

Revista de Ciencias Médicas y de la Vida

Universidad Da Vinci de Guatemala Facultad de Ciencias Médicas y de la Vida





Volume 3 (1-3) || Year 2025 || e049

Original Article

Government Restructuring and Revitalization: A Strategic Roadmap to Modernize the State and Improve Population Health and Well-Being

Mario Ricardo Calderón Pinzón^{1*} https://orcid.org/0000-0002-7759-3647 RESUMEN

Grounded in the Social Determinants of Health." It presents the restructuring and revitalization of the State as a strategic public health intervention, vital for transforming institutions. **Objectives:** analyze structural causes and institutional barriers that limit sustainable health development, and propose a model that increases governmental efficiency, effectiveness, and equity. **Methods:** a qualitative design of conceptual analysis and synthesis was employed, with an inductive, deductive, historical, and ecological approach, to identify structural and systemic patterns of institutional weakness and, drawing on international benchmarks, build a contextualized operational framework for health and national governance. Results: to improve the health and wellbeing of the population, a Government Restructuring and Revitalization model is proposed to modernize administration through three interdependent strategic goals with a transformative vision, key objectives nine representing intermediate outcomes, and twenty-seven priority strategies constituting actionable interventions, organized in a 3x3x3 Matrix. The model articulates the modernization of government capacities, programmatic innovation, and the generation of national impact. It reframes governmental restructuring as a public health intervention to address social determinants that perpetuate exclusion, inefficiency, and inequity. Conclusions: This study establishes that governmental restructuring—understood as the redefinition structures, processes, and functions—and institutional revitalization-aimed at strengthening capacities, motivations, and performance—are indispensable conditions to overcome the status quo and achieve sustainable reforms that improve the health and well-being of the population.

Introduction: This article develops the second pillar of the tripartite strategy presented in "A Presidential Vision for Guatemala"

Keywords: Government Restructuring; Institutional Revitalization; State Modernization; Transformational Governance; Public Leadership; Results-Based Management; Government Efficiency; Public Sector Innovation; Health Reforms.

Open Access

Received: 30/06/2025 **Accepted:** 25/08/2025 **Published:** 31/08/2025

* mrcalderon@aol.com

¹Doctor en Medicina y Cirugía (USAC). Máster en Salud Pública en Gestión y Políticas de Salud (UCLA). Posdoctorado en Medicina Preventiva e Investigación Epidemiológica (USC). Especialista en Liderazgo con Enfoque Futurista (CSUN). Posdoctorado en Liderazgo Nacional en Salud Pública (UNC). Doctor Honoris Causa (RUJ). Servicios de Salud Mundial, S.A., Ciudad de Guatemala, Guatemala.



ABSTRACT

Introducción: este artículo desarrolla el segundo pilar de la estrategia tripartita descrita en la publicación "Una visión presidencial para Guatemala sustentada en los determinantes sociales de la salud". Plantea la reestructuración y revitalización del Estado como una intervención estratégica de salud pública, vital para transformar instituciones. Objetivos: analizar causas estructurales y barreras institucionales que limitan el desarrollo sostenible en salud, y proponer un modelo que incremente la eficiencia, efectividad y equidad gubernamental. **Métodos**: se empleó un diseño cualitativo de análisis y síntesis conceptual, con enfoque inductivo-deductivo e histórico-ecológico, para identificar patrones de debilidad institucional y, a partir de referentes internacionales, construir un modelo operativo contextualizado de gobernanza en salud y nacional. **Resultados**: Para mejorar la salud y el bienestar de la población, se propone un modelo de Reestructuración y Revitalización Gubernamental para modernizar la administración pública mediante tres metas estratégicas interdependientes con visión transformadora, nueve objetivos clave representando resultados intermedios y veintisiete estrategias prioritarias constituyendo acciones clave, organizadas en una Matriz 3x3x3. El modelo articula la modernización de las capacidades gubernamentales, la innovación programática y la generación de impacto nacional. Replantea la reestructuración gubernamental como una intervención de salud pública para enfrentar determinantes sociales que perpetúan exclusión, ineficiencia e inequidad. Conclusiones: Este estudio establece que la reestructuración gubernamental —entendida como la redefinición de estructuras, procesos y funciones—y la revitalización institucional —orientada a fortalecer capacidades, motivación y desempeño— constituyen condiciones indispensables para superar el statu quo y lograr reformas sostenibles que mejoren la salud y el bienestar de la población.

Palabras Clave: Reestructuración Gubernamental; Revitalización Institucional; Modernización del Estado; Gobernanza Transformacional; Liderazgo Público; Gestión por Resultados; Eficiencia Gubernamental; Innovación en el Sector Público; Reformas de Salud.

Restructuration et revitalisation gouvernementales : une feuille de route stratégique pour moderniser l'État et améliorer la santé et le bien-être de la population

RÉSUME

Introduction: Cet article développe le deuxième pilier de la stratégie tripartite décrite dans la publication « Une vision présidentielle pour le Guatemala fondée sur les déterminants sociaux de la santé ». Il propose la restructuration et la revitalisation de l'État comme une intervention stratégique en santé publique, essentielle pour transformer les institutions. Objectifs: Analyser les causes structurelles et les barrières institutionnelles qui limitent le développement durable en matière de santé, et proposer un modèle visant à accroître l'efficacité, l'efficience et l'équité gouvernementale. Méthodes: Une approche qualitative d'analyse et de synthèse conceptuelle a été utilisée, avec une perspective inductive-déductive et historico-écologique, afin d'identifier les schémas de faiblesse institutionnelle et, à partir de références internationales, construire un modèle opérationnel contextualisé de gouvernance en santé et au niveau national. Résultats: Pour améliorer la santé et le bien-être de la population, un modèle de Restructuration et de Revitalisation Gouvernementale est proposé afin de moderniser l'administration publique à travers trois objectifs stratégiques interdépendants à vision transformatrice, neuf objectifs clés représentant des résultats intermédiaires, et vingt-sept stratégies prioritaires constituant des actions essentielles,

organisées dans une Matrice 3x3x3. Le modèle articule la modernisation des capacités gouvernementales, l'innovation programmatique et la génération d'impact national. Il reformule la restructuration gouvernementale comme une intervention de santé publique visant à affronter les déterminants sociaux qui perpétuent l'exclusion, l'inefficacité et l'inéquité. **Conclusions:** Cette étude établit que la restructuration gouvernementale — entendue comme la redéfinition des structures, des processus et des fonctions — et la revitalisation institutionnelle — orientée vers le renforcement des capacités, de la motivation et de la performance — constituent des conditions indispensables pour dépasser le statu quo et réaliser des réformes durables qui améliorent la santé et le bien-être de la population.

Mots-clés: Restructuration gouvernementale; Revitalisation institutionnelle; Modernisation de l'État; Gouvernance transformationnelle; Leadership public; Gestion axée sur les résultats; Efficacité gouvernementale; Innovation dans le secteur public; Réformes de santé

Reestruturação e revitalização governamental: um roteiro estratégico para modernizar o Estado e melhorar a saúde e o bem-estar da população

RÉSUME

Introdução: Este artigo desenvolve o segundo pilar da estratégia tripartite descrita na publicação "Uma visão presidencial para a Guatemala baseada nos determinantes sociais da saúde". Propõe a reestruturação e revitalização do Estado como uma intervenção estratégica de saúde pública, essencial para transformar instituicões. **Objetivos**: Analisar causas estruturais e barreiras institucionais que limitam o desenvolvimento sustentável em saúde, e propor um modelo que aumente a eficiência, eficácia e equidade governamental. Métodos: Utilizou-se um desenho qualitativo de análise e síntese conceitual, com abordagem indutivodedutiva e histórico-ecológica, para identificar padrões de fragilidade institucional e, com base em referências internacionais, construir um modelo operacional contextualizado de governança em saúde e no âmbito nacional. **Resultados**: Para melhorar a saúde e o bemestar da população, propõe-se um modelo de Reestruturação e Revitalização Governamental para modernizar a administração pública por meio de três metas estratégicas interdependentes com visão transformadora, nove objetivos-chave representando resultados intermediários e vinte e sete estratégias prioritárias constituindo ações essenciais, organizadas em uma Matriz 3x3x3. O modelo articula a modernização das capacidades governamentais, a inovação programática e a geração de impacto nacional. Reinterpreta a reestruturação governamental como uma intervenção de saúde pública para enfrentar determinantes sociais que perpetuam exclusão, ineficiência e iniquidade. Conclusões: Este estudo estabelece que a reestruturação governamental — entendida como a redefinição de estruturas, processos e funções — e a revitalização institucional — voltada ao fortalecimento de capacidades, motivação e desempenho — constituem condições indispensáveis para superar o status quo e alcançar reformas sustentáveis que melhorem a saúde e o bem-estar da população.

Palavras-chave: Reestruturação governamental; Revitalização institucional; Modernização do Estado; Governança transformacional; Liderança pública; Gestão por resultados; Eficiência governamental; Inovação no setor público; Reformas em saúde.

Citar como:

Calderón-Pinzón MR. Government Restructuring and Revitalization: A Strategic Roadmap to Modernize the State and Improve Population Health and Well-Being. Rev. Cienc. Med. Vida. 2025;3:e049.

INTRODUCTION

rom Structural Stagnation to Systemic Transformation: A Strategic Public Health Intervention

This article develops the second pillar of the tripartite strategy presented in *A Presidential Vision for Guatemala Based on the Social Determinants of Health*, published in the *Journal of Medical Sciences and Life* in May 2023.¹ It addresses the need to implement a Governmental Restructuring and Revitalization Program (R&R) as a foundation for transforming national governance, overcoming decades of inefficiency and institutional fragility, with the goal of improving the health, well-being, and development of the population.

Before moving forward, it is essential to understand the diversity of strategies improving the health and well-being of population, since social causes can be as lethal as infectious agents. Although most public health interventions have traditionally focused technical, biomedical, or care-based solutions, a truly comprehensive and sustainable approach requires going beyond the clinical sphere. The social determinants of health — such as access to education, governance, equity, justice, social cohesion, or citizen security — can be as lethal as a bacterium, a virus, a fungus, or a parasite, since they generate disease, suffering, and death to the same or greater extent.

This was documented and broadcast in 2008 as Unnatural Causes: Is Inequality Making Us Sick? — Causas No Naturales: ¿Está la desigualdad enfermándonos? - to show how social and economic conditions, in addition to individual behaviors or genetics, significantly influence health and contribute to disease patterns inequalities.^{2,3} From this perspective, governmental restructuring and revitalization is neither a luxury nor an administrative matter, but rather a strategic public health intervention.

From the standpoint of the social determinants of health, the State's structural failures act as root

causes that limit equitable access to rights, services, and opportunities. These conditions not only precipitate situational crises but also perpetuate inequality, poverty, insecurity, and lack of access to essential services, generating a vicious cycle of disease, collective distress, and exclusion. In this context, restructuring and revitalizing the governmental apparatus is not an ideological or partisan proposal, but a strategic public health intervention aimed at eliminating the predisposing, precipitating, and perpetuating factors of social deterioration. Strengthening the State ultimately, strengthening the necessary conditions to live with dignity, access opportunities, and achieve fair, sustainable development promotes health and well-being.

Through a historical-ecological and inductive-deductive approach, the author identifies different levels of causality for disease and social distress — individual, environmental, structural, and suprastructural— and emphasizes the need to identify not only risk factors, but also protective and transformative elements that shape the living conditions, health, and governance of a population. In contexts marked by institutional weakening, systemic corruption, functional fragmentation, and public distrust, these conditions operate as true social pathogens that generate chronic dysfunction in the State apparatus.

From this perspective, governmental restructuring and revitalization—far from being a political, ideological, or partisan proposal—constitutes a strategic public health intervention aimed at eliminating the predisposing, precipitating, and perpetuating factors of poor health and social deterioration.¹ Ultimately, strengthening the State means creating the necessary conditions to redesign state structures and functions to close gaps in inefficiency, exclusion, and poor performance, and to build enabling environments that sustainably protect life, health, and collective well-being.⁴-7

As a concrete example, Guatemala illustrates how the dysfunctions described manifest in practice. National governance is characterized by obsolete bureaucratic structures, overlapping functions, program duplication, weak institutions, systemic

corruption, and a lack of accountability. These problems have perpetuated social inequality, exclusion, and citizens' distrust of the State.⁸⁻¹¹ Without a comprehensive process of restructuring and revitalization, any sectoral reform remains trapped within obsolete and corrupt systems, unable to generate real and sustainable change.

The R&R approach does not arise from theory but from more than two decades of practical implementation and proven results across diverse sectors and contexts, including its application in public health in the United States, international development in El Salvador, and regional HIV programs in Central America. 1 It is now proposed to adapt and scale this approach as the foundation of a national R&R program in Guatemala, aimed at strengthening public institutions, optimizing and structures processes, eliminating redundancies, modernizing management, and doubling their impact and effectiveness for the benefit of all citizens.

It is important to note that this article does not propose the deep transformation, merger, or elimination of ministries, secretariats, or other specific structures; its intention is different: to offer the strategic guidance and methodological framework to plan and execute restructuring, preparing the country to govern with efficiency, technical capacity, and transformational vision, and to avoid the improvisation that has historically characterized Guatemalan administrations.

In fact, most governments assume power without cohesive plans, without prepared technical teams, and without a clear roadmap, resorting to improvisation and the political distribution of positions, ministries, and quotas of power, which further deepens stagnation. This R&R approach proposes the opposite: to be ready to govern from day one, with a master plan, qualified teams, clear objectives, and a focus on concrete results—which is precisely what the population expects and deserves.

Only through a comprehensive process of restructuring and revitalization will it be possible to analyze and decide, based on evidence, whether structures such as the Ministry of Public Health and Social Assistance (MSPAS), Ministry of Social

Development (MIDES), Ministry of Culture and Sports (MCD), and Ministry of Natural Resources and Environment (MARN); the Secretariat for Food and Nutritional Security (SESAN) and the First Lady's Social Works Secretariat (SOSEP); multiple Presidential Secretariats: Planning Programming (SEGEPLAN), Administrative Affairs and Security (SAAS), Strategic Intelligence (SIE), Social Communication (SCSP), and Executive Coordination (SCEP); the National Office of Civil Service (ONSEC); or institutions such as the Guatemalan Social Security Institute (IGSS), the National Civil Police (PNC), or the Central American Parliament (PARLACEN), among others, require deep transformation, merger, or elimination.

This transformation would first make it possible to plague eliminate the problems that Guatemalan government, such as overlapping mandates, redundancies, inefficiencies, abuse, fraud, corruption, political patronage, limited transparency and accountability, duplication of implementation and strategies, monitoring, duplication of functions and excessive administrative costs, obsolete structures, fragmented processes, and weak institutional capacities. 16-18 Second, it would enable the creation of a more efficient government, with highquality public and health services, functional infrastructure, specialized regional hospitals, modern transportation and logistics systems, comprehensive national security, and excellence in education. Finally, this transformation would facilitate technological innovation and government digitalization, environmental sustainability, social and territorial equity, economic competitiveness, strong institutions, and the rule of law, as well as citizen trust and social cohesion, allowing Guatemala to aspire to become the "Singapore of the Americas," moving from an underdeveloped country to first-world nation within а generation. 19-20

The purpose of this article is to examine the structural causes and institutional barriers that keep the public sector stagnant and weaken its capacity to respond, and to propose a strategic roadmap to modernize the State, strengthen governance, and achieve concrete results. This model integrates the principles of transformational leadership, results-based management, and

public-sector efficiency and innovation, as a means to address social determinants and improve the health and well-being of the population.

METHODS

A qualitative design of conceptual analysis and synthesis was employed, with an inductive, deductive, historical, and ecological approach. The inductive analysis made it possible to identify structural patterns of inefficiency, corruption, and institutional weakness from historical, political, and administrative data, as well as from direct experiences applying the R&R model in different countries and sectors. The deductive approach applied theoretical frameworks of governance, transformational leadership, change management, organizational development, integrating international evidence and accumulated practical learnings to adapt and scale the model to Guatemalan public administration.²¹⁻²²

The historical-ecological approach integrated social, cultural, political, and economic determinants that condition governmental effectiveness, enabling the construction of a contextualized and operational restructuring and revitalization model adapted to Guatemala's reality. This method seeks not only to describe a conceptual framework but also to offer practical and strategic tools for designing and implementing sustainable structural reforms, results-oriented and centered on the population's well-being and development.²³⁻²⁴

The R&R model was developed from more than two decades of practical implementation in public health, development, institutional social management, humanitarian response, advocacy and social mobilization programs with documented results in various contexts.²⁵ Its initial application in municipal health systems in the United States drove modernization processes, organizational transformation, and substantive improvements in service delivery, earning national recognition for innovation and effectiveness.²⁶

The R&R strategy was adapted in international technical cooperation programs and in strengthening ministries and local capacities, achieving significant improvements in institutional

performance, compliance with global standards, and programmatic efficiency. Among these cases are experiences in Central America and Panama, supported by multilateral and bilateral organizations, where its implementation generated financial savings, technical strengthening, and results recognized for their effectiveness and return on investment.²⁷

In addition to the analytical-conceptual methods described, the construction and validation of the model were enriched by an international trajectory of practical application, knowledge generation, and strategic documentation. The approach was informed accumulated experiences by institutional implementing reforms, interventions, and organizational strengthening processes in more than 20 countries across Latin America and the Caribbean, the United States, Europe, Africa, and Asia, 1,25-30 allowing for the comparison of conceptual frameworks with diverse realities and reinforcing their applicability in multiple contexts.

The R&R approach has also been informed by more than three decades of systematic production of applied knowledge, including series such as the HIV/AIDS Prevention and Control Synopsis Series, Global Health Leadership Reports, Public Health Best Practice Collection Series, and publications on Health Systems Strengthening, Combating Building Resilience. Corruption, and These contributions have documented best practices, learned, programmatic innovations, conceptual frameworks, and leadership models that have nurtured and consolidated the proposed Restructuring and Revitalization (R&R) approach.26-30

RESULTS

Understanding governmental restructuring and revitalization: The R&R 3x3x3 Matrix

Faced with a State characterized by inefficiency, institutional capture, and the absence of strategic vision, an integrated model of Governmental Restructuring and Revitalization (R&R) is proposed as a roadmap for transforming Guatemalan public administration. The purpose goes beyond improving public management—it also seeks to

address the social and structural determinants that affect health, equity, and collective well-being, recognizing the interdependence between effective governance, public health, and sustainable development.

The model proposes a systemic transformation that articulates two complementary processes—
restructuring and revitalization—within a structured framework called the R&R 3x3x3 Matrix, defined and conceptualized by the author as follows:³⁰

- Restructuring: Defined the as reorganization government of functions, structures, programs, services, and benefits within ministries and public entities—to eliminate improve redundancies, inter-institutional coordination, and optimize resource use. It involves analyzing organizational architecture, ensuring the technical rationality of designs, and clarifying roles and mandates so that each institution fulfills its strategic purpose without duplications, overlaps, or governance gaps
- **Revitalization**: Defined as creating a culture of excellence, high performance, transparency, and accountability that restores public trust and ensures sustainable results. It focuses on people, public ethics, transformational leadership, and institutional motivation to serve the common good with integrity, commitment, and efficiency.

These two processes are structured around three interdependent strategic goals (high-level transformative purposes), each operationalized through three key objectives (specific required results), and each objective supported by three priority strategies (concrete actions interventions). This three-dimensional logic shapes the R&R 3x3x3 Matrix, comprising a total of 27 priority strategies aimed at transforming structures, strengthening capacities, and driving sustainable results. These 27 strategies are grouped into the interdependent strategic goals described below, which form the transformative pillars of the R&R model.

1. Modernize governmental capacities by reorganizing functions, structures, and processes

to eliminate redundancies, optimize resources, strengthen institutional capacities, and modernize public management.

- 2. Strengthen, expand, and innovate programs and services by revitalizing organizational and leadership culture to replace clientelism, corruption, and mediocrity with excellence, ethics, vision, and genuine public service.
- **3. Generate tangible, equitable, and sustainable national impact** by rebuilding public trust through concrete results that improve the social, economic, and environmental well-being of the Guatemalan population.³⁰

Without this structured articulation, any sectoral reform remains trapped within obsolete and corrupt systems, perpetuating inefficiency, clientelism, and administrative mediocrity.

Below is the R&R 3x3x3 Matrix, made up of three Strategic Goals, each broken down into three Key Objectives (totaling nine specific objectives), and each objective operationalized through three Priority Strategies (amounting to a total of 27 strategies or actions). This matrix is presented both in full-text format and in a tabular version with abbreviated phrases that preserve textual and conceptual fidelity, making it easier to use for visual, graphic, and strategic programming purposes.

Strategic Goal 1. Modernize Government Capacities

Purpose: Restructure and strengthen organizational architecture of the State to optimize functions, eliminate duplications, bureaucracy, and modernize processes, ensuring robust technical, programmatic, financial, and managerial capacities. In this sense, restructuring implies redesigning and reorganizing structures, functions, and processes to improve their strategic alignment, efficiency, and effectiveness; while strengthening means increasing institutional solidity, operational capacity, and performance to fulfill mandates and generate public value.

Objective 1.1. Redesign organizational structures for greater efficiency

- Strategy 1.1.1: Conduct functional audits of ministries and public entities to eliminate duplications.
- Strategy 1.1.2: Reassign strategic functions to consolidate competencies and eliminate governance gaps.
- Strategy 1.1.3: Redesign processes to reduce operational times and costs by 30% within two years.

Objective 1.2. Strengthen the State's technical and managerial capacity

- Strategy 1.2.1: Develop a national training program for senior and mid-level officials in leadership, management, and public ethics.
- Strategy 1.2.2: Modernize information and financial management systems with integrated digital platforms.
- Strategy 1.2.3: Create public policy analysis units in each ministry to strengthen evidence-based decision-making.

Objective 1.3. Improve legal and regulatory frameworks for institutional agility

- Strategy 1.3.1: Review and update laws and regulations that hinder operational efficiency.
- Strategy 1.3.2: Establish agile mechanisms for the approval of strategic multisectoral projects.
- Strategy 1.3.3: Promote legal reforms to institutionalize results-based management in the public sector.

Strategic Goal 2. Strengthen, Expand, and Innovate Programs and Services

Purpose: Reorient and revitalize government programs and services to be relevant, effective, sustainable, equitable, and innovative, responding to the real needs of the population and generating public value. To achieve this, *reorienting* means changing the strategic direction of a program or service so that its focus, objectives, and actions better respond to reality, national priorities, and population needs; while *revitalizing* means renewing and strengthening a program or service

that has weakened, stagnated, or become outdated, restoring its energy, effectiveness, and public value.

Objective 2.1. Program review and redesign based on evidence

- Strategy 2.1.1: Assess the impact and costeffectiveness of existing programs, eliminating clientelist ones without verifiable results.
- Strategy 2.1.2: Redesign strategic programs to align them with sustainable development goals and national plans.
- Strategy 2.1.3: Implement performancebased budgets linked to social impact indicators.

Objective 2.2. Expand coverage and targeting for vulnerable populations

- Strategy 2.2.1: Prioritize territories with historical gaps in health, education, and basic services.
- Strategy 2.2.2: Integrate sectoral programs to achieve synergies and reduce administrative costs.
- Strategy 2.2.3: Create new program lines for differentiated care for youth, indigenous peoples, and rural communities.

Objective 2.3. Promote programmatic innovation and strategic alliances

- Strategy 2.3.1: Establish a national fund for social innovation and program modernization.
- Strategy 2.3.2: Strengthen multisectoral partnerships (private sector, NGOs, international cooperation) for co-financing and scalability.
- Strategy 2.3.3: Create government innovation laboratories to pilot new solutions with rapid evaluation of results.

Strategic Goal 3. Generate Tangible, Equitable, and Sustainable National Impact

Purpose: Strengthen the results and impact of government interventions to generate concrete, sustainable, and equitable benefits for the entire

population, restoring public trust. In this context, *strengthen* means increasing the capacity, quality, effectiveness, and sustainability of government interventions, ensuring that they produce stronger results and generate a lasting positive impact on the population.

Objective 3.1. Institutionalize resultsoriented management

- Strategy 3.1.1: Define national priority results with clear and verifiable impact indicators.
- Strategy 3.1.2: Implement integrated systems for monitoring, evaluation, and learning across the entire state apparatus.
- Strategy 3.1.3: Establish impact evaluation councils with citizen and academic participation.

Objective 3.2. Build leadership capacity and an innovation culture

- Strategy 3.2.1: Implement continuous training programs in transformational leadership, ethics, and public service.
- Strategy 3.2.2: Promote innovation and continuous improvement in processes,

- programs, and policies through performance incentives.
- Strategy 3.2.3: Publicly recognize institutions and teams with the best results and innovative practices.

Objective 3.3. Strengthen transparency, communication, and sustainability

- Strategy 3.3.1: Establish accessible and reliable social audit mechanisms.
- Strategy 3.3.2: Develop strategic communication campaigns to share progress and results.
- Strategy 3.3.3: Create intersectoral governance and leadership structures to ensure the sustainability of changes.

The following table presents the **R&R 3x3x3 Matrix**, composed of three Strategic Goals and three Key Objectives for each goal. For clarity and practical understanding, and to create a more robust, pedagogical, and operational comprehension aligned conceptually with best practices in strategic planning, the meaning and function of each component are described again.

Table 1. R&R 3x3x3 matrix: strategic goals (sg) and their key objectives (ko)

SG 1	SG 2	SG 3
MODERNIZE GOBERNMENT CAPACITIES	STRENTHEN, EXPAND, AND INNOVATE PROGRAMS AND SERVICES	GENERATE TANGIBLE, EQUITABLE, AND SUSTAINABLE NATIONAL IMPACT
KO 1.1	KO 2.1	KO 3.1
Redesign organizational	Program review and redesign	Institutionalize results-oriented
structures for greater efficiency	based on evidence	management
KO 1.2	KO 2.2	KO 3.2
Strengthen the State's technical	Expand coverage and targeting	Build leadership capacity and a
and managerial capacity	for vulnerable populations	culture of innovation
KO 1.3	KO 2.3	KO 3.3
Improve legal and regulatory	Promote programmatic	Strengthen transparency,
frameworks for institutional	innovation and strategic	communication, and
agility	alliances	sustainability

The following table presents complete version of the R&R 3x3 Matrix, composed of three Strategic Goals and three Key Objectives for each goal. For clarity and practical understanding, and to create a more robust, pedagogical, and operational comprehension aligned conceptually with best practices in strategic planning, the meaning and function of each component are described again.

Table 2. R&R 3X3X3 Matrix strategic goals (SG), key objectives (KO), and strategic priorities (SP)

SG 1	SG 2	SG 3
MODERNIZE GOBERNMENT CAPACITIES	STRENTHEN, EXPAND, AND INNOVATE PROGRAMS AND SERVICES	GENERATE TANGIBLE, EQUITABLE, AND SUSTAINABLE NATIONAL IMPACT
KO 1.1	KO 2.1	KO 3.1
Redesign organizational structures for greater efficiency	Program review and redesign based on evidence	Institutionalize results-oriented management
SP	SP	SP
1.1.1: Functional audits to eliminate duplications	2.1.1: Evaluate the impact and cost-effectiveness of programs	3.1.1: Define national results with clear indicators
1.1.2: Reassign functions and consolidate competencies	2.1.2: Redesign strategic programs aligned with SDGs and national plans	3.1.2: Integrated systems for monitoring, evaluation, and learning
1.1.3: Redesign processes to reduce costs and timeframes	2.1.3: Performance- and Social Impact-Based Budgets	3.1.3: Impact evaluation councils with citizen and academic participation
KO 1.2	KO 2.2	KO 3.2
Strengthen the State's technical and managerial capacity	Expand coverage and targeting for vulnerable populations	Build leadership capacity and a culture of innovation
SP	SP	SP
1.2.1: Training in leadership, management, and public ethics	2.2.1: Prioritize territories with historical gaps	3.2.1: Ongoing training in leadership, ethics, and public service
1.2.2: Modernize information systems and digital finance	2.2.2: Integrate sectoral programs for synergies and savings	3.2.2: Encourage innovation and continuous improvement in programs and policies
1.2.3: Create public policy analysis units	2.2.3: New programmatic lines for youth and indigenous and rural populations	3.3.3: Recognize institutions and teams with the best results and innovation
KO 1.3	KO 2.3	KO 3.3
Improve legal and regulatory frameworks for institutional agility	Promote programmatic innovation and strategic alliances	Strengthen transparency, communication, and sustainability
SP	SP	SP
1.3.1: Review and update laws and regulations	2.3.1. National Fund for Social Innovation and Modernization	3.3.1: Accessible and reliable social audit mechanisms
1.3.2: Streamlined mechanisms for strategic projects	2.3.2. Strengthen multisectoral partnerships for co-financing and scalability	3.3.2: Strategic communication campaigns on progress and results
1.3.3: Legal reforms for results- based management	2.3.3: Government innovation laboratories with rapid evaluation	3.3.3: Intersectoral governance and leadership for the sustainability of changes

The proposed 3x3x3 Matrix articulates a clear and transformative vision to modernize government capacities, strengthen programs and services, and generate tangible and sustainable impact—overcoming decades of inertia, clientelism, and corruption. This model offers a viable, practical, and context-specific path for Guatemala to build an efficient, ethical government that serves its entire population. The following section discusses the strategic implications and lessons learned from international and local experiences that can strengthen its successful implementation.

DISCUSSION

The purpose of the Governmental Restructuring and Revitalization (R&R) strategy is to transform Guatemala's public administration into an efficient, ethical, and results-oriented system capable of guaranteeing the health and well-being of the population. to Ιt seeks restructure the government's architecture to eliminate structural inefficiencies, redefine essential functions, simplify processes, and reduce the size of the state apparatus without compromising citizens' rights or the quality of public services. Simultaneously, it aims to revitalize organizational and leadership clientelism, eradicating corruption, culture, authoritarianism, and mediocrity, and replacing them with excellence, ethics, vision, inclusion, meritocracy, and genuine public service. Finally, it aspires to optimize the management of financial, human, and material resources to ensure their responsible use, maximize social impact, and guarantee fiscal, programmatic, and institutional sustainability.

Global Lessons on Restructuring and Revitalization

The author's accumulated experience in three distinct contexts —the Los Angeles County Department of Health Services (LACDHS), World Vision International in El Salvador (WVI), and the U.S. Centers for Disease Control and Prevention (CDC) along with the President's Emergency Plan for AIDS Relief (PEPFAR)— demonstrates that restructuring and revitalization (R&R) processes are feasible and yield significant results when applied with ethical leadership, strategic vision,

technical discipline, and a service-oriented philosophy. These implementations transformed organizational structures, processes, and cultures, achieving substantial improvements in operational efficiency, programmatic impact, and institutional sustainability. Their success supports the applicability and relevance of the R&R model as a strategic tool to modernize public systems in diverse contexts.²⁵⁻²⁷

In addition to the previously discussed international experiences and the implementations referenced by the author in more than 20 other global cases confirm that countries, restructuring and revitalization (R&R) processes require strategic vision, transformational leadership, disciplined technical and management.31-36

There are multiple noteworthy examples of countries that have successfully implemented R&R processes, demonstrating how a clear strategic vision, combined with ethical and disciplined leadership, can radically transform public administration and generate sustained development. Among these are Singapore, South Korea, New Zealand, Rwanda, Chile, Finland, and Taiwan.

- **Singapore** implemented deep structural reforms, reducing bureaucracy, modernizing its civil service, and focusing on long-term, results-oriented governance, enabling its leap from a developing to a developed country within a generation.³⁸⁻³⁹
- **South Korea** carried out a comprehensive governmental restructuring between the 1960s and 1990s, consolidating ministries, reducing duplications, strengthening capacities, and establishing accountability systems. These efforts produced visible results in economic growth, industrialization, and poverty reduction.³²
- **New Zealand** applied public sector revitalization reforms in the 1980s and 1990s, focused on results-based management, accountability, and fiscal efficiency, improving the quality of public services and restoring citizen trust.⁴¹

- **Rwanda** undertook deep governmental reforms after the genocide, prioritizing institutional efficiency, anti-corruption measures, and results-based management, leading to significant progress in health, education, and sustained growth.⁴²⁻⁴³
- **Chile** implemented public sector modernization reforms starting in the 1990s, including *ChileCompra* and *ChileAtiende*, which strengthened transparency, administrative efficiency, and the delivery of integrated citizen services. 44,45
- **Finland** carried out strategic reforms in public administration, prioritizing transparency, efficient resource management, and evidence-based approaches, thereby consolidating one of the most effective and trustworthy governmental systems in the world.^{46,47}
- **Taiwan** pursued governmental modernization and institutional strengthening aimed at technological innovation, administrative efficiency, and rapid response to citizen needs, becoming a benchmark for agile and effective governance in Asia. 48,49

The **OECD**, **UNDP**, and the **World Bank** highlight that successful R&R processes share common principles: rigorous diagnostics, leadership with social legitimacy, a focus on citizen outcomes, multisectoral participation, integrity, and financial sustainability. 50-52

Integration with the 3x9x27 Model (3 Strategic Goals, 9 Key Objectives & 27 Strategic Priorities)

This article presents international examples of restructuring and revitalization (R&R) processes, understood as reforms or transformations in public administration in a general sense—just as the term is used in global literature to describe structural and institutional improvements. The countries mentioned implemented their own national restructuring and revitalization processes, but not the specific R&R model or terminology proposed in this article. The R&R model is based both on the author's prior practical implementations in different contexts and on the general lessons and principles learned from these international cases,

thus forming a distinct strategic framework that has been conceptualized, adapted, and proposed here specifically for Guatemala.

The 3x3x3 matrix presented in the *Results* section operationalizes these global lessons within an integrated framework of three strategic goals (capacity modernization, programmatic strengthening, and tangible impact), nine key objectives, and twenty-seven concrete strategies. Its design makes it possible to scale interventions, adapt them to different governments, ministries, and contexts, and implement them with technical discipline, ethical leadership, and transformational vision.

Although the proposed R&R model has been conceptualized specifically to address Guatemala's structural challenges, it is grounded in universal principles of governance, transformational leadership, programmatic efficiency. and Therefore, it can be adapted and applied in other countries facing similar issues, always taking into political, institutional, account their sociocultural contexts.

Strategic Implications for Guatemala

Without a rigorous process of restructuring and revitalization:

- No sectoral plan, educational reform, health transformation, or security strategy will be fully implemented.
- Campaign promises and national projects will remain trapped within obsolete, bureaucratic, and corrupt government apparatuses.
- Improvisation will continue to be the norm with each change of administration, perpetuating inertia, social frustration, and the loss of development opportunities.

For this reason, at this stage, this article does not propose the creation, merger, or elimination of specific ministries or institutions. Its objective is different: to establish the strategic direction, technical foundations, and methodological roadmap for a comprehensive and sustainable R&R process that will prepare the country to govern with efficiency, transformational vision, and excellence from day one.

Relationship with the Tripartite Presidential Vision

This article constitutes the second pillar of the presidential strategy based on the social determinants of health, together with:

- 1. Transformational Leadership with a Future-Focused, Shared, and Servant Approach (LFCS) (Pillar 1), which defines the type of leadership required to guide the transformation process.
- 2. Government Restructuring and Revitalization (R&R) (Pillar 2), which establishes the technical and operational model to reorganize and revitalize the state apparatus.
- 3. Integral Medical, Educational, Citizen, and Economic Security (SIMECE) (Pillar 3), which will consolidate priority sectoral reforms in these areas and in national security.

Towards Transformational Governance

Without an R&R model implemented with longterm vision and ethical leadership, Guatemala will not be able to overcome structural stagnation nor achieve equitable and sustainable development. With it, the country will create a government capable of:

- Serving its population with excellence,
- Optimizing resources and maximizing impacts, and
- Generating prosperity and social cohesion for future generations.

Beyond its technical nature, this article represents the convergence and creation of knowledge, science, and art placed in service of a higher governance, purpose: social iustice, good responsible stewardship of public resources, and love for Guatemala and its people. Every strategy, objective, and goal presented here forms part of a life path dedicated to building and strengthening more just, functional, and sustainable societieswhere transformational leadership translates into real well-being for Guatemalan families. This vision reflects the passion and purpose of those committed to contributing to the construction of a better, healthier, safer, more inclusive, equitable,

and sustainable world for all populations—especially those most vulnerable, disadvantaged, excluded, marginalized, and underserved: the poor, rural, and Indigenous peoples of Guatemala and the world.

Governmental restructuring and revitalization is not an option, but a strategic imperative to transform Guatemala's public systems and respond effectively to the social determinants of health. article has presented a conceptual, methodological, and operational framework based more than two decades of implementation public health, in social development, international and programs, reaffirming that restructuring and revitalization constitute a core public health intervention capable of redesigning complex structures and overcoming historical stagnation.

CONCLUSIONS

The analysis confirms that government restructuring and revitalization (R&R)—understood as the redefinition of structures, processes, and functions, along with the strengthening of capacities, motivation, and performance constitutes an indispensable condition for the State to play an effective role in protecting and promoting the health and well-being of the population. Without this process, outdated structures, low response capacity, and institutional inefficiency persist, preventing the successful implementation of policies and programs and undermining their impact and sustainability.

In contrast, comprehensively applied R&R makes it possible to optimize resources, modernize technical and programmatic capacities, innovate in programs and services, and create an institutional environment capable of addressing the social determinants that perpetuate inefficiency, and inequity. This process transforms the State apparatus into an engine for sustainable social cohesion, development, and prosperity. Consequently, R&R should be regarded not merely as an administrative modernization exercise, but as a strategic public health intervention essential to ensuring a healthier, more and sustainable future equitable, populations.

ACKNOWLEDGEMENTS

To the *Journal of Medical and Life Sciences* for its openness to publications that contribute to the ethical and structural transformation of the country to improve the health and well-being of its citizens.

REFERENCES

- 1. Calderón-Pinzón MR. Corrupción y salud 6: una visión presidencial para Guatemala sustentada en los determinantes sociales de la salud: Corruption and health 6: a presidential vision for Guatemala based on the social determinants of health Corruption et santé 6: une vision présidentielle pour le Guatemala basée sur les déterminants sociaux de la santé. Rev. Cienc. Med. Vida [Internet]. 2023 [cited 2025 Jun 20];1(1-3):e015. Available from: https://editorial.udv.edu.gt/index.php/RCMV/artic le/view/48
- 2. WHO. World report on social determinants of health equity, 2025. World Health Organization [Internet]. 2025 [cited 2025 Jun 20]. Available from: https://www.who.int/teams/social-determinants-of-health/world-report-on-social-determinants-of-health-equity?utm source=chatqpt.com
- 3. Smith L, Adelman L. Unnatural Causes: is inequality making us sick? California Newsreel: Video Documentary and Summary [Internet]. 2008 [cited 2025 Jun 20]. Available from: https://unnaturalcauses.org/episode descriptions.php & https://unnaturalcauses.org/assets/uploads/file/P RESS background.pdf
- 4. Asuquo G, Akerele PA. Ethical leadership: a veritable tool for national transformation, peace and social justice. Jurnal Sosialisasi [Internet]. 2020 [cited 2025 Jun 22]; Vol 7, Nomor 3. Available from: file:///Users/m.ricardocalderon/Downloads/ETHIC AL LEADERSHIP A VERITABLE TOOL FOR NATI ONAL T.pdf
- 5. Mohanty R, et al. Exploring the Impact of Transformational Leadership on Healthcare Quality Improvement. Health Leadership and Quality of

Life [Internet]. 2024 [cited 2025 Jun 22]; 3:365.

Available from:

https://www.researchgate.net/publication/388661

565 Exploring the Impact of Transformational

Leadership on Healthcare Quality Improvement

6. Kauzya JM. Developing Transformational Leadership Capacity in Africa's Public-Sector Institutions to Implement the 2030 Agenda and achieve the SDGs. New York: United Nations [Internet]. 2020 [cited 2025 Jun 22]. Available from:

https://publicadministration.un.org/portals/1/Background Paper on transformational leadership in Somalia.pdf

- 7. World Economic Forum. Strengthening Integrity Leadership in Brazil's Federal Public Administration. Paris: OECD [Internet]. 2023 24]. [cited 2025 Jun Available from: https://www.oecd.org/en/publications/strengtheni ng-integrity-leadership-in-brazil-s-federal-publicadministration 50a9a028-en.html
- 8. World Bank. Guatemala Public Expenditure Review: Strengthening Public Sector Efficiency for Better Results. Washington, DC: World Bank [Internet] 2023 [cited 2025 Jun 24]. Available from:

https://documents.worldbank.org/en/publication/documents-

<u>reports/documentdetail/235121468252666498/gu</u> atemala-public-sector-expenditure-review

9. International Crisis Group. A New Dawn for Guatemala's Justice System? Latin America Report No. 84. Brussels: International Crisis Group [Internet]. 2021 [cited 2025 Jun 26]. Available from:

https://www.crisisgroup.org/es/taxonomy/term/7

- 10. Transparency International. Corruption Perceptions Index 2022. Berlin: Transparency International [Internet]. 2023 [cited 2025 Jun 26]. Available from: https://www.transparency.org/en/cpi/2022/index/gtm
- 11. United Nations Development Programme. Human Development Report 2021/2022: Uncertain

Times, Unsettled Lives – Guatemala Statistical Update. New York: UNDP [Internet]. 2022 [cited 2025 Jun 28]. Available from: https://hdr.undp.org/content/human-development-report-2021-22

- 12. Brinks DM, Levitsky S, Murillo MV, editors. The politics of institutional weakness in Latin America. Cambridge University Press [Internet]. 2020 [cited 2025 Jun 28]. Available from: ahttps://transparencia.cide.edu/files/fracciones/Brinks,%20Levitsky,%20Murillo%20(2020)%20-%20The%20Politics%20Of%20Institutional%20Weakness%20In%20Latin%20America Cap1 PPEPP 2023.pdf
- 13. Organisation for Economic Co-operation and Development. OECD Integrity Review of Guatemala: Restoring Trust through an Integrity System. Paris: OECD Publishing [Internet]. 2025 [cited 2025 Jun 30]. Available from: https://www.oecd.org/content/dam/oecd/en/topic s/policy-sub-issues/public-integrity/country-fact-sheets/OECD-Public-Integrity-Indicators-Guatemala-Country-Fact-Sheet-2025.pdf
- 14. United States Agency for International Development. Democracy, Human Rights, and Governance Assessment of Guatemala. Washington, DC: USAID [Internet]. 2020 [cited 2025 Jun 30]. Available from: https://pdf.usaid.gov/pdf docs/PA00WQJK.pdf
- 15. World Bank. Guatemala Public Expenditure Review: Strengthening Public Sector Efficiency for Better Results. Washington, DC: World Bank [Internet]. 2023 [cited 2025 Jul 3]. Available from: https://documents.worldbank.org/en/publication/documents-reports/documentdetail/836891468246600324/ha
- reports/documentdetail/836891468246600324/ha cia-una-mejor-calidad-del-gasto-revision-delgasto-publico-en-guatemala
- 16. Organisation for Economic Co-operation and Development. Multi-dimensional Review of Guatemala: Volume 1 Initial Assessment. Paris: OECD Publishing [Internet]. 2022 [cited 2025 Jul 3]. Available from: https://www.oecd.org/en/about/programmes/multidimensional-reviews.html

- 17. Inter-American Development Bank. Guatemala: Country Development Challenges. Washington, DC: IDB [Internet]. 2020 [cited 2025 Jul 3]. Available from: file:///Users/m.ricardocalderon/Downloads/Independent-Country-Program-Review-Guatemala-2017-2020.pdf
- 18. Secretaría de Planificación y Programación de la Presidencia (SEGEPLAN). Plan Nacional de Desarrollo K'atun: Nuestra Guatemala 2032. Guatemala City: SEGEPLAN [Internet]. 2014 [cited 2025 Jul 3]. Available from: https://portal.segeplan.gob.gt/segeplan/wp-content/uploads/2022/08/GuatemalaPlanNacional deDesarrollo2032.pdf
- 19. Ministry of Finance Singapore. Singapore Budget 2023: Building Our Future Together. Singapore: MOF [Internet]. 2023 [cited 2025 Jul 5]. Available from: https://www.mof.gov.sg
- 20. Ghesquiere H, Tiongson ER. Singapore's Success: Engineering Economic Growth. Washington, DC: World Bank [Internet]. 2017 [cited 2025 Jul 5]. Available from: https://openknowledge.worldbank.org + https://catalogue.nla.gov.au/catalog/3886565
- 21. Revista de Ciencias Médicas y de la VIDA. Plantilla para Artículos Originales Cualitativos. RCMV, Universidad Da Vinci de Guatemala [Internet]. 2025 [citado 2025 Jul 5]. Available from:

https://editorial.udv.edu.gt/index.php/RCMV/plan tillas

- 22. Hernández-Sampieri R, Mendoza Torres CP. Metodología de la investigación: Las rutas cuantitativa, cualitativa y mixta. McGraw Hill [Internet]. 2021 [cited 2025 Jul 5]. Available from: http://www.biblioteca.cij.gob.mx/Archivos/Materiales de consulta/Drogas de Abuso/Articulos/SampieriLasRutas.pdf
- 23. Rayner G, Lant T. Ecological Public Health: Reshaping the Conditions for Good Health. Routledge [Internet]. 2012 [cited 2025 Jul 7]; ISBN: 9781844078325. Available from: https://www.researchgate.net/publication/236344676 Ecological Public Health Reshaping the Co

nditions for Good Health

- 24. Whitmee S, et al. Safeguarding human health in the Anthropocene epoch: report of The Rockefeller Foundation Lance Commission on planetary health. Lancet [Internet]. 2015 [cited 2025 Jul 7]; 386:1973-2028. Available from: https://www.researchgate.net/publication/340266 552 Safeguarding human health in the Anthropocene epoch Whitmee et al 2015
- 25. Calderón, MR. Innovative Initiatives. World Vision El Salvador [Internet]. 2012 [cited 2025 Jul 7]. Available from: https://issuu.com/marioricardocalderonmdmphfp mer./docs/01 wves innovative initiatives -
- 26. Calderón MR. The Public Health Best Practice Collection. Los Angeles County [Internet]. 2001 2009 [cited 2025 Jul 5] Available from: https://issuu.com/marioricardocalderonmdmphfpmer./docs/improving the performance of the lo
- 27. Northbrook SC, Farach N. Certificate of recognition awarded to Mario Ricardo Calderón for outstanding leadership and best return on investment in the UVG Central America Regional HIV Program [Internet]. CDC/PEPFAR Central America Region; 2018 Feb 27 [cited 2025 Jul 7]. Available from: https://www.linkedin.com/in/mrcssmsa/overlay/1575133990204/single-media-viewer/?profileId=ACoAAAnYRKYBofC82CQhi7gtOE6FzvzYdy1GoU
- 28. Calderón MR. The HIV/AIDS Prevention and Control SYNOPSIS Series. USAID/Family Health International [Internet]. 1997 [cited 2025 Jul 8]; ISBN 978-9929-40-850-0. Available from: (https://issuu.com/marioricardocalderonmdmphfpmer./docs/1.synopsis.multidimensional hiv aid).
- 29. Calderón MR. The Global Health Leadership Reports. University of Southern California [Internet]. 2008 [cited 2025 Jul 8]. Available from: https://issuu.com/marioricardocalderonmdmphfpmer./docs/ghlr.phleadership21c.pdf /16
- 30. Calderón-Pinzón MR. Leadership for Achieving Global Health Security: Strengthening Health Systems, Combating Corruption, and

- Building Resilience. Eliva Press [Internet]. 2025 [cited 2025 Jul 8]; ISBN: 978-99993-2-707-7. Available from: https://drive.google.com/file/d/1KyLVpkzmzXNq8 QzTkzjDvZc6qVM4Axqv/view?usp=share link
- 31. Organization for Economic Cooperation and Development. Government at a Glance 2023. OECD Publishing [Internet]. 2023 [cited 2025 Jul 8]. Available from: https://www.oecd.org/content/dam/oecd/en/publications/reports/2023/06/government-at-a-glance-2023_da193b0d/3d5c5d31-en.pdf
- 32. World Bank. World Development Report 2017: Governance and the Law. Washington, DC: World Bank [Internet]; 2017 [cited 2025 Jul 10]. Available from: https://www.worldbank.org/en/publication/wdr2017
- 33. World Bank. Guatemala Overview. Washington DC: World Bank [Internet]. 2023 [cited 2025 Jul 10]. Available from: https://www.worldbank.org/en/country/guatemala/overview
- 34. UNDP. Human Development Report: Guatemala. New York: UNDP [Internet]. 2022 [cited 2025 Jul 10]. Available from: https://hdr.undp.org/data-center/country-insights#/ranks
- 35. WHO. (2021). Social determinants of health. World Health Organization [Internet]. 2021 [cited 2025 Jul 11]. Available from: https://www.who.int/health-topics/social-determinants-of-health#tab=tab 1
- 36. World Economic Forum. Global Risks Report 2022. Geneva: WEF [Internet]. 2022 [cited 2025 Jul 11]. Available from: https://www.weforum.org/reports/global-risks-report-2022
- 37. Vu KM. Singapore's Development Model: An Overview. Asian Economic Policy Review [Internet]. 2020 [cited 2025 Jul 11]; 15(1), 124-142. Available from: https://doi.org/10.1111/aepr.12265

- 38. Lee KY. From Third World to First: The Singapore Story: 1965-2000. HarperCollins [Internet]. 2016 [cited 2025 Jul 11]. Available from: https://www.intuganda.org/wp-content/uploads/kanzu intug/class24/From-Third-World-to-First-World The-Singapore-Story-1965-2000-Lee-Kwan-Yew.pdf
- 39. Lee KY. The Art of Economic Catch-Up: Barriers, Detours and Leapfrogging in Innovation Systems. Cambridge University Press [Internet]. 2019 [cited 2025 Jul 12]. Available from: https://www.researchgate.net/publication/331593 678 The Art of Economic Catch-Up Barriers Detours and Leapfrogging In Innovation Systems
- Lee KY. 40. Economic Catch-up and Technological Leapfrogging in South Korea. Oxford: Oxford University Press [Internet]. 2016 2025 Available [cited Jul 12]. https://biblioteca.ufm.edu/opac/record/1083949? &mode=advanced&query=@field1=encabezamien to@value1=CRECIMIENTO%20ECONOMICO&recn um=5
- 41. Wilson, S. Leadership in the time of COVID-19: Jacinda Ardern, New Zealand and crisis communication. *Leadership [Internet]. 2020 [cited 2025 Jul 12];* 16(3), 301–319. Available from: https://www.researchgate.net/publication/341653 015 Pandemic leadership Lessons from New Ze aland's approach to COVID-19
- 42. World Bank. Rwanda Economic Update: Protect and Promote Human Capital in a Post-COVID-19 World. Washington, DC: World Bank [Internet]. 2020. [cited Jul 13]. Available from: https://documents.worldbank.org/en/publication/documents-

reports/documentdetail/593761612554686869/rw anda-economic-update-protect-and-promotehuman-capital-in-a-post-covid-19-world

43. United Nations Development Programme. Human Development Report 2021/2022: Uncertain Times, Unsettled Lives – Rwanda Statistical Update. New York: UNDP [Internet]. 2021 [cited 2025 Jul 13]. Available from: https://hdr.undp.org/content/human-

development-report-2021-22

- 44. Organisation for Economic Co-operation and Development. OECD Public Governance Reviews: Chile's Supreme Audit Institution Enhancing Strategic Agility and Public Trust. Paris: OECD Publishing [Internet]. 2020 [cited 2025 Jul 14]. Available from: https://one.oecd.org/document/GOV/PGC/ETH(2014)10/en/pdf
- 45. Bellver V, Dodero A. Chile Strengthening Chile's Council for Transparency for improved transparency and accountability: P117937 Implementation Status Results Report: Sequence 04 (English). Washington, D.C.: World Bank Group [Internet]. 2024 [cited 2025 Jul 14]. Available from:

https://documents.worldbank.org/en/publication/documents-reports/documentdetail/643181468019239922

- 46. Sahlberg P. Finnish Lessons 3.0: What Can the World Learn from Educational Change in Finland? Teachers College Press [Internet]. 2021 [cited 2025 Jul 14]. Available from: https://eric.ed.gov/?id=ED609968
- 47. Organisation for Economic Co-operation and Development. OECD Public Governance Scan of Finland. Paris: OECD Publishing [Internet] 2020 [cited 2025 Jul 15]. Available from: https://www.oecd.org/en/publications/oecd-economic-surveys-finland-2020 673aeb7f-en.html
- 48. Wang CJ, Ng CY, Brook RH. Response to COVID-19 in Taiwan: Big data analytics, new technology, and proactive testing. *JAMA* [Internet]. 2020 [cited 2025 Jul 15]; 323(14), 1341–1342. Available from: https://doi.org/10.1001/jama.2020.3151
- 49. World Bank. Taiwan: Key Success Factors. Washington, DC: World Bank [Internet] 2019 [cited 2025 Jul 15]. Available from: https://www.tandfonline.com/doi/pdf/10.1080/19 338341.2024.2432299#:~:text=This%20transi% 2D%20tion%2C%20often%20referred%20to%20 as,in%20technology%20and%20infrastruc%2D% 20ture%20(Tsai%201999).

50. Organisation for Economic Co-operation and Development. Government at a Glance 2019. Paris: OECD Publishing [Internet]. 2020 [cited 2025 Jul 16]. Available from: https://www.oecd.org/content/dam/oecd/en/publications/reports/2019/11/government-at-a-glance-2019 2e4bdc82/8ccf5c38-en.pdf

51. United Nations Development Programme. Governance for Sustainable Development: Integrating Governance in the Post-2015 Development Framework. New York: UNDP

[Internet] 2021 [cited 2025 Jul 16]. Available from:

https://www.undp.org/publications/discussionpaper-governance-sustainable-development

52. World Bank. World Development Report 2017: Governance and the Law. Washington, DC: World Bank [Internet] 2017 [cited 2025 July 16]. Available from: https://www.worldbank.org/en/publication/wdr20 17

FUNDING

This study did not receive specific funding from public, private, or non-profit agencies.

CONFLICTS OF INTEREST

The author declares no conflicts of interest related to this publication.

AUTHOR CONTRIBUTIONS

Conceptualization: Mario Ricardo Calderón-Pinzón.

Research: Mario Ricardo Calderón-Pinzón. Data curation: Mario Ricardo Calderón-Pinzón. Methodology: Mario Ricardo Calderón-Pinzón. Visualization: Mario Ricardo Calderón-Pinzón.

Writing - original draft: Mario Ricardo Calderón-Pinzón. Writing - review and editing: Mario Ricardo Calderón-Pinzón.



Este artículo está bajo una licencia Creative Commons Atribución-No Comercial Compartirigual 4.0.