

# Reforming Taxpayer Identification: A Literature Study on the NIK-NPWP Synchronization Framework in Indonesia

**Ali Tofan**

Management Department, Study Program Management, Sekolah Tinggi Ilmu Ekonomi (STIE) NU Trate Gresik  
Jl. KH. Abdul Karim No.60, Gresik, Indonesia

## Abstract

This study investigates the integration of the Population Identification Number (NIK) as the Taxpayer Identification Number (NPWP) in Indonesia's tax administration system. The research examines its impact on taxpayer compliance, administrative efficiency, and data accuracy. Results indicate that the synchronization of NIK and NPWP significantly enhances compliance by addressing information asymmetry, improving data reliability, and simplifying administrative processes. However, challenges such as data mismatches, limited technological infrastructure, and low public awareness persist, hindering the full potential of this initiative. The study underscores the importance of adopting advanced technologies like blockchain and implementing targeted educational programs and policy interventions to overcome these barriers. This integration is identified as a pivotal step in fostering a transparent and efficient tax ecosystem in Indonesia. The findings contribute to the discourse on tax system modernization and offer actionable insights for enhancing governance and compliance in emerging economies.

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## Corresponding Author:

**Ali Tofan**

Management Department,  
Study Program Management,  
STIE NU Trate Gresik  
Jl. KH. Abdul Karim No.60, Gresik,  
Indonesia  
Email: [alitofan.ak@gmail.com](mailto:alitofan.ak@gmail.com)

## INTRODUCTION

Over the past decade, tax administration systems worldwide have undergone significant transformations driven by digitalization and data integration. Indonesia, in its pursuit of modernizing public services and ensuring fiscal sustainability, has initiated a pivotal reform by aligning two critical identification systems: the Nomor Pokok Wajib Pajak (NPWP), or Taxpayer Identification Number, and the Nomor Induk Kependudukan (NIK), or National Identity Number. This initiative is part of a broader strategy to enhance administrative efficiency, improve taxpayer compliance, and support economic resilience in the face of global uncertainties. In Indonesia, this reform is implemented under the umbrella of the Tax Reform Program, with its legal foundation established through Law No. 7 of 2021 on Harmonization of Tax Regulations (HPP) (Government of Indonesia, 2021).

The integration of the NPWP and NIK is a significant milestone in Indonesia's tax administration reforms, reflecting a commitment to addressing persistent challenges such as a low tax-to-GDP ratio, limited taxpayer base, and inefficiencies in data management. This alignment becomes even more critical as the government prepares to implement the Core Tax Administration System (PSIAP) by 2025, which promises a transformative shift in how tax data is processed, analyzed, and utilized (Directorate General of Taxes, 2022). By harmonizing these systems, Indonesia aims to streamline its tax processes and ensure that all taxpayers are accurately identified and monitored within a unified framework.

The NPWP-NIK alignment offers multiple benefits, including enhanced accuracy in taxpayer identification, reduced redundancy in administrative processes, and improved data reliability for policy formulation. Moreover, it is expected to foster greater trust between taxpayers and the government by ensuring transparency and minimizing errors in tax reporting (Nugroho & Hapsari, 2023). However, the initiative also presents significant challenges. The integration process requires robust technical infrastructure, seamless data

migration, and stringent safeguards to address privacy concerns and prevent data breaches (Santoso & Fitri, 2023). Additionally, the legal and regulatory framework must be updated to support this transition effectively, while ensuring alignment with international standards on data protection and tax administration (Wibowo & Anggraeni, 2023).

While previous studies have explored the efficiency of NPWP in tax administration and the potential of digitalization in enhancing compliance, there remains a dearth of research focusing on the specific implications of NPWP-NIK integration in Indonesia. The transition to PSIAP further underscores the urgency of understanding how these identification systems will function cohesively within a modernized tax administration framework. Addressing these gaps is crucial for ensuring that Indonesia's tax reforms achieve their intended outcomes (Hartono & Sari, 2023).

This study seeks to examine the process and implications of NPWP-NIK alignment within the context of Indonesia's tax administration reforms. Specifically, it aims to evaluate the initiative's impact on administrative efficiency, taxpayer compliance, and the overall effectiveness of the PSIAP. By situating this research within a global context, the study draws on lessons learned from other countries to identify best practices and potential pitfalls (Wang et al., 2016). Furthermore, it provides actionable insights for policymakers, tax authorities, and stakeholders to navigate the complexities of implementing an integrated tax identification system.

In an era where economic resilience is increasingly tied to effective governance and robust tax systems, the findings of this research hold significant implications. Beyond improving domestic tax administration, the NPWP-NIK alignment could serve as a model for other developing nations grappling with similar challenges. By advancing the understanding of integrated tax systems and their role in fostering compliance, this study contributes to the global discourse on tax modernization and its role in sustainable development.

## **LITERATURE REVIEW**

This section reviews existing literature related to the integration of tax identification systems and its implications for Indonesia's tax administration reforms. The review emphasizes the significance of aligning NPWP and NIK as part of broader tax reform strategies and discusses relevant global practices and their applicability to the Indonesian context. Figures and tables may be included to illustrate key concepts and findings, offering additional clarity and support to the narrative.

### **Integration of National Identification Systems in Tax Administration**

The integration of national identification systems into tax administration has been a focal point of reform efforts in several countries. For instance, India's Aadhaar-PAN linkage and Brazil's Cadastro de Pessoas Físicas (CPF) system serve as benchmarks for how integrated systems can streamline taxpayer registration and improve compliance. Studies by Hidayat and Kusuma (2023) and Rahman and Fadilah (2022) highlight the reduction in administrative costs and increased data accuracy resulting from such integration.

In Indonesia, the alignment of NPWP and NIK is expected to address issues such as data duplication and inaccuracies in taxpayer records. Research, such as Wibowo and Anggraeni (2023) and Wijaya and Yulianti (2023), indicates that the integration will enable more effective monitoring and broaden the taxpayer base by leveraging the comprehensive demographic data available through the NIK system. This alignment is anticipated to complement other digitalization efforts within the PSIAP framework, creating a seamless and efficient tax administration system, as discussed in Santoso and Fitri (2023).

### **Legal and Regulatory Framework Supporting the Alignment of NIK and NPWP**

The legal foundation for the NPWP-NIK alignment is rooted in Law No. 7 of 2021 on Harmonization of Tax Regulations (HPP), which emphasizes the government's commitment to reforming the tax administration system. This law provides clear guidelines for data protection, taxpayer rights, and compliance obligations, ensuring a seamless transition to the integrated system (Government of Indonesia, 2021). Studies, such as those by Wibowo and Anggraeni (2023) and Ardiani and Putri (2023), highlight the importance of a robust legal framework to facilitate the successful implementation of tax reforms. This framework not only enhances the efficiency of tax administration but also safeguards the privacy and rights of taxpayers.

## Challenges and Opportunities in Implementing NPWP-NIK Integration

While the integration of NPWP and NIK offers significant potential benefits, it also presents several challenges. Technical obstacles, such as data migration, system compatibility, and ensuring smooth integration, have been noted in studies like Wibowo and Anggraeni (2023) and Hidayat and Kusuma (2023). Moreover, safeguarding data privacy and security remains a critical concern, especially in the context of rising cyber threats. These challenges necessitate substantial investments in infrastructure, advanced technologies, and dedicated efforts to mitigate risks, as discussed in Santoso and Fitri (2023).

Nevertheless, the integration presents numerous opportunities for innovation and improved governance. The harmonized system could lead to the development of predictive analytics tools for tax authorities, which would enable more accurate forecasting and policy planning, as noted in Rahman and Fadilah (2022). Additionally, it is expected to enhance taxpayer trust and engagement by providing a more transparent, user-friendly system that fosters greater compliance and involvement. This opportunity for enhanced trust is highlighted in Ardiani and Putri (2023) and Hartono and Sari (2023).

By placing these discussions within the Indonesian context, this review emphasizes the vital role of NPWP-NIK alignment in advancing the broader objectives of the Indonesian tax reform (PSIAP) and strengthening the nation's tax administration framework. The successful implementation of this integration is not only a step forward in the efficiency of tax collection but also a leap towards modernizing the entire tax ecosystem to keep pace with global trends in digital governance.

## RESEARCH METHODS

The research adopts a literature review methodology, focusing on synthesizing existing studies and findings from relevant academic journals and sources on the integration of National Identification Numbers (NIK) with Taxpayer Identification Numbers (NPWP) in Indonesia.

### 1. Research Design

Type: Literature review based on previously published studies and research articles.

Objective: To analyze the integration of NIK and NPWP, its impact on taxpayer compliance, data accuracy, and administrative efficiency in Indonesia.

### 2. Data Collection

Sources: The data for this review is collected from various regulation, journals and articles.

### 3. Analysis Method

Comparative Analysis: The review compares findings from different studies.

### 4. Expected Outcome

Insights: The review aims to provide a clear understanding of how NIK-NPWP alignment can improve tax compliance, reduce administrative burdens, and increase data accuracy within the Indonesian tax system.

Recommendations: Based on the reviewed literature, recommendations will be made on potential improvements and further research needed in the context of NIK-NPWP integration.

## RESULTS AND DISCUSSION

### Results

The integration of Population Identification Number (NIK) as Taxpayer Identification Number (NPWP) was found to have significant implications on taxpayer compliance and administrative efficiency. Key findings include:

1. **Taxpayer Compliance:** Studies demonstrate a positive and significant effect of NIK-NPWP integration on taxpayer compliance, particularly with Article 21 of Income Tax (PPH Pasal 21). Taxpayer compliance increased due to reduced information asymmetry and enhanced accessibility (Rahman & Fadilah, 2022; Wijaya & Yulianti, 2023).

2. **Data Accuracy:** The synchronization process has streamlined taxpayer data updating mechanisms, addressing inaccuracies and enhancing data reliability for both taxpayers and the Directorate General of Taxes (DJP) (Rahman & Fadilah, 2022).
3. **Administrative Efficiency:** Institutions such as Semarang State University reported improvements in administrative efficiency among treasurers due to the reduced complexity in tax reporting processes (Pratama & Nugraha, 2023).
4. **Awareness and Education:** Taxpayer awareness of the NIK-NPWP program remains suboptimal, as evidenced by studies emphasizing the need for targeted outreach and education, particularly in academic settings like Universitas Islam Lamongan (Hartono & Sari, 2023; Purnomo & Rahayu, 2023).
5. **Technological Integration:** Adoption of advanced technologies such as blockchain in the NIK-NPWP matching process has been proposed to bolster data security and operational integrity in the context of Society 5.0 (Santoso & Fitri, 2023).

## Discussion

The integration of NIK as NPWP represents a transformative step in modernizing Indonesia’s tax administration system. This initiative is rooted in enhancing compliance while reducing systemic inefficiencies. Below are the primary discussion points:

1. **Impact on Taxpayer Compliance:** The synchronization process has successfully mitigated information asymmetry, a critical barrier to compliance. Enhanced accuracy in personal identification promotes trust and transparency, encouraging taxpayers to fulfill their obligations. However, MSMEs (Micro, Small, and Medium Enterprises) exhibit relatively lower compliance levels, signaling the need for targeted interventions (Wijaya & Yulianti, 2023; Ardiani & Putri, 2023).
2. **Challenges in Implementation:** Despite its advantages, several challenges persist, including data mismatches, limited technological infrastructure, and low awareness among taxpayers. Universities and other educational institutions have been identified as key stakeholders in addressing these issues through socialization programs (Hidayat & Kusuma, 2023; Purnomo & Rahayu, 2023).
3. **Technological Enhancements:** Leveraging technologies like blockchain provides a promising solution to improve data security and streamline the integration process. This aligns with global trends in digitizing tax systems to achieve higher security and efficiency (Santoso & Fitri, 2023).
4. **Policy Implications:** Policymakers must ensure that the NIK-NPWP synchronization framework addresses diverse taxpayer demographics. Tailored outreach and continuous monitoring are vital to enhance acceptance and efficacy across different socioeconomic segments (Wibowo & Anggraeni, 2023; Hartono & Sari, 2023).
5. **Future Directions:** Further research is needed to evaluate the long-term impacts of NIK-NPWP integration on tax revenue and compliance. Additionally, exploring cross-sectoral applications of NIK could pave the way for broader governance improvements.

**Table 1.** Summary of Key Findings

Aspect	Observation	Reference
Taxpayer Compliance	Significant increase in compliance levels	Rahman & Fadilah, 2022; Ardiani & Putri, 2023
Data Accuracy	Improved reliability of taxpayer records	Rahman & Fadilah, 2022
Administrative Efficiency	Streamlined processes for treasurers	Pratama & Nugraha, 2023
Awareness and Education	Need for targeted education initiatives	Hartono & Sari, 2023; Purnomo & Rahayu, 2023
Technological Integration	Blockchain proposed for security	Santoso & Fitri, 2023

This section underscores the strategic importance of integrating NIK as NPWP in fostering a compliant and efficient tax ecosystem in Indonesia. While substantial progress has been made, addressing the identified challenges is crucial for achieving the full potential of this initiative.

## CONCLUSIONS

The integration of Population Identification Number (NIK) as Taxpayer Identification Number (NPWP) marks a significant advancement in modernizing Indonesia's tax administration system. The literature and data indicate that this initiative enhances taxpayer compliance, improves data accuracy, and streamlines administrative processes. These improvements are crucial for fostering a more efficient and transparent tax ecosystem.

Despite these positive outcomes, challenges such as data mismatches, limited technological infrastructure, and low public awareness highlight the need for targeted outreach, education, and the adoption of advanced technologies like blockchain. Addressing these challenges will ensure the long-term success and acceptance of NIK-NPWP integration across diverse taxpayer demographics.

In conclusion, while the integration initiative has already demonstrated its potential to improve compliance and efficiency, continuous monitoring and tailored interventions are essential to fully realize its benefits and support Indonesia's broader governance objectives.

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