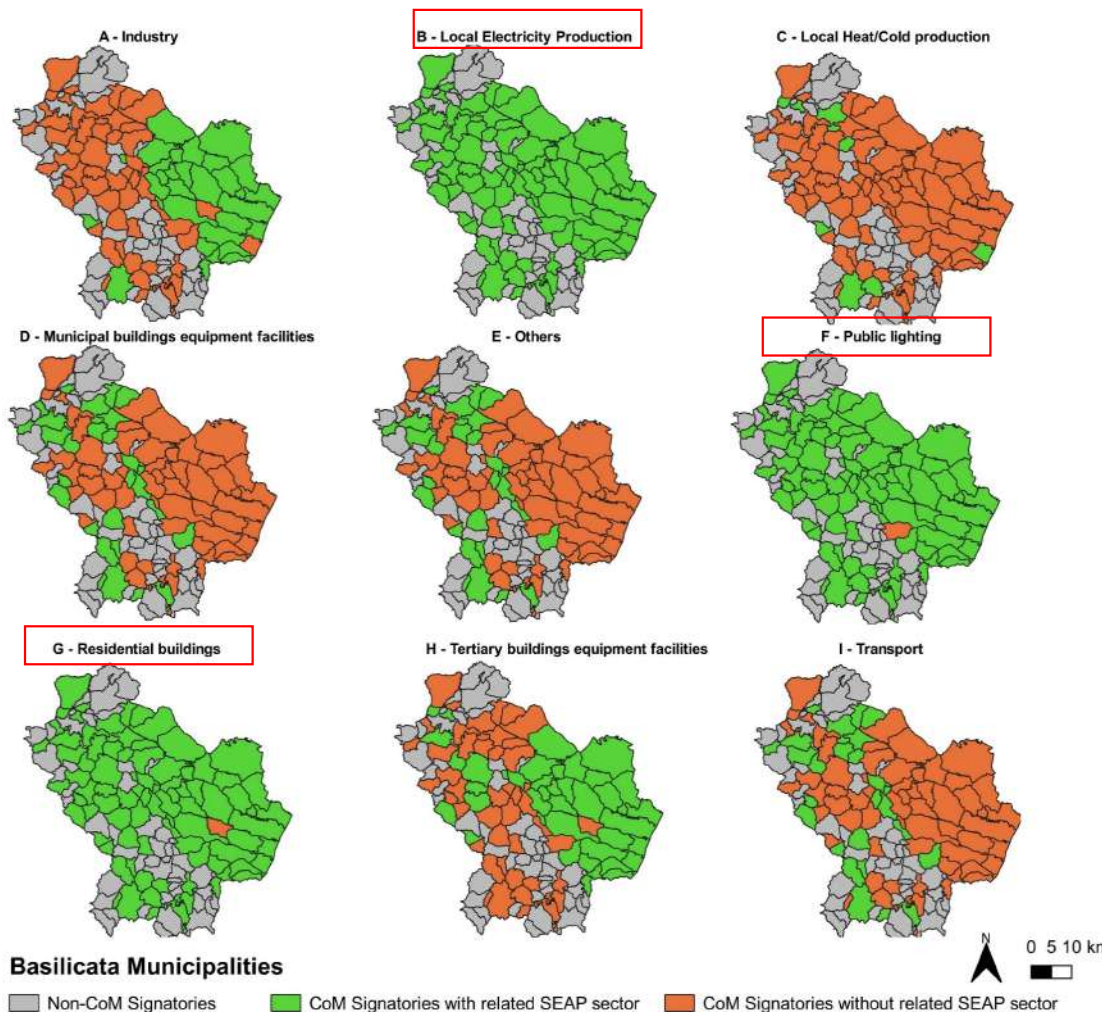
Article

The Italian Experience of the Covenant of Mayors: A Territorial Evaluation

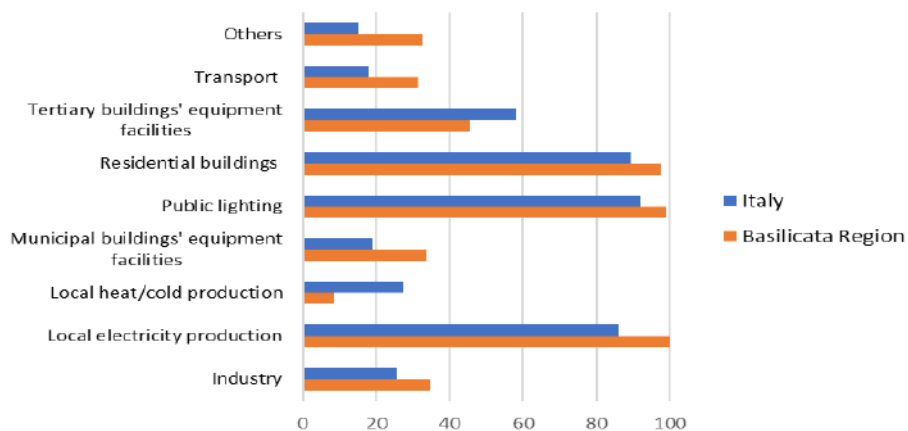
Luigi Santopietro ¹ and Francesco Scorza ²

Dimensioni territoriali

Basilicata Municipalities	Number of Municipalities	Percentage Total Basilicata Municipalities (%)
CoM signatories with urban planning regulations	41	31
CoM signatories without urban planning regulations	42	32
Non-CoM signatories with urban planning regulations	16	12
Non-CoM signatories without urban planning regulations	32	25

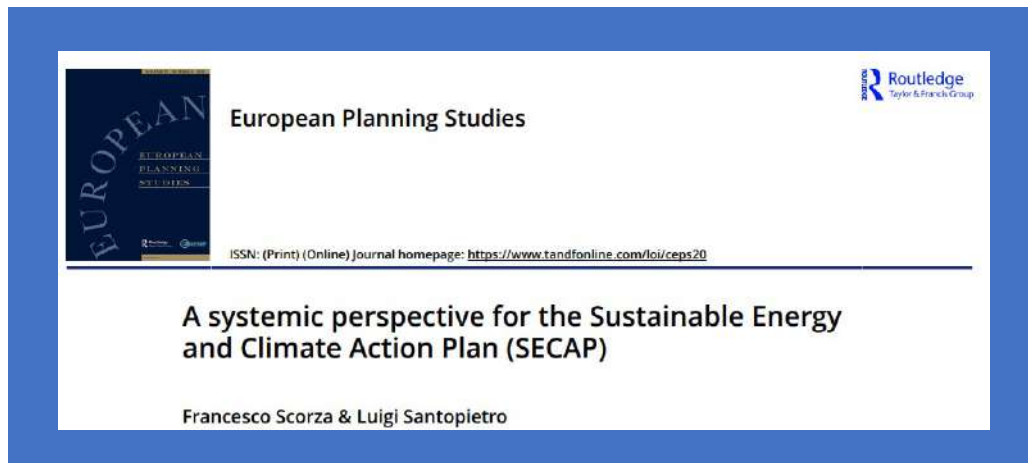


Comparison between Basilicata Region occurrences of SEAPs sectors and total Italian occurrences [%]

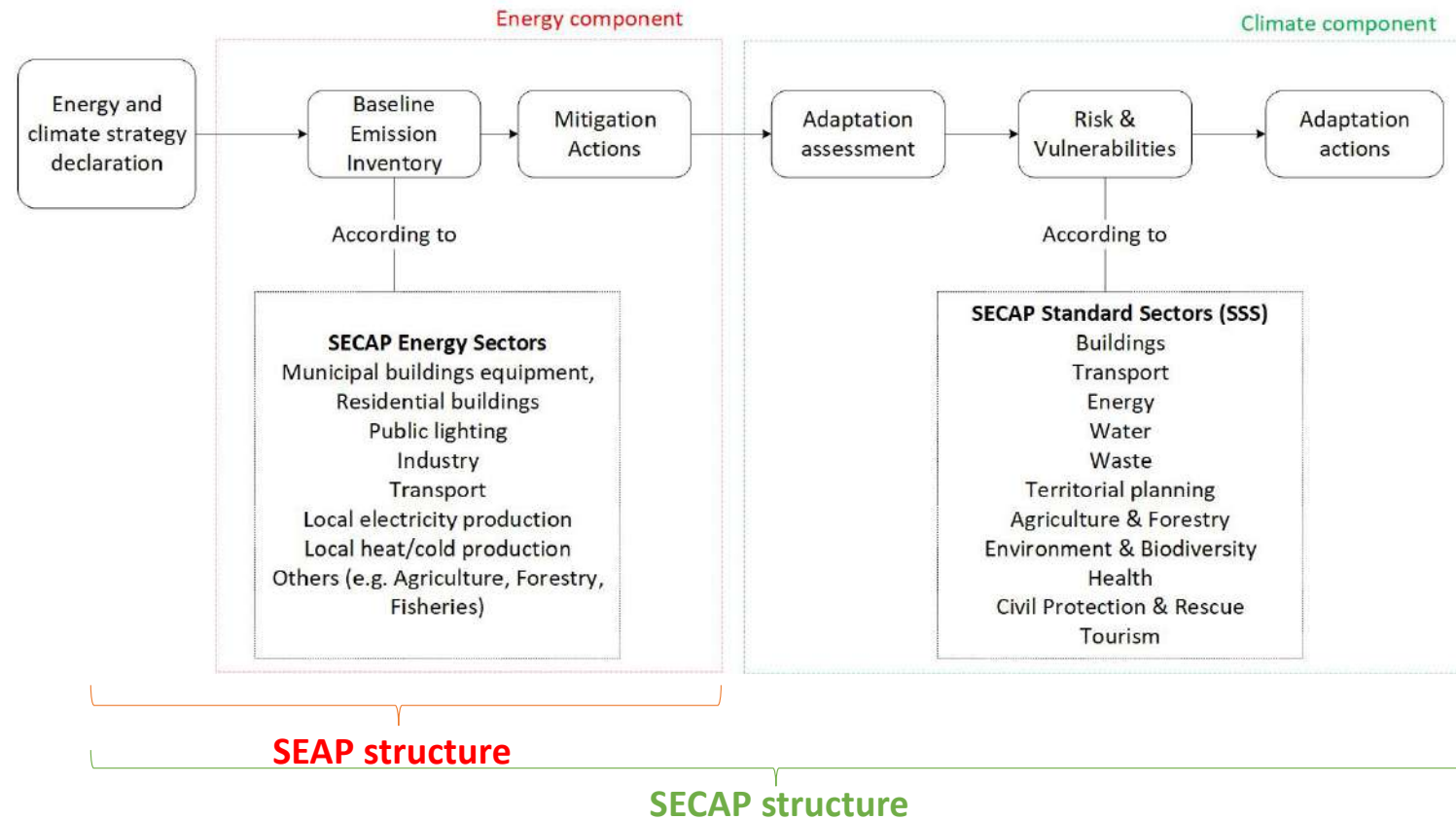


SECAP come Piano Integrato di Sviluppo Urbano Sostenibile

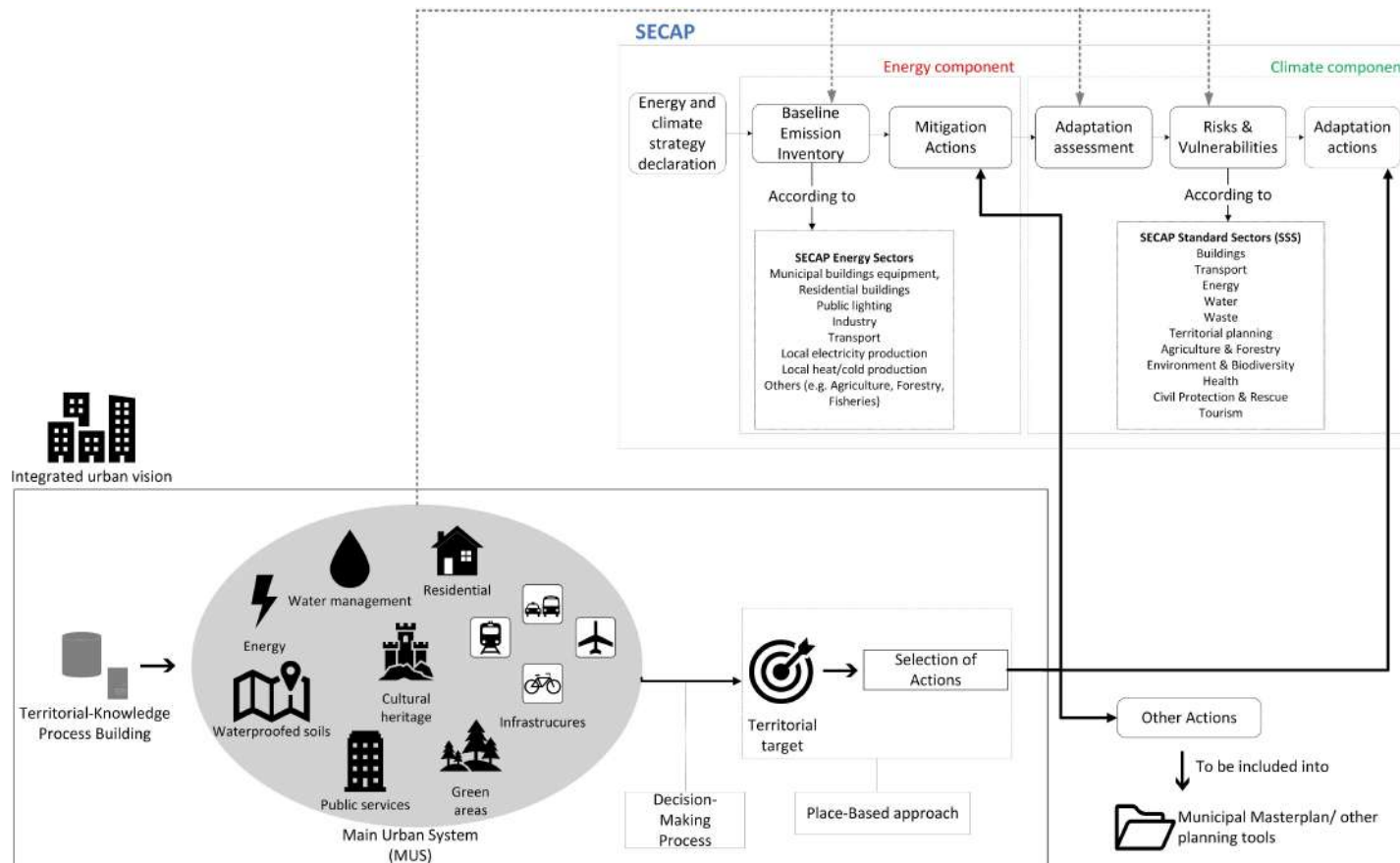
**NEW COM | SECAP -> Una prospettiva critica:
*Missing an integrated urban vision***



SECAP come Piano Integrato di Sviluppo Urbano Sostenibile



SECAP come Piano Integrato di Sviluppo Urbano Sostenibile



SECAP come Piano Integrato di Sviluppo Urbano Sostenibile

- The methodological proposal discussed in this work steers the SECAP approach toward the systemic view of urban planning. On this track, the key elements are the **“territorial targets”**. Their elicitation allows to “spatialize” the actions we classified as adaptation, mitigation or other.
- The methodological proposal introduces a **new urban planning paradigm: energy efficiency and climate challenges require a new generation of planning tools** and the SECAP is a candidate to produce breaking changes on the complex system of EU Municipalities integrating specific urban issues and the wider territorial sustainable objectives
- A relevant component, to be included in further development of this research, is the **citizens involvement and stakeholders’ engagement** in the SECAP design process. **This is a grey area** and it requires effective participation methods (such as public consultation, working groups, forum, workshops) in order to produce improvements in the plan without affect the efficacy of the process.

Conclusioni in itinere

- XS Municipalities: The Mayor Group of COM Applicants
- XS Municipalities: territorial extension of COM
- Buone Pratiche & inspiring solutions
- Fattibilità VS Pertinenza al contesto (la Neutralità è un obiettivo ambizioso)
- Citizens engagement
- Competenze tecniche e XS Municipalities
- Domanda di strumenti tecnici di supporto (la piattaforma **ES-PA** | **Piattaforma PAES**)
- Automatismo degli strumenti standard VS un approccio place based



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