

## Research Group

### SUSTAINABLE AND RESILIENT CITIES AND HUMAN SETTLEMENTS (SU.RE)

<b>Reference year:</b>  2025
<b>Scientific Coordinator:</b>  Adriana GALDERISI, Full Professor, Department of Architecture and Industrial Design, University of Campania Luigi Vanvitelli
<b>Group members:</b>  CALABRÒ Marco / Full Professor/ Dipartimento di Architettura e Disegno Industriale/ Università degli studi della Campania "Luigi Vanvitelli" CARTENÌ Armando / Full Professor / Dipartimento di Architettura e Disegno Industriale/ Università degli studi della Campania "Luigi Vanvitelli" CASTANÒ Francesca / Full Professor / Dipartimento di Architettura e Disegno Industriale/ Università degli studi della Campania "Luigi Vanvitelli" DE BIASE Claudia / Associate Professor/ Dipartimento di Architettura e Disegno Industriale/ Università degli studi della Campania "Luigi Vanvitelli" FRANCHINO Rossella / Associate Professor / Dipartimento di Architettura e Disegno Industriale/ Università degli studi della Campania "Luigi Vanvitelli" FORTE Fabiana / Associate Professor / Dipartimento di Architettura e Disegno Industriale/ Università degli studi della Campania "Luigi Vanvitelli" FRETTOLOSO Caterina / Associate Professor / Dipartimento di Architettura e Disegno Industriale/ Università degli studi della Campania "Luigi Vanvitelli" GUIDA Giuseppe / Associate Professor / Dipartimento di Architettura e Disegno Industriale/ Università degli studi della Campania "Luigi Vanvitelli" INGROSSO Chiara / Associate Professor / Dipartimento di Architettura e Disegno Industriale/ Università degli studi della Campania "Luigi Vanvitelli" PIETROSANTI Anton Giulio / RTDB / Dipartimento di Architettura e Disegno Industriale/ Università degli studi della Campania "Luigi Vanvitelli" BOCCHINO Chiara / Research fellow/ Dipartimento di Architettura e Disegno Industriale/ Università degli studi della Campania "Luigi Vanvitelli" LIMONGI Giada / Research fellow / Dipartimento di Architettura e Disegno Industriale/ Università degli studi della Campania "Luigi Vanvitelli" MENNA Daniela / Research fellow / Dipartimento di Architettura e Disegno Industriale/ Università degli studi della Campania "Luigi Vanvitelli" CHAIB Farah Lyna / Dottoranda/ Dipartimento di Architettura e Disegno Industriale/ Università degli studi della Campania "Luigi Vanvitelli" ERRICO Marco Francesco / PhD Student Dipartimento di Architettura e Disegno Industriale/ Università degli studi della Campania "Luigi Vanvitelli"

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### **Description of research lines:**

Based on multidisciplinary and multiscale approaches and by using tools proper to planning and designing space at different scales, the research group addresses some issues related to Goal 11 of the 2030 Agenda for Sustainable Development: Making cities and human settlements inclusive, safe, long-lasting and sustainable. In particular, the activities of the group, despite having a substantial unity of objectives, develop along two research lines:

#### ***Regenerative and Inclusive Cities***

This research line investigates, from a theoretical and a methodological point of view and through test cases carried out on specific territorial areas, the topic of transition from sustainability, mostly addressed to reducing/eliminating the impacts of human activities on natural resources, to regenerative approaches, which devote attention to the circularity of processes and aim at improving/replacing the natural and social capital currently available, through the activation of new life cycles in "waste territories and/or products", characterized by abandonment and degradation, which represent nowadays one of the main by-products of current urbanization patterns.

Particular attention is devoted to dismissed industrial heritage, coping with knowledge and reuse of this heritage as an experience of learning, democratic participation and permanent construction of community values. Furthermore, the issue of social equity and inclusion in urban regeneration processes is investigated, by exploring tools and planning methods useful for rebalancing territorial functions and overcoming social disparities, also according to European directives.

Within the research topics on urban regeneration issues, a central role is covered by the mobility of people and goods, with particular attention to techniques and tools for sustainable transport planning.

Finally, research activities focus on both *nature-based solutions* - solutions inspired and supported by nature, characterized by low costs, able to encourage the regeneration of urban and peri-urban areas affected by processes of degradation of environmental matrices and to provide environmental, social and economic benefits - and *new governance processes* capable of overcoming the traditional approach to urban planning (top-down or based on ex post consultation) and to promote participatory-based practices mostly based on co-design methods.

#### ***Resilient Cities and Human Settlements***

This research line explores, according to methodological and operational perspectives, the resilience of urban and territorial systems to the multiple hazards and stressors that they are exposed to - from the most investigated ones (e.g., seismic, volcanic, hydrogeological hazards) to the emerging ones (climate change impacts, environmental degradation, impacts of migratory flows).

Research activities focus both on new methods, techniques and tools for risk knowledge and for a more effective integration of such knowledge in spatial and land use planning processes, both on the identification of planning strategies able to enhance risk reduction, also through a more effective contrast to the phenomena of illegal settlements, particularly widespread in the Campania region.

Within this research line, particular attention is devoted to strategies aimed at increasing the resilience of small towns located in inner peripheries, affected by phenomena of growing socio-economic marginalization and by high-risk features which, very often, favor the depopulation processes. The topic of inner peripheries is addressed through multidisciplinary approaches and research activities aim at defining integrated policies, capable of combining risk reduction, socio-economic development and regeneration of urban fabrics and natural systems, improvement of accessibility, and rebalancing the relationships between inner and urban areas, reversing current depopulation trends.

**Relationships with other research groups of the University of Campania L. Vanvitelli during the last three years:**

SIDE -Sustainable Design for Made in Italy – Scientific Responsible Patrizia Ranzo

Theories and Practices of Architecture in the Contemporary World - Scientific Responsible Paolo Giordano

**Participation in research projects during the last three years:**

**Project title:** Reloading city: a new systemic approach to urban and territorial regeneration

**Scientific Local Responsible:** Marco Calabrò

**Call title:** Prin 2022

**Description of research activities:** The research activities will focus on urban regeneration, as a development strategy for the country and as a tool for recovery from the post-pandemic crisis. At the center are the economic and social objectives that distinguish regeneration from reuse and urban redevelopment and the potential which, despite its centrality in the recent urban debate, still remains largely unexpressed. The research leverages on three aspects: 1. restoring the centrality of the public actor in the governance of regeneration processes, as a subject capable of conveying planning and directing private initiatives; 2. rethinking regeneration starting from the public city; 3. recover the systemic character of the urban planning project, overcoming the dichotomies between centers and peripheries, with their sectoral and ineffective technical, juridical and regulatory tools.

**Involved Staff:** Adriana Galderisi; Francesco Costanzo; Mario Sorrentino

**Partners:** Università degli Studi di Perugia; Università degli Studi di Sassari; Università degli Studi dell'Aquila; Politecnico di Bari.

**Submission Date:** 30/03/2022

**Project Status:** FUNDED (in progress).

**Project title:** Southern Italy. From Common Goods to Ecological Resources. Environmental Development Prospects for Areas Subject to Civic Use in Campania and Molise

**Scientific Local Responsible:** Elena Manzo

**Call title:** PRIN 2022 PNRR

**Description of research activities:** The project aims to map, investigate and evaluate the territories subject to the civic use restriction in two regions, namely Campania and Molise, defining appropriate guidelines compatible with the most up-to-date urban planning regulations in force in the territory, with the nature of the civic uses and with the rights of the communities of reference. These strategic actions will be conceived, in this sense, as operational tools for local authorities, at multiple levels, as well as useful tools to be adopted by the Ministry of the Environment and the Ministry of Cultural Heritage in the two regions. Everything will be explored starting from a critical study of the territory, based on rigorous surveys and inspections, which, moving from the analysis of the historical-urbanistic evolution of the city, the territory and the landscape, dialogues with a multiplicity of knowledge involved such as the regulatory framework but also the fields of survey and representation, restoration and regeneration, environmental design, community inclusion policies.

**Involved Staff:** Marco Calabrò

**Partners:** Università degli Studi di Napoli Federico II.

**Submission Date:** 28/11/2022

**Project Status:** FUNDED (in progress)

**Project title:** ASI FOR FREIGHT: Avoid-Shift-Improve policies FOR reducing polluting emissions and greenhouse gases from road FREIGHT transport

**Scientific Local Responsible:** Armando Carteni

**Call title:** Public call for the selection of project proposals, to be financed under Spoke 10 “Freight Transport and Logistics”, as per the research programme of the National Research Centre For Sustainable Mobility (MOST), using the resources of the National Recovery And Resilience Plan (PNRR) mission 4, “education and research” - component 2, “from research to business” - investment line 1.4, “strengthening research structures and creation of “national R&D champions” on some key enabling technologies”, financed by the European Union – NextGeneration EU” - CUP E63C22000930007 NOTICE CODE CN00000023\_2.

**Description of research activities:** The ASI FOR FREIGHT project provides an estimate of the contribution to polluting and climate-altering emissions of road freight transport, as well as an evaluation of the impact of mitigation policies consistent with national and EU regulations in the sector, and in line with the Avoid-Shift-Improve methodological approach, also in order to contribute to the advancement of knowledge on environmental issues, and of good practices of sustainable and technologically advanced transport, in line with the objectives of MOST and Spoke 10.

**Involved Staff:** Armando Carteni, Furio Cascetta

**Submission date:** June 2024

**Project status:** FUNDED (in progress).

**Project title:** MAAS4NAPLES

**Local Scientific Responsible:** Armando Carteni

**Call title:** Public notice for the presentation of intervention proposals under the National Recovery and Resilience Plan - Mission 1 - Component 1 - Axis 1 - Sub-Investment 1.4.6. “Mobility As A Service For Italy – MAAS4ITALY” - funded by the European Union – NextGenerationEU” by the Ministry for Technological Innovation and Digital Transition (MITD) and the Ministry of Sustainable Infrastructure and Mobility (MIMS) in implementation of the PNRR

**Description of research activities:** The MaaS4Naples research is an experimental project that aims to improve mobility for citizens, improving accessibility to the public and shared transport system.

The project aims in developing three specific Apps: MooneyGo (myCicero), Unico myCicero and MaaS4UNI through which users will be able to choose their personal travel option by also purchasing tickets for all the transport modes used.

**Involved Staff:** Armando Carteni

**Partners:** Municipality of Naples and various partners, including the Campania Region, the Ente Autonomo Volturno EAV, the Unicomcampania Consortium, GE.S.A.C. S.p.A., ANM S.p.A., BE CHARGE srl, Reby Italia srl, M.C. Consulting srl, LIME Technology srl, Helbiz Italy srl, GESCO Cooperative Sociali Consortium, University of Campania "Luigi Vanvitelli", University of Naples "Federico II" and the University "Suor Orsola Benincasa".

*Submission date:* January 2022

*Project status:* **FUNDED (in progress).**

**Project title:** Places and stories of proximity. A methodology for the regeneration of collective spaces in modern neighborhoods

**Scientific Local Responsible:** Claudia de Biase

**Call title:** Prin 2022

**Description of research activities:** The project aims to test a research methodology for the regeneration of collective spaces in modern neighborhoods as a crucial resource to face the challenges of living set by the pandemic outbreak. The proposal will contribute to develop a "city of proximity", by creating the conditions to match the significant supply of collective spaces in modern neighborhoods with the new demand for proximal spaces and services generated by the diffusion of lifestyles and work habits that revolve more intensely around housing environments. Specifically, the research project will test a multidisciplinary and participative intervention methodology, involving different disciplinary areas (architecture and urban design, city planning, architectural and urban history). They will cooperate with local authorities, owners, citizens' associations, and private subjects interested in the regeneration of collective spaces and services in modern neighborhoods.

**Involved Staff:** Giuseppe Guida.

**Partners:** Università di Roma tre, Politecnico di Torino

**Submission Date:** 31/03/2022

**Project Status:** FUNDED (in progress).

**Project title:** Housing mobility and digital transition. Evaluation tools and technologies for understanding current and future people's living needs, supporting territorial governance and regeneration processes.

**Scientific Local Responsible:** Fabiana Forte

**Call title:** Prin 2022

**Description of research activities:** The Project starts from the hypothesis that housing mobility, aimed at improving people's well-being and quality of life, is a phenomenon that will be able to grow up within a new post-pandemic normality and will make the following expected: i) the growth of flexible, hybrid, and innovative work formulas in terms of places and modes of supply; ii) the digital switchover of many activities that have been so far characterized by a 'material' dimension. This phenomenon significantly affects the territorial governance and requires appropriate methodologies, models and tools in order to be studied; the 'historicist' approach municipalities' planning activities are based on is not deemed to be sufficient to understand the new living needs. Based on the above, the overall purpose of the Project is defining methodologies, tools, and appropriate technologies for the analysis and evaluation of new living needs - especially those

related to place - in the time of digital society; such knowledge opens up broad scenarios for virtuous territorial governance, from which urban regeneration can arise: i) facing the flows of housing demand; ii) laying the groundwork for fair housing policies. Thus, the Project is configured as a prodromal study and investigation activity for understanding - among demographic phenomena - housing mobility, which significantly affects urbanization issues and, as a consequence, land use and protection, urban regeneration, protection and enhancement of agricultural activities: all these are of interest to the Italian National Recovery and Resilience Plan.

**Involved Staff:** Claudia De Biase.

**Partners:** Università degli Studi di FIRENZE (capofila), Università degli Studi di ROMA "La Sapienza", Università degli Studi della Campania Luigi Vanvitelli

**Submission Date:** 30/11/2022

**Submission Date:** 30/03/2022

**Project Status:** FUNDED (in progress).

**Project title:** ARPAE\_Public Residential Architecture between Naples and CasErta

**Scientific Responsibles:** Ornella Zerlenga, Claudia de Biase, Francesca Castanò, Giuseppe Guida Caterina Frettoloso, Vincenzo Cirillo, Chiara Ingrosso

**Call title:** *Campania Region, Public notice for the promotion of architectural quality, LR 19/2019 – DD n. 745 of 16.11.2023*

**Description of research activities:** The research focuses on public residential housing neighborhoods with particular reference to those in the area between the province of Caserta and Naples. Public housing neighborhoods are understood to be the settlements built from the post-war period to the 1990s. To date, there is no mapping of public neighborhoods between Naples and Caserta. The intermediate scale of the research object, between architecture and urban planning, implies a research group composed of experts with different skills, all present in the DADI.

The knowledge process will involve local communities and inhabitants, the true beneficiaries of the initiative. The research project, in line with the general objectives of the call, intends to study the pieces of public city that have had so much value in the transformation of the territory and for the history of contemporary architecture, in order to contribute to their enhancement and regeneration.

**Project status:** FUNDED (in progress)

**Project title:** Made in the South. Plans and Architecture in “Terra di Lavoro”

**Scientific Responsible:** Giuseppe Guida

**Call title:** Public notice of the Campania Region for the granting of contributions aimed at promoting the quality of architecture.

**Description of research activities:** The research focuses on the Industrial Development Areas (ASI), with particular reference to that of the province of Caserta, interpreting them as the result of an overall planning approach. In fact, the Master Plan of the ASI of Caserta is an example of the most advanced urban culture of the 60s of the last century, and it was an occasion for the creation of numerous works of modern architecture. In this sense, the research aims to reconstruct their genealogy by considering the individual architectures not as monads, albeit of their quality, but as interconnected architectural and urban facts, the result of a fruitful relationship between the urban plan and the architectural project, and as identity and cultural elements of the entire territory of Terra di Lavoro. The research project, in line with the general objectives of the call, intends to draw attention to the dynamics of territorial transformation connected to industrial planning.

**Involved Staff:** Giuseppe Guida, Francesca Castanò

**Partners:** Campania Region

**Submission Date:** October 2022

**Project Status:** FUNDED (in progress).

**Project title:** Campania Architecture 2023\_ plural territories

**Scientific Local Responsibles:** Ornella Zerlenga, Francesca Castanò, Giuseppe Guida

**Call title:** Architecture Festival II edition, 2022-2023, financing of projects aimed at supporting contemporary Italian architecture and disseminating its knowledge nationally and internationally - Ministry of Culture

**Description of research activities:** The project related to the "Campania Architettura 2023\_plural territories" Festival, by underlining the plurality and diversity of the regional territory, will firstly start from the knowledge of places and heritage of modern and contemporary architecture, also through the comparison among the different urban and territorial realities. In imagining the future development of the territories, a role is recognized for architecture which, through processes of active participation of local communities, can return to be a key tool for regeneration and redevelopment of places, trying to answer the questions that cities and territories pose with respect to their future.

**Involved Staff:** Giuseppe Guida, Francesca Castanò, Ornella Zerlenga, Chiara Ingrosso, Adriana Galderisi, Gianluca Cioffi.

**Partners:** Regione Campania, DIARC, Fondazione Annali dell'Architettura, ENSA Paris-Malaquais

**Submission Date:** 13/10/2022.

**Project Status:** FUNDED (in progress).

**Project title:** M.A.RA - Centre and Museum Centre for the Study and Promotion of Rationalist Architecture.

**Scientific Responsible:** Francesca Castanò

**Call title:** Regione Campania, Public notice for the promotion of quality architecture, LR 19/2019 – DD 7/2021.

**Description of research activities:** The project aims to draw attention to a work of high-quality value, both in the rural and urban context of Sparanise and in the national architectural catalogue. The specific objective of the proposal is to promote awareness of it, starting precisely from the study of a proposal for compatible reuse.

**Partners:** Municipality of Sparanise

**Project submission:** 24/03/2021

**Project Status:** FUNDED (Completed in June 2023)

**Project title:** Prospective Networks: criteria for responsive micro-environmental urban system (Pro\_Nets)

**Scientific coordinator:** Caterina Frettoloso

**Call title:** Call for proposal for the funding of fundamental and applied research projects dedicated to researchers not recipients of other funding

**Description of research activities:** Urban regeneration projects aimed at reconnecting buildings, people, and the city with nature have shown that increasing biodiversity and continuity of use can be achieved by improving the street system, roofs, building façades, and interstitial micro-spaces. Urban small-scale can be rich in biodiversity, contribute ecological benefits for human health and help create more livable cities by increasing the green component or de-paving, introducing



functional elements for collective activities, considering the overall technological-environmental balance on the one hand and the innovation and naturalness of the proposed intervention on the other. Sharing this logic, the main aim is to experiment, through a "micro and interconnected" formula, a methodology based on the definition of meta-design criteria for the preliminary selection of urban system components (micro-spaces and links) in a highly dense city both for ensuring functional continuity and to provide ecosystem services.

**Involved Staff:** Marco Calabrò, Claudia de Biase, Marco Francesco Errico, Rossella Franchino, Diego Matricano, Francesca Muzzillo, Nicola Pisacane, Antonella Violano, Salima Zerari

**Partners:** Università degli Studi della Campania "Luigi Vanvitelli"

*Project submission:* 18 Marzo 2024

**Status:** NOT FUNDED

### Scientific products in the last three years

*Scientific publications in Class A journals and/or indexed in the Scopus/WoS databases*

- [1] CALABRO' M. (2023), Rights of commons in Italy: a different way of owning towards the recognition of an intangible cultural value, in *Rivista di Diritti comparati*, 1/2023, 68-85
- [2] CALABRO' M. (2024), Participatory urban regeneration models: the inclusive dimension of sustainability, in *Nuove autonomie*, 1-2/2024, 103-125
- [3] CALABRO' M., PIETROSANTI A.G. (2024), Ambiente ed ecosistema nel modello dell'autonomia differenziata, in *Nuove Autonomie*, speciale 1/2024, 181-190
- [4] CALABRO' M., DE BIASE C. (2024), Il governo del territorio nel confronto tra saperi: note su una prospettiva funzionale della pianificazione del verde urbano, in *Rivista Quadrimestrale di Diritto dell'Ambiente*, 1-2024, 185-212
- [6] CARTENÌ A., HENKE I., PICONE M. (2024). The value of waiting spaces: Tourists' willingness to pay for high-quality bus terminals. *Transportation Research Interdisciplinary Perspectives*, Open Access, Volume 26. DOI: 10.1016/j.trip.2024.101129
- [7] CARTENÌ A., HENKE I., ERRICO A., BARTOLOMEO M.I.D. (2023). A big data and cloud computing model architecture for a multi-class travel demand estimation through traffic measures: a real case application in Italy. *International Journal of Computational Science and Engineering*, vol. 26, issue 5, pp. 482-493. DOI: 10.1504/IJCSE.2023.133672
- [8] CARTENÌ, A., HENKE, I. (2022); *Transportation Planning, Mobility Habits and Sustainable Development in the Era of COVID-19 Pandemic (Editorial)*. *Sustainability*, 14 (5). DOI: 10.3390/su14052968
- [9] CASTANÒ F., *The construction of modern factory. The introduction of prefabrication in Terra di Lavoro*, in "Vitruvio. *International Journal of Architecture Technology and Sustainability*, n. 8, Special Issue 2, 2023, pp. 18-33
- [10] CASTANÒ F., GALLO A., *Olivetti come valore universale. Una proposta di ampliamento del WHS "Ivrea, città industriale del '900, Restauro Archeologico a. XXX, s.i., 2022, ISSN 1724-9686 pp. 88-93*

*Additional 10 scientific products:*

- [11] DE BIASE C. (2023), Il PINQuA di Caserta tra continuità e innovazione in *Territorio* n. 105, pagg. 7 (56-62), <https://dx.doi.org/10.3280/TR2023-105008>.
- [12] DE BIASE C., LOSCO S. (2024), Seismic Vulnerability of New Conza Della Campania (Av) Foundation City. *ABITARE LA TERRA*, vol. 10 supplemento al n. 60, p. 24-26, ISSN: 1592-8608
- [13] DE BIASE C., GUIDA G., BOCCHINO C., NAPOLITANO C. (2024), In search of a new urban livability. The case study of Parco Verde neighbourhood. *ABITARE LA TERRA*, vol. 10 supplemento al n. 60, p. 21-23, ISSN: 1592-8608

- [14] FRETTOLOSO, C.; HINDERDAEL, L.; MUZZILLO, F. (2024), Reclaiming nature in the city, in ABITARE LA TERRA, Quaderni 10 Supplemento alla Rivista di geoarchitettura.
- [15] GALDERISI A., LIMONGI G. (2024), A methodological path to foster inner peripheries' sustainable and resilient futures: a research experience from Southern Italy, Futures, Vol. 156, <https://doi.org/10.1016/j.futures.2024.103320>.
- [16] GALDERISI A., LIMONGI G. (2024), Living with Risks: Changes in Risk Perception in the Campi Flegrei Volcanic Area (South Italy). Sustainability, 16, 9707. <https://doi.org/10.3390/su16229707>
- [17] GASTALDI F., GUIDA G. (2022), "Made in Sud. L'industria tra intervento pubblico e territorio dilapidato", in Crios, n. 23, ISSN 2279-8986, ISSNe 2531-601X, pp 42-55, DOI: 10.3280/CRIOS2022-023005
- [18] MENONI S., GALDERISI A., CARRION D., GEROSA C. (2024), Cross-Sectoral and Multilevel Dimensions of Risk and Resilience Management in Urban Areas Enabled by Geospatial Data Processing. Sustainability, 16, 8712. <https://doi.org/10.3390/su16198712>
- [19] FORTE F., CUPO P. (2024). "The Collective Domains in the Ecological Transition: A Preliminary Analysis in an Inner Area in the Campania Region, Italy". Land, 13(5), 711; MDPI, Switzerland, pp.1-22. doi:10.3390/land13050711, SCOPUS: 2-s2.0-85194159146, WOS 001234313600001
- [20] ZERARI S., FRANCHINO R., PISACANE N., LLATAS C. SOUST-VERDAGUER B. (2024), Addressing the Difficulties and Opportunities to Bridge the Integration Gaps of Bio-Based Insulation Materials in the European Construction Sector: A Systematic Literature Review. Sustainability, ISSN: 2071-1050, doi: 10.3390/su16198711

**Relationships with international and national Companies, Institutions, Research Centers, Universities during the last three years:**

***Research Line Regenerative and inclusive cities.***

**Collaboration** with the international research group **Compostela Group of University** (prof. Maria Teresa Carballeira Rivera) on the topic "The enhancement of intangible cultural assets for the promotion of the territory" (ongoing)

**Cooperation Agreement** signed between the Department of Architecture and Industrial Design of the University of Campania "Luigi Vanvitelli" and Ente Autonomo Volturno srl (EAV), for the "Analysis of landscapes crossed by the Alifana". Scientific Responsible: Claudia de Biase (in progress).

**Cooperation Agreement** signed by the Department of Architecture and Industrial Design and the Municipality of Caiazzo - as leader of the municipal aggregation composed of the municipalities of Alvignano, Castel Campagnano, Piana di Monte Verna, Ruviano - for the "Study of integrated and sustainable mobility of the Borghi Salute e Benessere Media Valle Volturno Network" (Prot. n. 1782986 of 22/10/2024\_repertory n. 183/2024). Scientific Responsibles: Prof. Maria Antonietta Sbordone, Claudia de Biase (Concluded).

2022-2024 **Blended Intensive Programme (BIP) Erasmus+** between the University of Campania (lead partner), the University of Granada (partner), Suor Orsola Benincasa University (partner), UCLouvain (partner), Oslo University (partner) with an international workshop entitled Pop Europe-Imagines words & architecture (Granada 8-15 July 2023).

***Research Line Cities and resilient human settlements.***

**Collaboration Agreement** between the Municipality of Valle Agricola and the Department of Architecture and Industrial Design to carry out activities related to the sustainable development of the municipal territory; strategies for the redevelopment of the historic center; redevelopment and

refunctionalization of unused or underused buildings; valorization of rural territory and landscape resources; communication strategies and promotion of initiatives; actions involving the local community in decision-making processes; joint participation in research/funding calls. Scientific Responsible: Adriana Galderisi

**Collaboration Agreement** between the Municipality of Pratella and the Department of Architecture and Industrial Design to carry out activities related to the sustainable development of the municipal territory; redevelopment and refunctionalization of unused or underused buildings/areas; enhancement of the rural territory and landscape resources; communication and promotion strategies for initiatives; actions to involve the local community in decision-making processes; joint participation in research/funding calls. Scientific Responsible prof. Adriana Galderisi

**Collaboration Agreement** between the Municipality of Piedimonte Matese and the Department of Architecture and Industrial Design for technical-scientific support in the drafting of the Municipal Urban Plan. December 2024, duration 12 months. Scientific Responsible: prof. Giuseppe Guida

The Scientific Responsible of the Group is member of the Coordinating Board of the “Resilience and Risks Mitigation Strategies – RRMS” - Thematic Group set up within the Association of European Planning Schools (AESOP). In Italy, the establishment of a network of scholars on the issues of prevention, in terms of risk planning, has been launched within the Italian Society of Urbanists.

Some members of the research group actively cooperate with the RESpro - Network of historians for production landscapes - an association of scholars aimed at promoting cultural and scientific activities focused on the history of rural and urban landscapes with a multidisciplinary approach.

Other members cooperate, starting from 2020 and with a coordination role, with the Scientific Steering Committee of the National Institute of Architecture - Inarch - Campania section, to oversee and coordinate the organization of cultural and dissemination activities of the Institute; others are members of the Campania Board of the National Institute of Architecture and in the Board of the Italian Society of Urban Planners.

Finally, the members of the research group have had technical, over the last three years scientific and consultancy collaboration relationships in the field of **sustainable mobility** issues with the Ministry of Transport (MIT), the Lombardy Region; the Tecne S.p.A. - Autostrade per l'Italia Group, and the Cluster Trasporti Italia.

### **Collaborations with Consortia, Scarl or other Institutions participated by the University of Campania Luigi Vanvitelli during the last three years:**

**Collaboration agreement** between the Department of Architecture and Industrial Design and the Consortium Agrorinasce for the appraisal of agricultural lands confiscated from “camorra” and localized in the farm ‘La Balzana’ in S. Maria la Fossa (CE) (Scientific Responsible: Fabiana Forte, luglio 2023- ongoing)

**ISI Web of Science Subject Categories:**

Urban Studies, Regional & Urban Planning, Architecture, Environmental Studies, Law, Transportation

**Scientific-Disciplinary Sectors:**

CEAR 12/a  
CEAR 12/b  
CEAR 11/a  
CEAR-08/c  
CEAR 03/c  
CEAR-03/e  
GIUR-06/a

**Keywords:**

Urban Regeneration, Resilience, Environmental Risks, Inner Areas, Social Cohesion, Social Inclusion, Industrial Heritage, Author's Factories, Peri-Urban Territories, Sustainable Mobility

**ERC Categories:**

SH2\_4 Legal studies, constitutions, human rights, comparative law  
SH5\_6 History of art and architecture, arts-based research  
SH5\_8 Cultural studies, cultural identities and memories, cultural heritage  
SH7\_5 Sustainability sciences, environment and resources  
SH7\_6 Environmental and climate change, societal impact and policy  
SH7\_7 Cities; urban, regional and rural studies  
SH7\_8 Land use and planning  
SH7\_9 Energy, transportation and mobility  
SH7\_10 GIS, spatial analysis; big data in geographical studies  
PE8\_11 Environmental engineering, e.g. sustainable design, waste and water treatment, recycling, regeneration or recovery of compounds, carbon capture & storage