# SYSTEMATIC REVIEW

# Strengthening Civil Registration and Vital Statistics (CRVS) Systems in India: An Investment Case for Governance, Public Health, and Socio-economic Development

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#### **ABSTRACT**

Civil Registration and Vital Statistics (CRVS) systems are essential for ensuring the accurate documentation of vital events, which is critical for effective governance, public health management, and socio-economic development. In India, despite advancements such as Aadhaar, significant gaps remain in CRVS coverage, especially in rural and tribal areas. This paper presents review of existing system as investment case for strengthening CRVS systems in India, highlighting the public health, governance, social, and economic benefits. A robust CRVS system would enhance health data quality, reduce inefficiencies in social protection programs, promote legal identity and social inclusion, and generate significant economic returns. Drawing from global best practices and case studies, this paper demonstrates the long-term benefits and return on investment of CRVS, emphasizing its role in helping India achieve its Sustainable Development Goals (SDGs), particularly SDG 16.9 (legal identity for all). Key recommendations include expanding infrastructure, leveraging digital technologies, and integrating CRVS with existing health and social protection systems.

#### **KEYWORDS**

Civil Registration and Vital Statistics (CRVS), Governance, Public Health, Socio-economic Development.

# **INTRODUCTION**

Civil Registration and Vital Statistics (CRVS) systems are essential for ensuring every citizen is counted and has legal recognition from birth to death. These systems provide critical data for policy-making, governance, public service delivery, and tracking population health and socio-economic dynamics. In India, despite progress in digital identity initiatives such as Aadhaar, CRVS systems face significant gaps, especially in rural and tribal regions where birth and death registrations are often incomplete or delayed.(1, 2).

India's CRVS system currently registers approximately 86% of births and 75% of deaths, leaving a significant portion of vital events unrecorded (3). This gap affects individual access to services and the government's ability to plan and allocate resources effectively. A comprehensive CRVS system is essential for India's progress toward development goals, including the United Nations Sustainable Development Goals (SDGs), particularly SDG 16.9, which calls for legal identity for all by 2030 (4).

Globally, countries that have invested in CRVS systems have seen improvements in public health

outcomes, socio-economic inclusion, and governance efficiency. For India, strengthening CRVS systems presents an opportunity to enhance health data, improve social protection programs, and promote inclusive development while delivering economic benefits.

This paper aims to assess the current state and challenges of India's Civil Registration and Vital Statistics (CRVS) system, with a particular focus on regional disparities in registration coverage. Additionally, it seeks to evaluate the socioeconomic, governance, public health, and economic benefits that can be achieved by strengthening CRVS systems. This paper also aims to propose strategies for improving India's CRVS systems and demonstrate the return on investment by drawing insights from global best practices.

#### **MATERIAL & METHODS**

This study uses secondary data from international organizations such as the World Health Organization (WHO), United Nations Population Fund (UNFPA), World Bank, and India's Office of the Registrar General (ORGI) (5, 6). It also examines scholarly articles on CRVS systems, including works by AbouZahr et al. (7), Mikkelsen et al. (8), and Setel et al. (9), along with country case studies (10). These materials provide insights into the benefits of strong CRVS systems and identify challenges India faces in expanding coverage.

A systematic literature review was conducted to gather relevant studies and reports on Civil Registration and Vital Statistics (CRVS) systems and their impact. The search was performed using databases such as PubMed, Scopus, and Google Scholar, along with official websites of international organizations like the World Health Organization (WHO), United Nations Population Fund (UNFPA), and the World Bank. Keywords including "Civil Registration and Vital Statistics," "CRVS in India," "public health data," "legal identity," "governance and CRVS," and "SDGs and CRVS" were employed, with Boolean operators such as AND, OR, and NOT to refine the search results.

Articles and reports published between 2010 and 2023 were included, focusing on CRVS systems' role in public health, socio-economic development, or governance, as well as global best practices and case studies relevant to India. Exclusions were made for articles not written in English or those that lacked a sufficient focus on CRVS systems or actionable data. Titles and abstracts were screened for relevance, and full-text articles were reviewed to ensure they aligned with the study's objectives. Information such as key findings, methodologies, and recommendations was then extracted and synthesized to support the analysis presented in

this manuscript. Challenges facing India's CRVS system, such as infrastructure deficits, sociocultural barriers, and delayed data collection, are compared with solutions successfully implemented in other countries (12).

#### **RESULTS**

The results highlight the multifaceted benefits of strengthening CRVS systems in India and the gaps that need to be addressed:

# **Public Health Impact**

A comprehensive CRVS system provides critical data for tracking public health outcomes, such as birth rates, mortality rates, and causes of death. India lacks complete data on mortality, especially in rural areas, where many deaths go unrecorded (13). This undermines the government's ability to effectively respond to public health challenges, such as maternal and infant mortality, noncommunicable diseases (NCDs), and disease outbreaks (14). Accurate cause-of-death data is essential for health intervention targeting and evaluating their success (15).

# **Governance and Service Delivery**

CRVS systems are critical for efficient governance, providing accurate demographic data for decision-making, resource allocation, and public service delivery (16). Indonesia, for example, improved CRVS systems to streamline public services and reduce administrative inefficiencies (17). In India, enhanced CRVS data could improve the targeting of social welfare programs like the Public Distribution System (PDS) and Mahatma Gandhi National Rural Employment Guarantee Scheme (MGNREGS), increasing efficiency and ensuring that benefits reach the intended recipients (18).

# **Economic and Social Inclusion**

Legal identity is a prerequisite for accessing essential services like healthcare, education, and social protection. In India, millions of people, especially in rural and tribal areas, remain unregistered and excluded from these services (19). Strengthening CRVS coverage would empower marginalized communities by providing legal identity, facilitating access to essential services, and fostering socio-economic inclusion (20). Birth registration is linked to higher vaccination rates and school attendance, critical for human capital development and long-term economic growth (21). Return on Investment (ROI) and Economic Impact. The economic returns from investing in CRVS systems are substantial. A World Bank analysis reveals that strong CRVS systems can lead to significant cost savings by reducing the need for expensive household surveys, improving tax collection, and minimizing fraud in social protection programs (22). By better targeting beneficiaries,

India could reduce inefficiencies and potential fraud in its major welfare schemes which currently face challenges related to duplicate or fake beneficiaries. This could save billions of rupees each year, improving program efficiency and reducing unnecessary government expenditure (23, 24). Additionally, formalizing the legal identity of individuals through CRVS would enable more people to enter the formal economy, boosting tax revenues and promoting economic growth (25). Economic growth would be further supported by better healthcare outcomes resulting from improved health data, as healthier populations are more productive and can contribute to the economy for longer (26, 27). Research shows that better CRVS systems reduce healthcare costs by enabling more effective targeting of public health interventions, thus reducing long-term healthcare expenditures (28).

CRVS also supports long-term economic planning. Accurate demographic data helps governments anticipate future needs in areas like education, labour markets, healthcare, and infrastructure, enabling more strategic investments that drive growth (29). For instance, better birth and mortality data would allow India to forecast workforce trends more effectively, ensuring that economic policies are aligned with future labour demands (30).

Achieving Sustainable Development Goals (SDGs) CRVS systems are essential for achieving SDG 16.9, which mandates legal identity for all by 2030 (31). Strengthening CRVS in India will not only help achieve this target but also contribute to other SDGs, such as poverty reduction (SDG 1), health and well-being (SDG 3), and gender equality (SDG 5) (32). The data generated from CRVS will enable India to track progress across various development goals, helping to ensure that no one is left behind in its development trajectory (33).

Table 1: Structured CRVS System Enhancement and Return Of Investment Framework for strengthening Civil Registration and Vital Statistics (CRVS) systems in India.

	Suggested Actions	Target Sectors	Anticipated Outcomes	Return on Investment (ROI)
Infrastructure	- Establish	Public Health,	Improved access to	Reduced
	registration centers	Governance, Social	registration services and	administrative costs
	in rural/tribal areas - Deploy mobile	Protection	better data coverage	and higher registration completeness
	registration units for			
	remote access			
Digital	- Develop a	Governance,	Streamlined data entry,	Cost savings in data
Integration	unified digital CRVS	Public Health,	reduced duplication, and	management, reduced
	platform - Link CRVS with national ID	Social Services	real-time tracking of vital events	service delays
	(Aadhaar) and health systems			
Human	- Train local	Governance,	Higher quality data	Improved service
Resource	registrars and health	Public Health,	collection, timely updates,	delivery and enhanced
Training	workers on CRVS protocols	Social Protection	and accurate reporting	targeting in social programs
	- Enhance data			
	analysis and			
	reporting skills at			
	local levels - Launch	Education, Social	Increased awareness,	Social inclusion
Awareness	campaigns on	Protection	higher registration rates in	benefits and reduced
Campaigns	importance of	FIOLECTION	underserved communities	inequality in service
Campaigns	birth/death		anderserved communities	access
	registration			uccess
	- Use mass media			
	and community			
	engagement for			
	outreach			
Policy and	- Mandate timely	Governance,	Stronger legal	Better-targeted
Legislative	birth and death	Social Protection	framework, incentivized	social benefits and
Reforms	registration		-	reduction in fraud

	Suggested Actions	Target Sectors	Anticipated Outcomes	Return on Investment (ROI)
	- Link social		compliance, and timely	
	benefits to CRVS compliance		updates	
Health Sector Integration  Monitoring &	- Automate birth and death notifications from health facilities	Public Health, Governance	Real-time data on health outcomes and mortality, improved health intervention tracking	Reduced survey costs, better-targeted health interventions
	- Train health workers for event recording in CRVS - Implement	Governance,	Improved accuracy and	Higher ROI through
Evaluation	continuous monitoring systems - Regular	Social Services	coverage through data validation	data reliability and actionable insights
	assessments on CRVS data quality			

#### **DISCUSSION**

Investing in Civil Registration and Vital Statistics (CRVS) systems is critical for driving inclusive growth, improving governance, and enhancing public health outcomes in India. Despite excellent progress in digital identity initiatives such as Aadhaar, significant gaps remain in India's CRVS coverage, particularly in rural and tribal regions (34). Strengthening CRVS offers considerable benefits across multiple sectors, from reducing healthcare costs to improving the efficiency of social protection programs.

# A. Public Health Impact

A robust CRVS system will dramatically improve India's ability to monitor and respond to public health issues. Real-time data on births, deaths, and causes of death will enable more effective health interventions, helping to reduce maternal and infant mortality and better manage non-communicable diseases (NCDs) (35). The COVID-19 pandemic has underscored the importance of timely data in managing public health crises (36). Strengthening CRVS will help India track health trends more accurately and allocate resources where they are most needed (37).

# **B.** Governance and Efficiency

CRVS systems are essential for improving governance efficiency. They provide accurate demographic data, allowing governments to allocate resources more effectively and deliver public services more efficiently (38). Enhanced CRVS coverage will allow India to reduce fraud and inefficiencies in social protection programs, ensuring that benefits are targeted at the right beneficiaries (39). For instance, accurate death registration would prevent fraudulent claims for pensions or subsidies made in the names of deceased individuals, thus saving public funds (40).

#### C. Economic and Social Inclusion

CRVS systems foster social inclusion by providing individuals with a legal identity, enabling them to access essential services. Expanding CRVS coverage, especially in rural and tribal areas, will empower marginalized communities, improve access to services, and support economic development. Birth registration is linked to higher vaccination rates and school attendance, key drivers of human capital development and long-term economic growth (41, 42).

# D. Economic Benefits and ROI

The economic benefits of investing in CRVS systems are substantial. Improved CRVS data will enable more effective public health interventions, reducing healthcare costs and increasing productivity. By formalizing the legal identity of citizens, CRVS systems also promote labor market participation, boosting tax revenues and economic growth (43). Furthermore, the cost savings achieved by reducing fraud and inefficiencies in social protection programs are significant. Strengthening CRVS would save billions of rupees annually by improving program targeting and reducing leakage (44).

# E. Achieving the Sustainable Development Goals (SDGs)

CRVS systems are critical for helping India achieve its SDG commitments, particularly SDG 16.9, which calls for legal identity for all (45). However, CRVS systems also support other SDGs, including poverty reduction (SDG 1), good health (SDG 3), and gender equality (SDG 5) (46). Investing in CRVS will ensure that India remains on track to meet its SDG targets while fostering inclusive and equitable development (47).

# RECOMMENDATION

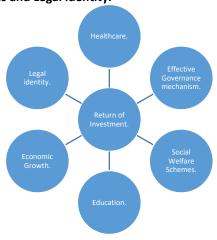
To fully realize the benefits of an enhanced CRVS system, India must focus on key areas of

investment. Expanding infrastructure, particularly in rural and remote areas, is essential. Digital technologies should be leveraged to automate registration processes and improve data accuracy. Public awareness campaigns are needed to educate citizens about the importance of registering births and deaths. Lastly, integrating CRVS with health, education, and social protection systems will ensure that vital events are recorded as part of routine service delivery, improving coverage and data reliability.

#### **CONCLUSION**

In conclusion, investing in CRVS is not only a public health and governance necessity but also an economic imperative. A well-functioning CRVS system will provide the foundation for more efficient governance, better public services, and greater social and economic inclusion. With the right investments and policies, India can build a comprehensive CRVS system that drives its development forward and ensures that every citizen is counted.

Figure 1: CRVS investment impacts sectors such as Healthcare, Governance, Economic Growth, Education, Social Protection, welfare schemes and Legal Identity.



#### **AUTHORS CONTRIBUTION**

All authors have contributed equally.

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#### **CONFLICT OF INTEREST**

There are no conflicts of interest.

# DECLARATION OF GENERATIVE AI AND AI ASSISTED TECHNOLOGIES IN THE WRITING PROCESS

The authors haven't used any generative AI/AI assisted technologies in the writing process.

#### **REFERENCES**

- AbouZahr C, Cleland J, Coullare F, Macfarlane SB, Notzon FC, Setel P, et al. A global assessment of civil registration and vital statistics systems. Lancet. 2015 Oct 3;386(10001):1395-406.
- UNICEF. Strengthening civil registration and vital statistics for births, deaths, and causes of death. Geneva: WHO; 2013. <a href="https://www.unicef.org/reports/strengthening-civil-registration">https://www.unicef.org/reports/strengthening-civil-registration</a>. (Accessed on 12 Dec. 24)
- Office of the Registrar General of India. Vital statistics of India based on the civil registration system. New Delhi: ORGI; 2020. Available at: <a href="https://censusindia.gov.in/nada/index.php/catalog/42542">https://censusindia.gov.in/nada/index.php/catalog/42542</a> (Accessed on 12 Dec. 24)

- United Nations. Transforming our world: the 2030 agenda for sustainable development. New York: United Nations; 2015. Available at: <a href="https://sdgs.un.org/2030agenda">https://sdgs.un.org/2030agenda</a> (Accessed on 12 Dec. 24)
- The World Bank. Identification for development (ID4D) global dataset. Washington, DC: World Bank; 2021. https://id4d.worldbank.org/ (Accessed on 12 Dec. 24)
- World Health Organization. Global health statistics and civil registration systems. Geneva: WHO; 2014. Available at: <a href="https://www.who.int/data/gho/data/themes/topics/civil-registration">https://www.who.int/data/gho/data/themes/topics/civil-registration</a> (Accessed on 12 Dec. 24)
- Setel PW, Phillips DE, de Savigny D. A new era for vital statistics and civil registration systems. Lancet. 2015;386(10001):1395-406.
- Mikkelsen L, Phillips DE, AbouZahr C, Setel PW, de Savigny D, Lozano R, et al. Monitoring data quality and progress: civil registration and vital statistics systems. Lancet. 2015;386(10001):1395-406.
- UNICEF. Bangladesh: achieving universal birth registration.
   UNICEF; 2020.
   <a href="https://www.unicef.org/bangladesh/en/stories/achieving-universal-birth-registration">https://www.unicef.org/bangladesh/en/stories/achieving-universal-birth-registration</a> (Accessed on 12 Dec. 24)
- World Bank. Civil registration and vital statistics in the digital age. Washington DC: World Bank; 2020. https://documents1.worldbank.org/curated/en/5023015 51361084705/pdf/Civil-Registration-and-Vital-Statistics-CRVS-in-the-Digital-Age.pdf (Accessed on 12 Dec. 24)
- Phillips DE, Setel PW, AbouZahr C. The critical role of civil registration and vital statistics systems. Lancet. 2015;386(10001):1395-406. h
- United Nations Population Fund (UNFPA). The role of CRVS systems in achieving the SDGs. New York: UNFPA; 2021. <a href="https://www.unfpa.org/sites/default/files/pub-">https://www.unfpa.org/sites/default/files/pub-</a>

- pdf/UNFPA CRVS The Role of CRVS in Achieving the SDGs.pdf (Accessed on 12 Dec. 24)
- 13. UNICEF. Achieving universal birth registration in Bangladesh. UNICEF; 2020. <a href="https://www.unicef.org/bangladesh/en/stories/achieving-universal-birth-registration">https://www.unicef.org/bangladesh/en/stories/achieving-universal-birth-registration</a> (Accessed on 12 Dec. 24)
- Office of the Registrar General of India. Population and vital statistics report. New Delhi: ORGI; 2020. <a href="https://censusindia.gov.in/vital statistics.html">https://censusindia.gov.in/vital statistics.html</a> (Accessed on 12 Dec. 24)
- 15. WHO and UNICEF. Progress on health-related SDGs through CRVS systems. New York: UNICEF; 2021. https://www.who.int/publications/i/item/978924001224 5 (Accessed on 12 Dec. 24)
- United Nations Economic and Social Commission for Asia and the Pacific (ESCAP). Civil registration systems in South Asia. Bangkok: ESCAP; 2019. <a href="https://www.unescap.org/resources/civil-registration-vital-statistics-progress-report">https://www.unescap.org/resources/civil-registration-vital-statistics-progress-report</a> (Accessed on 12 Dec. 24)
- The World Bank. Identification for development and health outcomes. Washington DC: World Bank; 2021. Available at: <a href="https://id4d.worldbank.org">https://id4d.worldbank.org</a> (Accessed on 12 Dec. 24)
- Phillips DE, Lozano R, Setel PW. Making universal civil registration and vital statistics systems a reality. Lancet. 2015;386(10001):1395-406.
- The World Bank. Strengthening identification systems for service delivery in LMICs. Washington DC: World Bank; 2020.
   https://documents.worldbank.org/en/publication/documents-reports/documentdetail/2934314681

   77192764/strengthening-identification-systems-forservice-delivery-in-low-and-middle-income-countries (Accessed on 12 Dec. 24)
- WHO. Vital registration systems for health systems improvement. Geneva: WHO; 2019. <a href="https://www.who.int/healthinfo/civil registration/en/">https://www.who.int/healthinfo/civil registration/en/</a> (Accessed on 12 Dec. 24)
- UNICEF. Vital statistics systems and global health. Geneva: WHO; 2014. <a href="https://www.unicef.org/reports">https://www.unicef.org/reports</a> (Accessed on 12 Dec. 24)
- Setel PW, Macfarlane SB, Szreter S, Mikkelsen L, Jha P, Stout S, et al. A scandal of invisibility: making everyone count by counting everyone. Lancet. 2007;370(9601):1569-77.
- United Nations. Legal identity for all: A roadmap to 2030.
   New York: United Nations; 2020.
   <a href="https://unstats.un.org/legal-identity-agenda">https://unstats.un.org/legal-identity-agenda</a> (Accessed on 12 Dec. 24)
- The World Bank. Global dataset on identification for development (ID4D). Washington DC: World Bank; 2021. <a href="https://id4d.worldbank.org/global-dataset">https://id4d.worldbank.org/global-dataset</a> (Accessed on 12 Dec. 24)
- UNFPA and WHO. The case for investment in civil registration and vital statistics systems. New York: UNFPA;
   2022. Available at: <a href="https://www.unfpa.org/publications">https://www.unfpa.org/publications</a> (Accessed on 12 Dec. 24)
- WHO. The case for CRVS in health interventions. Geneva: WHO; 2022. https://www.who.int/publications/i/item/978924001224 5 (Accessed on 12 Dec. 24)
- UNDP. Economic impacts of CRVS systems in low-income countries. New York: UNDP; 2022. https://www.undp.org/publications
- The World Bank. Targeting social protection programs through better CRVS systems. Washington DC: World Bank; 2021. https://documents.worldbank.org/en/publication/docum
- ents-reports (Accessed on 12 Dec. 24)
  29. UNFPA. CRVS as a foundation for economic growth in South Asia. New York: UNFPA; 2021. Available at:

- https://www.unfpa.org/publications (Accessed on 12 Dec. 24)
- WHO. CRVS and public health outcomes: Global report. Geneva: WHO; 2021. <a href="https://www.who.int/publications">https://www.who.int/publications</a> (Accessed on 12 Dec. 24)
- ESCAP. Digital innovations in CRVS systems. Bangkok: ESCAP; 2022. <a href="https://www.unescap.org/publications">https://www.unescap.org/publications</a> (Accessed on 12 Dec. 24)
- UNDP. Gender equality and legal identity through CRVS systems. New York: UNDP; 2022. <a href="https://www.undp.org/publications">https://www.undp.org/publications</a> (Accessed on 12 Dec. 24)
- 33. The World Bank. CRVS in the context of economic development. Washington DC: World Bank; 2021. <a href="https://www.worldbank.org/en/topic/health/publication/civil-registration">https://www.worldbank.org/en/topic/health/publication/civil-registration</a> (Accessed on 12 Dec. 24)
- WHO. Building resilient CRVS systems for future pandemics. Geneva: WHO; 2021. <a href="https://www.who.int/publications">https://www.who.int/publications</a> (Accessed on 12 Dec. 24)
- 35. UNFPA. Long-term economic planning through CRVS systems. New York: UNFPA; 2022. <a href="https://www.unfpa.org/publications">https://www.unfpa.org/publications</a> (Accessed on 12 Dec. 24)
- The World Bank. Fraud reduction in social programs via CRVS. Washington DC: World Bank; 2022. <a href="https://documents.worldbank.org/en/publication/documents-reports">https://documents.worldbank.org/en/publication/documents-reports</a> (Accessed on 12 Dec. 24)
- ESCAP. Enhancing data accuracy through integrated CRVS systems. Bangkok: ESCAP; 2022. <a href="https://www.unescap.org/publications">https://www.unescap.org/publications</a> (Accessed on 12 Dec. 24)
- UNDP. The case for digital CRVS systems in the global south. New York: UNDP; 2022. <a href="https://www.undp.org/publications">https://www.undp.org/publications</a> (Accessed on 12 Dec. 24)
- WHO. Improving maternal and infant mortality data through CRVS. Geneva: WHO; 2021. <a href="https://www.who.int/publications">https://www.who.int/publications</a> (Accessed on 12 Dec. 24)
- The World Bank. The role of CRVS in formalizing economies. Washington DC: World Bank; 2022. https://www.worldbank.org/en/topic/health/publication/ civil-registration(Accessed on 12 Dec. 24)
- 41. UNFPA. CRVS systems as drivers of inclusive growth. New York: UNFPA; 2022. <a href="https://www.unfpa.org/publications">https://www.unfpa.org/publications</a> (Accessed on 12 Dec. 24)
- 42. WHO. The cost benefits of CRVS for health systems. Geneva: WHO; 2021. <a href="https://www.who.int/publications">https://www.who.int/publications</a> (Accessed on 12 Dec. 24)
- UNDP. Social inclusion through better CRVS systems. New York: UNDP; 2022. <a href="https://www.undp.org/publications">https://www.undp.org/publications</a> (Accessed on 12 Dec. 24)
- The World Bank. Efficiency gains in social protection programs through CRVS. Washington DC: World Bank; 2021. https://www.worldbank.org/en/topic/health/publication/
  - civil-registration (Accessed on 12 Dec. 24)
    WHO Strengthening legal identity frameworks through
- WHO. Strengthening legal identity frameworks through CRVS. Geneva: WHO; 2021. <a href="https://www.who.int/publications">https://www.who.int/publications</a> (Accessed on 12 Dec. 24)
- UNFPA. Addressing inequalities through CRVS systems.
   New York: UNFPA; 2022.
   <a href="https://www.unfpa.org/publications">https://www.unfpa.org/publications</a> (Accessed on 12 Dec. 24)
- WHO. The intersection of CRVS systems and the SDGs. Geneva: WHO; 2022. <a href="https://www.who.int/publications">https://www.who.int/publications</a> (Accessed on 12 Dec. 24)