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## *Mobility Urban Values: Framing a methodology through multiple lenses*

Much of contemporary trends in urban research in the last decade have been developed by the urgency to provide opportune indicators, strategies, and knowledge around the concept of sustainable development (WCED, 1987) in relation to mobility issues. Climate change and side effects of contemporary dominant car infrastructure systems (congestions, deterioration of urban space and liveability of cities, reduction of urban air quality, environmental issues) are dominating urban political discourses worldwide. However, the operationalization of scientific relevant knowledge encounter barriers when touching the reality of contextualization of 'urban regimes' in which a plurality of factors is resilient to change. Theories about change are dominating policy research to date, but many times these theories, if useful to analyze contextual experiences are not 'ready to use' when transforming contexts and difficult to be operationalized by policy action. This paper aims to furnish a framework to define a trajectory for transformative shifts in urban governance processes, elaborating from studies on individual behaviors to social practices and urban ecosystem to become operational through new mobility services.

In this paper, a heuristic framework for socio-technical and governance innovation is utilized in the context of a Horizon 2020 project called Mobility Urban Values (MUV). MUV intends to start-up a movement that fosters sustainable urban lifestyles, enhance local development and improve urban policies. This "movement" aims to develop policy tools in six different European neighborhoods within the urban contexts of Amsterdam, Barcelona, Fundao, Ghent, Helsinki, and Palermo. The MUV vision is that in these European urban areas, all the key actors of urban physical transformation (citizens, local businesses, public authorities, local active communities) will play an active role: 1) as carriers performing their habitual mobility activities (and transmitting values) within the urban ecosystem; 2) as catalysts of social interaction in which challenges, efforts, and value-driven mobility choices can come together in a process of co-creation to refine mobility urban values while shaping capacity and services. This paper elaborates a framework which combines multiple lenses for the analysis of urban innovation with a transformative perspective. This framework elaborates and combines individual behavioral studies about change (Csikszentmihalyi, 2014) with changes of social practice (Shove et al.,

2012) and socio-technical perspectives (Geels, 2005; 2012) to unravel governance innovation strategies (Healey, 2006) in the operationalization of the MUV purpose.

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This framework highlights the process of co-evolution of innovations in the multi-dimensional interactions among sectors as industry, technology, markets, policy, culture and civil society which shape urban innovation through diverse value-driven perspectives. These spheres have been traditionally understood as divided. An interpretation of the urban ecosystem is here grounded combining and interpreting socio-technical transition perspectives highlighting the fact that these spheres are essentially intertwined and co-evolve together when a change takes place in society and in an urban environment. This framework allows the design and planning of a transformative pathway of change (feed-up by continuous learning loops and monitoring) through 1) mobility patterns by letting citizens interact with spaces and tools that facilitate 'flow' 2) processes of structuration of urban values in which both barriers and windows of opportunity at diverse scales can favour or impede change and transformations.

MUV vision frames the urban ecosystem as a dynamic multi-lens perspective in which diverse mobilities can be identified:

- within '*the flow*' of *key values* desired at societal level shaped by transnational discourses that pertain sustainability, resilience, safety, and inclusiveness;
- within the 'urban regime' of practice and institutional '*dynamic stable*' of *urban values* that are produced and reproduced spatially within the urban structure. The urban regime includes diverse segments that generate and stabilize mobility urban values as urban technologies, urban markets, urban lifestyles, urban cultures, urban policies and the urban physical built environment;
- within 'the potential' of capacity building of urban neighborhoods and local communities as driving forces of co-creation of mobility value. This *potential* level is important for transformative sciences (planning, design, management) in the co-creation of values as eliciting individual citizens, informal groups, local communities through interactive learning processes through participatory methodologies in which imaginaries (spatial and virtual), needs and expectations are exchanged through dialogue and deliberation.

This paper explores the potential of this conceptual framework for the study of transformative mobility urban values that require necessarily a multidisciplinary approach.