

# Power to the Citizens: Factors Fostering Satisfaction With Citizen Participation in Urban Planning

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#### **ABSTRACT**

Urban planning constitutes a pivotal role in the daily routines of citizens, exerting a substantial influence on their overall quality of life. Consequently, the involvement of citizens in these planning processes is imperative. Citizen Participation (CP) is a promising tool for bolstering acceptance of implemented urban planning measures. Thus, it is essential to identify underlying influencing factors. In a comprehensive literature review, we identified the following factors affecting satisfaction with CP and future willingness to participate: 1) structural conditions, including participation level, time of participation, and participation format, 2) process-related conditions including participation information as well as responsiveness and involved actors, and 3) personal characteristics. Based on our findings, we developed a working model providing valuable recommendations for the design of satisfactory and successful CP in urban planning. Future research should address the validation of the proposed model.

**Keywords:** Public participation, Determinants, Model, Citizen science, Participation satisfaction, Literature review

## INTRODUCTION

Urban planning plays a crucial role in shaping the daily lives of citizens (Baxter et al., 2022; Günther & Krems, 2022; Mannarini et al., 2010). As a result, involving citizens in these planning processes becomes essential. Urban planning entails the systematic organization of cities and involves everything from street arrangements and building heights to the design of sewer and communication infrastructures. Given the complexity of modern cities, it requires the expertise of professionals well versed in the principles and dynamics of effective urban development (Gordon et al., 2011) and participation planning.

### **Definition of Citizen Participation and Related Behavioral Models**

Citizen participation (CP) is defined as the active involvement, engagement, and contribution of individuals in the decision-making processes and activities that affect their communities, neighborhoods, or broader societal issues (Baum et al., 2001). It is a democratic principle that emphasizes the inclusion of citizens in the development, implementation, and evaluation of policies,

programs, and projects. CP involves a range of diverse activities to shape and influence decisions that affect the public.

As early as the 1970s, Arnstein (1969) proposed a model for different stages of CP: The participation ladder – which primarily refers to the degree of citizen involvement – consists of 10 levels. At the higher levels of the ladder, citizens have more power in the participation process. However, it is rarely used in current processes. Over the last few decades, the participation ladder has been the starting point for further adapted models (Box, 1998; Callahan, 2007; Epstein et al., 2011; Frecks, 2015; Thomas, 1995; Timney, 2011; Timney, 1998; Rohr, 2014). These models serve to describe participation and demonstrate the roles performed by citizens and the administration. Nevertheless, they do not provide any information on how satisfied citizens are with the participation, which in turn may affect the satisfaction with the outcome of the project (Jin et al., 2018) and the future willingness to participate in planning projects (Mannarini et al., 2013).

For instance, in the NUMIC New Urban Mobility awareness In Chemnitz project, citizens collaborated with the city administration and scientists from 2019 to 2022 to plan cycling and walking routes as well as green spaces, aiming for sustainable urban development. Through small-scale measures, awareness of sustainable mobility was raised while addressing major issues gradually. The project analyzed CP and mobility behavior. Results show satisfaction varied among participation formats, with on-site participation being most favored over online and postal options (Bienzeisler et al., 2022). Additionally, perceived ease of use, perceived usefulness, and participants' knowledge predicted satisfaction with the CP (Günther et al., 2023).

# **Research Objective**

This work aims to identify further factors influencing citizens' participation satisfaction in the context of urban planning. Through a thorough literature review, we will develop a model applicable to policymakers and planners. This model is part of the NUMIC2.0 study (Günther & Kreußlein, 2023), investigating citizen involvement in urban planning. We will outline our research methodology, summarize relevant literature, and integrate these findings into a participation satisfaction model for CP in urban planning.

## **METHOD**

Various keywords were used in the database EBSCOhost to conduct the literature review and to develop the model. For EBSCOhost published English peer-reviewed publications (scientific articles, dissertations) from the last 24 years (since 2000) were included in the literature review. Concerning the database, we have not made any restrictions, as the field of CP can span many areas. The keywords or phrases *Citizen Participation* or *Public Participation* and *Urban Planning* should be included in the title. The keyword *Satisfaction* should be at least included in the text. The literature search process is illustrated in Figure 1.

The abstracts of the resulting publications were then screened for content and rated as relevant or non-relevant. Relevant publications either contained possible models to explain CP or examined factors that had an effect on participation or satisfaction with CP. In addition, a digital library of relevant papers was compiled via Google Scholar throughout the NUMIC2.0 study period. This digital library contains 123 publications to date. The papers contained were also screened for relevance for the preparation of this paper. In the next step, all the publications (EBSCOHost & Scholar) were reviewed to eliminate redundant records.

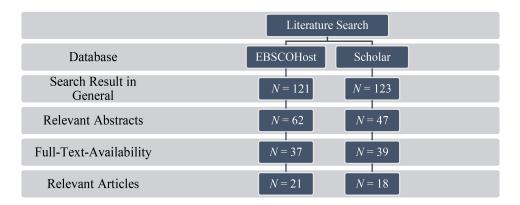


Figure 1: Schematic illustration of the literature review process.

#### **RESULTS**

A total of 39 research papers were identified to address the research inquiry. Among these, ten publications were classified as literature reviews, offering insights into potential influencing factors, determinants, or previous models of CP. Of the 39 relevant publications, five utilized case studies to elucidate the advantages and disadvantages of various participatory approaches. Notably, only one of these case studies specifically explored satisfaction within the context of neighborhood or housing satisfaction. Furthermore, 23 articles employed questionnaires and interview studies to investigate factors affecting CP, willingness to participate, or the assessment of its quality. Additionally, one article provided recommendations for implementing public participation initiatives.

## **Factors Influencing CP**

Based on the conducted literature review different classification schemes of factors influencing citizens' satisfaction with and willingness to take part in CP could be identified. For instance, Liu et al. (2018) differentiate between project, process, and public factors, which are relevant for successful outcomes. Ianniello et al. (2019) categorized context, organizational arrangements, and process factors influencing participatory effectiveness. On the other hand, Migchelbrink et al. (2022) identified personal characteristics, process characteristics, organizational structures, and contextual features as influential in participatory processes.

The subsequent section will organize the primary findings of the research outcomes and describe the identified factors in more detail.

## **Participation Level**

A common classification of participation level addresses information, deliberation, and collaboration (Rohr, 2014). Informative procedures furnish participants with information but confer limited decision-making power. Deliberative processes, on the other hand, foster communication, discussion, and opinion formation, affording participants greater influence. Collaborative processes emphasize concrete cooperation and joint solution-finding through activities such as research, analysis, and design. Brown et al. (2013) found that substantive planning decisions significantly influence participant satisfaction, overshadowing procedural aspects. Participants often perceived community consultation as tokenistic, doubting their ability to influence decisions and the incorporation of community values. Günther et al.'s (2023) real-world laboratory study revealed that citizens express more favorable attitudes towards participatory events offering opportunities for co-decision compared to those focused on collaborative solution development only. Nonetheless, the timing of involvement, as well as the interplay of timing, level, and format, might have been influential factors here. Hence, it is relevant to select the suitable level of participation based on contextual factors, and the temporal aspects of participation as well as the demographic characteristics of users.

## Time of Participation

The implications drawn from prior research suggest that early involvement is advantageous and should be consistently prioritized (Baxter et al., 2022; Günther et al., 2023; Ianniello et al., 2019). However, we have not yet found a solid scientific basis or empirical studies that systematically and comprehensively compare the timing of participation.

## **Participation Format**

Flexible formats are recommended for CP to involve various stakeholders in the process of CP depending on the context, including public hearings, advisory committees, and immersive methods like web mapping and gaming (Baxter et al., 2022; Günther et al., 2023; Ianniello et al., 2019; Mayekiso et al., 2023). Evans-Cowley (2010) suggests leveraging the internet for CP, emphasizing hybrid approaches that combine online and inperson interactions for enhanced engagement. Combining multiple formats prevents negative influences on participation. In particular, immersive formats such as web mapping tools, virtual worlds, and gaming, compared to non-immersive ones possessing sensory (audiovisual), imaginative (roleplaying), or challenge-based (problem-solving) characteristics, can empower citizens to better visualize urban planning content (Gibson et al., 2011). This can lead to citizens almost merging with planning ideas and promoting perspective-taking.

## **Accessibility of Information**

In some studies, the accessibility of information regarding planning processes has been identified as a significant influencing factor on CPs (Blanchet-Cohen, 2015; Raveau et al., 2022; Yani et al., 2017). The availability of project-related information is indispensable (Lou et al., 2022). Further,

it is suggested to disseminate information across various media for transparency (Abas et al., 2023). The more transparency, the more satisfied the participants should be, in particular, concerning the level of co-determination, project progress and the distribution of project funds (Bryson et al., 2012; Luo et al., 2022; Mbithi et al., 2018; Naidoo et al., 2018, Yani et al., 2017). According to Lou et al. (2022), the most preferred communication approach was internet platforms due to their convenience and timesaving nature, suggesting the need to leverage these platforms and explore emerging technologies like virtual reality to encourage greater public participation.

# Responsiveness and Involved Actors

Jin et al. (2018) found that CP enhances neighborhood satisfaction, but meaningful impact requires power redistribution. To achieve this, institution-alizing participation teams (Ernest, 2023) and involving representatives, like steering committees, in planning is essential. Collaborative co-production processes, as advocated by Rosen et al. (2019), leverage the potential of CPs to address power dynamics and foster inclusive involvement. However, Morrison et al. (2016) note challenges due to a prevailing "experts know best" mentality, hampering CP when citizens lack awareness of their rights and information channels.

## Sociodemographic Factors

Sociodemographic factors such as age, occupation, and income were found to significantly influence levels of CP in infrastructure planning (Dai et al., 2022; Namano et al., 2015; Panyavaranant et al., 2023; Raveau et al., 2022). In fact, participation is highest among young adults and older men. Middle-aged adults (25–44) participate less frequently, presumably due to their life situation (i.e. parenthood, employment). In terms of gender, it can be seen that it is mainly men who take part, which is related to the "classic" distribution of roles. Further cultural differences concerning different ethnic groups can be found (Bernstein et al., 2008; Naidoo et al., 2018). Panyavaranant et al. (2023) showed that residential location, age, occupation, and income significantly influenced high levels of participation according to Arnsteins Ladder (1969; citizen power), while age and occupation affected medium-level participation (tokenism).

## Norms and Control Beliefs

Most commonly the norm activation model (NAM; Schwartz, 1977) and the theory of planned behavior (TPB; Ajzen, 1991) were used to explain participation (e.g. Lou et al., 2022; Ma et al., 2022; Yang et al., 2020). Ma et al. (2022) proposed a combination of both models: the integrated TPB NAM model. Personal and subjective norms were found to be influential in enhancing participation willingness. The more resources and opportunities individuals perceive they have in the CP, the more elevated their sense of behavioral control becomes. Yang et al. (2020) also identified subjective norms alongside internal responsibility, external pressure, and private norms as influencers of public participation.

## Government Trust and Responsiveness

Trust seems to play a central role in investments (Brown et al., 2013; Bryson et al. 2012; He et al., 2022; Ma et al., 2022; Mannarini et al., 2010). The more trust in the relevant bodies and actors involved, the more satisfied the participants are in the end with the result of the participation, regardless of the outcome of the participation. Further, the perceived governmental support is a significant influencing factor of CP (Raveau et al., 2022). In addition, trust and the accessibility or responsiveness of those responsible are linked. Rapid responsiveness in turn has a positive influence on participation in future participations (Mbithi et al., 2019; Sjoberg et al., 2007).

## **Perceived Benefits**

Multiple articles stress the importance of maintaining a favorable cost-benefit balance in investments, aiming for benefits to outweigh costs (Dai et al., 2022; Mannarini et al., 2013; Mannarini et al., 2010). These benefits extend beyond monetary gains to intellectual advancements. For instance, workshops and deliberative sessions on urban planning processes can enhance knowledge acquisition. Moreover, studies show that CP in such initiatives fosters community cohesion and efficacy in decision-making (Foster-Fishman et al., 2008; Mannarini et al., 2013; Mannarini et al., 2010). Participation facilitates connections with stakeholders and neighbors (Namano et al., 2015; Neidhart, 2005), underlining the significance of inclusive planning and stakeholder engagement.

## A Working Model to Investigate CP

From the literature research, we identified and clustered the following factors affecting satisfaction with CP in 1) structural conditions including participation level, time of participation, and participation format, 2) process-related conditions including participation information as well as responsiveness and involved actors, and 3) personal characteristics (see Figure 2).

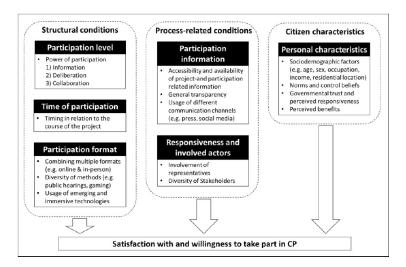


Figure 2: Working model of determinants to investigate CP.

In terms of participation level, we assume that citizen participation transcending mere informational dissemination, necessitating deliberation and collaboration, correlates with heightened levels of participation satisfaction. The literature shows that particularly early involvement in planning projects is desirable and can lead to more satisfaction. Thus, the timing has an impact on the level of involvement. Regarding participation format, a dichotomy exists between analogue (e.g. citizen consultation hours, residents' meetings, face-to-face surveys) and digital (e.g. online meetings, virtual reality visualization, online voting) methods. Diverse flexible methodologies may enhance efficiency, while also facilitating benefits for various user groups. Particularly emphasized are formats that highlight planning visualization and actively engage citizens, prioritizing them over methods solely conveying informational content without visual aids. Immersive techniques, such as virtual reality, exhibit considerable potential to enhance participation and satisfaction.

Regarding to process-related factors, the level of satisfaction with citizen participation is expected to increase proportionally with the accessibility and availability of information as well as the transparency of opportunities for influence, access to resources, and understanding of the consequences of proposed changes. This requires a two-way exchange of feedback and communication between citizens and project managers. The responsiveness from project managers toward citizen input correlates with higher satisfaction levels and ensures that participation is not perceived merely as a "proforma"-event.

Concerning personal characteristics of the citizens involved, it is established that well educated middle-aged men are notably predisposed to engage in CPs. This inclination is commonly attributed to the traditional allocation of roles. For the other individual attributes, the literature focused on norms, control beliefs, trust, and perceived benefits.

## **CONCLUSION**

Urban planning significantly influences citizens' quality of life, necessitating their active involvement (Baxter et al., 2022; Mannarini et al., 2010). This study aims to identify factors affecting citizen satisfaction in urban planning participation, synthesizing literature to develop a model applicable. Various models have been proposed to describe CP. However, these models often neglect citizen satisfaction with participation, which affects future participation willingness (Jin et al., 2018; Mannarini et al., 2013).

The following considerations stem from the conceptual framework. CP should ideally transcend a mere informational approach to foster substantive participation, thereby diminishing the impression of "pro forma"-engagement. Early transparency mitigates distrust in the process and enhances citizen satisfaction. Engaging citizens from the beginning yields greater benefits and added value compared to involvement at later stages. Negative perceptions included failure to reduce conflict, enhance trust, and base decisions on consensus. While participants were satisfied with certain aspects like information accessibility, dissatisfaction often stemmed from plan

outcomes. The content of CPs should be easily locatable, as the costs associated with an extensive search for relevant information should be minimized. Therefore, it is imperative for administrations to keep their websites up-todate and easily accessible without barriers. Additionally, social media platforms have gained importance in the past decade. Many citizens do not seek information separately on the city's website but rather utilize embedded information on social media channels. This, in turn, facilitates accessibility. The integration of immersive technologies is recommended. Personal attributes continue to exert a significant influence on participation. It is imperative to consider established standards and anticipate advantages and disadvantages when engaging stakeholders. The implementation of all these considerations entails significant coordination and communication costs, which should not burden planners but rather be managed by external individuals possessing expertise in citizen participation. These experts play a mediating role in facilitating effective communication and coordination between citizens and project managers.

Although the empirical evaluation of the working model is still pending, the proposed model serves as a foundation upon which planners within administrative bodies can determine the structure and the implementation of various participatory processes.

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