



MS3 Stakeholder mapping and multi-level stakeholder activation

R1.3 Raport sintetic: Rețeaua SET-PED de Actori Locali Activată

Lead partner:
Urbasofia
(WP 5 – MS3)

Project Consortium:



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Mascalucia municipality
Midsummer



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Statement of originality

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Executive Summary - MS3

Stakeholder Mapping and Multi-level Stakeholder Activation

This report presents the results of Milestone 3 (MS3) in the SET-PED project, which focuses on stakeholder mapping and the development of a multi-level activation strategy in the three pilot cities: Mascalucia (Italy), Eskilstuna (Sweden) and Bucharest-Sector 6 (Romania). Stakeholder engagement is treated as a precondition for the co-creation, implementation and long-term scaling of climate-adapted renovation solutions, modular smart urban furniture and circular strategies supporting Positive Energy Districts (PEDs).

The approach is informed by the Her City Toolbox and combines a multi-level governance perspective with a Quadruple Helix lens (public sector, academia, industry, civil society). It structures the process of identifying and classifying stakeholders, analysing their roles, power and interests, and defining clear engagement pathways while mainstreaming gender and inclusion, with specific attention to girls and young women, children, elderly residents and disadvantaged communities.

Stakeholders were identified through desk research, reviews of local policies and projects, partner knowledge and snowball mapping. They were then classified by power, interest and function (e.g. regulator, operator, knowledge provider, co-creator, beneficiary, future maintainer) and positioned in a power-interest matrix to guide the intensity and type of engagement. Follow-up internal workshops in each city served to critically review this constellation, adjust roles where necessary and verify that vulnerable and underrepresented groups were properly included and given appropriate weight in the process.

The resulting constellations reflect the specific context of each pilot. In Mascalucia, the focus is on Monte Ceraulo Park and its surroundings, involving Regione Sicilia, Comune di Mascalucia, universities and research institutions, local associations and circular-economy actors, with children and adolescent girls as key co-creation partners. In Eskilstuna, the constellation reflects the “urban healing” agenda in Fröslunda, connecting municipal departments, the housing company K-fast, community services, circular actors and youth, especially young women with everyday experience of the area. In Bucharest-Sector 6, the mapping covers The Morii Lake, Crângași and adjacent areas and brings together the Sector 6 Local Council and directorates, universities,

research institutes, circular value-chain companies, makerspaces, NGOs, neighbourhood associations and school communities.

Based on this mapping, a multi-level activation strategy has been defined. At local level, it prioritises residents, youth, schools and community organisations through walks, workshops, mapping, model-making and prototyping. At municipal level, it engages administrations and housing companies through technical workshops, joint site visits and coordination meetings to embed prototypes in existing plans and investment cycles. At regional/national and international levels, it links SET-PED to wider policy frameworks and knowledge networks to enable replication and exchange.

Each pilot has articulated a city-specific engagement pathway. In Mascalucia and Eskilstuna, this combines expert site analysis with participatory assessment using Her City tools and a sequence of co-creation workshops that move from exploratory walks to design-thinking and model building for solar-integrated, circular smart furniture. In Bucharest-Sector 6, early engagement at the West Side Flower Fest collected perceptions on use, comfort and safety around the Morii Lake and Crângași, identifying preferred locations and desired functions for smart furniture (e.g. shade, seating, charging, reuse of materials), which was further developed in the co-creation workshop.

To operationalise this strategy, local actor networks are being structured in all three pilots. In Bucharest–Sector 6, a core institutional network (PS6, INOVARE6, ASPS, ADP) has been activated to align community insights with technical and logistical considerations, shortlist pilot sites and prepare the next co-creation steps. In Eskilstuna, the emerging network brings together municipal departments, housing actors, schools and community organisations around the Fröslunda “urban healing” agenda. In Mascalucia, Monte Ceraulo Park has become the main focal point of the network, bringing together the municipality, the University of Catania, environmental associations and local user groups to explore how circular, solar-powered urban furniture can enhance the park’s ecological, educational and recreational functions.

Risk mitigation is integrated throughout, addressing institutional inertia, regulatory constraints, community scepticism and maintenance responsibilities through early bilateral engagement, clear communication of added value, gradual piloting and the involvement of trusted local actors. A monitoring and adaptation framework combines basic quantitative indicators (number and diversity of participants, share of youth and young women, number and type of activities) with qualitative feedback to adjust engagement over time.

Overall, MS3 delivers a validated stakeholder constellation for each pilot, city-specific engagement and co-creation pathways, emerging local actor networks and a risk-aware activation framework. These outputs provide a solid foundation for the next phases of SET-PED, guiding co-design and prototyping of regenerative, solar-integrated urban furniture and supporting the development of scalable strategies for positive energy districts and regenerative public spaces in the three pilot cities and beyond.

Introduction

Stakeholder engagement is a core component of the SET-PED project, which develops climate-adapted renovation solutions, modular smart urban furniture and circular city-scale strategies affecting residents, public authorities, utilities, private companies and civil society in the three pilot cities: Mascalucia (Italy), Eskilstuna (Sweden) and Bucharest-Sector 6 (Romania). Early involvement, continuous dialogue and shared ownership are essential to build legitimacy, align expectations, reduce implementation risks and support the long-term adoption and scaling of SET-PED outputs.

The stakeholder engagement process for Milestone 3 is grounded in the Her City Toolbox, an established framework for inclusive and gender-transformative urban development. In particular, Block 1 - Stakeholder Engagement - has informed the methodology used in SET-PED to identify, map and activate stakeholders and target groups who will participate throughout the assessment, visioning, design and implementation phases. Block 1 structures the process into preparation, stakeholder mapping and engagement of participants. It emphasizes setting the groundwork for the activity, mapping relevant stakeholders and target groups, analysing their roles and inviting them into the process under clearly defined terms of engagement. The intended outcome is a representative multi-stakeholder group capable of mainstreaming gender and inclusion perspectives across the entire process.

In SET-PED, this approach is combined with a multi-level governance perspective and a Quadruple Helix lens, ensuring that government, academia, industry and communities are represented, and that particular attention is devoted to youth, women, residents of disadvantaged neighbourhoods, and other vulnerable groups. Stakeholders were identified through desk research, local project and policy reviews, partner knowledge, actor-network mapping and initial conversations in each pilot city, then classified and validated through internal workshops. Initial engagement activities have already been launched in all three pilots, including participation in community events,

exploratory walks and first co-creation sessions, which serve both to test engagement methods and to refine the stakeholder constellation based on early feedback.

The result, along with the aforementioned constellation, is a multi-level activation strategy that underpin subsequent co-creation activities in the project, linking early mapping and engagement to the later phases of site selection, prototyping and integration into local strategies for positive energy districts and circular urban regeneration.

Stakeholder Mapping

The stakeholder mapping carried out under Milestone 3 follows the methodology of Her City Toolbox Block 1 - Stakeholder Engagement. This block structures the identification and recruitment of relevant actors across governance levels and sectors. It begins with defining the scope and objectives of the process, proceeds to mapping stakeholders and primary and secondary target groups using a Quadruple Helix perspective, and then focuses on gathering knowledge about the roles, interests, vulnerabilities and influence of each actor and defining clear terms of engagement. Stakeholders are therefore not merely listed, but analysed in depth, with strong emphasis on the inclusion of youth, girls and marginalized or underrepresented groups. This prepares the ground for subsequent Her City blocks on city-wide assessment, site-specific assessment, joint visioning and co-design.

In SET-PED, the identification phase combined several sources. Partners reviewed local policies, regeneration initiatives and ongoing projects related to circular economy, positive energy districts and public space in each pilot city. They drew on their institutional knowledge as municipalities, universities, NGOs and SMEs and applied a Quadruple Helix lens to ensure a balanced representation of public authorities, academic and research organizations, private sector actors, civil society and community groups. Snowball identification during early discussions allowed the inclusion of actors that are less visible in formal networks, such as neighbourhood initiatives, informal groups and community leaders. Particular care was taken to identify actors representing or working with girls, young women, youth more broadly, elderly residents, low-income communities and other groups whose perspectives are often absent from traditional planning processes.

Once the list of actors was compiled, stakeholders were classified according to their level of power, their level of interest in SET-PED and their

main function in the project. Power was defined as the capacity to influence decisions, regulations, resources or implementation. Interest referred to the relevance of the project to the stakeholder's mission and their expected degree of engagement. Roles included knowledge provider, co-creator, beneficiary, regulator, operator, resource owner, funder and future maintainer. The classification was organized in a power-interest matrix distinguishing high- and low-power actors and high- and low-interest actors. This matrix will guide the choice of engagement intensity and methods, indicating where close collaboration is required, where targeted communication is sufficient and where specific efforts are needed to engage powerful but less interested stakeholders.

The preliminary stakeholder constellation was then validated and refined in internal partner workshops for each pilot city. These workshops verified that no key actors were missing, that a balanced representation of institutional and community stakeholders had been achieved and that the perspectives of underrepresented groups were adequately reflected. They also clarified the expected contribution of each stakeholder across the main components of SET-PED: circular value chains and reuse of materials originating from renovation, design and implementation of smart urban furniture, public space transformation, energy and energy communities, and long-term governance and maintenance.

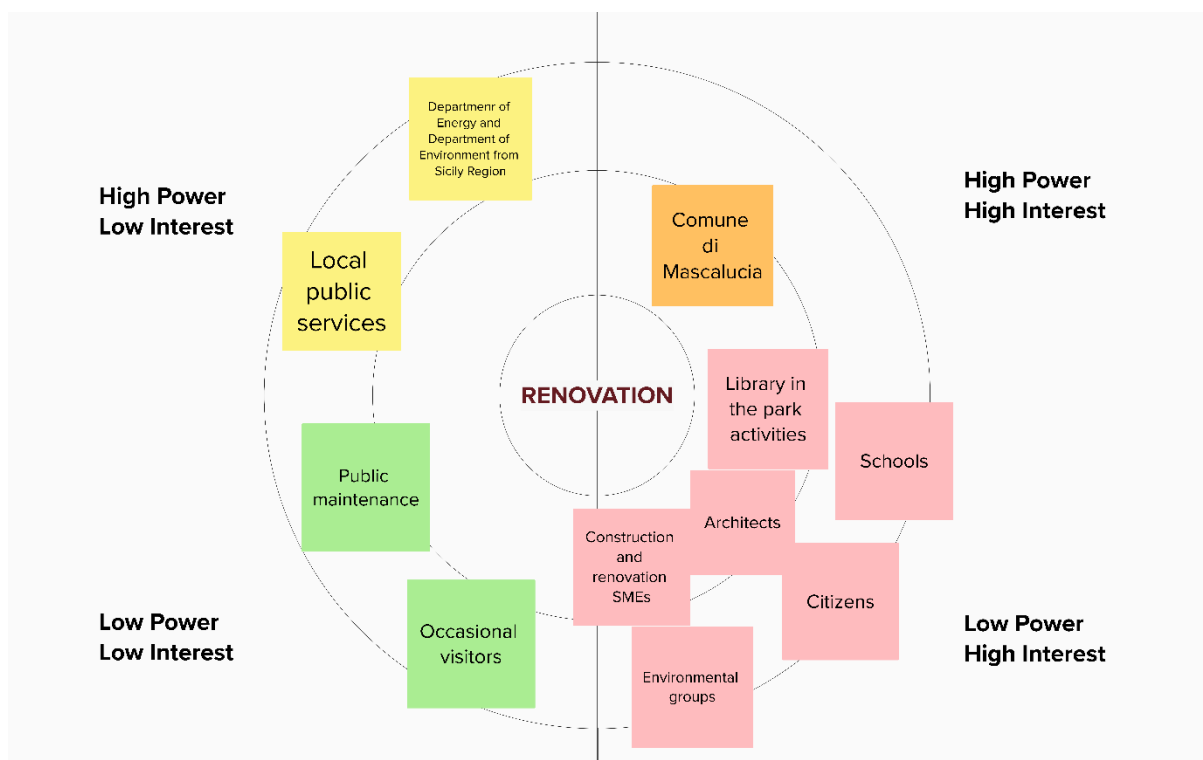
In Mascalucia, the stakeholder constellation reflects the ecological, educational and community-oriented nature of the Monte Ceraulo Park, which serves as the main context for the SET-PED pilot. The mapping process identified a layered network of institutional, academic, environmental and community actors whose roles are essential for the co-creation and long-term integration of circular, energy-aware urban furniture in a sensitive natural landscape.

At the governance level, Regione Sicilia, including the Department for Environment and Energy and the PNRR Coordination Body, acts as a key regional reference point for ecological transition, energy planning and alignment with wider funding frameworks. At municipal level, Comune di Mascalucia, particularly its urban planning, green spaces and public works units, forms the central actor for permitting, spatial integration, maintenance and operational coordination. The municipality is responsible for balancing innovation with environmental protection, given the presence of biodiversity, volcanic formations and ecologically sensitive areas within the park.

Academic and research stakeholders such as the University of Catania and the National Research Council (CNR) contribute expertise in ecology, biodiversity, landscape management, circularity and renewable energy. Their involvement supports evidence-based assessment of environmental constraints, educational programming with local schools, and the integration of nature-based solutions into the design process.

Professional actors include local architects, designers and engineering experts who can support feasibility, structural compliance and context-sensitive design. Circular-economy cooperatives and companies were also mapped as important contributors, due to their capacity to supply or process materials for reuse, an important dimension of SET-PED's circular smart furniture concept.

The community layer includes CAI - Club Alpino Italiano, LIPU, families, elderly residents, outdoor enthusiasts and nearby schools, all of whom use the park for recreation, hiking, environmental education and nature appreciation. These actors are essential co-creators, providing insights into accessibility challenges, safety concerns and opportunities for enhancing the park's social and educational functions. Their long-standing presence and trust within the community also contribute to stewardship, maintenance and awareness-raising.



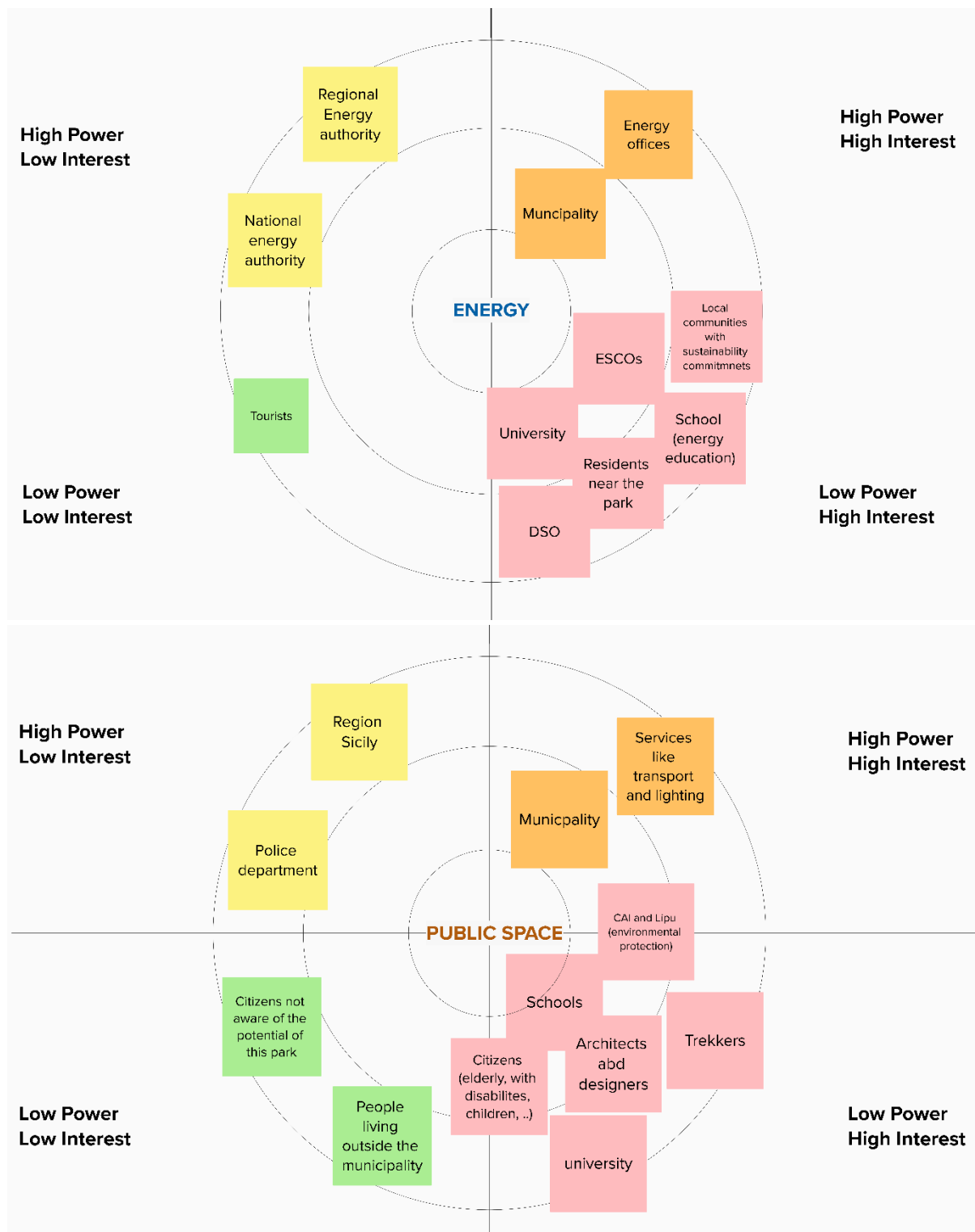
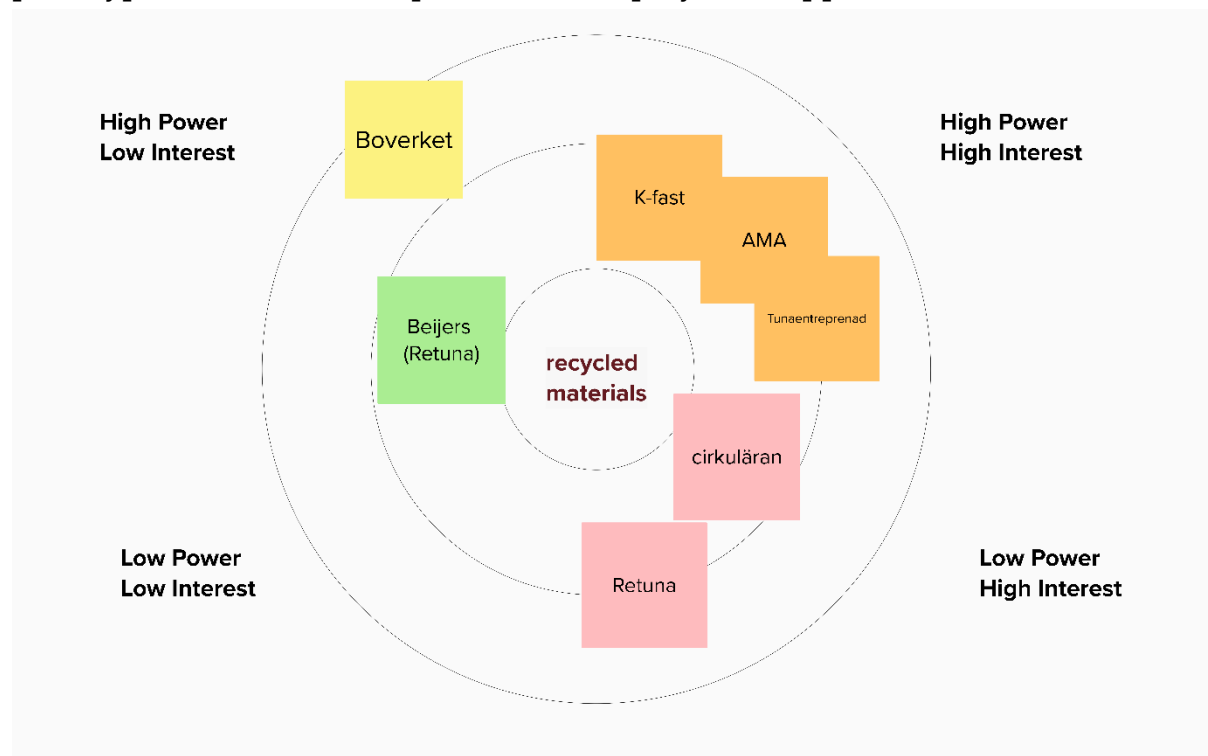


Figure 1 - Quadruple Helix Constellation – Mascalucia

In Eskilstuna, the stakeholder constellation reflects the city's focus on "urban healing" and circular economy, particularly in Fröslunda and nearby neighbourhoods. Core municipal actors include the Urban Planning Department, environmental and climate units, departments responsible for public transport, public lighting and green spaces, and the local police.

Collectively, they shape the regulatory, spatial and safety conditions necessary for implementing smart urban furniture and improving the cultural and walking path linking the neighbourhood to other parts of the city. The municipal housing company K-fast is a key stakeholder as both owner and manager of housing stock and as a source of recyclable materials from renovation projects that can feed into circular value chains for SET-PED. Community-oriented municipal services, including the citizens' office and other local meeting points in Fröslunda, as well as the broader district network that brings together schools, the church, local police and property owners, are crucial for understanding everyday challenges, coordinating interventions and reaching residents who may otherwise be difficult to engage. Youth and school communities, with a particular focus on girls and young women, are prioritised target groups in line with the Her City methodology, contributing to data collection, sharing their experiences of public space and co-creating ideas for smart furniture and public space improvements. Circular and reuse centres, along with actors involved in labour market interventions, further reinforce the potential to link SET-PED prototypes to skills development and employment opportunities.



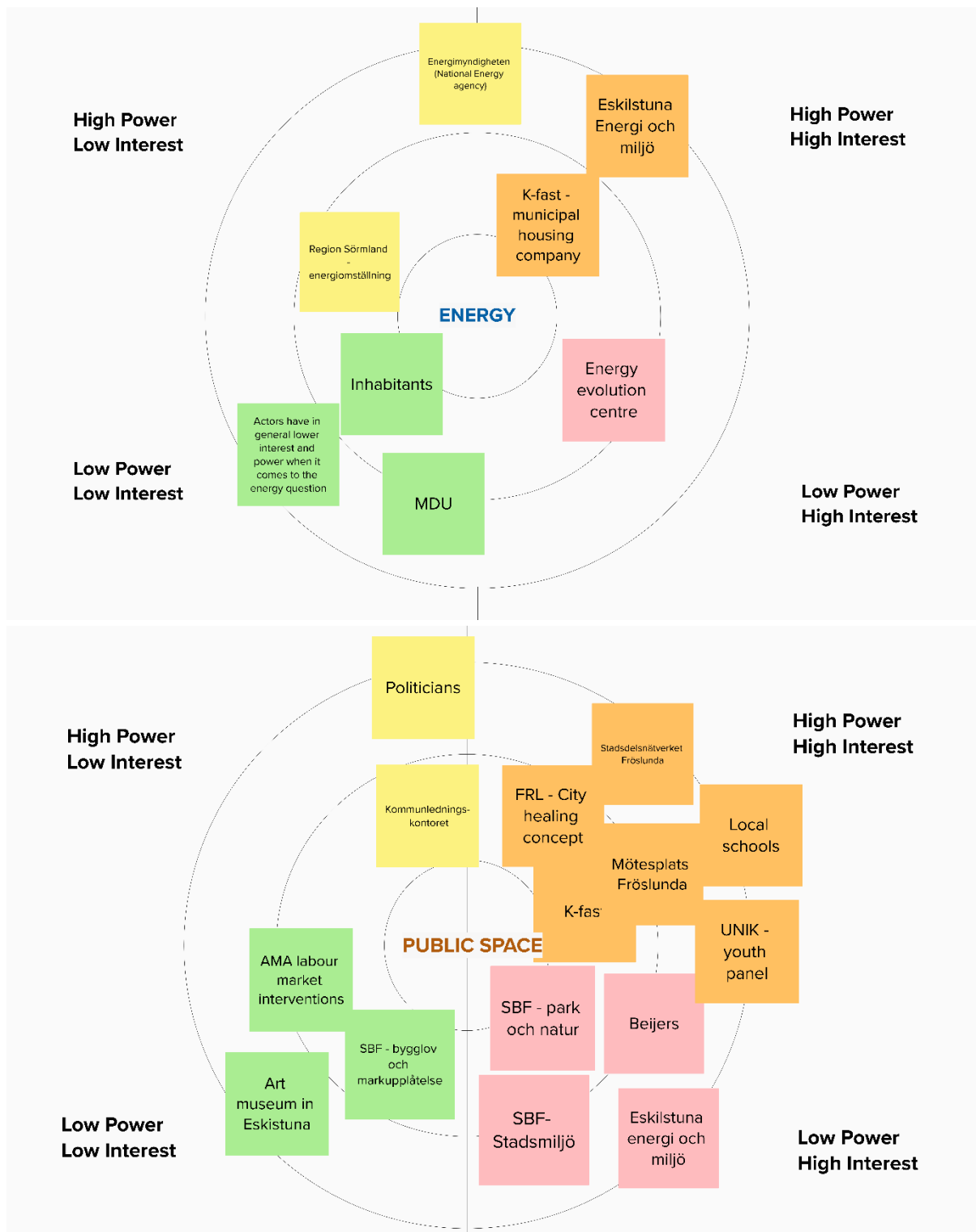


Figure 2 - Quadruple Helix Constellation – Eskilstuna

In Bucharest-Sector 6, the mapping focused on The Morii Lake where circular smart urban furniture and public space interventions could be piloted. At the governance level, the Sector 6 Local Council, the Mayor's Office and relevant sector directorates were identified as high-power stakeholders,

including departments responsible for urban planning, public spaces and green areas, technical services, external funds and social services. They provide the regulatory framework, approve interventions and allocate resources, and are essential for transitioning prototypes from pilot status to longer-term programmes. Academic stakeholders such as the Ion Mincu University of Architecture and Urbanism, Polytechnic University of Bucharest and research institutes in construction and circular economy support the design, testing and evaluation of solutions. Innovation and entrepreneurship actors, including makerspaces, hubs and start-ups, are important for prototyping, small-scale production and exploring new business models around circular urban furniture. The circular value chain is represented by companies and utilities involved in recycling, waste management, renovation and demolition, which can supply materials and advise on realistic maintenance strategies. Community stakeholders include residents' associations, administrators of housing blocks, school communities, NGOs and civic initiatives focused on environment, zero waste, safety and community building. They are positioned as beneficiaries, co-creators and potential co-maintainers, able to mobilise local knowledge, support participatory processes and embed prototypes in everyday life.

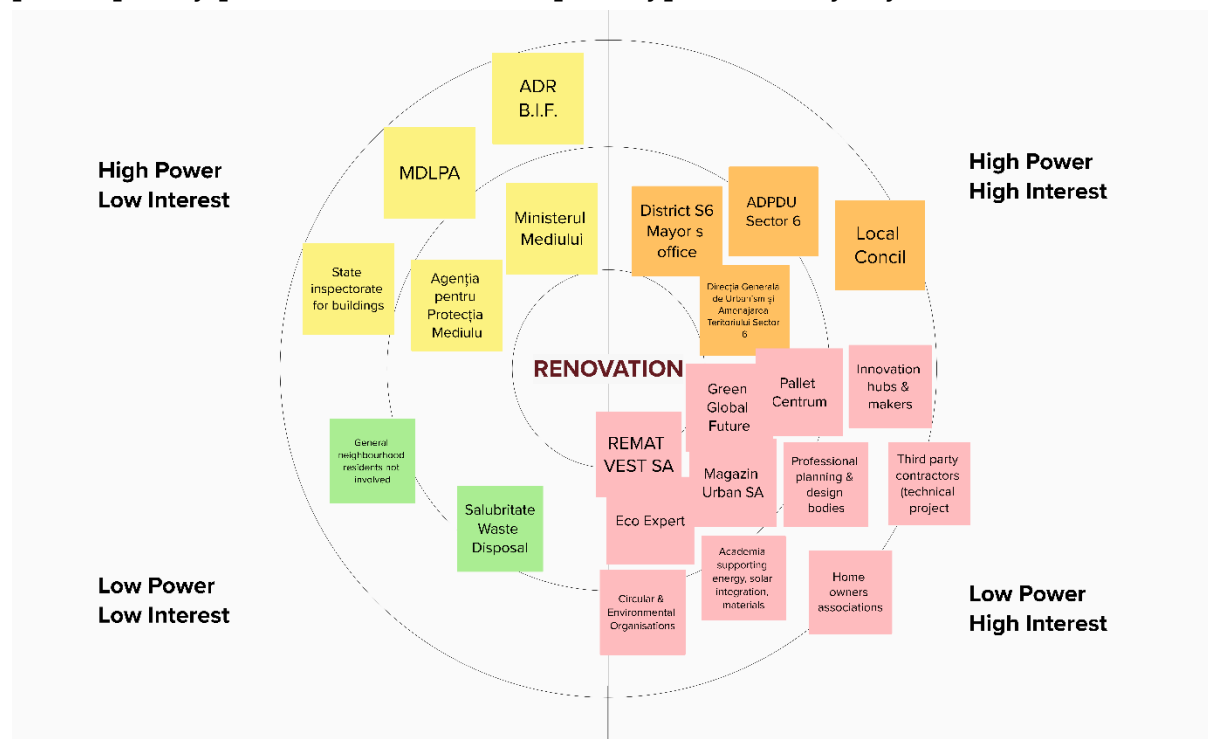




Figure 3 - Quadruple Helix Constellation – Bucharest

The final stakeholder mapping for each city is compiled in an annex table structured by governance level and Quadruple Helix category. For each stakeholder, the table records power, interest, function, potential level of engagement (inform, consult, involve, collaborate, empower), motivations, concerns and preferred engagement formats. The annex is conceived as a living document, to be updated at key project milestones in response to feedback, new

partnerships and evolving roles as SET-PED progresses from mapping and assessment towards design, implementation and replication.

Multi-level Activation Strategy

The multi-level activation strategy translates the stakeholder mapping into a practical engagement framework across local, municipal, regional/national and international levels. It is guided by several principles. First, inclusiveness and gender equality are central: the strategy actively seeks to involve youth, young women and marginalised groups as co-creators, not only as consultees. Second, transparency and shared ownership underpin all communication: project phases, expectations, responsibilities and constraints are communicated clearly to build trust and avoid participation fatigue. Third, iterative co-creation replaces one-off consultation: stakeholders are involved at multiple stages, from data gathering and analysis to visioning, prototyping, prioritisation and validation. Fourth, the strategy emphasises local empowerment, strengthening the capacity of communities and municipal institutions to maintain, adapt and replicate SET-PED solutions beyond the lifetime of the project.

At the local level, the strategy prioritises neighbourhood communities, residents' groups, youth, schools, elderly residents, environmental and community NGOs and informal initiatives. In Mascalucia, this includes park users, local associations and families linked to Monte Ceraulo; in Eskilstuna, residents of Fröslunda and youth familiar with local paths and public spaces; and in Sector 6, residents around The Morii Lake, Drumul Taberei and disadvantaged areas such as Giulești-Sârbi. Engagement at this level focuses on understanding everyday practices, perceived challenges and aspirations related to public space, and on co-defining the functions and forms of smart urban furniture and related interventions. Methods include participatory walks, site observations, mapping exercises, workshops using Her City tools, model building, hands-on prototyping sessions, neighbourhood meetings and school-based activities introducing circularity, energy use and co-creation.

The engagement pathways in each pilot city further specify how these principles are operationalised. In Mascalucia, the local strategy combines a technical assessment of Monte Ceraulo Park, led by municipal design and planning experts, with a qualitative assessment using Her City tools such as urban walks, Kobo Collect surveys and child-friendly checklists, focusing on children and adolescent girls as primary target groups. Exploratory walks and

creative exercises with children are followed by design-thinking workshops bringing together key stakeholders, students and adolescents, where needs and opportunities are translated into requirements and models for solar-integrated, circular urban furniture built from locally available reused materials. The first phase of LAN activation has centred on the Municipality of Mascalucia and its technical offices for urban planning, public works and environment, supported by the University of Catania as a key knowledge partner. Local primary and secondary schools are being engaged as the main channel for applying the Her City methodology, while the LAN will progressively expand to include environmental associations, young hikers, volunteers and regular park users, so that everyday experiences of access, safety and comfort can inform future design decisions.

In Eskilstuna, the Local Actor Network was first activated through a coordination meeting held at Mötesplats Fröslunda, where municipal departments, Shared City, Imottesjo, Dalarna University and the municipal housing company K-fast reviewed the Fröslunda development plan, examined safety and accessibility challenges and validated priority areas for the pilot. This meeting established the organisational structure of the LAN, clarified roles and responsibilities and created a shared institutional framework for progressing with the pilot. Building on this foundation, a separate co-creation workshop was subsequently held with young women from Jensen Gymnasium, identified as the primary target group due to their direct experience of public-space conditions in Fröslunda. Using reused materials provided by Cirkuläran/Retuna and Tuna entreprenad, participants conducted spatial evaluations, generated design proposals and produced mock-ups illustrating how circular, solar-integrated furniture could enhance safety and comfort along the central field. A landscape architect validated the proposed working spots in relation to the municipal plan and cultural path, and the workshop results now feed into the next stages of validation and early design, ensuring that youth perspectives are embedded in the development of the Eskilstuna pilot.

In Bucharest-Sector 6, early engagement has taken the form of participation at the West Side Flower Fest, using interactive maps, questionnaires and informal conversations to introduce the project and gather initial perceptions about the Morii Lake, Crângași Park and surrounding areas. Residents were invited to indicate where they live, walk, relax, meet friends, walk their dogs and where they would like to see smart urban furniture, as well as where they feel unsafe, experience noise or observe poor lighting. The results showed that Crângași Park and the promenade around the Morii Lake are the

most valued spaces for walking and relaxation, while certain edges of the area are associated with discomfort, traffic and poor lighting. Participants expressed interest in smart furniture that is solar powered, built from recycled or sustainable materials, durable and easy to maintain, and that provides shade, comfortable seating and functionalities such as phone charging and Wi-Fi. These findings inform both the selection of potential pilot locations and the functional requirements for the prototype and will be deepened through subsequent co-creation workshops with residents, school communities and community groups. At the same time, a core local actor network has been activated, bringing together PS6 (Urbanism & Smart Innovation Unit), INOVARE6, ASPS and ADP. A first coordination workshop was used to review potential locations near the Morii Lake and Crângași Park, align community insights from the festival with technical and logistical considerations and converge on priority sites, while also clarifying roles related to access to recycled materials and preparation of the next co-creation steps.

At the municipal level across all three pilots, engagement focuses on city and sector administrations, housing companies, technical departments and public service providers. Objectives at this level include integrating SET-PED prototypes into existing plans and investment cycles, ensuring regulatory and technical feasibility and identifying upscaling opportunities. Engagement methods include technical workshops, bilateral coordination meetings, joint site visits, data-sharing agreements and mixed sessions combining municipal staff and community representatives. Messages emphasise contributions to climate, energy and social objectives, as well as operational and maintenance advantages, with expected outcomes such as formalised pilot locations, integration of prototypes into planning documents and strengthened cross-departmental cooperation.

At regional and national levels, the strategy targets agencies, programmes and networks concerned with energy transition, climate adaptation, circular economy, public space and building renovation. Objectives include aligning SET-PED with broader policy frameworks, exploring opportunities for replication and funding and disseminating lessons learned from the pilots. Engagement takes the form of participation in events, targeted policy dialogues, preparation of policy briefs and contributions to working groups on PEDs and circular urbanism.

At the international level, SET-PED engages with the DUT Partnership and circular city communities. The strategy focuses on knowledge exchange, contributions to guidelines and knowledge hubs and interaction with other

projects addressing similar themes. Participation in international conferences, workshops, webinars and joint publications enables the dissemination of SET-PED's stakeholder-based approach, while facilitating alignment with emerging international standards and best practices.

Within this multi-level framework, the project defines for each major stakeholder group specific engagement objectives, key messages, methods and tools, responsible partners, indicative timing and expected outcomes. For local residents and community organisations, objectives include co-creating solutions that address needs related to comfort, safety, social interaction and energy awareness, with messages highlighting direct benefits and opportunities for empowerment. Engagement is led mainly by local partners, municipalities, community NGOs and universities, especially in the early and middle phases of the project, and expected outcomes include co-designed prototypes, increased sense of ownership and the establishment of community-based maintenance arrangements. For municipal departments and housing companies, the focus is on integrating SET-PED actions into formal planning and investment processes, ensuring feasibility and opening pathways for replication, with engagement led primarily by municipal partners and technical experts throughout the project cycle

Risk mitigation is integral to the activation strategy, particularly regarding high-power, low-interest actors and potential opponents of change. High-power actors who may initially show limited interest, such as technical departments under significant workload, housing companies with other investment priorities or regulatory bodies cautious about innovative materials and designs, are approached through early, targeted engagement. This includes bilateral meetings, clear articulation of the added value of SET-PED, demonstration of complementarities with existing objectives and gradual implementation of pilots, supported by evidence from the co-creation process and monitoring activities. For low-power, low-interest actors, such as community members sceptical of participatory processes or unfamiliar with circular and energy topics, the strategy emphasises accessible communication, tangible demonstrations (e.g. temporary or test installations) and the involvement of local ambassadors and trusted community leaders. Risks such as community resistance, fears of vandalism or concerns about fairness and maintenance are addressed through co-maintenance discussions, transparent agreements, careful selection of locations and functions and clear communication on roles and responsibilities.

Monitoring and adaptation mechanisms are embedded in the strategy to ensure that engagement remains effective. Quantitative indicators include the number and diversity of stakeholders engaged, the proportion of participants who are youth and young women, the number and type of co-creation activities and the degree of cross-level participation. Qualitative indicators include stakeholder satisfaction, perceived relevance and fairness of the process and evidence that co-created proposals are incorporated into technical design and strategic planning. After each workshop or significant engagement activity, partners conduct internal debriefings, collect feedback and identify areas for improvement. The stakeholder mapping is periodically updated to reflect the emergence of new actors, shifts in roles and lessons learned. Insights from engagement activities are integrated into technical work packages and communication and dissemination efforts, ensuring that stakeholder perspectives consistently inform project decisions.

Conclusion

The stakeholder mapping and multi-level activation strategy developed for Milestone 3 provide a coherent and robust foundation for the implementation of SET-PED in Mascalucia, Eskilstuna and Bucharest-Sector 6. By combining the structured, gender-transformative approach of the Her City Toolbox with a multi-level governance and Quadruple Helix perspective, the project has established a clear and nuanced understanding of key actors, their interrelations and their potential roles in the project.

This approach supports local and institutional buy-in by ensuring that interventions are rooted in clearly articulated needs and aspirations, particularly those of groups often underrepresented in decision-making, such as girls, young women, elderly residents and communities in disadvantaged neighbourhoods. It reduces risks by anticipating institutional and community concerns, involving high-power stakeholders at an early stage, clarifying roles and expectations and designing targeted strategies for actors who may be sceptical or resistant. It also strengthens the long-term sustainability of project outcomes by building the capacity of local communities and municipal institutions to maintain and replicate circular smart urban furniture and related public space interventions, and by connecting the pilots to broader regional, national and international policy frameworks.

The outputs of Milestone 3, comprising the detailed stakeholder mapping, the power-interest analysis, the city-specific engagement pathways, the emerging local actor networks and the associated monitoring and feedback

mechanisms—will guide subsequent phases of the project. They will structure the co-design and prototyping of smart urban furniture in the pilots, inform the integration of energy and circularity components and support the development of scalable strategies for positive energy districts and regenerative public spaces. In this way, the stakeholder approach developed under Milestone 3 contributes both to the successful implementation of SET-PED in the three pilot cities and to wider efforts to promote more inclusive, resilient and climate-neutral urban environments.

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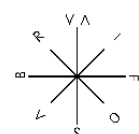
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SECTORULUI 6**

Municipality Bucharest Sector 6

Mascalucia Municipality (cooperation partner)

Midsummer (cooperation partner)

Annex 1

Table 1 - Stakeholders Mascalucia

Quadhelix	Subtype	Name	Possible level of involvement (Inform., Consult, Involved, Collaborate, Empower)	Short description
Government	National/regional authorities	Regione Sicilia, Dipartimento Ambiente ed Energia, PNRR Coordination Body (Region Sicily, Department for Environment and Energy)	Inform/Consult	Regional authority overseeing ecological transition, energy planning and PNRR-funded projects. Can support funding (not ensured) and regulatory alignment.
	Decision makers			
	Municipal departments and public services *	Comune di Mascalucia Urban planning, green spaces, public works	Consult/Involve /Empower	Key actor for permitting, spatial planning, and integration of urban furniture, maintenance and coordination.
Academia	Universities	University of Catania	Involve/Collaborate	Active in ecological and sustainability research. Can support monitoring, educational activities and contribute to

				innovation design.
	Research institutions	CNR	Involve/Collaborate	Ecological and forestry, biodiversity mapping, nature-based solutions.
	Innovation hubs			
Industry	Architects and designers	Local architects and landscape designers	Consult/Collaborate	Co-development of sustainable and site-sensitive urban furniture in accordance with park values.
	Urban planners and policy makers	Urban planners	Consult	Provide vision alignment between renovations and long-term strategy.
	Structural and Civil engineers	Engineers	Inform/Consult	Structural feasibility, materials selection and compliance for future urban additions.
	Circular value chains (from renovation to modular urban furniture)	Cooperatives and companies	Involve/Collaborate	Circular economy principles for reuse and modular furniture.
	Other			
Community	NGO's	CAI Club Alpino Italiano	Collaborate/Empower	Active in nature conservation, hiking, environmental education. Trusted by the community.

	Individual citizens	Families, elderly residents, outdoor enthusiasts	Consult/Involve	Main users of the park. Important for community-based feedback.
	Local Community organizations	LIPU	Collaborate/Empower	Co-organization awareness events, sustainability and animal protection labs, maintenance and space coordination.
	Youth and education initiatives (student groups, girls and young women)	Local schools	Involve/Collaborate	Educational programs on ecology and smart solutions, participation in co-creating and testing.

Table 2 - Stakeholders Eskilstuna

Quadhelix	Subtype	Name	Possible level of involvement Inform. Consult Involved Collaborate Empower	Short description
Government	National/regional authorities	Boverket, Energimyndigheten, Region Sörmland	Inform	
	Decision makers	Local politicians	Inform	
	Municipal departments and public services *	Sara Sandsten, art museum	Involve Collaborate Co-creation with citizens and artists	Responsible for coordinating artists and citizens - design furniture.

		AMA - Labour market intervention.	Involve Collaborate Empower	Mapping conditions.
		K-fast, public housing	Involve Collaborate	Building the furniture. Citizens that's a part of the program, people that are far from the labour market.
		Eskilstuna Eneregi och miljö	Consult	Provide recycled materials.
Academia	Universities	Mälardalen University	Inform Collaborate	
	Research institutions			
	Innovation hubs	Energy Evolution Center	Inform Consult Collaborate	
Industry	Architects and designers			
	Urban planners and policy makers	Eskilstuna Municipality	Involve Collaborate Empower	
	Structural and Civil engineers			
	Circular value chains (from renovation to modular urban furniture)	K-fast, public housing, Retuna Beijers and Cirkuläran Tuna entreprenad	Involve Collaborate	Provide recycled materials.
	Other			

Community	NGO's			
	Individual citizens			
	Local Community organizations	Mötesplats Fröslunda (citizens office)	Involve Consult	Mapping conditions and needs in the area. Local knowledge.
		City/district network Fröslunda - actors from civil society (local police, property owners)	Involve Consult	Mapping conditions and needs in the area. Local knowledge.
	Youth and education initiatives (student groups, girls and young women)	Schools in the area, young people from Jensen Gymnasium living in the area.	Inform Consult Collaborate	Mapping conditions and needs in the area. Local knowledge.

Table 3 - Stakeholders Bucharest Sector 6

Quadhelix	Subtype	Name	Possible level of involvement Inform. Consult Involve Collaborate Empower	Short description
Government	National/regional authorities	Consiliul Local Sector 6, Agenția pentru Protecția Mediului, Ministerul Mediului	Inform, Consult, Collaborate, Approve	Responsible for environmental, urban planning, and energy policies at the local level.

	Decision makers	Mayor of Sector 6, Sector 6 Local Council	Inform, Consult, Empower	Creating the legislative framework and allocating financial resources.
	Municipal departments and public services *	Direcția Generală de Urbanism și Amenajarea Teritoriului Sector 6, ADPDU Sector 6	Consult, Involve, Collaborate	Crucial body for permission of installing urban furniture, stand as gatekeepers for aesthetic, environmental heritage considerations, and recycled materials
Academia	Universities	Ion Mincu" University of Architecture and Urbanism, Polytechnic University of Bucharest	Consult, Collaborate	Research and development of circular furniture.
	Research institutions	Institutul Național de Cercetare- Dezvoltare în Construcții și Economia Circulară	Consult, Collaborate	Studies on the impact and efficiency of circular urban furniture.
	Innovation hubs	Nod Makerspace, Impact Hub Bucureșt; Urboteca Cooperativa de Energie	Involve, Collaborate	Facilitating technological solutions for implementation.
Industry	Architects and designers	Architecture and urban design firms in Bucharest	Consult, Collaborate	Developing the model.
	Urban planners and policy makers	Romanian Register of Urban Planners,	Consult, Collaborate	Integrating circular furniture into

		Romanian Order of Architects		urban planning strategies
	Structural and Civil engineers			
	Circular value chains (from renovation to modular urban furniture)	Recycling and waste management companies in Bucharest, circular economy startups Magazin Urban SA (Sector 6) Pallet Centrum Eco Expert Green Global Future REMAT VEST SA	Involve, Collaborate	Research and development of green energy solutions, collecting recycled materials, and their maintenance, urban furniture design.
	Other			
Community	NGO's	Environmental and sustainability NGOs Recolamp Ecotic Zero Waste România Greenpeace România Fundația Comunitară București	Involve, Collaborate	The NGOs can help with promoting and implementing circular initiatives, meaning the use of recycled waste and promote resource conservation.
	Individual citizens	Administratii de bloc		
	Local Community organizations	Asociatia Asociatiilor de Proprietari S6		Direct beneficiaries, users, and supporters of urban furniture. Co-creating and maintaining urban furniture.

	Youth and education initiatives (student groups, girls and young women)	Școala Gimnazială Nr. 167		Students from the school will participate in a co-creation workshop, helping to identify local challenges and generate ideas for furniture designs.
	Local Civic Initiatives	Grupul Civic Inițiativa Favorit, Grupul Civic „Salvați Parcul Drumul Taberei”, CeRe - Centrul de Resurse pentru Participare Publică, Asociația Drumul Taberei (ONG), Asociația pentru educație și cultură, Administrația Piețelor Sector 6, Comunitatea I love drumul Taberei		