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# Data-Driven Collaborative Governance to Strengthen Social Advocacy and Public–Community Partnerships for Sustainable Development

**Hazhar Talaat Abubaker Blbas[1], Kamran Abdullayev[2], Masnur Putra Halilintar[3]**

[1] *Salahaddin University-Erbil. Iraq*

[2] *Institute of Economics of the Ministry of Science and Education of the Republic of Azerbaijan*

[3] *Universitas Lancang Kuning. Indonesia*

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**ABSTRACT**

*This community engagement program aims to strengthen collaborative governance and social advocacy in Erbil through a data-driven approach that empowers both public institutions and local communities. The initiative responds to the growing need for evidence-based decision-making, particularly in urban areas where socio-economic disparities, limited data literacy, and fragmented public–community communication hinder sustainable development efforts. Using participatory mapping, digital data collection, and community workshops, the program integrates statistical tools and informatics-based solutions to support transparent governance practices. Activities include capacity-building sessions, community needs assessments, data visualization training, and stakeholder forums designed to enhance cooperative problem-solving. Findings show that community members developed increased awareness of data-based decision processes, while local institutions improved their ability to integrate citizen input into planning. Participant feedback confirms higher trust levels, better communication pathways, and enhanced motivation to co-design development initiatives. The program demonstrates that data-driven social advocacy can strengthen relational accountability and foster long-term collaborations between stakeholders. This model offers a scalable and adaptable framework for cities in the Kurdistan Region seeking to implement more inclusive and sustainable governance strategies. Overall, the program contributes to the advancement of participatory governance by embedding statistical literacy and digital tools into community-centered development processes.*

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* *Corresponding author: hazhar.abubaker@su.edu.krd*

## INTRODUCTION

Collaborative governance has emerged as a critical framework for addressing complex public challenges, particularly in regions undergoing rapid socio-economic transformation such as Erbil. As public institutions strive to improve service delivery, meaningful engagement with local communities becomes increasingly essential for sustainable outcomes. However, collaboration often fails when communication gaps, limited trust, and inadequate access to transparent information persist. Data-driven approaches offer a promising solution by providing evidence for shared decision-making and mutual accountability. In the context of Erbil, where administrative processes are modernizing, integrating data literacy into community engagement is crucial. This approach enhances clarity among stakeholders and supports more informed governance. Therefore, applying data-centered collaborative strategies can significantly strengthen public–community relations in the region.

The advancement of statistical tools and informatics has reshaped how governments engage with society. Digital platforms allow communities to express concerns and preferences in ways that were previously unavailable. Such channels open possibilities for inclusive governance where marginalized voices can participate in development planning. Yet, the effective use of these tools depends on the capacity of both institutions and communities to understand and interpret data. Programs that build this capacity become essential for strengthening civic participation. This program initiative responds to these needs by introducing structured data-driven processes. Through these methods, Erbil can move toward more participatory and transparent governance models.

Social advocacy plays an equally important role in amplifying citizen perspectives within governance systems. Advocates help communities articulate their challenges in a way that policymakers can understand and address. When supported by reliable data, advocacy becomes not only persuasive but also actionable. In Erbil, many community organizations work actively on social issues but lack systematic data collection and analysis skills. Enhancing these capacities can improve the effectiveness of local advocacy networks and promote sustainable development efforts. Consequently, a blend of advocacy and data-driven methods can create a stronger foundation for long-term public–community collaboration.

Sustainable development requires governance systems that align public goals with community aspirations. This alignment is difficult to achieve when both sides operate with different sets of information. Evidence-based decision-making establishes a shared reference point for prioritizing initiatives, evaluating needs, and monitoring progress. Erbil's rapid population growth, increasing urban challenges, and socio-economic disparities highlight the need for such approaches. Community data can help illuminate patterns of inequality that might otherwise remain hidden. By integrating these insights, public institutions can design more targeted interventions. This program seeks to bridge precisely this gap.

The Kurdistan Region has experienced significant improvements in its administrative and educational systems, yet community participation in governance remains limited. One challenge lies in the absence of structured mechanisms for gathering and analyzing local-level information. While public agencies possess technical expertise, they often lack direct interaction with grassroots groups. Conversely, community members understand their surroundings well but may not have the tools to present their observations in usable formats. Data-driven engagement initiatives can balance these inequalities. Through collaborative learning spaces, both sides can develop shared capacities and expectations.

The integration of statistical and informatics-based approaches aligns with global trends emphasizing digital transformation and open governance. Countries worldwide increasingly adopt open-data portals, participatory mapping, and community dashboards to enhance transparency. These tools allow public agencies to demonstrate accountability while giving citizens greater insight into development progress. Erbil is well-positioned to adopt similar strategies due to its growing academic ecosystem and young, digitally oriented population. Universities, such as Salahaddin University-Erbil, play a crucial role by providing expertise and facilitating community partnerships. This program initiative leverages precisely this institutional strength.

Community empowerment requires more than providing information; it requires building analytical and organizational skills. Workshops that teach data collection, visualization, and interpretation can transform passive residents into active contributors to development dialogue. These skills enable communities to interact more effectively with public institutions. Furthermore, participatory data practices often increase trust by reducing ambiguity and promoting transparency. When people understand how decisions are made, they are more likely to support institutional initiatives. This program program therefore emphasizes capacity-building as a fundamental component of collaborative governance.

Given these dynamics, this program initiative aims to redefine public–community partnerships in Erbil by embedding data-driven methodologies into advocacy and governance processes. The program focuses on teaching statistical literacy, participatory mapping, and digital documentation techniques. It also fosters spaces for dialogue between public representatives and local communities. Through a structured series of activities, stakeholders co-create solutions and evaluate their impact. By grounding discussions in evidence and shared learning, the initiative cultivates sustainable communication frameworks. Ultimately, this program contributes to establishing long-term collaborative governance that aligns with the principles of sustainable development.

## METHOD

### 1. Program Design

The PKM uses a participatory, data-driven community engagement model, integrating statistical tools, informatics applications, and social advocacy training. The design ensures inclusivity for public officials, community leaders, youth groups, and civil society organizations.

### 2. Stages of Implementation

a. Preliminary Assessment
   1) Stakeholder identification
   2) Baseline survey on data literacy
   3) Mapping community needs using simple digital tools

b. Capacity Building Workshops
   1) Training on basic statistics and data interpretation
   2) Introduction to digital data collection platforms
   3) Workshops on evidence-based advocacy

c. Participatory Data Collection
   1) Use of mobile forms for documenting environmental, social, and infrastructural issues
   2) Community mapping using open-source GIS tools

d. Data Processing & Visualization
   1) Analysis using descriptive statistics
   2) Developing dashboards and visual summaries
e. Multi-Stakeholder Forum
   1) Presentation of findings to local authorities
   2) Collaborative problem-solving discussions
f. Monitoring & Evaluation
   1) Pre–post tests of data literacy
   2) Tracking engagement levels
   3) Participant satisfaction surveys

**3. Output Indicators**

a. Community datasets generated
b. Advocacy materials produced
c. Policy recommendations developed
d. Number of trained participants

## RESULT AND DISCUSSION

The program successfully improved the data literacy of community participants, enabling them to better understand how evidence contributes to decision-making. Pre-evaluation assessments indicated limited familiarity with data collection methods, while post-assessment showed significant improvement. Participants expressed increased confidence in interpreting visual data representations such as charts and maps. This improvement reflects the effectiveness of combining theoretical and practical training strategies. Public institutions also benefited from these enhanced community capacities. Improved literacy levels fostered more productive discussions between stakeholders.

Participatory data collection revealed several community priorities, including waste management issues, limited public facilities, and inconsistent service delivery across neighborhoods. These findings align with previous studies on urban governance challenges in Erbil (Abdullah & Rasul, 2021). Community-generated data supported local authorities in identifying underserved areas more accurately. The collaborative approach enhanced trust between communities and government agencies. Community members reported feeling more valued as contributors rather than passive recipients of services. This shift in perception strengthens the foundation for long-term partnerships.

Digital tools introduced during the program accelerated the data-gathering process and improved accuracy. Participants quickly adapted to mobile-based reporting systems, demonstrating the practicality of informatics-based engagement. Literature emphasizes that technology adoption in local governance enhances accountability and transparency (Bertot et al., 2012). The ability to visualize issues on digital maps provided a compelling narrative for social advocacy groups. This tool helps transform qualitative complaints into quantifiable evidence. Such transformation is essential for persuasive policy dialogue.

The program's multi-stakeholder forum demonstrated how evidence-based discussions can lead to more targeted policy considerations. Public officials acknowledged the usefulness of community-generated reports. This recognition reinforces collaborative governance theory, which suggests that shared information reduces institutional bias (Emerson et al., 2012). The forum also fostered constructive negotiation between parties. Both sides articulated their

concerns backed by data, reducing emotional tension in the dialogue. As a result, the planning process became more inclusive and solution-oriented.

A key outcome of this initiative is the strengthening of community advocacy skills. Participants learned how to convert data into structured, compelling advocacy campaigns. Previous research suggests that advocacy supported by empirical evidence has a higher likelihood of influencing policy (Onyx & Leonard, 2011). The program encouraged participants to develop policy briefs summarizing their findings. These briefs were later shared with municipal representatives. The effectiveness of these documents demonstrates the value of combining statistical literacy with advocacy training.

Program monitoring showed measurable improvements across all indicators. Attendance levels exceeded expectations, indicating high motivation among participants. Post-program evaluations revealed increased satisfaction with communication channels between communities and local agencies. According to theories of participatory governance, such satisfaction is essential for sustaining engagement (Fung, 2015). The use of accessible digital tools and clear training materials also contributed to these positive outcomes. These findings affirm the importance of user-friendly technologies in community-based programs.

Participant feedback indicates that the program successfully enhanced trust and mutual understanding. Many attendees reported that this was their first time engaging directly with public officials in an organized setting. Studies show that trust is a cornerstone of collaborative governance (Ansell & Gash, 2008). The structured interaction format allowed both sides to discuss shared goals without hierarchical pressure. This environment encouraged transparent communication and strengthened relational accountability. As a result, communities expressed greater willingness to collaborate in future initiatives.

Overall, the program demonstrates that data-driven collaborative governance can significantly enhance sustainable development efforts in Erbil. By integrating statistical tools, informatics applications, and advocacy strategies, stakeholders developed shared ownership of local problems. The combination of workshops, participatory mapping, and stakeholder dialogues created a holistic approach to improving public–community relationships. Findings align with global research supporting the integration of digital tools into governance processes (UNDP, 2022). This model has strong potential for replication across other districts in the Kurdistan Region. The results support continued investment in community-based data-driven initiatives.

Table 1. Program Output Indicators

| Output Indicator | Achievement |
|---|---|
| Number of trained participants | 80 individuals |
| Community datasets collected | 145 entries |
| Digital maps produced | 4 thematic maps |
| Advocacy briefs developed | 6 policy briefs |
| Stakeholder meetings conducted | 2 multi-stakeholder forums |

Table 1 presents the key measurable outputs generated throughout the implementation of the community engagement program. The participation rate was notably strong, with 80 individuals successfully completing the training sessions, surpassing the original target and demonstrating high community interest in data-driven governance activities. The program also facilitated the creation of 145 community dataset entries, which represent systematically collected information on local needs, environmental conditions, and public service gaps.

These datasets formed the empirical foundation for subsequent advocacy materials and discussions with local authorities.

Furthermore, the production of four thematic digital maps illustrates the program's success in applying statistical and informatics tools in real community contexts. These maps visually identified priority issues, allowing both residents and policymakers to better understand spatial disparities. The development of six policy briefs highlights the community's enhanced ability to translate data into structured advocacy outputs. Finally, the completion of two multi-stakeholder forums provided essential platforms for presenting findings and engaging in evidence-based dialogue with public officials. Collectively, these outputs demonstrate the program's effectiveness in strengthening participatory governance structures in Erbil.

Table 2. Participant Feedback Summary

| Feedback Category | Percentage Positive |
|---|---|
| Clarity of training materials | 92% |
| Usefulness of data skills | 88% |
| Interaction with public officials | 85% |
| Relevance to community needs | 90% |
| Overall satisfaction | 93% |

Table 2 summarizes participant feedback collected at the end of the program, indicating high levels of satisfaction across all evaluated categories. A notable 92% of participants expressed that the training materials were clear and easy to understand, suggesting that the instructional design effectively balanced technical concepts with accessible delivery methods. Meanwhile, 88% agreed that the data-related skills gained during the workshops were highly useful for addressing community issues, reflecting the relevance of statistical and informatics tools in everyday civic engagement.

The program also succeeded in fostering meaningful interaction between communities and public officials, as evidenced by 85% positive feedback on this aspect. This indicates that the stakeholder forums and collaborative activities successfully reduced barriers typically associated with public–community communication. The relevance of the program to local needs was acknowledged by 90% of participants, further validating the appropriateness of program design and topic selection. Lastly, the overall satisfaction rate of 93% demonstrates strong approval of the program's content, implementation, and outcomes. These results collectively affirm that the initiative not only met its intended goals but also enhanced trust, motivation, and willingness among participants to continue engaging in data-driven governance practices.

## CONCLUSION

This PKM program demonstrates that data-driven collaborative governance can significantly strengthen public–community partnerships in Erbil. By integrating statistical literacy training, digital tools, and structured advocacy sessions, stakeholders gained new capacities to co-create solutions for local challenges. The results show improved trust, better communication pathways, and increased community involvement in development processes. Evidence-based advocacy enhanced the credibility of community voices, while participatory data practices supported more targeted policy considerations. The program provides a replicable model for other regions seeking to adopt sustainable and inclusive governance frameworks. Continued

investment in data literacy and partnership-building is essential for advancing long-term sustainable development in the Kurdistan Region.

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