American Journal of Open Research
Vol 5 (No 9), September, 2026
E-ISSN: 2834-7668

From Wehrkreise to Strategic Resilience: The Operational Architecture of Civil–Military Guerrilla Defence in Indonesia, 1948–1949

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Keywords:
Wehrkreise; Strategic Resilience; Guerrilla Warfare; Civil–Military Integration; Asymmetric Warfare.

Abstract

The Second Dutch Military Aggression of 1948 posed a severe test of whether the Republic of Indonesia could remain politically and militarily functional after the occupation of its principal urban centers. This article explains this survival through the concept of an operational architecture of strategic resilience. Rather than treating guerrilla warfare as a series of isolated tactical actions, the study examined how the Wehrkreise territorial command system, civil–military integration, geography, and decentralized sustainment interacted as a unified resistance system. The study employed a qualitative historical-analytical design based on document analysis, historical source criticism, and process tracing. Its core empirical corpus consisted of five studies examining General Soedirman's guerrilla strategy, the Wehrkreise system, geographic adaptation, local civil–military cooperation in Bantul, and the sociocultural foundations of guerrilla endurance. The findings showed that resilience emerged through four mutually reinforcing mechanisms: distributed command reduced dependence on central headquarters; territorial embedding transformed local geography into operational depth; civilian networks provided shelter, logistics, legitimacy, and local knowledge; and adaptive cultural practices strengthened endurance under conditions of material scarcity. Their interaction preserved operational continuity and prevented the Dutch occupation of cities from becoming uncontested political control. The article's novelty lay in identifying the meso-level organizational mechanism that connected total defense doctrine with local guerrilla execution. The Indonesian case therefore contributed to asymmetric warfare studies by demonstrating that organizational design could reduce the strategic decisiveness of material superiority.

INTRODUCTION

Why materially weaker actors sometimes survive or defeat conventionally superior opponents remains a central question in strategic studies. Material resources matter, but they do not determine outcomes independently of political objectives, strategic interaction, force employment, and organizational structures. Mack (1975) demonstrated that stronger actors can fail when weaker actors possess greater political commitment and the ability to impose prolonged costs, while Arreguín-Toft (2001) showed that the interaction between opposing strategies can offset conventional asymmetry. Biddle (2004) similarly emphasized that the organization and employment of forces can be as important as the quantity of resources available. These arguments raise a question that is particularly relevant to the Indonesian

National Revolution: how could a vulnerable state remain strategically functional after its conventional center of power had been disrupted?

The Second Dutch Military Aggression, which began on 19 December 1948, created precisely such a crisis (Aziz et al., 2026; Bennett & Romijn, 2022; Rech, 2025). Dutch forces captured major urban centers, including Yogyakarta, and possessed clear advantages in weaponry, mobility, and organized logistics. However, the occupation of cities did not automatically translate into comprehensive control over rural and remote areas. Tari (2023) demonstrated that Java's diverse geography created opportunities for General Soedirman's forces to utilize difficult terrain, villages, mountains, rivers, and dispersed routes to avoid decisive confrontations. Rizal (2021) likewise emphasized that Soedirman's guerrilla strategy relied on abandoning linear defenses of major cities and road networks, establishing guerrilla enclaves, conducting dispersed attacks, and returning units to their areas of origin. The strategic effect was not merely battlefield survival; continued guerrilla activity demonstrated internationally that the Republic and its armed resistance had not been eliminated (Rizal, 2021).

The territorial structure that enabled this resistance was the Wehrkreise system. In Indonesian military usage, Wehrkreise referred to territorially organized defense circles in which resistance could continue through locally anchored commands. Nugraha, Sulistyadi, and Suseto (2024) traced the establishment of Wehrkreise to Emergency Order Number One in 1948 and identified the integration of military operations with regionally based popular resistance as one of the principal factors contributing to its effectiveness. This was significant because a dispersed territorial system reduced dependence on a single vulnerable headquarters and allowed local commanders to respond to conditions within their respective operational environments.

Microhistorical evidence from Bantul illustrated this territorial logic. Pangestu, Saefudin, and Windarti (2025) documented Segoroyoso as a Wehrkreise III command headquarters selected because of its geographic characteristics and established local fighter base. They also showed that the headquarters was later relocated to Bibis to improve coordination for the 1 March 1949 General Offensive; local residents welcomed the troops, the hamlet head's house became the command post, and residents voluntarily provided accommodation for fighters. At another guerrilla base, local support facilities included a public kitchen, armory, and emergency hospital. These details indicate that territorial command was not merely a military arrangement. It was embedded within villages, households, local administrative structures, and community infrastructure (Cahyadini et al., 2024; Dakyaga et al., 2023; Emerllahu & Bogataj, 2024; Liu et al., 2022).

A further dimension involved cultural and behavioral endurance. Aziz et al. (2026) argued that the pesantren ethos associated with parts of Soedirman's guerrilla environment was operationally recontextualized: ascetic discipline supported extreme logistical resilience, while spiritual vigilance was translated into tactical concealment and ambush discipline. This interpretation should not be generalized to every guerrilla formation; however, it demonstrates an important point for strategic analysis: the resources sustaining resistance were not solely physical. Social norms, religious networks, trust, and disciplined practices could also be transformed into operational capacity under conditions of material scarcity.

Existing scholarship has therefore illuminated several important dimensions, but mostly in separate forms. Rizal (2021) focused on Soedirman's leadership and guerrilla strategy; Tari

(2023) explained the role of geography; Nugraha et al. (2024) examined the determinant factors of Wehrkreise and its relevance to total defense; Pangestu et al. (2025) provided place-based evidence of Wehrkreise III and local community support; and Aziz et al. (2026) identified a sociocultural mechanism of endurance. These studies are complementary, yet the literature remains divided between macro-level discussions of total defense and micro-level analyses of commanders, routes, localities, or cultural practices. Less developed is the meso-level mechanism through which these components interacted as an integrated operational system.

This article addressed that gap by conceptualizing the Indonesian resistance of 1948–1949 as an operational architecture of strategic resilience. Strategic resilience was used as an analytical, rather than historical, term to describe the capacity of a political-military system to preserve essential functions, absorb severe disruption, adapt organizational arrangements, and continue imposing costs despite the loss or degradation of central infrastructure. The scientific novelty lay in identifying the organizational layer between doctrine and tactics and demonstrating how four properties—distributed command, territorial embedding, social embeddedness, and functional redundancy—worked together to preserve operational continuity.

Accordingly, the research question was: how did the interaction among the Wehrkreise territorial command system, local geography, civil–military networks, and decentralized sustainment generate strategic resilience during the Indonesian guerrilla resistance of 1948–1949? The study aimed to reconstruct these interactions, identify their causal mechanisms, and clarify their implications for the study of asymmetric warfare and Indonesia's historical total defense tradition.

METHOD

This study employed a qualitative historical-analytical design. It did not aim to estimate statistical relationships or claim new archival discoveries. Instead, it reconstructed and explained the interaction of organizational mechanisms within a defined body of historical scholarship. Historical inquiry was appropriate because the central task was to interpret sequences, institutions, decisions, and local practices within their 1948–1949 context rather than separate them from the conditions in which they occurred (Rizal, 2021; Pangestu et al., 2025).

The empirical core consisted of five scholarly studies selected purposively because each contributed evidence to different components of the proposed architecture. Rizal (2021) provided evidence on Soedirman's guerrilla strategy and Perintah Siasat No. 1/48; Tari (2023) examined geographic conditions, Soedirman's routes, and strategic choices; Nugraha et al. (2024) analyzed Wehrkreise and its relationship to regionally based popular resistance; Pangestu et al. (2025) provided local historical evidence on Wehrkreise III, Segoroyoso, Bibis, civilian accommodation, and support facilities in Bantul; and Aziz et al. (2026) analyzed sociocultural mechanisms of endurance and tactical discipline. Foundational works on asymmetric conflict and irregular warfare were used as analytical references rather than empirical sources (Mack, 1975; Arreguín-Toft, 2001; Biddle, 2004; Kalyvas, 2006).

The research followed four conventional stages of historical analysis: heuristics, source criticism, interpretation, and historiography. The heuristic stage identified sources relevant to command decentralization, guerrilla strategy, terrain, local participation, sustainment, and

political continuity. Source criticism then evaluated each source's authorship, purpose, empirical foundation, temporal distance from the events, and potential disciplinary or institutional biases. This step was important because military history, local historical studies, defense-policy research, and sociocultural interpretations illuminate different dimensions and should not be treated as interchangeable forms of evidence. Similar historical procedures were applied in the reviewed studies (Rizal, 2021; Pangestu et al., 2025).

Document analysis was combined with process tracing. Document analysis treated written sources as contextual evidence rather than neutral repositories of facts (Bowen, 2009). Process tracing was used to connect structural disruption with organizational adaptation by identifying plausible sequences of mechanisms (Bennett & Checkel, 2015; Mahoney, 2015). The evidence was coded into six analytical categories: (1) command decentralization; (2) territorial and geographic adaptation; (3) civil–military embeddedness; (4) distributed logistics and support; (5) local information and tactical awareness; and (6) political continuity. The analytical sequence examined was conventional disruption → territorial decentralization → local embedding → distributed sustainment and information → operational continuity → strategic resilience.

Triangulation was conducted across the five core studies. A mechanism was considered more strongly supported when similar functional relationships appeared across sources with different analytical purposes. For example, the role of local society was identified through Nugraha et al.'s (2024) defense-system analysis, Pangestu et al.'s (2025) local historical reconstruction, and Aziz et al.'s (2026) sociocultural interpretation. Where the evidence supported only a plausible interpretation rather than direct observation, particularly regarding decentralized intelligence, the article presented the conclusion as an inference rather than as an established fact.

The study had a bounded scope. It focused on the operational architecture of resistance during 1948–1949 and did not attempt to provide a comprehensive history of Dutch military decision-making, diplomacy, internal Republican politics, or regional variations across the Indonesian archipelago. The concept of strategic resilience was applied retrospectively as an analytical framework and was not presented as a term used by historical actors themselves. These limitations were maintained to avoid transforming a historical analytical framework into an ahistorical prescription.

RESULTS AND DISCUSSION

Strategic Dislocation and the Problem of Control

The Dutch offensive created a classic command-and-control shock. The occupation of Yogyakarta and other major centres disrupted visible state institutions and threatened the assumption that control of the political centre would produce the collapse of organised resistance. Yet Tari (2023) notes a crucial asymmetry: Dutch forces could capture cities but could not exercise equivalent control over rural and remote terrain. This spatial gap provided room for a different form of military organisation.

Rizal (2021) shows that the Indonesian response deliberately avoided the stronger side's preferred mode of warfare. Perintah Siasat No. 1/48 called for the abandonment of linear defence in major cities and road networks, the formation of guerrilla pockets, continued guerrilla operations, and the return of displaced units to their areas of origin. The strategic logic

was therefore indirect. Rather than attempting to restore conventional parity immediately, the resistance sought to deny the occupier the political meaning of military occupation.

This distinction between territorial seizure and political control is essential. Clausewitz (1984) reminds us that military action is subordinate to political purpose. If Dutch strategy required the restoration of effective colonial authority, then persistent organised resistance constituted a strategic failure condition even when the Republic could not win a conventional battle. Rizal's (2021) conclusion that guerrilla resistance demonstrated the continuing existence of the Indonesian government captures this political function. In Mack's (1975) terms, superior capability did not guarantee achievement of the stronger actor's political objective.

Wehrkreise as a Distributed Command Architecture

The first mechanism of resilience was command decentralisation. Nugraha et al. (2024) identify the establishment of Wehrkreise through Emergency Order Number One in 1948 as a central feature of the Indonesian defence response. The system organised resistance territorially and linked military operations with regionally based people's resistance. Its significance was organisational: command functions were distributed across multiple local nodes rather than concentrated exclusively in a single headquarters.

Rizal's (2021) account of guerrilla pockets complements this interpretation. A territorial pocket was not merely a place to hide forces; it created a locally anchored command space from which military activity could be regenerated after disruption. This changed the occupier's problem. A centralised organisation can be paralysed by destroying its headquarters, but a distributed structure requires the adversary to locate, isolate, and suppress multiple nodes that may continue to operate with varying degrees of autonomy.

The local history of Wehrkreise III illustrates that decentralisation was dynamic rather than static. Pangestu et al. (2025) show that Segoroyoso served as a command headquarters because of its geography and established local fighter base, but that the headquarters was later moved to Bibis to improve coordination with the western operational area in preparation for the General Offensive. The movement of the command post indicates adaptive relocation: the territorial system combined local rootedness with the capacity to shift nodes when operational requirements changed.

Four resilience effects followed. First, dispersion reduced vulnerability to command decapitation. Second, local authority preserved decision-making when communication with higher headquarters was uncertain. Third, relocation enabled reconstitution after pressure. Fourth, a common political purpose allowed decentralisation without complete fragmentation. This finding extends Arreguín-Toft's (2001) emphasis on strategic interaction by showing that indirect strategy depends not only on tactical choice but also on an organisational form able to survive repeated shocks.

Geography as Operational Depth

The second mechanism was territorial embedding. Tari (2023) demonstrates that General Soedirman's guerrilla movement exploited the diverse geography of Java, including villages, karst areas, hills, mountains, rivers, and routes that were difficult for larger Dutch formations to dominate. The route was selected not simply for movement but for protection, concealment, temporary headquarters, communication, and the ability to conduct sudden attacks. Geography therefore functioned as operational depth.

This does not mean that terrain acted independently of organisation. Difficult terrain benefits a weaker force only when that force possesses the local knowledge, mobility, and support required to use it. Pangestu et al. (2025) provide a micro-level example in Bibis, where hills made it easier to monitor enemy movements and local residents supported fighters with accommodation. Physical terrain and social terrain reinforced each other: hills increased concealment and observation, while community support made the area usable as a sustained operational node.

The implication is analytically important. In irregular warfare, territory is not merely a surface across which forces manoeuvre; it can be converted into a distributed infrastructure. Fearon and Laitin (2003) and Kalyvas (2006) similarly emphasise the importance of local conditions, control, and collaboration in sustaining irregular actors. The Indonesian case shows how a territorial command system institutionalised these advantages by tying units to specific social and geographic environments.

Civil–Military Integration as Social Infrastructure

The third mechanism was civil–military embeddedness. Nugraha et al. (2024) identify the integration of military operations with regionally based people's resistance as a determinant of Wehrkreise effectiveness. Pangestu et al. (2025) show what that integration looked like at village level. In Bibis, the house of the hamlet head became the command headquarters and residents voluntarily housed troops; in Segoroyoso, a local fighter base pre-dated or accompanied the military command structure. Their evidence indicates a relationship in which local authority, residents, and military units shared space and functions.

This social embedding created several operational benefits. It expanded access to shelter and transport, reduced the visibility of military presence, and linked commanders to local knowledge and legitimacy. It also made the resistance more difficult to isolate from the population among which it operated. Kalyvas (2006) demonstrates more generally that irregular conflict is shaped by local collaboration and control; the Indonesian evidence suggests that collaboration could become a form of infrastructure in its own right.

Civilian participation should, however, be interpreted carefully. The available studies document strong examples of solidarity and cooperation, but they do not establish that such relations were uniform in every region or entirely voluntary in all cases. A publication-oriented account can easily romanticise national unity. The more defensible conclusion is functional: where durable civil–military cooperation existed, it expanded the resistance's capacity to survive and operate beyond the reach of conventional military infrastructure.

Distributed Sustainment, Information, and Cultural Endurance

The fourth mechanism concerned sustainment. Guerrilla forces could not remain dispersed without food, shelter, medicine, repair, ammunition, and information. Pangestu et al. (2025) document a guerrilla base equipped with a public kitchen, armoury, and emergency hospital. These facilities are significant because they show that support functions were reproduced locally rather than being supplied exclusively through a central logistical system. Such distribution reduced the strategic consequences of losing depots, roads, or major administrative centres.

Aziz et al. (2026) add a different but complementary dimension. Their socio-historical analysis argues that ascetic discipline associated with pesantren culture was converted into extreme logistical resilience, while spiritual vigilance was translated into tactical stealth and

ambush discipline. This evidence should be bounded to the social milieu they study, but it shows how human practices could compensate partly for material scarcity. Resilience was therefore not a purely technical property of supply chains; it also depended on the capacity of people to tolerate hardship, preserve discipline, and adapt routines to the operational environment.

Local information networks are less directly measured in the supplied studies, so the intelligence mechanism must be stated cautiously. Tari (2023) shows that Soedirman's forces repeatedly selected routes, villages, and terrain based on local geographic advantages, while Pangestu et al. (2025) describe communities embedded around command posts and operational locations. Taken together, these findings support an inference that territorial units benefited from local observation and knowledge that were difficult for an external occupying force to reproduce at the same density. Such information need not resemble a formal intelligence service; it can emerge from residents, local officials, guides, and interpersonal communication.

The key organisational property was redundancy. A system based on many small local support relationships could regenerate functions after individual nodes were disrupted. This is the central difference between scarcity and collapse. Indonesia remained materially weak, but its support system was organised in ways that reduced the probability that one local failure would become system-wide failure.

Interaction among the Components: An Operational Architecture of Strategic Resilience

The central finding of this study is that Wehrkreise, geography, civilian participation, and local sustainment should not be treated as separate explanatory variables. Their strategic value emerged from interaction. Territorial command created distributed nodes; geography gave those nodes concealment, movement options, and depth; civil–military relations embedded them in society; local logistics and behavioural endurance kept them functioning; and continued activity preserved the political claim that occupation had not extinguished the Republic.

Table 1 synthesises the cross-source evidence and clarifies the mechanism connecting local practices to strategic effects.

Table 1. Triangulated Evidence for the Operational Architecture of Strategic Resilience

Component	Empirical evidence in core sources	Operational mechanism	Resilience effect
Distributed command	Perintah Siasat No. 1/48, guerrilla pockets, Emergency Order No. 1, Wehrkreise territorial organisation (Rizal, 2021; Nugraha et al., 2024)	Authority and resistance functions spread across territorial nodes	Reduced dependence on a single headquarters; continuity after disruption
Territorial embedding	Use of rural/remote terrain and adaptive routes; strategic siting and relocation of Wehrkreise III posts (Tari, 2023; Pangestu et al., 2025)	Local terrain converted into concealment, mobility, observation, and operational depth	Greater survivability and capacity to regenerate operations
Civil–military	Residents housed fighters; local leaders provided command space; military	Military nodes embedded in village	Access, legitimacy, shelter, and lower

embeddedness	operations integrated with regionally based people's resistance (Pangestu et al., 2025; Nugraha et al., 2024)	authority and social networks	organisational visibility
Distributed sustainment	Public kitchen, armoury, emergency hospital; cultural practices supporting logistical endurance (Pangestu et al., 2025; Aziz et al., 2026)	Support functions reproduced locally under scarcity	Redundancy and reduced vulnerability of supply
Local knowledge and discipline	Terrain-based route choice; tactical stealth and disciplined endurance (Tari, 2023; Aziz et al., 2026)	Human and social knowledge complement limited technical capacity	Improved adaptation, concealment, and tactical awareness
Political continuity	Guerrilla resistance demonstrated that the Republic remained in existence despite occupation (Rizal, 2021)	Repeated military activity denied equation of city occupation with political pacification	Preservation of sovereignty claim and strategic viability

The sequence implied by the evidence is not linear in a mechanical sense, but it is causally coherent. Dutch conventional pressure disrupted central functions. Decentralisation prevented that disruption from becoming organisational paralysis. Territorial and social embedding then gave dispersed nodes access to local resources and knowledge. Distributed sustainment allowed those nodes to continue operating, while continued operations produced both military friction and political signalling. Strategic resilience was therefore an emergent property of the system rather than the result of any single tactic.

This interpretation helps explain why individual guerrilla actions should be distinguished from the architecture that made repeated action possible. An ambush, movement, or command relocation is an event; resilience is the capacity of the system to continue generating such events after disruption. The meso-level architecture thus connects the macro-level principle of people's defence with the micro-level execution of guerrilla operations.

Theoretical Contribution and Bounded Strategic Relevance

The first theoretical contribution concerns asymmetric warfare. Much of the classic literature asks why weak actors can overcome material inferiority (Mack, 1975; Arreguín-Toft, 2001). The Indonesian case suggests that organisational architecture should be treated as an intervening mechanism. A weak actor may not need to match the stronger side's material capacity if it can reorganise itself so that the opponent's advantages cannot be converted into decisive system-wide effects.

The second contribution concerns the meaning of infrastructure. Conventional analysis often privileges physical infrastructure such as roads, depots, communications, and headquarters. The evidence from Bantul and the broader Wehrkreise system indicates that social infrastructure can perform comparable enabling functions. Homes can provide concealment, village leaders can facilitate coordination, public kitchens can sustain forces, and cultural discipline can extend endurance. This does not eliminate the importance of material resources; it shows that human relationships can redistribute and protect essential functions when formal infrastructure is vulnerable.

The third contribution is to the study of total defence. Nugraha et al. (2024) connect Wehrkreise to Indonesia's later Total People's Defence tradition. The present analysis refines that connection by identifying a meso-level mechanism: total defence becomes operational when national political purpose is translated into territorial commands that are socially embedded and able to reproduce essential functions locally. The historical lesson is therefore organisational rather than literal. Contemporary defence planning should not reproduce 1949 guerrilla practice as a template, but the underlying principles of distribution, redundancy, local initiative, and integration of military and non-military capacity remain analytically relevant to resilience under disruption.

At the same time, historical analogy requires restraint. The political, technological, legal, and social environment of 1948–1949 differs radically from contemporary security competition. Modern surveillance, precision strike, cyber systems, urbanisation, and legal norms alter the costs and possibilities of dispersion. The contribution of the historical case is therefore explanatory: it shows how a vulnerable state once preserved organised resistance through a distributed civil–military architecture. Whether and how those principles transfer to current policy requires separate empirical testing.

CONCLUSION

The Indonesian guerrilla resistance of 1948–1949 was more than a collection of tactical maneuvers conducted by a materially weaker force. The evidence examined in this study demonstrated an organizational transformation in which the Wehrkreise territorial system dispersed command, diverse geography provided operational depth, civilian communities embedded military activities within local society, and decentralized support functions sustained resistance under conditions of severe scarcity. The interaction of these elements generated strategic resilience. Distributed command reduced vulnerability to the loss of central headquarters; territorial embedding enhanced mobility and survivability; civil–military cooperation provided shelter, legitimacy, and access to resources; local sustainment created redundancy; and behavioral discipline extended endurance. Together, these mechanisms prevented the Dutch occupation of major cities from becoming equivalent to uncontested political control.

The article's principal contribution was the identification of a meso-level operational architecture connecting the macro-level concept of total defense with the micro-level execution of guerrilla warfare. Within this framework, the decisive question was not only why a weaker actor adopted an indirect strategy, but also how its organizational structure remained functional after severe disruption. Indonesia's 1948–1949 experience suggested that strategic resilience could emerge when military command, territory, social networks, and support functions were distributed while remaining politically integrated.

This conclusion should not be interpreted as a claim that the historical system was uniform or universally consensual, nor as a prescription for contemporary warfare. Rather, it represented an analytical reconstruction based on the available literature. Future research should examine the framework through deeper archival comparisons across Wehrkreise regions, Dutch operational records, and local civilian sources to determine where the

architecture was most effective, where it encountered limitations, and how much variation existed across the Republic.

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