

Sierra Leone Data Governance Framework

Baseline Study Findings

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National Data Governance Framework for Sierra Leone

Country Development Overview





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Sierra Leone Development Overview

Open Government: Progress

- Sierra Leone has sustained Middle OGD status
- Establishing the structural and legal foundations for a comprehensive Open Data Initiative;
- Strengthening mechanisms for enhanced institutional engagement with local authorities
- Setting up regulatory sandboxes in digital technologies

Recent Trends

Open Government Development Index							
Year	OGDI Group	OGD Index					
2022	Middle OGDI	0.3718					
2020	Middle OGDI	0.6271					

Open Data Inventory Rankings							
Year	ODIN Score	Global Rank					
2022	49	102/195					
2020	41	128/195					

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Sierra Leone (Value)

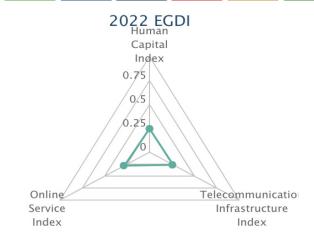


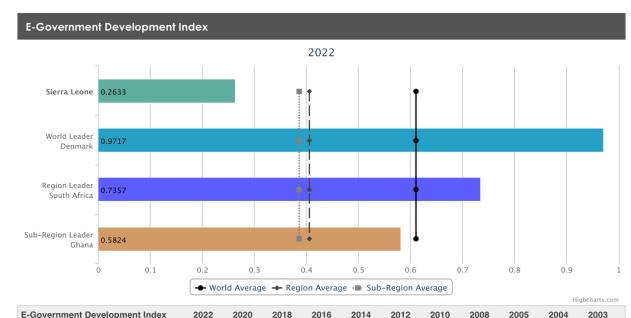
Sierra Leone Development Overview

E: Government: Progress

 Sierra Leone has a clear agenda for improving the e-Government landscape

- Strengthening institutional frameworks for e-Government development
- Sierra Leone has remained below subregion average of the UN's EDGI
- Global ranking 185/193





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Sierra Leone Digital and Open Data Journey

1996 1st internet connection		2006 1 st Telecom Act		2007 1 st National ICT Policy		2013 Launch of ACE Fibre RAIC Act		2021 NDDS Cyber Act	
	2000 1 st GSM Mobile Network		2007 MoIC Established		2011 Launch of 3G		2016 Launch of ECOWAN Fibre NCRA Act NSDS		2023 SLDTP

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Data Governance Analysis Framework



Pillar-Mapping of Data Governance Elements

Elements Pillars P	Data Standards and Classification	Data Sharing, Exchange and Interoperability	Data Security	Data Privacy	Link with Personal ID
Policy					
Institutions					
People					
Processes					

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Desk Review Results





Mapping of National Data Governance Related Documents with Pillars and Elements											
Policy Document	Туре	Pol	Inst	Peo	Pro	DS&C	DSE&I	DS	DP	DI	DLPI
Statistics Act 2002	Legislation	Υ	Υ	Р	Р						
Rights to Access Information Act 2013	Legislation	Υ	Υ	Р	Р						
National Strategy for Development of Statistics	Policy/Strategy	Υ	Υ	Р	N						
National Civil Registrations Act 2016	Legislation	Υ	Υ	Р	N						
National Records and Archives Act 2017	Legislation	Υ	Р	Р	N						
Sierra Leone Open Data Policy 2017	Policy/Strategy	Υ	Р	N	N						
National ICT Policy 2017	Policy/Strategy	P	Р	N	N						
National Digital Health Strategy (2018-23)	Policy/Strategy	Υ	Υ	Р	N						
Electronic Transactions Act 2019	Legislation	Υ	Р	Р	N						
National Innovation and Digital Strategy 2019	Policy/Strategy	P	N	N	N						
National Digital Development Policy 2020	Policy/Strategy	P	Р	N	N						
Cybersecurity and Crime Bill 2021	Legislation	Υ	Р	Р	N						
National Communications Act 2022	Legislation	Υ	Υ	Р	N						
Sierra Leone Digital Health Roadmap 2024	Policy/Strategy	Υ	Υ	Р	N						
Open Government Partnership Action Plan	Policy/Strategy	Υ	Р	N	N						



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Pillar-Element Mapping: Institutions	
Name of Institution	Туре
Min. of Comm, Tech & Innovation	Policy/Strategy
Min. of Info. & Civic Education	Policy/Strategy
Statistics Sierra Leone	Implementation
National Communications Authority	Regulation
National Civil Registration Authority	Delivery
National Social Security & Insurance Trust	Implementation
Right to Access Information Commission	Implementation
Universal Access Development Fund	Implementation
National Council for Civic Educatoin & Dev.	Implementation
Department of Science, Technology & Innov.	Policy/Strategy

The listed institutions are national level institutions

Other sector level institutions and local Government also involved in data management

The private sector also involved in data Management





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Pillar-Element Mapping: People	
Position or Title	Туре
Min. of Comm, Tech & Innovation	Political Leadership
Minister of Info. & Civic Education	Political Leadership
Statistician General	Administrative Leadership
Director General NATCA	Administrative Leadership
Director General, NCRA	Administrative Leadership
Director General, NASSIT	Administrative Leadership
Chairman, RAIC	Administrative Leadership
CEO, UADF	Techical/Professional Leadership
Chairmain, NACCED	Techical/Professional Leadership
Director, DSTI	Techical/Professional Leadership
National Cybersecurity Coordinator	Techical/Professional Leadership

The listed persons are national level leaders

Other sector level leadership and local Government also involved in data governance

The private sector leaders also involved in data governance

Division For Public Institutions And Digital Government National Data Governance Framework for Sierra Leone



Ongoing Digital Development Processes

World Bank

Sierra Leone Digital Transformation Programme (SLDTP)

GPSDD

Global Partnership for Sustainable Development Data

OGP

Open Government Partnerships

Multi-Partner

UNCT, Digital Impact Alliance, Smart Africa, ECOWAS, African Union





Survey and Interview Findings

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Questionnaires issued

75% or more Responded Yes or Partially

Up to 50% Responded Yes or Partially

Up to 25% Responded Yes or Partially

Less than 25% Responded Yes or Partially



Responses Received



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Pillar-Element Mappi	ng: Data S	tandards	and Clas	sification	1	
Pillars/Processes	DS&C	DSE&I	DS	DP	DI	DLPI
Policy						
Institutions						
People						
Processes						

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Data Standardisation and Classification

Policies	Institutions
 Existing but largely outdated and relatively incomplete legal, regulatory and policy frameworks for data standardisation and classification Lack of clear internal policies on data classification and standardisation No evidence of documented data formats and structures People	 Statistics SL is the principal institution for national data management SSL's mandate has not evolved into clearly handling universal data standardisation governance and is primarily in data management Most institutions do not have internal units with data standardisation and classification responsibilities Processes
 Limited Government MDAs have specialised internal data management personnel, with focus on statistical data No evidence of designated persons with responsibility for data classification or standardisation 	With the exception of SSL, almost all MDAs do not have clearly defined processes for data classification and standardisation



Pillar-Element Mappi	ng: Data	Sharing, Ex	change	and Inter	operabili	ity
Pillars/Processes	DS&C	DSE&I	DS	DP	DI	DLPI
Policy						
Institutions						
People						
Processes						
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Division For Public Institutions And Digital Government

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Data Sharing and Interoperability

Policies	Institutions
 Most MDAs have some form of policy to share data, especially with other Government MDAs Most MDAs are familiar with provisions of RAI requirements to disclosure and data sharing Because many MDAs do not have digital data storage systems, the question of interoperability hardly occurs 	 There are no internal organs or units in almost all MDAs that handling data sharing functions NCRA and RAIC are the leading Government institution that established organs that handle data sharing functions NCRA and the MOH have established digital systems that support electronic data sharing
People	Processes
 Limited Government MDAs have personnel, with the mandate and capacity to effectively handle data sharing No evidence of designated persons with responsibility for data sharing 	 NCRA has signed MoUs with many MDAs for sharing and exchange of data. The processes are still in development stages Across most MDAs there are no clearly defined processes for requesting, sharing or exchanging data between Government bodies The processes for RAI are also not very clear

Pillar-Element Mappin	ecurity					
Pillars/Processes	DS&C	DSE&I	DS	DP	DI	DLPI
Policy						
Institutions						
People						
Processes						

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Data Security and Protection

Policies	Institutions
 Existing national laws on cybersecurity, with provisions aimed at preventing and combating cybercrime Lack of clear internal policies on how to achieve and ensure data security/protection for Government institutions No evidence of documented data security policies and measures 	 NCCC is the principal institution for national cybersecurity measures NCCC's mandate in governing data security at individual organisational levels is not clearly defined in the Act The NCCC's current mandate focuses on cybercrime more than data security and protection Most institutions do not have internal units with data security and protection responsibilities
People	Processes
 Limited Government MDAs have specialised internal personnel with capacity to manage digital data security and protection measures No evidence of designated persons with responsibility for data security and protection 	 The ICT cadre within most MDAs apply some measures aimed at wider IT systems security There are not clearly defined processes superficially focused on data security and protection



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Pillar-Element Mappi	ng: Data F	Privacy				
Pillars/Processes	DS&C	DSE&I	DS	DP	DI	DLPI
Policy						
Institutions						
People						
Processes						

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Data Privacy

Institutions
 There is not nationally recognised institution that is legally responsible for defining governance frameworks for data privacy Most institutions do not have internal units with data privacy responsibilities
Processes
 Most organisations implement data privacy measures by refusal to grant access to or share PII data, rather than implement measures that allow consensual access There are not clearly defined processes superficially focused on data privacy compliance and monitoring

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Pillar-Element Mappi	ng: Data I	nfrastruc	ture			
Pillars/Processes	DS&C	DSE&I	DS	DP	DI	DLPI
Policy						
Institutions						
People						
Processes						
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Data Infrastructure

Policies	Institutions
 The National Digital Development Policy of 2021 provides a framework for whole-of-government data infrastructure development The <u>Sierra Leone Digital Transformation Project</u> includes activities aimed at improving the policy framework for digital data infrastructure Other ongoing interventions seek to improve data infrastructure in Government 	 The MoCTI is the principal institution for national Government data infrastructure governance Most Government MDAs have designated ICT Units that handle digital and data infrastructure There are ongoing discussions about the establishment of a National Digital Development Agency to improve effectiveness in national data infrastructure management
People	Processes
 The Communications Director within the MoCTI takes technical and professional leadership on digital infrastructure across Government There is an ICT cadre across Government, which embeds designated ICT Officers within Government institutions at national and local government levels 	 There are processes in place for data infrastructure policy implementation at individual level However, there is little evidence of how national level policies cascade to sector institution levels and how the infrastructure management at these levels are nitored

Pillar-Element Mappi	ng: Linkin	g Data wi	th Naito	nal ID		
Pillars/Processes	DS&C	DSE&I	DS	DP	DI	DLPI
Policy						
Institutions						
People						
Processes						
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Linking Data to Personal ID

Policies	Institutions
 The National Civil Registration Act of 2016 provides a framework for registration of citizens and residents, establishment of an integrated national civil registration system and sharing of data sharing and interactions with other digital information systems Recent policy announcements that require mandatory linking of national ID numbers to Government services 	registration and management of personal ID and serve as the single source of 'root-identity'
People	Processes
 The Director General NCRA is mandated by law to lead day-to-day administration of the institution Some Government Agencies have designated personnel to ensure compliance with these policies, while many still do not have 	 While some Government agencies are now making it a requirement to present National ID before receiving services, there are no clear processes of and logical framework for linking institutional data with national ID

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Country SWOT Analysis





Strengths	Challenges
 An understanding of data governance, with a clear vision and objectives for improving e-Government 	 Lack of functional coordinated actions at sectoral and national levels for data governance.
 Recognition of need for a whole-of-government approach and coordination in digital governance. 	 Absence of dedicated data governance practice leaders or stewardship at institutional as well as sector or national level
 Visible political leadership and institutional framework in digital development. 	 Lack of legislation for data privacy and data protection legal frameworks
 Government invested in substantial fibre optic cable network – a key driver of national digital data 	 Lack of awareness among the populace on the principles of data privacy, security
 Ambition to take global leadership in the design and implementation of these data infrastructure systems using state-of-the-art technologies in collaboration with both established global 	 Limited capacity to operational open data laws and policies
companies and regional start-ups.	 Cybersecurity pays greater focus on criminal enforcement than security measures







Opportunities	Threats
 Strong commitments from World-Bank-IDA to support data infrastructure within Government International capacity-building support such as from Global Cybersecurity Capacity Centre (GSCCC), ITU, and Foreign and Commonwealth Office. 	 Gaps in funding levels to match investment requirements Lack of other underpinning and ancillary technologies such as electricity, broadband and data storage Low purchasing power of the population, constraining access to reliable, uninterrupted internet services
 Various African countries and regional institutions, including the AU, ECOWAS MRU have policies on ICT, e-governance, and digitization, which can be domesticated Sierra Leone Collaboration with both established global companies and regional start-ups. 	Vulnerabilities for cyber-attacks – DDOS, Phishing, Identity Theft etc

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