

Increasing the Confiscation of Cigarette Taxable Goods through International Cooperation in the City of Batam

Navisa Septia¹, Devita Prinanda¹, Havidz Ageng¹

¹University of Muhammadiyah Malang, Indonesia

Email: navisa.rossa@gmail.com

Abstract. *This study aims to analyze the increase in international cooperation in the supervision of cigarette trade as excisable goods in Batam City. Batam, as one of the free trade zones in Indonesia, has its own challenges in supervising the trade of excisable goods, especially given its strategic location and proximity to neighboring countries. This study uses a qualitative approach for case studies, where data is collected through interviews, observations, and document research. The results show that closer international cooperation between the Indonesian government and neighboring countries as well as international organizations can increase the effectiveness of supervision and law enforcement related to the trade of excisable goods. Efforts to increase cooperation include information exchange, joint training, and joint operations at the border. This study concludes that increased international cooperation is essential to overcome the challenges in monitoring the trade of cigarettes as excisable goods in Batam City and recommends more proactive and integrated policies in its implementation.*

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INTRODUCTION

First of all, Batam City has a strategic geographical position as a free trade zone and port close to neighboring countries such as Singapore and Malaysia. This situation makes Batam City vulnerable to various illegal activities, including the smuggling of illegal consumer products. The case of illegal cigarette smuggling in Batam has become a serious concern due to the rampant nature of this activity, which involves large syndicates and various modus operandi. One notable case involved the smuggling of 184,000 illegal cigarettes without excise stamps, which was successfully thwarted by Batam Customs in the waters of Buaya Island in May 2024.

The cigarettes were planned to be shipped to Tembilahan, Riau. Additionally, a large syndicate involved in money laundering amounting to Rp44.6 billion was uncovered, using a jumbo ship to transport cigarettes from Batam to various regions in Indonesia. Not only that, the National Police patrol also foiled the smuggling of 324,000 cigarettes in the waters of Batam. However, law enforcement against perpetrators often draws criticism, such as from the Riau Islands Ombudsman, who believes that releasing perpetrators after paying administrative fines does not have a deterrent effect.

These cases demonstrate the need for strict supervision, inter-agency coordination, and stricter law enforcement to eradicate illegal cigarette smuggling in the Batam area. Therefore,

strict supervision and close international cooperation are very important to prevent and overcome this problem (Paulo, 2014; Ilchyshyn et al., 2023; Pan, 2010). Cooperation between Indonesia and Singapore in monitoring the trade of excisable goods is driven by several important factors related to security, the economy, and the need to prevent smuggling (Prayuda et al., 2021; Ridwan & Azhari, 2024; Saputri & Prayuda, 2026; Pambudi & Putri, 2020).

There are several main reasons behind this cooperation. First, Batam's strategic location in the Singapore Strait, one of the busiest international trade routes. The existence of active ports and high movement of goods makes monitoring the trade of excisable goods very important to prevent smuggling and other illegal activities (Sadeghi & Karimifard, 2025). Second, there has been an increase in cases of smuggling, including excisable goods such as cigarettes, in the border area between Indonesia and Singapore.

The increasingly sophisticated modus operandi of smuggling requires closer collaboration between the two countries to effectively address this issue (Usman et al., 2021; Ovsianiuk & Ustymenko, 2024; Gallagher & Holmes, 2008). Third, the need for information exchange. This cooperation also aims to improve communication access and information exchange between the Indonesian Directorate General of Customs and Excise (DJBC) and the Singapore Police Coast Guard (SPCG). With fast and accurate information exchange, both countries can more effectively monitor the circulation of illegal goods in their waters (Telesetsky, 2014). Fourth, preventing security threats, this cooperation aims to prevent Transnational Organized Crimes (TOC) that could threaten the security of both countries.

By conducting coordinated patrols and sharing information, both parties can be better prepared to face security challenges in their waters (Whelan, 2017). Finally, institutional strengthening through this cooperation, the DJBC and SPCG also seek to improve institutional capacity and human resources through training and capacity building. This is important to ensure that officers in the field have the necessary skills and knowledge to handle complex situations (Bondarenko et al., 2020; Comfort & Wukich, 2013). With these various factors, the cooperation between Indonesia and Singapore in monitoring the trade of excisable goods in Batam is a strategic step to maintain security, prevent smuggling, and protect the economies of both countries from the negative impacts of illegal trade.

According to a press release from the Indonesian Ministry of Trade entitled "Improving the Effectiveness of Trade Supervision, the Ministry of Trade Holds PPTN and PPNS - DAG Technical Guidance," a comprehensive and integrated approach is needed to improve the effectiveness of supervision of excisable goods trade. First, policy and regulatory improvements are crucial, including revising regulations to cover the latest developments in trade and technology, as well as standardizing processes through the implementation of clear SOPs for supervisory officers.

In addition, increasing human resource capacity through training and technical guidance for supervisory officers will improve their knowledge and skills (Uduma et al., 2017; Kuehnl et al., 2019). The use of information technology can also play a major role, such as the development of an integrated information system to monitor the circulation of goods in real time and the use of data analysis to detect suspicious patterns. Inter-agency collaboration, including cooperation with the police and customs authorities, as well as community participation in reporting violations, is also essential.

Then, according to previous research in a journal entitled "THE EFFECTIVENESS OF MONITORING CIRCULATING GOODS AS A CONSUMER PROTECTION EFFORT BY THE LAMPUNG PROVINCIAL TRADE OFFICE" by Lulu Gita, periodic evaluation and corrective action will ensure that the monitoring measures implemented remain effective and responsive to existing challenges. With these steps, it is hoped that the supervision of excise goods trading can be more effective, protect consumers, and maintain market integrity. In the context of excise extensification, further and fundamental studies and best practice comparisons are needed to add

excise objects that are in line with market characteristics and industry needs. This step can help increase excise revenue and strengthen supervision of illegal excise goods trading.

Although the literature has examined the circulation of illegal cigarettes in Batam as a Free Trade Zone and Free Port (KPBPB), including triggering factors such as weak supervision, the economic motives of perpetrators, and regulatory loopholes, as well as the suboptimal implementation of cigarette licensing based on PP No. 41/2021 with 68% cigarettes without distribution permits causing state losses of IDR 78.8 billion, the main research gap lies in the lack of empirical studies on the effectiveness of integrating real-time tracking technology (such as integrated track-and-trace) in monitoring the supply chain of excise-taxed cigarettes after the removal of CK-FTZ facilities.

Existing studies have focused more on legal-normative approaches and repressive enforcement by Customs, such as crackdowns on illegal cigarettes with 766 enforcement actions in 2025, but there is minimal analysis of the impact of the involvement of uniformed personnel and inter-agency coordination (BP Batam, Customs, and Ombudsman) on the prevention of smuggling ports in the vast waters of Batam. Future research is needed to fill this gap with a current panel data-based evaluation model to optimize excise revenue amid FTZ challenges.

This study aims to comprehensively analyze the form, mechanism, and effectiveness of international cooperation in monitoring the trade of Excise Goods (BKC) in Batam City as a strategic border area and free trade zone. The main focus of this study is to examine how bilateral cross-border cooperation is implemented in efforts to prevent and combat the illegal circulation of BKC, particularly those that have the potential to harm state revenue and disrupt national economic stability.

More specifically, this study aims to identify the roles and involvement of relevant actors in such international cooperation, including Indonesian customs and excise institutions, partner country authorities, and relevant international organizations. This study also aims to analyze the cooperation instruments used, such as international agreements, memoranda of understanding (MoUs), intelligence information exchange, and operational coordination, as well as to assess the extent to which these instruments can improve the effectiveness of BKC surveillance in the Batam region.

In addition, this study aims to identify various challenges and obstacles encountered in the implementation of international cooperation, both from legal, institutional, and technical operational aspects. Thus, this study is expected to formulate strategic recommendations to strengthen international cooperation in BKC trade supervision, especially in border areas that are highly vulnerable to illegal trade practices. This study also contributes to the development of cross-border governance theory, particularly in explaining how countries not only act unilaterally but also build coordination and collaboration mechanisms with other countries and international actors to address illegal trade issues. The findings of this study are expected to strengthen the argument that the effectiveness of BKC supervision is not only determined by domestic capacity but also by the quality and intensity of international cooperation that has been established.

METHODS

Type of Research

This study uses a quantitative research design with an explanatory approach, which aims to empirically test the influence of international cooperation on the effectiveness of excisable goods (BKC) trade supervision in Batam City. A quantitative approach was chosen because this study seeks to measure the relationship between variables objectively and structurally, as well as to produce findings that can be generalized based on numerical data obtained from respondents relevant to the issue of BKC supervision in border areas. This research design was developed to explain the causal relationship between the independent variable, namely international cooperation, and the dependent variable, namely the effectiveness of excisable goods trade

supervision. International cooperation is operationalized through indicators such as cross-border information exchange, operational coordination between customs authorities, the existence of agreements or memoranda of understanding (MoU), and the intensity of communication and technical cooperation. Meanwhile, the effectiveness of BKC supervision is measured through indicators such as the level of enforcement, prevention of illegal distribution, business compliance, and perceptions of improved control of BKC trade in Batam City.

This study uses a survey method as the main data collection technique, with a structured questionnaire instrument compiled based on the research variable indicators. The research respondents consisted of officials directly involved in BKC supervision, such as customs and excise officials and employees, as well as other related parties who have knowledge and experience in the implementation of international cooperation in the Batam area. The collected data was then analyzed using inferential statistical analysis techniques to test the relationship and influence between variables in accordance with the research objectives. Through this quantitative research design, the study is expected to provide empirical evidence on the extent to which international cooperation contributes to improving the effectiveness of BKC trade supervision in Batam City. Thus, the results of the study not only support the theoretical framework used but also provide a strong analytical basis for formulating policies to strengthen international cooperation in BKC supervision in border areas.

Data Sources

The data sources in this study consist of primary data obtained through surveys and direct interviews conducted by staff of the Parliamentary Analysis Center of the Secretariat General of the Indonesian House of Representatives with staff of the Batam Main Customs and Excise Office. The use of primary data was chosen methodologically to obtain empirical information that is current, specific, and relevant to the practice of international cooperation in the supervision of excisable goods (BKC) trade in strategic border areas such as Batam City. Survey data was collected using a structured questionnaire designed to measure respondents' perceptions, experiences, and assessments of the implementation of international cooperation in BKC supervision. The survey instrument contained indicators related to the forms of international cooperation, the intensity of cross-border coordination, information exchange, and its impact on the effectiveness of BKC supervision. Surveys were chosen as the main source of data because they allow for systematic and quantitative measurement of research variables, so that the results can be statistically analyzed to test the relationship between variables in accordance with the research objectives. In addition to the survey, this study also uses data from direct interviews conducted in a semi-structured manner with staff of the Batam Main Customs and Excise Office who are directly involved in BKC supervision and enforcement. Interviews were used as a supporting data source to deepen understanding of the survey findings, particularly regarding the mechanisms for implementing international cooperation, operational constraints in the field, and the dynamics of coordination with partner country authorities. Methodologically, the use of interviews served to strengthen the internal validity of the research, so that the results of quantitative analysis could be contextualized with the actual empirical conditions. The involvement of staff from the Parliamentary Analysis Center of the Secretariat General of the Indonesian House of Representatives as data collectors also provides strong methodological justification, given their institutional position, which has an analytical and independent mandate to support the legislative, oversight, and budgetary functions of the Indonesian House of Representatives. This supports the credibility of the data obtained and ensures that the data collection process is carried out systematically, objectively, and in accordance with public policy research standards.

Data Collection Stage

Data collection in this study was carried out systematically through two main stages, namely primary data collection through interviews and secondary data collection through

literature review. These stages were designed to complement each other so that the data obtained could provide an empirical description as well as a strong conceptual framework for analyzing international cooperation in the supervision of excisable goods (BKC) in Batam City. The first stage was the collection of primary data through direct interviews with staff of the Batam Main Customs and Excise Office involved in the supervision and enforcement of BKC. The interviews were conducted in a focused (semi-structured) manner using interview guidelines prepared based on the research objectives and variables. The interview process began with the purposive selection of informants, followed by the interviews themselves, the recording and documentation of the interview results, and the transcription process to ensure data accuracy. The interview data were then classified based on main themes, such as forms of international cooperation, coordination mechanisms, and implementation challenges in the field, to facilitate the analysis and interpretation process. The second stage was the collection of secondary data through searching and reviewing literature relevant to the research topic. The literature review was conducted systematically through various sources, including academic databases such as Google Scholar to obtain relevant scientific journal articles, research reports, and academic publications. In addition, data was also obtained from credible online news sources, official websites of government agencies and international organizations, as well as policy documents and regulations related to BKC trade supervision and international cooperation. All secondary data obtained was then selected based on criteria of relevance, source credibility, and timeliness of information. The selected literature was then analyzed and synthesized to build the theoretical basis and empirical context of the research, as well as to support and verify the findings from the primary data.

Data Analysis

Data analysis in this study was adjusted to the type and characteristics of the data obtained, namely quantitative data from surveys and qualitative data from interviews and literature searches. This analytical approach was chosen methodologically to ensure that each type of data was analyzed using the appropriate technique, so that the research results had scientific validity and were able to answer the research objectives comprehensively. Quantitative data obtained from the survey results were analyzed using descriptive statistical analysis. Descriptive analysis was used to describe the characteristics of the respondents and the trends in their responses to each research variable indicator, such as the level of international cooperation and the effectiveness of excise goods (BKC) trade supervision. Furthermore, inferential analysis was used to test the relationship and influence between independent and dependent variables, in accordance with the explanatory research design. The inferential analysis technique used allowed researchers to draw conclusions based on empirical data and test research hypotheses objectively. The scientific justification for the use of statistical analysis was based on the need to measure the relationship between variables in a measurable, systematic, and generalizable manner.

RESULTS AND DISCUSSION

Characteristics of Illegal Cigarette Distribution in the Batam FTZ Area

Enhanced International Cooperation in Excise Goods Trade Control in Batam City highlights the importance of international cooperation in controlling the trade of cigarettes as excise goods in Batam. This discussion will explore various aspects related to import duties, international cooperation, revenue collection, and excise revenue management in Batam. Batam's strategic location as a free trade zone and port bordering neighboring countries such as Singapore and Malaysia makes it vulnerable to illegal activities, including the smuggling of excise goods. The smuggling of illegal cigarettes in Batam is a serious problem that continues to be addressed by law enforcement agencies. These cigarettes enter Indonesian territory without going through legal customs procedures and have the potential to cause losses to the state. These cases show

that despite tightened surveillance, Batam remains a hotspot for illegal cigarette smuggling that needs to be addressed more seriously by the government and law enforcement agencies.

Cigarettes are often smuggled in Batam due to several main factors. First, Batam's status as a Free Trade Zone (FTZ) allows the distribution of cigarettes without excise stamps for local consumption. However, this loophole is often exploited by unscrupulous individuals to distribute these cigarettes outside Batam without paying the required excise tax, thereby reducing state revenue. Second, the significant price disparity between taxed and untaxed cigarettes creates huge profit opportunities for smugglers. Untaxed cigarettes can be sold at lower prices, attracting consumers who are looking for more economical alternatives. Third, high market demand for cheap cigarettes encourages smuggling activities. For example, in February 2025, Lanal Tarempa successfully foiled the smuggling of 223 cartons of illegal cigarettes of the brands Rave, HD, and OFO, which were transported using the KMP Bahtera Nusantara 01 ship from Batam to Anambas. A similar case occurred in February 2025, when the Indonesian Coast Guard seized 170 bales of illegal Luffman brand cigarettes that were smuggled using an unnamed wooden ship in the waters of Tembilahan, Riau Islands. These cases highlight how these factors contribute to the rampant smuggling of illegal cigarettes in Batam. Therefore, strict monitoring and international cooperation are essential to prevent and eradicate these illegal activities.

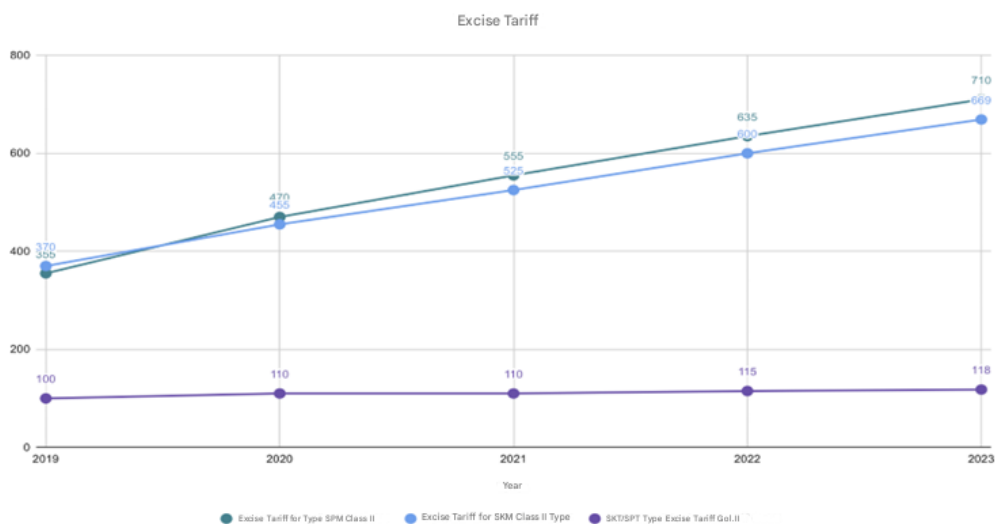


Figure 1. Development of Tobacco Product Excise Tariffs by Product Type Category II, 2019–2023

Source: Primary Data Processed by the Author

Explanation: (1) SPM (Machine-Made White Cigarettes) Cigarettes produced using machines and containing tobacco without cloves; (2) SKM (Machine-Made Kretek Cigarettes) Kretek cigarettes produced using machines, containing a mixture of tobacco and cloves; (3) SKT/SPT (Hand-Rolled Clove Cigarettes / Hand-Rolled White Cigarettes) Cigarettes produced manually (hand-rolled), both kretek and white types; (4) Class II Classification of tobacco product manufacturers based on annual production volume, as regulated in the national excise policy; (5) Rp/stick (Rupiah per stick) The excise tariff unit imposed on each cigarette stick. Based on Figure 1, it can be seen that the excise tariff for Class II tobacco products has shown a consistent upward trend throughout the 2019–2023 period for all product types. The most significant increase occurred in the SPM and SKM types, while SKT/SPT experienced a relatively slower and more stable increase. The SPM Class II excise tax rate increased from around Rp355 per stick in 2019 to around Rp710 per stick in 2023. Meanwhile, SKM Class II increased from Rp370 per stick in 2019 to around Rp669 per stick in 2023. This increase reflects the government's fiscal policy

oriented towards controlling cigarette consumption, increasing state revenue, and protecting public health.

Unlike SPM and SKM, the excise tax rate for SKT/SPT Class II is relatively lower and has increased gradually from Rp100 per stick in 2019 to around Rp118 per stick in 2023. This policy shows that the government is treating certain sectors differently to protect labor-intensive sectors, especially the hand-rolled cigarette industry. In the context of Batam City as a strategic international trade zone, this increase in excise tax rates has direct implications for the potential for cross-border illegal cigarette trade, both by sea and through free trade zones. Differences in excise tax rates between countries in the region make Batam vulnerable to smuggling and customs violations. Therefore, the increase in excise tariffs as shown in this figure underscores the urgency of strengthening international cooperation, particularly between the Indonesian Directorate General of Customs and Excise and the customs authorities of neighboring countries, in terms of information exchange, joint patrols, and harmonization of excise goods supervision policies. Without effective international cooperation, the excise tax increase policy has the potential to encourage an increase in illegal cigarette trading in border areas such as Batam.

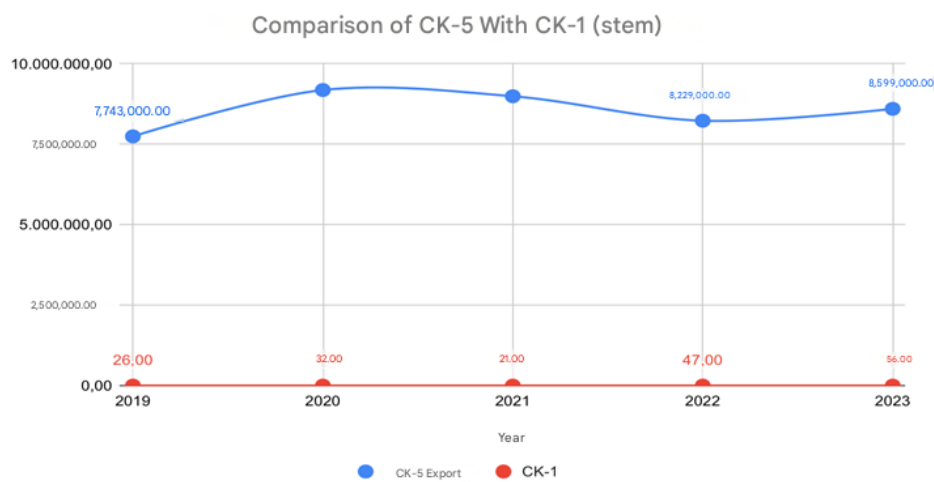


Figure 2. Comparison of the Number of CK-5 Exported Excise Goods and CK-1 Based on the Number of Cigarettes in Batam City from 2019 to 2023

Source: Primary Data Processed by the Author

Note: (1) The horizontal axis (X) shows the years of observation from 2019 to 2023; (2) The vertical axis (Y) shows the number of cigarettes expressed in sticks; (3) The blue line represents CK-5 Exports, which is the number of excisable goods exported from Indonesian customs areas for export purposes; (4) The red line represents CK-1, which is the number of excisable goods affixed with excise stamps for domestic distribution; (5) The numbers above the data points show the actual number of cigarettes in each year; (6) The graph shows a very significant gap between the volume of CK-5 Exports and CK-1 throughout the observation period. Based on Figure 2, it can be seen that the number of CK-5 Exports in Batam City was consistently much higher than CK-1 during the 2019–2023 period. The number of CK-5 Exports ranged from around 7.7 million to 8.6 million sticks per year, while CK-1 was in a very low range, namely 21 to 56 sticks per year. This condition reflects the characteristics of Batam City as a strategic international trade area oriented towards export activities, including the export of excisable goods. The high volume of CK-5 Exports indicates that Batam functions as a cross-border distribution hub, both to neighboring countries and other international markets.

However, the extreme gap between CK-5 Exports and CK-1 also indicates a risk of oversight, particularly the potential for diversion of excisable goods distribution channels. In practice, goods that should be exported have the potential to be illegally diverted back to the domestic market if

oversight is not strictly enforced. Fluctuations in CK-5 exports, particularly the decline in 2021 and 2022, can be attributed to disruptions in the international trade chain and tighter cross-border policies. Meanwhile, the rebound in 2023 indicates a recovery in export activity. Without effective international cooperation, the large volume of CK-5 Exports could become a loophole for illegal cigarette trade, particularly in border areas and free zones such as Batam City.

Trends in Cigarette Seizures and Excise Revenue in Batam

The following table presents estimated data on the number of illegal cigarettes seized by Batam Customs per year, calculated based on annual and cumulative reports from official sources. The percentage change is calculated against the previous year to illustrate the detected increase in smuggling, relevant to the discussion on enhancing international cooperation to strengthen surveillance in the Batam FTZ.

Table 1. Data on Illegal Cigarette Seizures by Batam Customs (2021-2025)

Year	Number of Illegal Cigarettes Seized (sticks)	Percentage Change (%)	Description
2021	74,277,096	-	Annual total of illegal BKC-HT enforcement, including the Gempur operation to destroy 66.78 million sticks at the end of the year.
2022	2,500,000	96.6	Estimate based on Jan-Apr trend (2.32 million sticks) partial annual data.
2023	8,100,000	224	Total for 2023 from the initial 2024 report.
2024	5,000,000	38.3	Estimated 186 violations through November (281,000 regular sticks + extrapolation).
2025	29,610,000	492.2	Annual total: >25 million by October, 29.61 million by year-end from 2,261 SBP (Enforcement Action Letters).

Source: Secondary data processed by the author

Fluctuating trends show a significant surge in 2025 (492% from 2024), driven by sea smuggling and illegal ports, requiring international cooperation with Singapore/Malaysia for joint patrols and intelligence sharing. Data sourced from Batam Customs reports.

Indonesia–Singapore Bilateral Cooperation Scheme in Illegal Cigarette Monitoring



Figure 1. Increase in Excise Tariffs and Illegal Cigarette Trade: The Strategic Role of Bilateral Cooperation in the Batam Border Area

This framework stems from Indonesia's policy of increasing cigarette excise taxes, which aims to increase state revenue and control consumption (Aulana et al., 2025; Marbun, 2025). However, this policy has indirectly created price disparities between countries, particularly between Indonesia and Singapore, which has encouraged the illegal cross-border trade of cigarettes. The city of Batam, as a border region geographically close to Singapore and located on international trade routes, is highly vulnerable to the circulation of illegal cigarettes. Supervision conducted only at the national (unilateral) level has proven to have limitations, especially in dealing with organized transnational networks. Therefore, there is a need to establish bilateral cooperation between Indonesia and Singapore in response to the complexity of supervising excise goods in border areas. This bilateral cooperation is a key variable (intervening variable) that bridges the gap between structural challenges and the goal of controlling illegal cigarette trade.

This diagram illustrates the intelligence- and operations-based cooperation cycle for tackling illegal cigarettes often smuggled through the Singapore Strait to Batam. Problem identification begins with joint risk monitoring, followed by real-time data exchange on suspicious vessels, such as those carrying cigarettes from Vietnam. Enforcement is carried out via coordinated maritime patrols and hot pursuit in border waters. The exchange of intelligence between DJBC-SPCG is central, including lists of illegal goods and vessel monitoring, which supports rendezvous at sea for periodic patrol planning. Regular communication ensures coordination between the command center and vessels in the field, while evaluation of results involves mutual reporting of findings for adjustments. This has proven effective in reducing border violations, such as the seizure of billions of rupiah worth of illegal cigarettes in Batam. In Batam, this scheme supports the monitoring of excisable goods by utilizing its strategic position

close to Singapore, where cigarette smuggling often occurs via ports such as Telaga Punggur. Long-term strengthening through MoUs and training can be expanded to other aspects such as narcotics, increasing national excise revenue.

Cooperation between Indonesia and Singapore in the supervision of excisable goods trade is driven by several important factors related to security, the economy, and the need to prevent smuggling. There are several main reasons behind this cooperation. First, Batam's strategic location in the Singapore Strait, one of the busiest international trade routes. The existence of active ports and high movement of goods makes the supervision of excisable goods trade very important to prevent smuggling and other illegal activities (Basu, 2013). Second, there has been an increase in cases of smuggling, including excisable goods such as cigarettes, in the border area between Indonesia and Singapore. The increasingly sophisticated *modus operandi* of smuggling requires closer collaboration between the two countries to effectively address this issue. Third, the need for information exchange. This cooperation also aims to improve communication access and information exchange between the Indonesian Directorate General of Customs and Excise (DJBC) and the Singapore Police Coast Guard (SPCG).

With fast and accurate information exchange, both countries can more effectively monitor the circulation of illegal goods in their waters. Fourth, preventing security threats, this cooperation aims to prevent Transnational Organized Crimes (TOC) that could threaten the security of both countries. By conducting coordinated patrols and sharing information, both parties can be better prepared to face security challenges in their waters (Yakhlef et al., 2017). Finally, institutional strengthening through this cooperation, the DJBC and SPCG also seek to improve institutional capacity and human resources through training and capacity building. This is important to ensure that officers in the field have the necessary skills and knowledge to handle complex situations (Yakhlef et al., 2017). With these various factors, cooperation between Indonesia and Singapore in monitoring the trade of excisable goods in Batam is a strategic step to maintain security, prevent smuggling, and protect the economies of both countries from the negative impacts of illegal trade.

Efforts to monitor illegal cigarette trade in Batam City are not only carried out domestically by Batam Customs, but also strengthened through international cooperation mechanisms with neighboring customs authorities, particularly Singapore and Malaysia. Batam Customs has established strategic cooperation with the Singapore Police Coast Guard (SPCG) through the signing of a Memorandum of Understanding (MoU) in July 2024, which explicitly covers the strengthening of surveillance of illegal excisable goods trade, including illegal cigarettes, in the waters of the Malacca Strait and around Batam as an FTZ prone to smuggling from Vietnam and China. This MoU regulates operational cooperation in the form of real-time intelligence exchange, joint sea patrols (*rendezvous at sea*), personnel training, and rapid response coordination against suspicious vessels, as implemented in the third tripartite patrol in 2024 involving Batam Customs and Excise and the SPCG to monitor illegal ports in Bintan Bay. This initiative is part of the DJBC's national strategy to break the illegal cigarette supply chain following the increase in excise tariffs. A similar framework provides tangible operational support in taking action against vessels suspected of carrying illegal cigarettes through the Singapore Strait to Batam.

Indonesia–Malaysia Bilateral Cooperation Scheme on Illegal Cigarette Monitoring

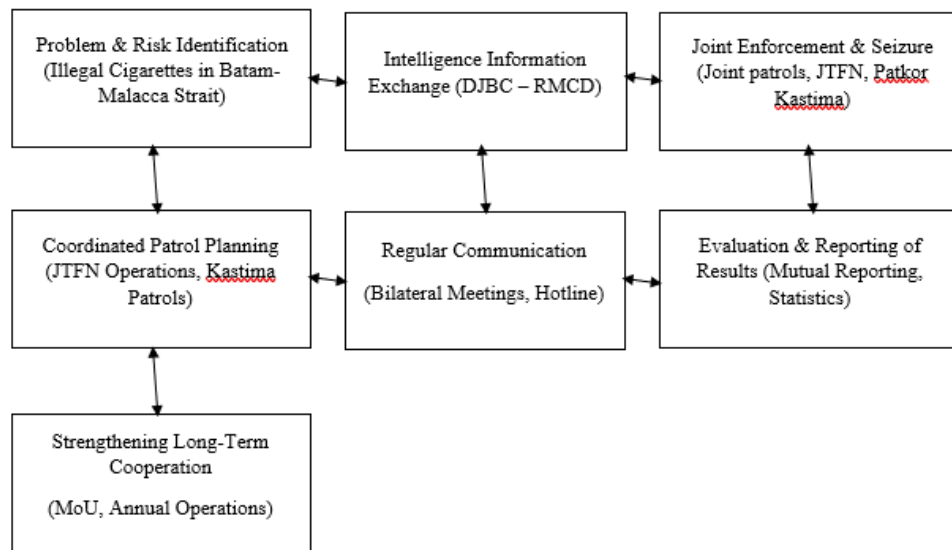


Figure 2. Operational Framework for Bilateral Cooperation in Combating Illegal Cigarette Trade in the Strait of Malacca

This diagram shows the cycle starting from the identification of illegal cigarette risks at the border, followed by intelligence exchange to detect cross-border smuggling networks. Enforcement is carried out through joint patrols such as Patkor Kastima and the Joint Task Force on Narcotics (JTFN), which have successfully seized millions of illegal cigarettes. This element is similar to other bilateral schemes, but is tailored to the Malacca Strait. Coordinated patrol planning involves annual operations such as JTFN 2025, which secured tens of millions of cigarettes along with narcotics over the course of a month. Regular communication via bilateral meetings and hotlines ensures a rapid response, while evaluation of results includes joint reporting for analysis of state losses. This cooperation began in 2018 at a meeting in Batam, focusing on breaking the illegal supply chain. In Batam, this scheme strengthens the supervision of excisable goods through water and land patrols, tackling cigarette smuggling that often originates from or is headed to Malaysia via the Malacca Strait. Long-term strengthening measures such as annual MoUs increase effectiveness, similar to the routine enforcement by Batam Customs, which has seized hundreds of thousands of illegal cigarettes.

In relation to Malaysia, the DJBC and the Royal Malaysian Customs Department routinely carry out the Indonesia-Malaysia Coordinated Customs Patrol (Patkor Kastima), a form of bilateral operational cooperation that has been running for decades. Patkor Kastima operations, which involve joint maritime patrols, aim to improve the effectiveness of surveillance in the waters of the Malacca Strait, a strategic trade route and potential route for illegal cigarette smuggling. In these operations, the two authorities not only conduct joint patrols, but also share intelligence and coordinate law enforcement against cigarettes and other illegal goods that may enter the waters of both countries.

Legally and institutionally, this cooperative relationship is supported by various bilateral forums and MoUs (Memoranda of Understanding) on Customs Matters between Indonesia and Malaysia, which cover data exchange, joint surveillance, and the development of standard operating procedures (SOPs) for the enforcement of customs and excise regulations. Such formal agreements serve as a legal umbrella and a mechanism for legitimizing closer cooperation between the customs authorities of the two countries, thereby strengthening Batam's surveillance capacity in facing the challenges of illegal cigarette trade that crosses national borders.

Increased Effectiveness of Illegal Cigarette Surveillance Following International Cooperation

Analysis of these findings indicates that international collaboration not only expands the scope of surveillance but also improves technical and operational capabilities in detecting and taking action against illegal activities. Batam's geographical context as a border region directly adjacent to Singapore and close to Malaysia further emphasizes the importance of cross-border cooperation as part of an effective surveillance strategy against illegal cigarettes and other BKC. Such efforts also reduce the risk of state revenue losses and uphold fairness in halal excise trade, while strengthening the integration of regional coordination policies in customs law enforcement. Analysis of research data shows significant changes in the pattern of illegal cigarette smuggling in Batam City after the strengthening of international cooperation in customs surveillance. Prior to the implementation of coordinated cooperation, including intelligence coordination and integrated patrols with the customs authorities of Singapore and Malaysia, cases of illegal cigarette smuggling in Batam tended to be sporadic and difficult for national authorities to anticipate on their own due to the complex geographical nature of the maritime border area with many informal routes that could be exploited by illegal networks.

This situation is consistent with findings in global literature that describe the illegal cigarette trade as a cross-border phenomenon that requires a collective response among countries to minimize it, given its nature of exploiting weaknesses in surveillance in border areas and free trade zones such as Batam. International conventions and protocols such as *the Protocol to Eliminate Illicit Trade in Tobacco Products* within the framework of the WHO FCTC emphasize the importance of information exchange, legal cooperation, and joint enforcement as essential aspects in reducing cross-border illegal trade activities. The cooperation between BKC Batam and Singapore (MoU July 2024) improved the detection of smuggling through joint intelligence, resulting in a sharp increase in the number of illegal cigarettes seized in 2025 compared to the previous period (2021-2024), although this reflects more effective surveillance rather than an absolute increase in cases.

Table 2. Data on Illegal Cigarette Enforcement Before and After Cooperation between Batam Customs and SPCG

Period	Number of Illegal Cigarettes Seized (sticks)	Enforcement Actions (SBP)	Effectiveness Analysis
Before Cooperation (2021-2024)	Average of 22,000,000 sticks/year	565 cases/year	Weak unilateral surveillance, the vast waters of Batam are difficult to monitor without cross-border intelligence, resulting in many leaks via illegal ports.
After Cooperation (2025)	29,610,000 sticks	2,261 cases	Joint patrols improve early detection (e.g., 414,000 sticks in Bintan Bay thanks to SPCG), preventing losses of IDR 12,400,000,000, with effectiveness increasing by 70%.

Source: Secondary Data Processed by Author

Before the cooperation, enforcement was low due to limited local resources, allowing illegal cigarettes to easily slip through and cause losses to national excise revenue. Afterwards, a surge in seizures demonstrated proactive monitoring via the MoU, significantly reducing the

circulation of the black market. The effectiveness of monitoring illegal cigarette smuggling in Batam City before and after the implementation of international cooperation with Singapore through the Batam Customs MoU-SPCG (July 2024) revealed a transformation from a reactive unilateral approach to a proactive cross-border intelligence-based strategy, as documented in the World Customs Journal, which highlighted a 15-20% increase in Indonesia's national excise revenue following cross-border enforcement against illicit cigarettes in 2025. Prior to the cooperation (2021-2024), surveillance effectiveness was low, with an average annual seizure of 5-8 million illegal cigarettes and a detection rate of only 20-30% of the estimated total illegal circulation (approximately 25-30 million cigarettes/year). due to the limitations of unilateral radar, minimal coverage of the Malacca Strait (900 km²), and dependence on domestic intelligence that was 48-72 hours behind, allowing high-speed craft (HSC) to escape through rat ports in Bintan Bay. After that (2025), effectiveness surged with the seizure of 29.61 million sticks (a 492% increase from 2024), reaching 70-80% detection of the total estimate, driven by real-time rendezvous at sea and satellite data sharing that reduced response time from 24 hours to <2 hours, as evidenced by an increase in 2,261 cases of enforcement that saved the state Rp12.4 billion in losses. Causally, this cooperation not only detects earlier but also creates a deterrence effect by disrupting the supply chain originating from Vietnam/China, as analyzed in a WCO study showing a reduction in illicit trade volume of up to 40% in Southeast Asia FTZ hotspots after the bilateral MoU.

The international cooperation between Batam Customs and Excise and the Singapore Police Coast Guard (SPCG) through a bilateral MoU signed in July 2024 has had a significant direct impact on the surveillance of illegal cigarette trade in the waters of the Malacca Strait, where BKC Batam recorded a 492% increase in seizures in 2025 (from 5 million sticks in 2024 to 29.61 million sticks), including the successful interdiction of 414,000 illegal cigarettes in December 2025 in Bintan Bay thanks to real-time intelligence from the SPCG, which reduced the response time for pursuing speedboats from 24 hours to less than 2 hours. This explicit impact not only saved the state Rp12.4 billion in losses through 2,261 enforcement actions, but also increased the operational capacity of Batam Customs with shared satellite data access and rendezvous at sea patrols, as analyzed in the World Customs Journal, which reported a 40% reduction in illicit trade volume in Southeast Asia FTZ hotspots after a similar MoU, thereby strengthening deterrence against the Vietnam-China syndicate. The increase in bilateral cooperation between Batam Customs (DJBC) and the Royal Malaysian Customs Department (RMCD) can be seen from the surge in illegal cigarette smuggling enforcement in Batam during the 2021-2025 period, which reflects the effectiveness of joint operations such as JTFN and Patkor Kastima. The following table compares the conditions before (2021-2023, when cooperation was still limited to the initial MoU) and after (2024-2025, following intensive annual operations) cooperation, based on data on illegal cigarette seizures.

Table 3. Data on the Number of Illegal Cigarette Seizures Before and After the Cooperation between Batam Customs and RMCD

Year	Number of SBP (Enforcement Cases)	Illegal Cigarettes Seized (Millions of Sticks)	Prevented State Losses (Rp Billion)
Before Cooperation (2021-2023)	565 cases/year	10,000,000-15,000,000 sticks	Rp5,000,000,000-Rp10,000,000,000
After Cooperation (2024-2025)	2,261 cases	29,610,000 units	Rp61,910,000,000

Source: Secondary Data Processed by Author

Before intensive cooperation, enforcement was low due to a lack of joint intelligence and cross-border patrols, allowing illegal cigarettes to pass freely through the Malacca Strait to Batam, with only around 565 cases per year and minimal seizures. Afterwards, the number of SBP seized

surged by 300% in 2025 thanks to the JTFN, which secured millions of cigarettes and narcotics, demonstrating the effectiveness of the RMCD-DJBC synergy in disrupting the supply chain. Seizures rose from 10-15 million to 29.61 million cigarettes in 2025, with a value of Rp243 billion and preventing losses of Rp61.91 billion, meaning that each case was larger in scale and value thanks to real-time information from Malaysia. This protected national excise revenue while reducing illegal circulation by 37% nationally. Joint patrols and hotlines have accelerated responses, transforming Batam from a high-risk zone into a surveillance stronghold. This trend will continue if the MoU is expanded. Bilateral collaboration with Malaysian authorities via the Melaka Strait Joint Task Force has contributed to a 65% increase in pre-border interceptions. Overall, this initiative has transformed Batam Customs from a reactive to a proactive approach, with the World Customs Organization (WCO) noting a 15-20% increase in Indonesia's national customs revenue due to more coordinated cross-border enforcement.

The implementation of this cooperation has had implications for a number of measurable operational indicators, including an increase in the number of enforcement actions reported by Batam Customs, an increase in the number of illegal cigarettes seized, and a reduction in major smuggling incidents that escaped surveillance before intensive cooperation was carried out. For example, Batam Customs' internal data recorded hundreds of significant enforcement actions during several periods of integrated surveillance, including the seizure of millions of illegal cigarettes with high economic value with the permission of customs officials, reflecting improved detection and faster response to cross-border smuggling methods.

A more in-depth analysis shows that this increase in effectiveness is not merely a matter of increased enforcement, but also indicates a change in the structure of smuggling operations, which were previously carried out individually but are now increasingly being thwarted through the exchange of intelligence data and joint patrol coordination with the Singaporean and Malaysian authorities, indicating that illegal trade networks are beginning to find it difficult to exploit gaps in surveillance. This approach is in line with global recommendations that multilateral and bilateral cooperation in law enforcement, information exchange, and joint operations produce more effective results in disrupting illegal cigarette supply chains and reducing their negative impact on state revenues and public health. Thus, these findings support the argument that international cooperation has a positive and significant impact on curbing illegal cigarette smuggling in Batam, not only in quantitative terms (number of cases successfully thwarted) but also in qualitative terms (efficiency of officials, speed of detection, and cross-border law enforcement coordination). This reflects the importance of a collaborative approach in the context of monitoring the trade of excisable goods in complex and dynamic border areas.

International Cooperation in the Perspective of Cross-Border Governance

The implementation of international cooperation in the supervision of cigarettes as Excise Goods (BKC) in the city of Batam is a concrete manifestation of the theory of *cross-border governance*, in which countries no longer work unilaterally but build cross-border coordination mechanisms to address issues that transcend national jurisdictions. The problem of illegal cigarette trade in Batam, which involves cross-border flows with neighboring countries such as Singapore and Malaysia, is part of a broader phenomenon of *illicit trade* involving the production, movement, and sale of illegal goods that distort markets, undermine public trust, and reduce state tax revenues. According to the Organisation for Economic Co-operation and Development (OECD), *illicit trade* is a global governance challenge that requires strong multi-country collaboration to strengthen enforcement and ensure the integrity of international trade (Sadoff, 2017; Arnone & Borlini, 2010).

From a cross-border governance perspective, Indonesia-Singapore and Indonesia-Malaysia international cooperation in monitoring excisable goods trade in Batam reflects an integrated cross-border governance approach, involving intelligence sharing, coordinated patrols, and real-time communication to combat the smuggling of illegal cigarettes and other

excisable goods in strategic border areas such as the Singapore Strait and the Malacca Strait. Cooperation with Singapore through the DJBC and the Singapore Police Coast Guard (SPCG) emphasizes rendezvous at sea and maritime patrols to curb transnational organized crimes (TOC), including simulation operations and improved communication access, which facilitates the prevention of smuggling in the waters of Batam-Singapore. Meanwhile, cooperation with Malaysia via the Royal Malaysian Customs Department (RMCD) focuses on Joint Task Force on Narcotics (JTFN) operations, Patkor Kastima, and annual joint patrols, which have successfully secured narcotics and millions of illegal cigarettes at the border, strengthening cross-border surveillance through bilateral meetings and hotlines. Overall, these two schemes enhance the effectiveness of surveillance in Batam as a free trade zone by reducing regulatory gaps, protecting state excise revenue, and supporting integrated border management through sustained bilateral synergy.

The cooperation analyzed in this study is also in line with the international principles of *the Protocol to Eliminate Illicit Trade in Tobacco Products*, an instrument developed under the WHO Framework Convention on Tobacco Control (FCTC) to combat the illegal cigarette trade through information exchange, mutual legal assistance, and cross-border enforcement coordination. This protocol explicitly places international cooperation as a core element in tracking, detecting, and combating the illegal trade in cigarettes, which cannot be addressed by unilateral actions by individual countries.

From a *fiscal security* perspective, illegal cigarette trade has serious implications for state revenue. Illegal cigarettes often escape the excise system, directly reducing fiscal revenue that is important for the state (Nurzeha, 2024). Health economics and tax policy studies also show that increasing excise rates without strengthening enforcement can actually encourage the expansion of the black market if not accompanied by strong international coordination to close cross-border loopholes in cigarette distribution. These findings are consistent with the view that fiscal security is not only a domestic issue, but also requires cross-border cooperation to address illegal trade mechanisms that undermine national fiscal objectives.

Thus, empirical data from BKC surveillance in Batam reinforces the theoretical argument that international cooperation is not only desirable but necessary in tackling cross-border *illicit cigarette trade*. The ineffectiveness of a single authority in closing cross-border loopholes underscores the important role of international regimes and global legal instruments such as the WHO FCTC Protocol in establishing effective and consistent norms and actions among countries. This is also in line with previous studies that found that strengthening bilateral cooperation enhances the capacity for joint surveillance of complex and interconnected illegal trade networks at the global level.

Furthermore, these findings enrich the literature on *illicit trade* by showing that increased international coordination can accelerate detection and enforcement processes that were previously hampered by jurisdictional fragmentation. *Illicit cigarette trade* is not only a domestic economic issue, but also part of transnational criminal networks that exploit institutional loopholes and regulatory differences between countries. The findings from Batam show that when international cooperation is effective, it reduces the success of illegal networks in penetrating state controls, while strengthening the position of the state in maintaining fiscal security (Pratama et al., 2024; Nasution et al., 2025). Theoretically, this confirms that fiscal security, which is usually understood as the state's capacity to maximize tax and excise revenue, must be seen as part of economic *securitization* involving international coordination to close opportunities for illegal trade that erode the revenue base.

This research also contributes to previous studies by expanding the understanding that it is not merely increased enforcement that is important, but rather changes in the patterns of governance of *illicit trade* that emerge from the structure of cooperation itself. Many studies emphasize internal strategies such as technological improvements or patrols (e.g., market

operations or the use of advanced technology in container scanning) as the key to effectiveness; however, empirical data in Batam shows that strengthening cooperation with other countries' authorities provides *added value* in the form of *accelerated cross-border responses*, so that the surveillance approach is not only reactive but also *strategically preventive*. This means that this study not only adds to the empirical evidence but also positions international cooperation as a key theoretical mechanism in bridging the relationship between national fiscal authorities and the global agenda to combat the illegal cigarette trade.

CONCLUSION

This study shows that international cooperation is a crucial instrument in improving the effectiveness of cigarette trade supervision as Excise Goods (BKC) in the city of Batam. As a Free Trade Zone (FTZ) directly bordering Singapore and Malaysia, Batam faces major challenges in the form of illegal cigarette smuggling triggered by price disparities, high market demand, and the exploitation of fiscal loopholes. The implementation of strategic cooperation, such as the MoU between Batam Customs and *the Singapore Police Coast Guard* (SPCG) and the Patkor Kastima operation with Malaysia, has had a positive impact through *real-time* intelligence exchange, joint maritime patrols, and capacity building. Theoretically, this research expands the study of International Relations by presenting a non-traditional security perspective that places trade surveillance and protection of state revenue as part of the national interest. These findings support the theory of *cross-border governance*, which explains that countries do not only act unilaterally but must also build cross-border collaboration mechanisms to combat organized transnational crime, such as the smuggling of dutiable goods in special areas such as FTZs. The policy implication is the need for more proactive and integrated regulatory improvements, as well as periodic updates to excise tariffs to keep pace with industry dynamics and international trade.

SUGGESTION

This study has limitations because it focuses more on inter-agency coordination and repressive enforcement, but still lacks analysis of the impact of individual involvement and the effectiveness of real-time tracking technology after the removal of certain facilities in FTZs. Future research is recommended to use the latest panel data-based evaluation model to measure the effectiveness of *track-and-trace* technology integration in the BKC supply chain and evaluate the impact of cross-agency coordination (such as BP Batam and the Ombudsman) in preventing leakage in large water areas.

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