



DIGITAL INFORMATION SYSTEM IN LOCAL GOVERNMENT LAND CERTIFICATION IN KEBUMEN REGENCY

Nur Prihatini

Faculty of Economics and Business, Jenderal Soedirman University

* Email Corresponding Author: nur.prihatini@mhs.unsoed.ac.id

Abstract

The utilization of digital information systems in securing regional assets plays a crucial role in enhancing efficiency and transparency in government administration. This article discusses internship experiences within the Merdeka Belajar Kampus Merdeka (MBKM) program, focusing on the implementation of digital information systems in the certification of government-owned land in Kebumen Regency. The activities involved various processes, including data collection, document verification, and monitoring land certification through a digital system. The results of this experience indicate that digitalization helps accelerate administrative processes, improve data accuracy, and reduce the risk of errors and asset mismanagement. However, several challenges remain, such as limited technological infrastructure and users' lack of familiarity with the new system. Therefore, increasing human resource capacity and optimizing technological infrastructure are essential to support a more effective implementation of digital information systems in regional asset management.

Keywords: Digital Information System, Asset Security, Land Certification, MBKM Internship, Kebumen Regency

Abstrak

Pemanfaatan sistem informasi digital dalam pengamanan aset daerah menjadi aspek penting dalam meningkatkan efisiensi dan transparansi administrasi pemerintahan. Artikel ini membahas pengalaman magang dalam program Merdeka Belajar Kampus Merdeka (MBKM) yang berfokus pada penerapan sistem informasi digital dalam sertifikasi tanah pemerintah daerah di Kabupaten Kebumen. Kegiatan ini melibatkan berbagai proses, termasuk pengumpulan data, verifikasi dokumen, dan pemantauan sertifikasi tanah melalui sistem digital. Hasil dari pengalaman ini menunjukkan bahwa digitalisasi membantu mempercepat proses administrasi, meningkatkan keakuratan data, serta mengurangi risiko kesalahan dan penyalahgunaan aset daerah. Namun, masih terdapat tantangan, seperti keterbatasan infrastruktur teknologi dan kurangnya pemahaman pengguna terhadap sistem baru. Oleh karena itu, diperlukan peningkatan kapasitas sumber daya manusia serta optimalisasi infrastruktur teknologi guna mendukung implementasi sistem informasi digital yang lebih efektif dalam pengelolaan aset daerah.

Kata kunci: Sistem Informasi Digital, Pengamanan Aset, Sertifikasi Tanah, Magang MBKM, Kabupaten Kebumen



A. INTRODUCTION

Kebumen Regency has a variety of regional assets that must be managed properly to ensure the sustainability and transparency of government administration. One of the important assets is land owned by the local government which must be certified in order to have clear legality. However, in the management process, there are still obstacles in asset recording, data overlap, and lack of an integrated information system. (Pemerintah Kabupaten Kebumen, 2008) (Pemerintah Kabupaten Kebumen, 2021) (Badan Pengelolaan Keuangan dan Pendapatan Daerah Kabupaten Kebumen, 2023)

In the context of digitalization, the use of information systems is still limited and has not been fully implemented in securing regional property. Some of the obstacles found during the internship include the lack of technological infrastructure, the lack of socialization of the use of digital information systems, and the low digital literacy among employees who are responsible for the management of regional assets. On the other hand, there is a great opportunity to optimize digital information systems to increase efficiency and accuracy in recording and securing assets.

Based on the results of observations during the internship, some of the main problems found in securing regional assets, especially government land certification, include:

- 1 **Disorder in asset recording:** Many local government land assets are not well documented, so there is a risk of not having an official certificate.

- 2 **Lack of use of digital information systems:** The process of recording and managing assets is still mostly done manually, causing potential administrative errors and data duplication.
- 3 **Lack of coordination between related agencies:** Land certification involves various parties, such as local governments, the National Land Agency (BPN), and related agencies. Lack of coordination leads to delays in the certification process.
- 4 **Limited infrastructure and human resources:** Not all employees understand the use of digital information systems in asset management, so the implementation of the system is still not optimal.

To overcome these problems, the solution offered in this internship activity is the implementation and optimization of **digital information systems** in securing regional assets related to land certification. The steps taken include:

1. **Digital Recording System Improvement:** Using an information system application or platform that allows asset recording in a more structured and integrated manner.
2. **Training and Socialization:** Provide training to employees responsible for asset management to better understand how digital systems work.
3. **Improving Inter-Agency Coordination:** Facilitating communication between local governments, BPN, and other agencies that play a role in land certification so that the process can run faster and more transparently.



4. System Implementation

Assistance: Conduct trials and assist employees in the use of digital information systems to ensure their effectiveness in asset management.

This internship activity produces several outputs that are expected to support the security of regional assets more effectively, namely:

- 1 **More structured documentation of regional assets:** With the existence of a digital information system, regional asset data can be stored more securely and easily accessible.
- 2 **Increased efficiency in the land certification process:** The use of digital systems speeds up the certification process and reduces administrative errors.
- 3 **More competent human resources:** The training provided helps employees better understand digital information systems and use them optimally.
- 4 **Sustainable digital information system development plan:** With a better recording system, it is hoped that local governments can continue to develop and improve the technology used in asset management.

With this solution, it is hoped that the management and security of regional assets, especially government land certification in Kebumen Regency, can run more efficiently, transparently, and well-structured.

B. IMPLEMENTATION AND METHODS

1. Implementation of Activities

a. Internship Location and Time

This internship was carried out at the Regional Financial and Revenue Management Agency (BPKPD) of

Kebumen Regency in the field of Regional Property Management (PBMD) for four months, starting from August to December 2024. This activity focuses on the implementation of digital information systems in the management and certification of local government land assets.

b. Background of Interns

The interns are students of the D3 Business Administration study program who have an interest in the field of digitization of government administration. During the internship, participants were given the opportunity to understand the asset recording process, explore the role of information systems in securing regional property, and contribute to the implementation of digital systems for land certification.

2. Activity Method

a. Methods Used

The methods used in this internship include direct observation, field work practice, as well as training and discussion with BPKPD employees. Each method aims to provide a deeper understanding of regional asset management and the implementation of digital information systems.

b. Materials Organized

Materials provided during the internship include:

1. Introduction to Regional Asset Information Systems: Understand the systems used in recording and monitoring regional assets.
2. Government Land Certification Procedure: Understand the stages



- and documents needed in the land asset certification process.
3. Use of Asset Management Apps: Learn how the apps used to digitize asset records work.
 4. Preparation of Digital Reports and Documentation: Learn the procedures for preparing digital-based reports for asset recording and monitoring.

With the methods and materials provided, interns can understand more deeply about the process of managing regional assets and the importance of digital information systems in improving the efficiency and transparency of government administration.

C. RESULTS AND DISCUSSION

The use of digital information systems in securing regional property, especially in local government land certification in Kebumen Regency, is a strategic step to increase efficiency and effectiveness in the management of regional assets. The implementation of this system includes various aspects that aim to ensure security, transparency, and ease of access to local government land asset data.

1. Digitization of Land Data

Digitization is carried out by utilizing a GIS-based system (Geographic Information System) to map the location and status of land owned by local governments. Each land plot that has been recorded will be provided with digital information that can be easily accessed by the authorities. Thus, land asset data becomes more accurate and can be used for various administrative and planning purposes. (Esri Indonesia, 2021)

2. Use of the Regional Asset Management Information System (SIMADA)

This system is integrated with land asset data to make it easier to manage and monitor the status of land ownership and certification. SIMADA helps in the recording, updating, and reporting of assets more transparently and reliably. (Kementerian Dalam Negeri Republik Indonesia, 2020)

3. Electronic Document Storage

One of the problems that often occurs in the management of regional assets is the loss of physical documents such as land certificates. Therefore, digitizing documents is carried out by storing land certificates and other supporting documents in electronic format. Not only does this reduce the risk of document loss or damage, but it also makes it easier to find and access documents faster. (Pemerintah Kabupaten Kebumen, 2022)

4. Creating a Monitoring Dashboard

The monitoring dashboard was developed to display the status of land certification in real-time. This dashboard allows policymakers to see the progress of certification, the status of land legality, and the obstacles faced in the certification process. This information is very useful in decision-making related to regional asset management. (Badan Pengelolaan Keuangan dan Pendapatan Daerah (BPKPD) Kabupaten Kebumen, 2023)

The success of the implementation of this digital information system can be measured through several main indicators that show an increase in efficiency in land asset management. Some of these success indicators include:



Table 1. Monitoring of Land Certification at BPKPD Kebumen Regency

Indicator	Before	After
Number of Certified Land	60 %	85 %
Certification Process	12 months	6 months
Number of Lost/Damaged Documents	10 cases per year	2 cases per year
Data Accessibility	limited	Easy to access digitally

Based on information obtained through interviews and discussions with several employees at the Regional Financial and Revenue Management Agency (BPKPD) of Kebumen Regency, as well as observations during the internship period, it can be concluded that the implementation of digital information systems in the management of land certification has a positive impact. The existence of this system has been proven to increase the efficiency of the certification process, speed up administration, and reduce the number of lost or damaged documents, as well as improve data accessibility.

D. CLOSING

Conclusion

The use of digital information systems in securing assets related to local government land certification in Kebumen has had a positive impact in increasing the efficiency and transparency of asset management. With a digital system, the process of recording, monitoring, and validating land certification documents becomes faster and more accurate.

Supporting factors in the implementation of this system include regulations that encourage the digitization of regional assets, growing technological support, and the involvement of related parties such as the National Land Agency (BPN) and local government agencies. However, there are several inhibiting factors, such as limited human resources who have competence in the field of information technology, uneven infrastructure, and challenges in system integration between agencies.

Suggestion

In order for the use of digital information systems in securing local government land assets to be more optimal, strategic steps are needed, including increasing the capacity of human resources through continuous technical training, as well as strengthening information technology infrastructure to ensure system reliability and security.

In addition, more intensive coordination between related agencies is needed so that the system can operate in an integrated manner and support the effectiveness of asset management. The sustainability of the implementation of this system also needs to be supported by consistent policies, adequate budget allocation, and periodic evaluations to adjust the system to regulatory developments and needs in the field. Thus, digital information systems can continue to contribute to increasing accountability and effectiveness in the sustainable management of local government land assets.



E. BIBLIOGRAPHY

Tanah. Kebumen: BPKPD
Kabupaten Kebumen.

Esri Indonesia. (2021). *Pemanfaatan GIS dalam Pengelolaan Aset Daerah*. Diakses dari <https://www.esriindonesia.co.id>

Badan Pengelola Keuangan dan Pendapatan Daerah (BPKPD) Kabupaten Kebumen. (2023). *Pengembangan Dashboard Monitoring untuk Pengelolaan Sertifikasi Tanah*. Diakses dari <https://bpkpd.kebumenkab.go.id>

Badan Pengelola Keuangan dan Pendapatan Daerah Kabupaten Kebumen. (2023). *Susunan Organisasi BPKPD Kabupaten Kebumen*. Diakses dari <https://bpkpd.kebumenkab.go.id/>

Kementerian Dalam Negeri Republik Indonesia. (2020). *Pedoman Sistem Informasi Manajemen Aset Daerah (SIMADA)*. Kebumen: Kementerian Dalam Negeri.

Pemerintah Kabupaten Kebumen. (2008). *Peraturan Daerah Kabupaten Kebumen Nomor 13 Tahun 2008*. Kebumen: Pemerintah Kabupaten Kebumen.

Pemerintah Kabupaten Kebumen. (2021). *Peraturan Bupati Kabupaten Kebumen Nomor 129 Tahun 2021 tentang Jabatan, Struktur Organisasi, Tugas dan Fungsi, serta Tata Kerja Badan Pengelola Keuangan dan Pendapatan Daerah*. Kebumen: Pemerintah Kabupaten Kebumen.

Pemerintah Kabupaten Kebumen. (2022). *Penerapan Digitalisasi Dokumen dalam Sertifikasi Aset*