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POSITION PAPER FOR ERSA 2024

From the "Intelligent Buildings" program to the new "Intelligent Cities" urban design methodology

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My work starts in a comparison with Cna Costruzioni Fano (PU), Marche based on a principle: There are many European funds to implement plans and projects to respond to the climate crisis and generate jobs.
On this assumption I created the "Intelligent Buildings" program.
What is the "Intelligent Buildings" program?
It is a strategic urban regeneration plan for adaptation and mitigation to climate change with 0 land consumption, based on the use of the European reference legislation.
What does the "Intelligent Buildings" program do?
1. Identifies all public and private buildings, all the public and private areas of the city that are most critical from an environmental point of view, in terms of energy consumption, pollution, mobility and hydrogeological instability which are also the interventions most financed by the EU through direct tenders and indirect, from 2022 PNRR, from 2024 also by European banking institutions;
2. Identify all the technical and technological design responses to respond to the tenders, referring to the identified areas, to maximize the possibility of public and private bodies winning those tenders;
3. Identify all the funding sources available, European and Italian, direct and indirect, public and private, to finance those interventions without using your own "cash" funds. (1.)
The "Intelligent Buildings" program for Fano was designed by the undersigned and delivered to the Municipality of Fano in 2018 and furthermore, it has just been included among the best practices in terms of strategic plans for adaptation and mitigation to climate change with 0 land consumption , together with Copenhagen, Padua and Bologna in the position paper "Urban settlements in the national plan for adaptation to climate change", year 2023, developed by the group of experts ASVIS Goal 11. (2.)

But how much money is a plan like the "Intelligent Buildings" program capable of attracting in a city like Fano, 60,852 inhabitants, if applied systematically. A downward estimate, around 250 million euros extra budget, over the next 7 years to carry out projects of:
-   Energy requalification of public and private buildings of all types
-   Smart and eco-sustainable redevelopment of public spaces and networks
-   Sustainable mobility
-   Hydro-geological and environmental redevelopment
-   Re-forestation and NBS

The "Intelligent Buildings" program subsequently became the methodological basis for all my subsequent work:
-   2018: member of the technical-scientific office that drew up the strategic plan "Taranto futuro prossimo" on behalf of the Puglia Region, which appointed me precisely as the technical creator and coordinator of the "Intelligent Buildings" program for Fano.
-   2020 I was selected by the Ardadis Italia Company as Project Environment Manager and, together with the urban planner Andrea Boschetti and the architect Andrea Caputo, we coordinated the winning project of the C40 Reinventing City, Milan for Loc. (3) Also in this case in the documents presented there was explicit reference to my work on the "Intelligent Buildings" Program for Fano.
-   - 2020 I drew up the technical-economic feasibility plan for the variant project of the PRG of via Canellina, Municipality of Gradara, awarded as best practice in October 2023 during the States General of Smart Cities, held in Padua. Here is the link to the project: https://www.greencitynetwork.it/portfolio_page/gradara-sviluppo-area-a-ridotta-carbon-footprint/ Here is the link to the award ceremony: https://www.youtube.com/watch? v=BECJnHr3Bro
-   - I am currently in charge of drafting a PUG on the model of the "Intelligent Buildings" program at the Municipality of Crispiano, with the aim of attracting citizens and investors to a southern village that aims for a sustainable future,

guaranteeing on the one hand respect and the valorisation of the cultural, historical and environmental heritage, as a driving force for green tourism but on the other hand, the maximum feasibility of the interventions, the possibility of creating passive houses, companies with low environmental impact and a high rate of technological innovation, without problems also for large green energy plants. The entire PUG, designed in compliance with the ESG 2030 agenda, was designed as a CER (Renewable Energy Community). Here is the link for further information:https://www.econopoly.ilsole24ore.com/2022/05/31/rinnovabili-urbanistica-crispiano/

It is precisely the application of this methodology on a planning and design scale, in small, medium and large cities with results that are always positive and recognized by specialized bodies and organizations in the sector, which allow me today to talk about the "smart cities" planning and design method " which brings together the themes of sustainable urban regeneration, zero land consumption, climate crisis and systematic use of European funds which, when applied, develops a new driving force for economic recovery on a local scale. (4.)

It should be highlighted that the current financing structure is a major support for the actions envisaged by the "Smart Cities" methodology.
But given the pollution rates that afflict enormous parts of the world, in particular in Italy the Po Valley, to reduce the impact on people's health of the very high pollution, what I propose here must be carried out as soon as possible, even if the 'Europe did not provide even one euro of financing.
Simply because it is right for us and for the next generations.(5.)

Notes:

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1: For further information on what the "Intelligent Buildings" program is and how it was developed by me: below is the link to my report at the VII RUN of Urban Planning in Riva del Garda, 2019: https://www.youtube.com/watch?v=LMIANJ-XbXQ
2:https://asvis.it/public/asvis2/files/Pubblicazioni/PositionPaper/2023/PositionPaperASviSGoal11_Pnacc_Insediamenti_Urbani_nov2023.pdf
3: https://www.comune.milano.it/-/reinventing-cities-piazzale-loreto.
4: https://www.econopoly.ilsole24ore.com/2023/12/18/sviluppo-sostenibile-edifici-intelligenti/
5:https://www.econopoly.ilsole24ore.com/2024/02/26/inquinamento-pianura-padana-milano-2/?fbclid=IwAR0iJQ5Y_SdryM0CCtHrbIjL1BJ6oYdRWYXfmYp7jMlCYJp-To4_X4ExwBk&refresh_ce=1