28 May - 1 June 2023 Orlando Florida USA

Protecting Our World, Conquering New Frontiers

^{reso}ution etra 2030

Challenges and Insights in Spatial Planning for the Italian Surveyors

Cromwell MANALOTO, Luca DAL BUONO, Daniele BRANCATO.

G Working Week







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European Directives

Targets	CO2 emission reduction %			
2020	20			
2030	32,5			
2050	55			

















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The National Recovery and Resilience Plan (*Piano Nazionale di Ripresa e Resilienza*, PNRR) is part of the Next Generation EU (NGEU), which has a duration of six years, from 2021 to 2026. Half of the allotted budget is in form of grants, while the remaining half are in low interest loans.

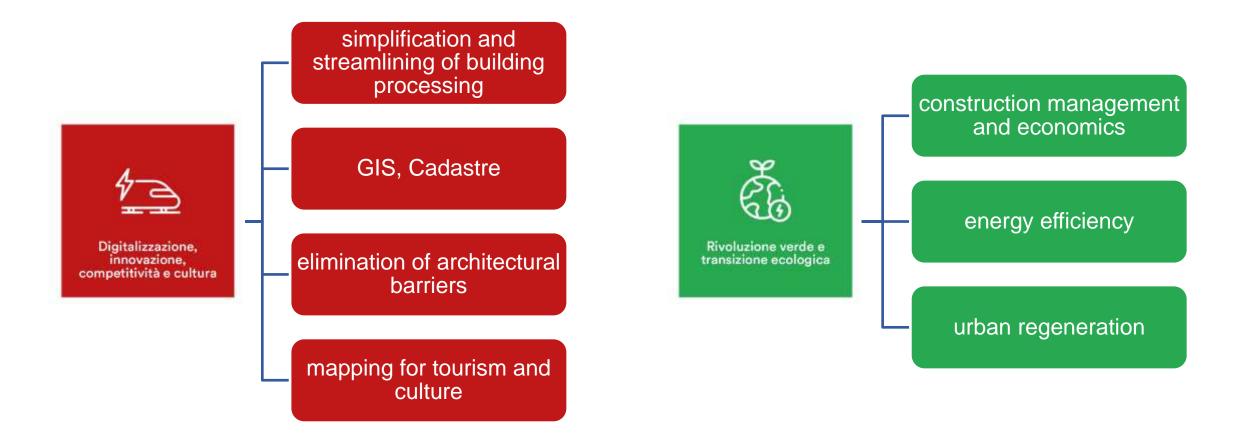
The Plan is developed around **three strategic axes** shared at a European level: **digitisation and innovation, ecological transition, and social inclusion**. It is an intervention that aims at repairing the economic and social damage caused by the pandemic crisis, contributing to addressing the structural weaknesses of the Italian economy, and leading the country along a path of ecological and environmental transition. The PNRR aims also to substantially <u>contribute in reducing</u> <u>territorial, generational and gender gaps</u>.

















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Primary Actions

Installation of thermal cladding Energy efficient HVAC (new and replacement) Seismic safety improvements and retrofitting

Secondary Actions

Solar panels, heaters (up to a value of €48,000 per property)

Energy efficiency upgrades i.e. windows and doors replacements

Installations of electric car charging stations Removal of architectural barriers/ Accessibility designs

Tax benefits

Tax credit transfer Invoice discount

Beneficiaries

Property owners (single home, condominium unit, bare, sitting tenant); Tenant; Condominiums;

Types of properties included

Residential properties (single houses, condominium units except A1, A8, A9); Condominiums; Mixed-use buildings with limitations





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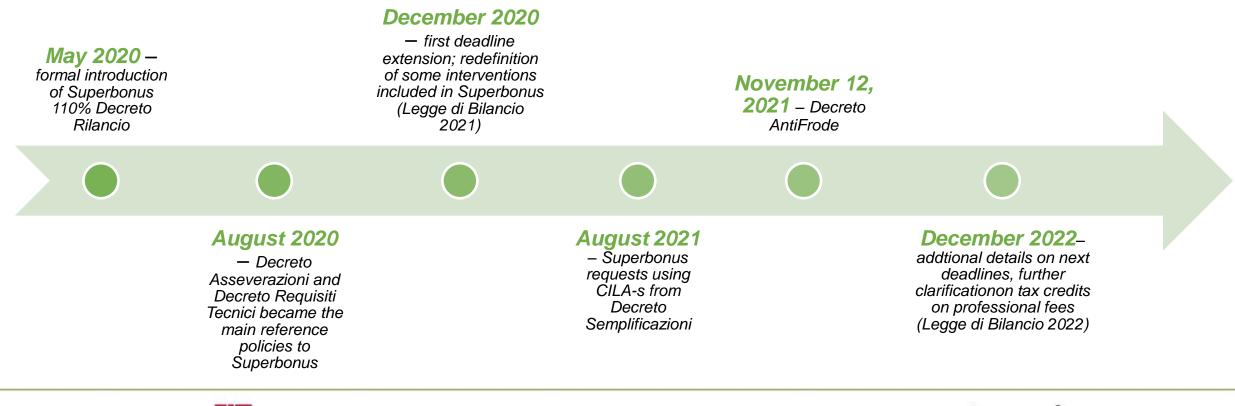




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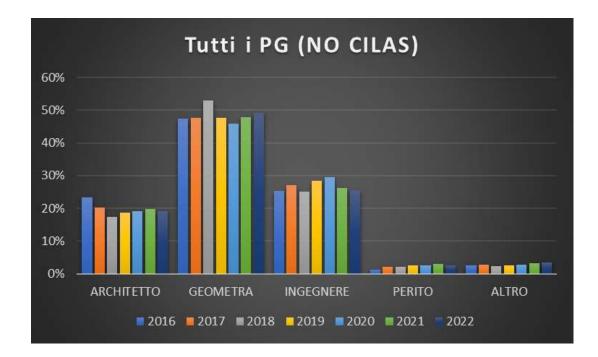


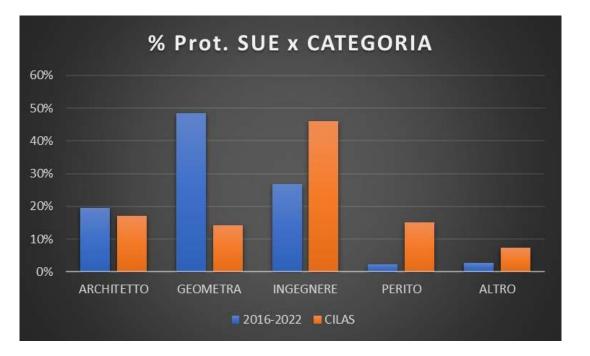


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Pros

- Favors revitalization of existing real estate assets in Italy
- Maybe we are finally heading to better energy efficiency legislation
- Natural disaster mitigation
- Notable increase in number of surveyors
 needed to undertake the projects
- Increase of surveyor's annual income
- Boost the national economy during Covid

Cons

- Ambitious and unclear and controversial
- Continuity is susceptible to the current political situation
- Susceptible to external factors (Covid pandemic, political unrest, etc) with uncontrollable effects on logistics and procurement, and finances



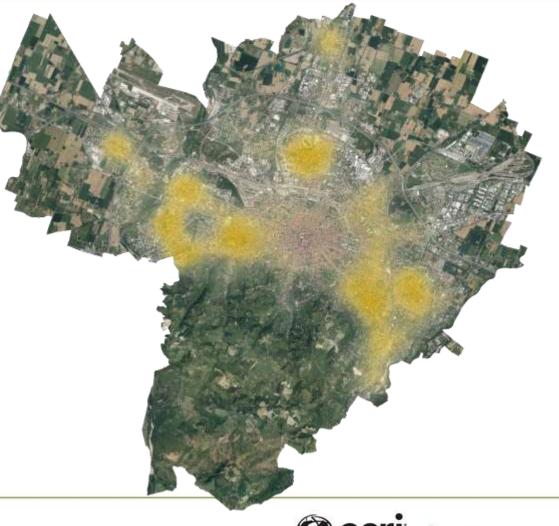




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Case Study: Superbonus and Bologna

- To analyze the effects of new policies through data mapping
- To monitor such an ambitious project in terms of preliminary and final numbers, spatial distribution, and time
- To maximize the potential of opendata published by the Italian government



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636 dataset

Triva un debrait.

Regioni e ottal Gauerro e settore publica

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Attiante

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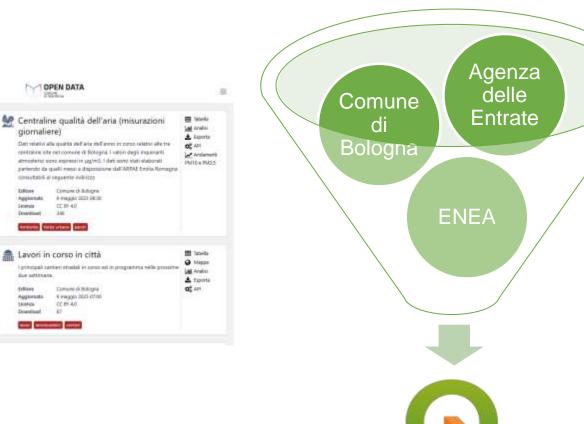
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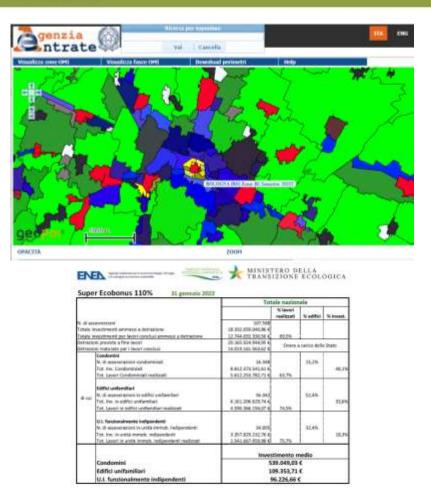
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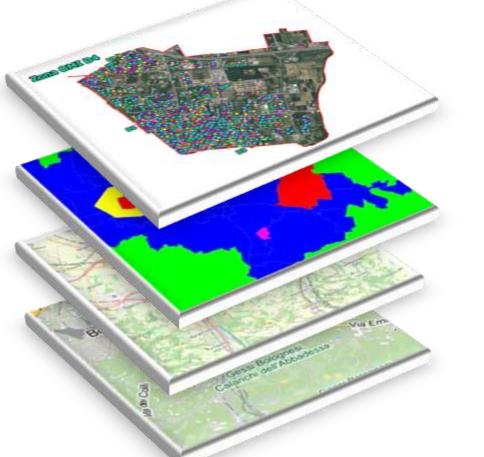








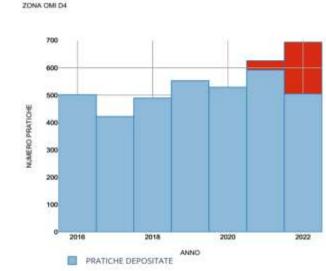
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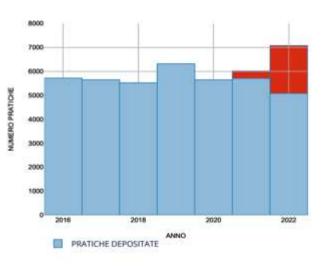


• around 60.000 building permits were registered from 40.000 real estates. Half of these filtered data are residential building.

CITTA'

 preliminary data elaboration shows how Superbonus is impacting Bologna's buildings landscape and its perception from its citizens.











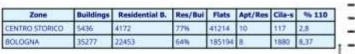
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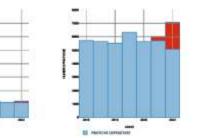


ZONA Building		Residential B.	Flats	AVG16-20	Cita-s/Res [%]	Cila-s	
08	8 803 613		4758	164	1.79	11	
C9.	384	327	3083 90 3.36		11		
87	146	112	932 34 1.79		2		
64	342	248	1829	1929 49 0.81		\$3.	
CS .	709	532	4122	22 129 2.82		14	
C7	153	127	\$85	24 2.36		4	
C8	799	634	4457	133 1.89		11	
C10	173	149	3673	13 10 1.34		2	
相	942	209	7582	2 370 2.4		13	
Ctt	364	425	7718	718 259 7.06		32	
C2	421	256	3764	764 121 4.85		15	

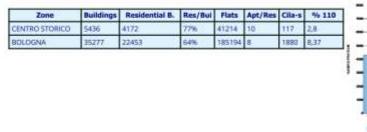


ZONA	Buildings	Residential B.	Flats	AVG16-20	Cila-s/Res [%]	Cila-s	
08	1268	1398	13230	273	18.72	145	
017	1553	1947	7053	258	2.96	138	
#1	125%	753	1343	36	3.85	21	
021	1121	886	1074	107	8.24	72	
09	1705	524	2424	520	7.58	71	
83	1058	601	929	28	3.65	24	
023	293	155	2069	62 7.24		12	
83	1138	m	10112	218 14.51		110	
93	3004	861	8455	223	7.62	3	
D4	3836	1882	23153	495	9.72	1,09	
\$6	134	8	337	MAL	50	4	
DIII	1013	646	\$727	154	15.17	95	
NI	411	188	357	8 5.85		8	
D20	3034	1987	18639	404 5.01		199	
11	1998	516	1971	87 5.79		\$5	
05	2185	\$42 8	39743	385 8.39		1.26	
024	1232	924	8874	279 8.73		96	
8	3135	1770	12405	247 8.98		150	
025	1413	885	10678	294 7.6		66	
07	638	415	6533	130 8.67		11	
DIS	1530	1135	6287	294	6.43	76	
022	3581	1356	8420	162	5	101	

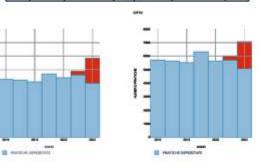




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Peripheral zones and Outskirts



City Center



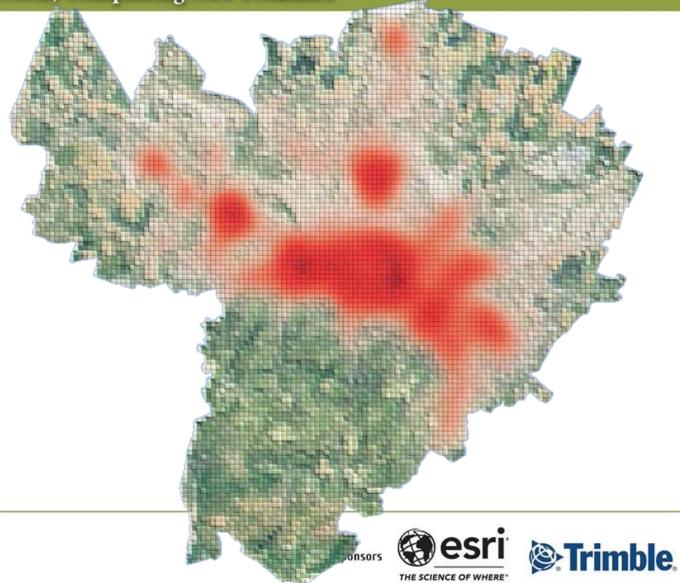




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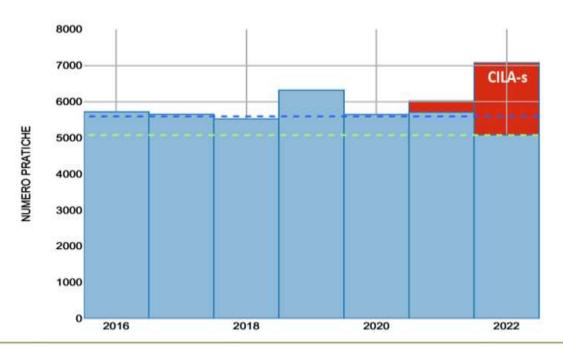
- Data shows that most of the CILA-s are located outside the historic center of Bologna, and only 10% of which are done within the Historic City Center.
- An indirect relationship between the number of CILA-s submitted against other types of building intervention procedure (Permesso di Costruire (Construction Permit), SCIA).
- The effects of the city regulations on the built environment are best seen when the analyses of parameters include time and location (i.e. Modifications on Bologna Building Regulation Plan in October 2019 – Superbonus "presumed" paperworks deadline on November 2022).





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Zone	Buildings	Residential B.	Res/Bui	Flats	Apt/Res	Cila-s	% 110
CENTRO STORICO	5436	4172	77%	41214	10	117	2,8
BOLOGNA	35277	22453	64%	185194	8	1880	8,37

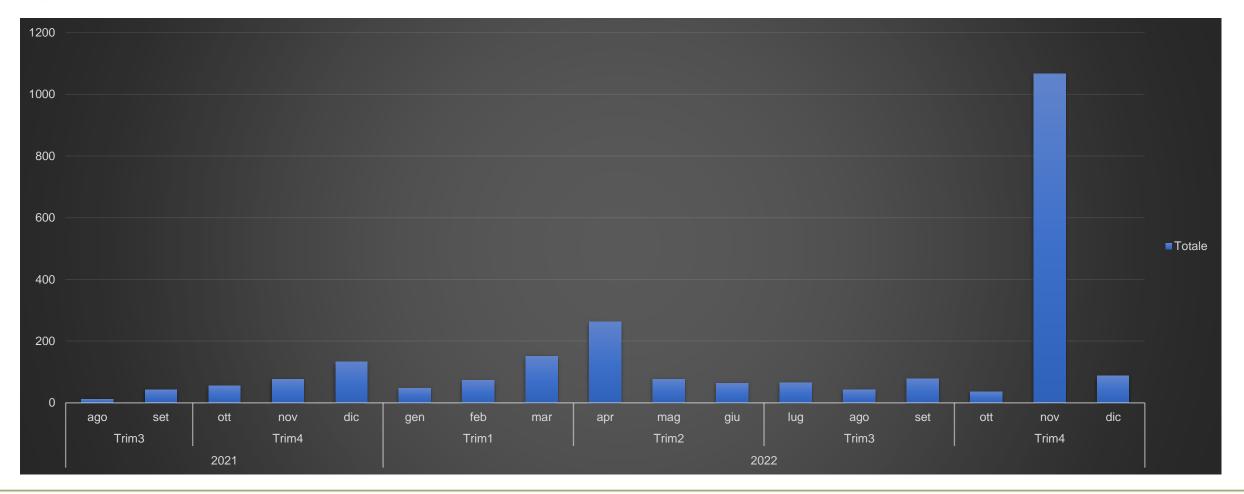








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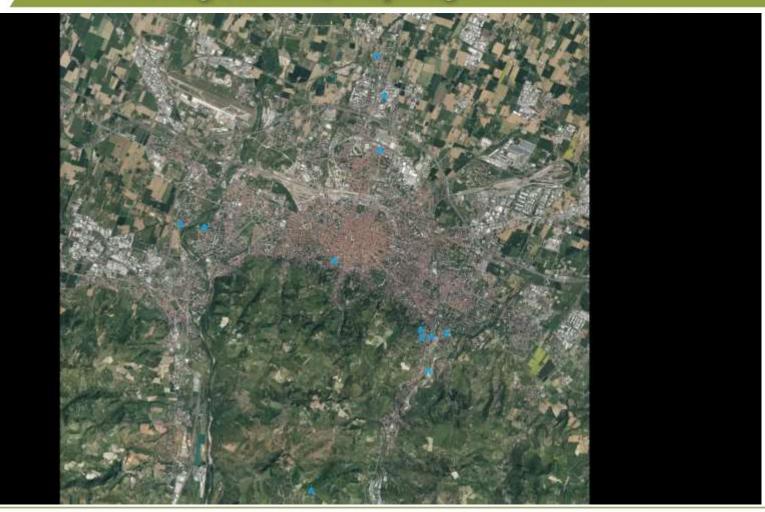








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