Implementation Of Medan Mayor Regulation Number 18 Of 2021 On The Delegation Of Partial Waste Management Authority To Sub-District Heads Within The Medan City Government In Medan Helvetia Sub-District

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Medan Mayor Regulation Number 18 of 2021 provides a legal basis for delegating partial waste management authority to sub-district heads within the Medan City Government. The purpose of this regulation is to enhance the effectiveness of waste management at the sub-district level by empowering sub-districts as waste managers who are closer to the community. The implementation of this regulation in Medan Helvetia Sub-District faces various supporting and inhibiting factors. The supporting factors identified include the proximity between the subdistrict and the community, participatory programs involving the community in cleanliness activities, and close coordination between the village heads and the subdistrict administration. Participatory programs such as communal work (gotong royong) and waste management education have proven effective in raising public awareness about the importance of environmental cleanliness. However, several challenges hinder the implementation of this policy, including overlapping responsibilities between the sub-district and the Medan Environmental Agency, budget and facility constraints, and the lack of an effective coordination mechanism among stakeholders. To overcome these obstacles, it is necessary to improve coordination between the sub-district and the Environmental Agency, develop more innovative cleanliness programs, and optimize existing resources. Additionally, community participation is crucial to ensuring the successful implementation of this policy. By optimizing all involved elements, the implementation of Medan Mayor Regulation Number 18 of 2021 in Medan Helvetia Sub-District is expected to create a cleaner and healthier environment and serve as a model for other sub-districts in Medan City.

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I. Introduction

Waste is a major challenge in almost all major cities worldwide. This challenge serves as one of the key indicators in determining whether a city is suitable for development. Waste management issues continue to be discussed globally, including in Indonesia. This is due to the close relationship between waste and human daily activities as well as societal culture. Waste is a byproduct of human activities in daily life, including the production, consumption, and disposal of goods. Culture and public behavior also play a crucial role in waste generation. For instance, the widespread use of single-use plastics or the lack of awareness in waste segregation and management (Dongoran et al., 2018).

Waste refers to materials discarded or generated from human activities or natural processes that hold no economic value if not properly processed. The waste problem arises due to an annual waste volume increase of approximately 2-4%, which is not matched by adequate faci inificant portion of waste rema ays a crucial role arrently, society still lacks understanding of how to manage and in waste management. utilize waste ae or benefit. To this day, was donesia's major cities. This iss nited availability tes the problem. of final dispo: The reliance (icant obstacle to effective was

The d itter. Accurately measuring th ation. Based on research data collected, each individual produces an average of approximately 0.5 kg of waste per day. In ge ent of life needs. which consec is important to understand t sibility but also requires active participation from the community ollective efforts are needed to change habits and be lastics, properly sorting waste

Accord cs (BPS) in 2020 across 384 ci s. It is estimated that approxin es (TPA), 37.6% is burned, 4.9 ed. According to

estimates from the National Urban Development Strategy (NUDS) in 2003, each individual generates approximately 0.5-0.6 kg of waste per day. As the capital of North Sumatra Province, Medan produces a community-generated waste volume of approximately 5,710 m³ per day (Bahri et al., 2019).

The city of Medan, as one of the largest metropolitan cities in Indonesia, faces serious challenges in waste management. Rapid population growth, high urbanization, and a consumerist lifestyle have significantly increased the volume of waste in the city. Although several efforts have been made to address waste-related issues, there are still some aspects that require further attention. Therefore, this study aims to examine waste management

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issues in Medan, particularly in the Medan Helvetia District, and to identify sustainable solutions (Auliani, 2020).

Medan experiences a high population growth rate each year, which directly impacts the increasing volume of waste—more residents generate more waste. Therefore, it is crucial to analyze the impact of population growth on the city's waste management system. The Medan City Government continues to improve waste management by developing better infrastructure, promoting waste sorting programs, enhancing waste processing, and raising public awareness and participation. However, several challenges remain, such as the development of adequate infrastructure, sufficient funding, and increased community participation (Khair et al., 2018).

According to the Medan City Environmental Agency, waste management in the city, which generates a total volume of 2,000 tons per day, is severely constrained by the availability of l-type container bins). This lin ation, which has negative environmental impacts, and inefficiencies in waste collection and transportation. The Medan Ci oughout the city. Waste from r d deposited into Sites (TPS) and, designated c ultimately, to Final Disposal Sites (TPA). The curre nsportatio facilities consist mainly of ga waste collection facilities rem which still lacks adequate san The a *v*aste produced, leaving 32% agement system is the prevale 'ess waste issues promptly at t from the Medan City Environi ste is due to the limited number of transportation fleets. While the volume of waste tinues to rise—

activity, the n ha et al., 2022). 2021 to regulate waste management in the city. This regulation aims to clarify the roles, duties, and functions between the ng better waste management ness, aesthetics, and sanitation in the city. The Mayor of Medan explained that the delegation of some authority to the district level is a response to public complaints regarding previously ineffective waste collection and management. In this context, district heads and their staff are considered the frontline service providers due to their direct engagement with the community (Novianti, 2018).

The Mayor of Medan also emphasized that he frequently monitors waste collection and Temporary Disposal Sites (TPS) in various districts through the responsible district heads. Therefore, waste management is not merely a problem for district officials but a duty that must be carried out effectively. With this delegation of authority, the Medan City Government

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easing industrial

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is expected to improve its performance in urban waste management in the future. All district heads and their staff are also expected to be more responsive to public complaints, particularly regarding waste issues. The implementation of this policy will be closely monitored, especially in Medan Helyetia District, to ensure that waste management meets public expectations (Toruan & Kristiam P.M, 2022).

2. Research Method

The research method used in this study is a qualitative descriptive approach. This study aims to describe and analyze the implementation of Medan Mayor Regulation No. 18 of 2021 regarding the delegation of partial waste management authority to district heads, with a focus on Medan Helvetia District. The data used consists of both primary and secondary data. Primary data is obtained through in-depth interviews with relevant stakeholders, including the district head, waste management officers, and local community members (Sugivono, 20 aments, reports. and policies i is expected to provide a comprehensive depiction of policy implementation, including the challenges and ng observation. opportunities interviews, a out to directly examine the ict, while semiant information structured ir aligned with the research focus. Document analysis is used to complement the data obtained from observa nematic analysis method, whi evant to policy implementati provide insights into the policy's effectiveness, the challenges faced, and recommendations for improving waste manag

3. Theoretic **Implementa**

iblished by the **Public** objectives. This government process invo urce allocation, coordination lenges in policy implementation may arise in the form of administrative, political, financial, or technical constraints tl n theory, public developed into policies can derivative policies. According to Van Meter and Van Horn, policy implementation is a series of actions that transform decisions into operational reality. Meanwhile, Ripley and Franklin emphasize that implementation takes place after legislation has been enacted (Kadji, 2015).

George C. Edwards III identifies four key factors that influence the success of policy implementation: communication, resources, disposition, and bureaucratic structure. Effective communication ensures that policy implementers clearly understand the policy, while adequate resources—both human and financial—support smooth implementation. The disposition of policy implementers, including their attitude, commitment, and integrity, also affects policy outcomes. A well-structured bureaucracy, with clear standard operating

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procedures (SOPs) and minimal fragmentation, can enhance the efficiency of policy execution. Additionally, Merilee S. Grindle's perspective emphasizes that successful policy implementation depends on considerations related to the interests of target groups and environmental factors that may influence execution (Febriyansyah, 2022).

The availability of resources such as workforce, funding, and information also plays a crucial role in policy success. A well-trained and motivated workforce is essential for effective policy implementation. Moreover, access to accurate and transparent information regarding procedures and compliance significantly impacts implementation effectiveness. Financial constraints often arise when policy programs are initiated by the legislature but the responsibility for funding falls on the executive branch. Therefore, coordination between policymakers and stakeholders is essential to ensure that policy implementation runs smoothly and achieves its intended objectives (Purwanto & Sulistyastuti, 2012).

Medan City I

Medar of partial waste management authority from the Meda ity Environmental Agency to district heads. This *r*olume reaching measure is a 2,000 tons pe faces significant challenges in high consumer consumption. This situation is further exacerbated by the habit of criminate waste ice listed among disposal, caus the 10 dirtie e, this policy of delegating au te management, with the hope district involved One o Med district head of Medan Helve carried out not only in the m ne main roads of illegal waste. cilities Handling Officers) are deployed to support environmental cleanliness, v strict heads and neighborhoo v Nasution, has made cleanli es and enhance waste manag rict heads. With Helvetia, can be this strategy, more optimally addressec (Sitangga , 2024)

Waste Mana

Waste management in Medan City faces various challenges, with the primary sources of waste coming from households, street cleaning areas, markets, hotels, and restaurants. Several supporting factors contribute to efficient waste management, such as the use of appropriate equipment, including automatic waste collection trucks, compacting trucks for waste compaction, and road haul container trucks for transporting large volumes of waste. The Medan City Government, under the leadership of Mayor Bobby Nasution, has taken significant steps in waste management, including delegating some waste management responsibilities to district heads through Mayor Regulation No. 18/2021 and implementing Alfimer technology at the Terjun Final Disposal Site (TPA) to process waste into useful

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products such as organic fertilizers and industrial fuel.

Mayor Bobby Nasution has also established six waste-free pilot areas in various districts and markets to promote cleanliness at the local level. Support for this initiative comes from various parties, including Kristian Redison Simarmata, who appreciates the waste management program and emphasizes the importance of ongoing education to change the public's mindset regarding waste disposal. Additionally, implementing waste management programs in schools is suggested to foster awareness of clean living from an early age. With collaboration from various stakeholders, these efforts are expected to create a cleaner and more sustainable Medan City (Siregar, 2023).

4. Results and Discussion

Implementation of Medan Mayor Regulation No. 18 of 2021 on the Delegation of Waste Management Authority in Modan Halvatia Sub-District

The M with the aim of bringing waste management closer to the community at the district level. With this policy, part of the au ds, so that waste management Medan Helvetia District is of f making waste rea. This is also management expected to create a cleaner and healthier environment for the community.

policy. Through interviews w and socialization to the public ring the public's understandin fforts have been a can hinder the made to socia policy's effec pased on a more personal app re engaged and active in mail

Furthermore, a major challenge in the implementation of this policy is the limited lelvetia District, resources av ability of waste despite havii collection ve rave resulted in suboptimal w d the expanding area that needs to be served. Therefore, efforts to improve hi ce capacity and existing facili ore effective and aligned with the city's grown.

The operational process of waste management in Medan Helvetia, particularly the transportation from Temporary Waste Disposal Sites (TPS) to Final Disposal Sites (TPA), still faces significant challenges. One of the main complaints from residents is the accumulation of waste in certain areas and the irregular waste collection schedule. This highlights the need for increased efficiency in cleaning operations, especially in terms of scheduling and monitoring waste collection. The irregularity of waste collection not only disrupts residents' comfort but also has the potential to cause health and environmental problems, requiring serious attention from the local government.

The success of this waste management policy greatly depends on strong synergy

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between the sub-district heads (camat), village heads (lurah), and the Environmental Agency of Medan City. Good coordination among all parties is crucial to ensure the smooth operation of waste management, preventing overlapping duties or confusion in implementation. One way to enhance this coordination is by establishing regular communication forums between the camat, lurah, and the Environmental Agency. The use of digital systems or technologybased applications could also serve as a solution to streamline monitoring, reporting, and scheduling of waste collection, while improving transparency in waste management operations (Suminar et al., 2016).

Public education on the importance of proper waste management has been carried out through various activities such as environmental campaigns, seminars, and collaboration with schools. However, community participation in waste sorting at home and maintaining environmental cleanliness still needs improvement. Further socialization about waste segregation and the negative impacts of improperly managed waste should be carried out with a more i iess is critical so nmunity to take that waste m

greater responsibility for the cleanliness of their living environn

camat) provides The de greater autor This allows the line with local camat to res conditions. Decisions made are closer to the everyday problems faced by the community, thus ; policy does not improving th only rely on t the bureaucratic structure, re at every level. Without solic yah et al., 2022). With a leaner district cy is expected to aucratic at he istrict apparatus be more resp have direct a e with relevant parties in a n ies between the sub-districts and the city agency ns one of the challenges that still needs to be resolved. To ensure sn procedures are is will accelerate necessary to a decision-mak

Althou te management, many challenges remain in ensuring its optimal and sustainable implementation. Resource limitations, b r barrier in this policy's execu gement, such as waste sorting at home, exacerbates the policy's effectiveness. The government must be more proactive in strengthening coordination among involved parties, increasing budget allocations for waste management facilities, and continuing educational efforts to raise public awareness of the importance of maintaining environmental cleanliness to ensure the sustainability of this policy.

Support and Challenges in the Implementation of Medan Mayor Regulation No. 18 of 2021 on Waste Management in Medan Helvetia Sub-District

Medan Mayor Regulation No. 18 of 2021 aims to delegate part of the waste

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management authority to the sub-districts, including Medan Helvetia. This policy is expected to improve the effectiveness of waste management by bringing decision-making processes closer to lower levels, making them more responsive to the community's needs. With this delegation of authority, sub-districts have greater responsibility in overseeing and managing cleanliness in their areas, while also encouraging active community involvement in efforts to maintain a clean and healthy environment. However, despite the significant potential of this policy to improve the waste management system, its success is greatly influenced by various supporting factors as well as obstacles that arise during its implementation in the field.

The main support in the implementation of this policy comes from the strong commitment shown by the city and sub-district governments in realizing better waste management. One form of this commitment is reflected in the optimal allocation of human resources at the sub-district level, allowing waste management tasks to be carried out in a more structured and directed manner. Additionally, the allocated operational budget is sufficient to on of trash bins, waste collect lic awareness of the importance of waste management has also increased, especially with the socialization of organic and i 1 environmental cleanliness a hat the public is beginning to as a government responsibility surrounding environment (Mariana & sha al Paskarina, 20 Althou plementation of challenges is the this policy, se limited facili umber of waste collection vehicles to optimally serve the entire sub-district. Due to the limited number of vehicles, was waste at several temporary di ination between the Medan Cit of responsibility and operational procedures often result in overlapping duties, slowing down problem resolution in needed, both in terms of con district and the Environment rovides tangible benefits to th

Additionally, village heads (lurah) can initiate various community-based activities involving loca nt programs. By ental cleanliness fostering syn can be more structured and sustainable. Activities such as neighborhood cleanliness competitions, the establishment of waste banks, and recycling training can be effective steps in instilling environmental awareness from an early age (Auliani, 2020).

The local government must also ensure the availability of incentives for residents actively participating in waste management, such as reward programs or point-based compensation that can be exchanged for daily necessities. This approach can significantly increase public awareness of the importance of waste reduction and resource utilization. Additionally, digital technology can be leveraged to facilitate reporting and coordination processes, such as through a dedicated application that allows residents to report waste pile

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locations or access information about waste collection schedules.

The success of the waste management program in Medan Helvetia Sub-district can serve as a model for other regions to adopt similar initiatives. Regular evaluations and regulatory reinforcement must continue to ensure the program remains effective. With full government support, active community participation, and innovations in waste management systems, urban environments can become cleaner, healthier, and more livable.

Beyond clarifying task distribution, coordination between the sub-district and the Environmental Agency must also be strengthened through a more effective communication system. Establishing clear Standard Operating Procedures (SOPs) regarding waste collection schedules, reporting mechanisms, and the responsibilities of each party can help reduce overlapping duties and improve operational efficiency. Furthermore, forming a special task force to monitor the implementation of waste management policies could be a viable solution to ensure that every report and issue in the field is promptly addressed (Sulhansyah & Hidayat, 202:

On the ding sources to address budget constraints in waste management. One viable approach is encouraging private secto) programs. By collaborating facilities such as Temporary I 1 be supported. Additionally, implementing where residents incentiv based collectio system who sort the enhance waste management The a is an innovative solution to in ed issues. Digital applications that enable residents to report waste accumulation points in real time, along with a GPS-i aste production patterns acro t authorities and the Environn vaste collection, allocating resources, and evaluating overall waste management policies.

4. Conclusio

The ir Medan Helvetia Subdistrict d some residents remain unaware of the policy—likely due to a lack of information or indifference. In terms of resources, the and insufficient funding for acquiring near, and creating equipment, miner remains under the authority of the Medan City Environmental Agency. The subdistrict's fleet of trucks is very limited, with many in poor condition, affecting the efficiency of waste management services. Although policy implementation has been adjusted to comply with existing regulations and available human resources, the absence of specific incentives for sanitation workers has led to daily allowances for contract workers serving as an alternative to incentive funds. Moreover, the bureaucratic structure has not yet been fully optimized, as the limited number of sanitation personnel and frequent breakdowns of waste transport vehicles hinder the enforcement of Standard Operating Procedures (SOPs). On the other hand, waste management in this subdistrict benefits from the close interaction between the local government and residents,

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participatory program initiatives, and strong coordination between the village heads (Lurah) and subdistrict authorities. This facilitates quicker responses to public complaints, increases community involvement in collective clean-up efforts, and strengthens resident participation in sanitation programs. However, challenges remain, particularly in overlapping responsibilities between the subdistrict and the Environmental Agency, budget and facility constraints, ineffective coordination, and a lack of resources at the village level. To address these issues, solutions should include clearer task distribution, increased budget and infrastructure allocation, the use of technology for coordination and waste monitoring, and collaboration with both the community and private sector. These efforts will help establish a more effective and sustainable waste management system.

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