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## **Procurement Ecology: Living Systems Theory Applied To Public Purchasing**

**Dr. Solomon Kyalo Mutangili**

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# Procurement Ecology: Living Systems Theory Applied To Public Purchasing

**Book Review by**  
**Solomon Kyalo Mutangili**

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## Abstract

This review analyzes Procurement Ecology: Living Systems Theory Applied to Public Purchasing, a groundbreaking work that reconceptualizes public procurement as a living, adaptive system rather than a rigid bureaucratic function. Drawing on living systems theory, the book frames procurement as an ecosystem shaped by dynamic interactions among policies, stakeholders, and market forces, advocating for resilience, flexibility, and feedback-informed governance. It critiques traditional compliance-driven models for their inability to cope with regulatory volatility, technological disruption, and sustainability imperatives. Instead, the book proposes an ecological approach where procurement policies evolve alongside shifting political, economic, and environmental contexts. Key themes include the need for diversity in supplier ecosystems, the integration of sustainability and circular economy principles, and the embedding of adaptive legal and institutional mechanisms. The work highlights procurement's role as a driver of sustainable development, emphasizing that purchasing decisions have far-reaching social and ecological implications. It also underscores the value of feedback loops, data analytics, and continuous learning in fostering responsive procurement systems. Through vivid metaphors and real-world case studies, the book offers a visionary model for aligning public procurement with long-term societal goals, serving as both a critique of existing paradigms and a roadmap for more ethical, transparent, and sustainable public purchasing frameworks.

## Introduction

The conceptualization of procurement as a living system rather than a static bureaucratic function represents a fundamental rethinking of how public purchasing operates within broader governmental and economic frameworks. By applying living systems theory to procurement, the book presents a paradigm shift that frames public purchasing not merely as a process of acquiring goods and services but as an evolving ecosystem shaped by interdependent relationships, adaptive behaviors, and systemic feedback loops. The analogy to biological ecosystems allows for a deeper exploration of how procurement structures interact with their environments, responding to regulatory changes, market dynamics, technological advancements, and socio-political pressures. Rather than viewing procurement as a linear and mechanistic function, the book argues for a dynamic perspective in which procurement systems function like living organisms, continuously adjusting to external and internal stimuli. This perspective challenges traditional procurement models that emphasize rigid compliance and fixed procedures, instead advocating for an approach that embraces complexity, resilience, and adaptability. By mapping procurement processes onto ecological principles such as adaptation, symbiosis, and evolutionary selection, the book highlights how procurement systems must evolve in response to shifting demands, supplier landscapes, and governance structures. The discussion extends to the role of procurement policies as regulatory ecosystems that both influence and are influenced by market behavior, demonstrating how purchasing decisions are not isolated transactions but rather integral components of an interconnected policy and economic web.

## Review

The application of living systems theory to procurement governance raises critical questions about the balance between stability and flexibility in public purchasing frameworks. While compliance-driven procurement models emphasize consistency, predictability, and rule enforcement, the book argues that such an approach often fails to account for the organic and unpredictable nature of supply chains, market fluctuations, and shifting public priorities. The discussion explores how procurement ecosystems are shaped by evolutionary forces, wherein policies and practices that fail to adapt become obsolete, while those that embrace change enhance the overall efficiency and sustainability of public purchasing. The book presents procurement regulations as evolving organisms rather than static legal codes, emphasizing that procurement policies should be designed with built-in adaptability to accommodate emerging technologies, sustainability initiatives, and geopolitical disruptions. The analysis also delves into the interactions between procurement actors—government agencies, suppliers, oversight bodies, and civil society—showing how these stakeholders form an intricate web of dependencies and negotiations. Just as ecosystems thrive on biodiversity, procurement ecosystems benefit from diverse supplier bases, competitive marketplaces, and innovation-driven procurement strategies. However, the book also warns that procurement ecosystems, like biological ones, are vulnerable to imbalances and systemic failures

when certain actors dominate at the expense of competition and resilience. The exploration of monopolistic procurement environments, supply chain dependencies, and regulatory bottlenecks serves as a cautionary examination of how procurement systems, if left unchecked, can become fragile rather than robust.

A particularly compelling aspect of the book is its discussion of sustainability in procurement, framed through the lens of ecological balance and resource stewardship. The text argues that procurement decisions should not be evaluated solely through the lens of cost-efficiency but rather through a broader perspective that incorporates long-term environmental, social, and economic impacts. The book draws parallels between ecological sustainability and procurement sustainability, emphasizing that just as ecosystems require careful resource management to prevent depletion and degradation, procurement ecosystems must be structured to ensure sustainable sourcing, ethical supply chains, and long-term value creation. The discussion highlights how procurement policies can function as instruments of environmental policy, influencing corporate behavior by incentivizing sustainable practices through purchasing decisions. The increasing role of green procurement, circular economy principles, and supplier sustainability audits is examined in detail, with case studies illustrating how governments have successfully integrated sustainability into their procurement ecosystems. The book acknowledges the challenges of balancing sustainability objectives with cost-effectiveness and regulatory compliance, but it ultimately argues that procurement policies must evolve to align with global sustainability goals rather than being constrained by short-term financial considerations. The ecological metaphor is particularly effective in this context, reinforcing the idea that procurement systems, like natural systems, must operate within the limits of available resources and prioritize long-term resilience over immediate gains.

The broader implications of procurement as a living system extend beyond individual purchasing decisions to the governance of public procurement as a whole. The book emphasizes that procurement ecosystems function as part of larger governance systems, with procurement decisions influencing and being influenced by political, economic, and institutional factors. By applying living systems theory, the discussion presents procurement not as a siloed administrative function but as a vital component of public administration that interacts with policy-making, economic development, and social welfare objectives. The analysis highlights how procurement reforms, when approached through an ecological lens, can lead to systemic improvements rather than isolated procedural changes. The book advocates for procurement policies that foster innovation, encourage supplier diversity, and promote transparency as mechanisms for strengthening procurement ecosystems. The emphasis on feedback loops—where procurement decisions generate data that inform future policies—aligns with modern trends in data-driven governance, suggesting that procurement systems should leverage technology and analytics to enhance adaptability and responsiveness. Ultimately, the book presents a transformative vision for public procurement, urging policymakers, procurement officials, and scholars to rethink procurement governance as an evolving and interdependent system rather than a rigid bureaucratic mechanism. By framing procurement as an ecological system, the book challenges conventional

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wisdom and offers a thought-provoking model for reimagining how public purchasing can become more resilient, efficient, and aligned with broader societal goals.

The book's exploration of procurement through the lens of living systems theory presents a nuanced and refreshing perspective that challenges the conventional understanding of public purchasing. By framing procurement as a dynamic and evolving process, it emphasizes the necessity for public procurement systems to be flexible and adaptable, rather than fixed and static. This shift in thinking has profound implications for procurement policy design, suggesting that traditional compliance-based approaches may no longer be sufficient in addressing the complexities of modern supply chains, global market fluctuations, and the need for sustainable practices. The discussion of how procurement policies should evolve with the changing socio-economic, environmental, and political contexts reinforces the idea that public purchasing cannot operate in a vacuum but must interact with the broader governance ecosystem. In this sense, the book advocates for a more holistic view of procurement, one that recognizes the interconnectedness of procurement practices with larger societal goals, including sustainability, economic resilience, and ethical governance.

The emphasis on sustainability within procurement, both from an environmental and social perspective, is one of the key contributions of the book. By applying ecological principles to procurement decision-making, it makes a compelling case for the integration of sustainability criteria in public purchasing. The concept of procurement as a resource steward—similar to how ecosystems manage resources—brings a new dimension to discussions on green procurement, circular economy principles, and ethical sourcing. The book advocates for a paradigm shift where procurement is not simply about cost minimization but about generating long-term value that benefits society, the environment, and the economy. This shift is particularly timely as global concerns over climate change, resource depletion, and social inequality grow more urgent. The examples and case studies provided throughout the book demonstrate how procurement can serve as a tool for advancing sustainable development goals, showing that responsible public purchasing can drive significant positive change in the marketplace.

Another critical takeaway from the book is the emphasis on the importance of feedback loops and continuous adaptation within procurement systems. In the same way that living ecosystems rely on the constant exchange of energy and information to thrive, procurement systems need to be responsive to the data and feedback they generate. This feedback-oriented approach encourages a cycle of improvement, where procurement decisions lead to measurable outcomes that can be analyzed and used to refine future policies and practices. The book discusses how public procurement officials can leverage data-driven decision-making, technology, and analytics to build systems that are not only more efficient but also more accountable and transparent. By embracing a feedback-driven approach, procurement systems can become more resilient to external shocks, such as economic crises, regulatory changes, or disruptions in supply chains. This dynamic approach fosters an environment where continuous learning and adaptation are key to the long-term success of procurement practices, rather than relying on rigid, one-size-fits-all solutions.



## Conclusion

Ultimately, the book makes a powerful case for rethinking public procurement in terms of its role within the broader governance and societal systems. By integrating living systems theory into the discourse on procurement, it offers a new way of conceptualizing how public purchasing should operate. Procurement is no longer viewed as a transactional, compliance-based activity but as a complex, evolving system that interacts with political, economic, and social factors. The book challenges public procurement professionals to adopt a more holistic and sustainable approach, considering not just immediate cost savings but the long-term societal impacts of their purchasing decisions. As governments worldwide face increasing pressures to align public spending with sustainability goals, ethical practices, and public accountability, this ecological perspective offers valuable insights into how procurement can evolve to meet these challenges. The book thus serves as both a critique of traditional procurement models and a blueprint for a more adaptive, responsive, and responsible future for public purchasing.