Sl.No	Outcome	Output	KPIs	Data source
1	Bhutan's public sector is more dynamic, results-oriented agent of transformation, demonstrating effectiveness, accountability and robust management of the economy.	Digital Ecosystem is strengthened to drive transformation	1. Public satisfaction rating of >4.5 by 2029	Service feedback assessment report
			2. 10% government operating cost reduced by 2029	Administrative records
			Al Maturity Level increase to Level 4 - Systemic by 2029	Capability Assessment Report
			4. Doctors and HAs treat 100% of patients through ePIS by 2029.	Survey report, MoH
			5. Digital Economy contribution of USD 300 million by 2029	Administrative Records
	1		6. 5000 quality jobs by 2029	Administrative records
	1		7. Data Economy established by 2029 (Health, Climate & Agriculture)	Open data sharing platform, GovTech
			8. 100,000 citizens know how to productively and safely use digital services by 2029	Administrative Records
9			9. Improve cyber security maturity level from Level 1: start-up to level 4: strategic by 2029	Assessment Report, ITU/Self assessment Report, GTA

l.No.	Goals or Projects	KPIs	Baseline (Figure/level/Score & year)	13th plan Target	Remarks
	Digital Governance	1. Public satisfaction rating of >4.5 by 2029	4.101 (2021)	>4.5	
		2. 10% government operating cost reduced by 2029	NA	10%	
		3. AI Maturity Level increase to Level 4 - Systemic by 2029	Level 1 - Aware	Level 4: Systemic	
		4. Doctors and HAs treat 100% of patients through ePIS by 2029.	Base line 22.6% (2024)	100 %	
	Digital Economy	Digital Economy contribution of USD 300 million by 2029	119 million USD \$ (2023)	300 million USD \$	
		2. 5000 quality jobs by 2029	3572 (2023)	5000	
		3. Data Economy established by 2029 (Health, Climate & Agriculture)	0	3 Sectors	
	Digital Society	1. 100,000 citizens know how to productively and safely use digital services by 2029	12,039 (2023)	100,000	
		2. Improve cyber security maturity level from Level 1: start-up to level 4: strategic by 2029	Level 1: start-up	level 4: strategic	

Project 1: Stro Digital Govern	engthening the nance					
Goals	KPIs	Key activities	Sub-activities	Description of activities	Lead Agency/Division	Collaborating Agency/division
Digital Governance	1. Public satisfaction rating of >4.5 by 2029	Develop secure and resilient public services	Implement priority services with fees for online services	Options for service availers to obtain service with fee after office hours (eg. off hour clinic and Medical certificate service).     Existing online service can be fast tracked by means of fees.	PSGRD	Concerned service owner + GovTech Agency (for tech support)
			Develop and deploy Citizen Services Technology enabled Call Center	Creating a Bhutan Chat Bot for PSD 1. Training data 2. Feeding national policy data and FAQ's 3. Testing and Roll out 4. Enabled IVR	DDT, GovTech	PSGRD, Cabinet, DSAI
			Develop Business Continuity Plan (BCP) for key service with the aim to provide Service Available 24x7	Development of a document for all 90 PSD Services specifying how they will delivery services when we are in offline mode	PSGRD, Cabinet/DDT	DDT,GovTech Agency Service Owner
		process across the NDI Walle credentials  Increase the us Bhutan NDI Walle credentials  Develop secure and resilent infrastructure  Secure & Resi	Implement passwordless authentication process across all government systems using the NDI Wallet for the Issuance of verifiable credentials	I. Integrate the remaining eGov systems with NDI.     Ensure that all new systems comply with NDI wallet integration by including it in the eGov Approval checklist.	WoG, Govtech	DDT, GovTech Agency Service Owner
			Increase the usage of Verifiable Credentials in Bhutan NDI Wallet		WoG, Govtech	DDT,GovTech Agency Service Owner
			Secure & Resilient connectivity	Strengthening the reliability and security of the Government Initiated Network. For better services delivery there is need for reliabile network until the last community centers, and also there is needs for governemt systems to be accessble through the Govt Network even if internet is down. There is also need for affordable internet to our citizents for availing these services (details reflected in under enablers)	GovNet/ DoTs GovTech	GovNet/ DoTs GovTech Agency
			Secure & Resilient Data Center	Strengthening the reliability and security of the Government Data Center     Establishment of Active Disaster Recovery (details reflected in under enablers)	Cloud Services Division, GovTech	DSD/DSOM/Cloud /WoG/GovNet/Cyb er Security
			Secure Government Application	All Government applications are secured following standard cybersecruity practices or prescribed measures	DSD/Cyber	DSD/DSOM/Cloud /WoG/GovNet/Cyb er Security

Project 1: Stren Digital Governa						
Goals	KPIs	Key activities	Sub-activities Sub-activities	Description of activities	Lead Agency/Division	Collaborating Agency/division
		Re-enginer public servcie delivery	Development of blueprint for public service delivery for both citizens and businesses	Conduct an EA on PSD services and draw a future state	DDT,GovTech	PSGRD, Cabine Agencies
			Develop robust PSD Monitoring and Evaluation	Develop mechanism for evaluation and monitoring of TATs and Standards by implement the Assessment of service delivering agencies through Service Evaluation Tools	RCSC	PSGRD, Cabine DDT, GovTech Agency
			Optimise and re-engineer public service delivery processes and systems top 30 Services	Collaborate with RIM/Pvt Sector/University to apply design thinking principle to transform and improve existing services.     Conduct gap analysis to simplify process and steps -Automation of approval and renewal of services -Automated renewal services	PSGRD, Cabinet DDT, GovTech	DDT,GovTech Agency
			Optimise and re-engineer public service delivery in Thromday and LGs	Currently there different systems in different thromde providing same services there are total of 27 services across 4 throm adding high cost of maintenance and fragmented services  1. Conduct an EA at the Thromde/ LG level  2. Develop and Thromde/ LG ERP	DDT GovTech	PSGRD, Cabine Thromde and LC
			Develop Digital Service Standards	Review and publish TAT and SOP for Technical Services Provided - Develop and Publish DSS	DDT,GovTech	PSGRD, Cabine Agencies

Project 1: Stre Digital Govern	engthening the					
Goals	KPIs	Key activities	Sub-activities	Description of activities	Lead Agency/Division	Collaborating Agency/division
			Introduce Emerging Technology in PSD	I. Introduce RPA- For systems that has clear eligibility checklist (eg:Trade, Scholarship, admision,)     2. IOT- Using IoT devices to collect real-time data for monitoring public infrastructure and services: Using IoT to help MoIT, Thromde and local governments in better maintenance of structural health of bridges, tunnels, and other critical infrastructure.     3. AI- Implementing AI/ML to automate routine tasks such as implementing AI in Job Portals for RCSC and MoICE, introducing AI to extract relevant information from submitted documents like identification papers, tax forms, or permits, reducing the need for manual data entry and verification in different RGoB systems	ETD, GovTech	PSGRD, Cabinet Agencies
			Establish citizen feedback mechanisms and improve citizen engagement platforms	Collaborate with PSGRD to revive and strengthen existing eDesk and eKaasel feedback systems or develop a new Citizen engagement portal assessment     Use AI web scraping to collect public grievance and provided targeted intenvision	PSGRD, Cabinet Agencies	DDT,GovTech Agency
		corpus and integrate a text- to-speech feature on local languages, and automate	Increase the number of Online Services	Processmaping for the 37 offline Services     Automate the 37 Offline Services	PSGRD, Cabinet Agencies	DDT,GovTech Agency
			Develop dzongkha corpus	Development of dzongkha corpus so that services can be made available in dzongkhag This will make services Accessible in Dzongkha/	DCDD	DSAI, GovTech Agency
			Develop Voice features based on the local language/s	Conversion of key public facing services to have features for Text to Speech	DDT	PSGRD, Cabinet Agencies/DSAI/DD C

oals	KPIs	Key activities	Sub-activities	Description of activities	Lead	Collaborating
					Agency/Division	Agency/division
		Develop and implement Enterprise Architecture	Enterprise Architecture (EA)	Build EA Capability and Establish EA Governance     Expand on EA For the Whole of Government (WoG)     Deep dive EA into Social Cluster     Deep dive EA into Economic Cluster     Deep dive EA into Security Cluster     Deep dive EA into Governance Cluster	DST	Agencies
			Develop an Architecture Repository System	Vendor management     Software inventory     API inventory     Hosting Inventory	DST	DSD/DSOM/Cloud /WoG/GovNet/Cyb er Security
		Establish software development standards for better integration and faster delivery	Standardisation of Software development process	Establish common standards for better integration and faster development     Streamline and Standardize Project Management     Standardize and templatize Business Analysis     Standardize and templatize Quality Assurance (Secure by design)     Standardize and templatize Software Outsourcing	DST	DSOM & DDT
			Reduction of Bugs in Government Systems	Citizen-centered design     Automation of processes and QA     Establish IT Auditing & Code review	DSD	DSOM&DST
		Provide Technology Solution to Social Cluster	Development of new systems and upgrade existing systems of Social Cluster	Providing Technology Solution to Social Cluster Including development of new systems, upgrade of existing system	Social Cluster	GovTech Agency
	Cluster Provide Technology	Development of new systems and upgrade existing systems of Governance Cluster	Providing Technology Solution to Governance Cluster Including development of new systems, upgrade of existing system	Governance Cluster	GovTech Agency	
		Development of new systems and upgrade existing systems of Economic Cluster	Providing Technology Solution to Economic Cluster Including development of new systems, upgrade of existing system	Economic Cluster	GovTech Agency	

Goals	KPIs	Key activities	Sub-activities	Description of activities	Lead	Collaborating
Guais	IXI IS	Key activities	Sub-activities	Description of activities	Agency/Division	Agency/division
		Provide Technology Solution to Security Cluster	Development of new systems and upgrade existing systems of Security Cluster	Providing Technology Solution to Security Cluster Including development of new systems, upgrade of existing system	Security Cluster	GovTech Agency
		Develop and deploy IFMIS, BITS and ERP	Develop and Deploy IFMIS	1. Financial Management Information System (IFMIS) for use of digital platforms in the implementation of Public Financial Management (PFM)  2. Integration and Enhancement of PFM systems Budget Planing Preparation (MYRB)  Budget Execution and Monitoring (ePEMS, eDATS) Revenue Administration (BRIMS, RAMIS/MITS, eCMS, Property Tax) Debt and Grand (CM) Payroll Management (ZEST) Procurement Management (eGP, eTools, CRP, CiNET) Assest/ Inventory (GIMS)	MoF	GovTech Agency
			Develop and Deploy BITS	Development of Bhutan Integrated Tax System. BITS will have all the tax related systems of DRC integrated under one platform. Further, GST component of BITS will enable DRC to implement GST law of Bhutan 2020. BITS would help DRC and MoF to address the declining efficiency of the current RAMIS. BITS will also improve the administrative efficiency of DRC, reduce compliance cost and incidences of tax evasion and increase voluntary tax compliance.	DRC	GovTech Agency
			Develop Government Planning and Resoruce allocation system	Development of Governament planning and resouce allocation system - System integration and Dashboard development between Cabinet, MoF and RCSC to have an complete end to end overview on Stragetic Planning and Resoruces allocation	DST/DSD	Governance Cluster
			Secure Land Record management	Study current Land record System Finalised Project Plan document Implement the Land Record System	NLC	DDT/WoG, GovTech Agency

Goals	KPIs	Key activities	Sub-activities	Description of activities	Lead Agency/Division	Collaborating Agency/division
		Develop Public-Private Partnerships (PPPs) for technology	Develop Public-Private Partnerships (PPPs) for technology	Outsourcing strategy & framework     Relook and develop PRR for Software     Outsourcing     Identify Project that can have PPP modality     Have selected project approved for PPP modality	DDT	
		Upskilling and reskilling of Civil Servants and ICT professionals	Upskilling and reskilling CS for Digital Transformation	Identify skills necessary for Digital     Transformation     Do a skill gap analysis by Category of CS     Identify Partners who can implement the skills development     Handover the Project to RCSC for Deployment and Monitoring	DST	RCSC
			Upskilling and reskilling Government ICT Professional for Technology Transformation	I. Identify skills necessary for Technology Transformation     Do a skill gap analysis by Capability     Identify Partners who can implement the skills development     Deployment, Monitoring and Evaluation     GovNET BTNOG training for GovNet officials (Nu. 0.6m)     Project management	SSS, GTA	GovTech Agency
		Integrate and automate systems to improve operations & management of Government systems	- Improve System integration (Relook at all the API Integration) for better-integrated data-driven decision-making service/system.  -Deploy RPA to automate repetitive tasks (procurement, taxation, HR -Eg. data entry/invoice processing/payroll mgmt).  -Increase use of eKYC for online services from Bhutan NDI Wallet	Automate repetitive, rule-based tasks by embedding RPA to improve service efficiency, performance and productivity.      Eg: Procurement, finance, and human resources processes - repetitive tasks like data entry, invoice processing, and payroll management.	WoG	DDT
			Provide Annual Maintance Contract (AMC) for whole of government systems	Providing Annual Maintance Contract for whole of government systems	DSOM	DST

Goals	rnance KPIs	Key activities	Sub-activities	Description of activities	Lead	Collaborating
			Introduce IT HelpDesk and implement streamlined bug reporting and response for O&M	Establishing an IT help desk to streamling bug reporting and developing a bug reporting system to improve bug resolving and improve TAT	Agency/Division  DSOM	Agency/division
			Implement DevOps practices in all existing and new upcoming systems	Deploy sources control and automate deployment on all Government Systems and monitoring.  This will lead to better real time management of the health of the Govt Systems	DSOM	DDT
			Secure & Resilient connectivity	Strengthening the reliability and security of the Government Initiated Network.  1. Better and stable internet in all Government Agencies to all division, section to all regional offices and subdivisons  2. Minimum down time  3. Minimum drop  4. System can still operate on Gov TWAN when internet is down (details reflected under enablers)		
			Secure & Resilient Data Center	Strengthening the reliability and security of the Government Data Center     Establishment of Active Disaster Recovery (details reflected under enablers)		
			Secure Government Application	All Governemnt application hosted in GDC are secured with proper cyber secruity in place		
	3. AI Maturity Level increased to Level 4 - Systemic by 2029	Identify and develop SST for 13 sectors/services	Identify SST for Employment (Government)	The purpose of this activity is to develop an inclusive Labour Market System (LMS) which will function as the central repository and dissemination interface for all information on enterprises and	DSAI	RCSC; RUB; RCJ Constitutional bodies, Zhung Dratshang;
			Identify SST for Employment (Non-Government) [1]	labour force. The enterprises and labour force are further categorized into Employment (Government), Employment (Non-Government), Foreign Workers,	DSAI	MoICE; BCTA; BAFDA, Choedhay Lhentshog
			Identify SST for Employment (Foreign	Bhutanese Overseas (Workers and Students), School Education, Tertiary Education, Technical and Vocational Education and Monastic Education	DSAI	MoICE; MoHA
			Identify SST for Bhutanese Overseas [3]	- vocational Education and Monastic Education	DSAI	MoFAET; MoHA
			Identify SST for Education (MoESD) [4]	1	DSAI	MoESD
			Identify SST for Education (Tertiary) [5]		DSAI	RUB; JSWLaw; KGUMSB; NRC
			Identify SST for Education (TVET) [6]		DSAI	MoESD

Goals	KPIs	Key activities	Sub-activities	Description of activities	Lead Agency/Division	Collaborating Agency/division
			Identify SST for Education (Monastic) [7]		DSAI	Zhung Dratshang; Choedhay Lhentshog
			Identify SST for Energy [8]	In an effort to streamline the traditional processes of data collection and analysis on the energy data points in Bhutan, this project aims to identify the single source of truth for all energy data points and automate processes for data collection as well as add contextualization and trigger actions to the collected data to understand the correlations between data points.	DSAI	MoENR
			Identify SST for ACCESS	As part of this activity, the Division aims to collate and centralize all the trade and business-related information into one platform thereby enabling interoperability of business related information as part of the requirement for ACCESS Project	DSAI	MoICE; MoF; MoFAET;
			Identify SST for Marital status	The SST for marital status streamlines the process of identifying the correct source for marital status nationwide, ensuring centralized information provision by a single agency	DSAI	RCJ, MoHA
			Identify SST for Land & Building	This activity involves identifying the single source of truth for land and building-related information in the country	DSAI	MoIT, NLC, Thromdes
			Identify SST for Roads & Bridges	This activity involves identifying the single source of truth for information on roads and bridges in the country which will further be alligned with previous years' activities on the SST for Land & Buildings.	DSAI	MoIT
		Establish data privacy and ethics within Online Transaction Processing (OLTP) and Online Analytical Processing (OLAP) framework	Conduct SST review workshop	SST review; Awareness on existing standards (and resources): Data Management Guide 2023, and ICM Act 2018 (focussing on data privacy and protection)	DSAI	

Goals	KPIs	Key activities	Sub-activities	Description of activities	Lead	Collaborating
		(OLAI ) Hallicwork	Conduct Data Science hackathon	This event will bring individuals or teams together to solve data-related challenges within a limited timeframe, typically ranging from a few hours to a	Agency/Division DSAI	Agency/division
				few days to collaborate and innovate on solving specific problems using data-driven approaches.		
			Conduct Data Science and AI Workshop	The data science workshop will be organized to provide participants with hands-on experience and instructions in various aspects of data science and share tools and techniques used in data analysis, machine learning, and other related disciplines.	DSAI	
			Develop National AI Strategy/Policy	The AI strategy/policy will be a comprehensive plan or framework to guide the adoption, deployment, and utilization of artificial intelligence (AI) technologies to achieve specific objectives.	DSAI	
		Strengthen data infrastructure (AI and data sharing protocols and open data platform)	Institute data warehouse/lakehouse platform	Through this activity, the Division will develop data warehouse/data lakehouse that involves creating a centralized repository for storing and managing large volumes of structured and unstructured data, to support analytics, reporting, and decision-making processes.	DSAI	
			Develop Business Intelligence platform	The Business Intelligence (BI) activity refers to the development of dashboards/visualizations to analyze and present business information. The main goal of BI is to support better business decision-making by providing actionable insights based on data.	DSAI	
			Development of ML and AI models	The Division plans to develop one ML/AI model each year on a need basis depending on its criticality and requirement. As part of this activity, the process involves deploying the model, monitoring its performance, and iteratively improving it based on feedback.	DSAI	

Project 1: Str Digital Gover	engthening the nance					
Goals	KPIs	Key activities	Sub-activities	Description of activities	Lead Agency/Division	Collaborating Agency/division
			Establish data sharing protocols	To institute the open data-sharing platform, the Division will assess the key data requirements of the general public and the government sector. This activity will entail the classification of data sensitivity, preparation of meta-data and other data sharing protocols and agreements within the agencies.	DSAI	
			Institute open data sharing platform	An open data-sharing platform will be developed to facilitate the sharing and dissemination of data openly and transparently thereby democratizing access to information, promoting innovation, and empowering individuals, organizations, and communities to leverage data for various purposes, including research, decision-making, and civic engagement. This is unified open data sharing plaform that supports various data formats and types (structured, semi structured and unstrutured data).	DSAI	
		Develop eHealth Strategy and strengthen ePIS as the/one health system	Develop eHealth Strategy and Strengthen ePIS as the/one health system	1. System SOP & BCP 2. Reduce health systems 3. Integrate health systems 4. Decommission old systems 5. AI in healthcare 6. Health data analytics 7. IoT in healthcare 8. drone in health care 9. Rollout ePIS 100% in all facilities	MoH & NMS	GovTech Agency

Project 2: Digita	l Economy	Key activities	Sub-activities	Description of activities	Lead	Collaborating
Goals	KPIs	·			Agency/Division	Agency/division
Digital Economy	1. Digital Economy contribution of USD 300 million by 2029 and USD 600 million by 2034	Integrate/Facilitate end-to-end licensing and trade service as part of the NSW project		Develop Blueprint for NSW     Automate individual Trade Systems (13 systems) including integration with NDI     Develop and Deploy NSW (include issuance of hardware)	DoT, MoICE	GovTech Agency and Other Agencies involved in trade
	2. 5000 quality jobs by 2029	Adoption of automative technologies for commercial timber harvesting		1. drone 2. IoT 3. AI	DoFP	GovTech Agency
		Conduct national resource mapping system study and resource mapping of five sectors	Consolidate the national resource mapping & inventory of Bhutan	Spatial Decision Support System for (National Resource Mapping)	NLC	GovTech Agency and Other Agencies developing Rescource managment
				Resource Mapping for: 1. Mining and Minerals (1170 + 60+10+10+7+13 m for 50% area) 2. Construction (Utility) 3. Forest resource 4. Water Resources 5. Transport	Resources Agency	GovTech Agency
		Adoption of sustainable agri tech (IoT, drone, AI etc) for commercial farming	Sustainable agri tech for commercial farming	Introducing ET in the large scale commercial farms (2 Chirup Farm at Gangtokha Dagana, Phuntshothang- SJ)	DoA, MoAL	GovTech Agency
		Develop digital tourism products using digital techonologies		Digital Tourism is going beyond the traditional physical travel experience using digital technologies  1. Toursim Resources Mapping 2. Toursim Enterprise System Development with Mobile App (TCB Hub) 3. personalised experience and virtual tours using VR (Taksang and Snowmant trek) - Proposed as PPP Model 4. personalised experience Metaverse (DOT Office) 5. Personalised experience and virtual tours using AR (Paro from Ta Dzong, Thimphu City from Kuesnel Phodrang) 6. Gamefication (TransBhutan Trail and Merak Sakten Trek)	Dept. of Toursim	GovTech Agency

Project 2: Digital Eco	conomy	Key activities	<b>Sub-activities</b>	Description of activities	Lead	Collaborating
Goals	KPIs				Agency/Division	Agency/division
			Develop sustainable, smart and resilient transport system	Reliable, efficient & convenient public transport service by bus     Develop online Passenger Bus Services system (Bus Information, Route Approval, automated fare revision and enhancement of GPS Tracking System) (15m)     imrpove fare payment (NDI & Smartcard)	MoIT	GovTech Agency
estal (Hea	Data Economy ablished by 2029 ealth, Climate & riculture)	Strengthen data ecosystem for health, Agriculture and Climate Digital Health	Strengthen data ecosystem for health, Agriculture and Climate Digital Health (JICA support, 2023-2027)	The project is aimed to create valuable data using NDI for Evidence Based Decision Making (EBDM) through integrated management of health data to help to raise the public's awareness of their own health management with the concept of "Data enabled GNH/Well-being" as a project goal for the project duration of four year (2023-2027) using the four data banks (medical,health,household and biobank). Analyses of data will be utilized for clinical/public health purposes such as "early detection and intervention of diseases", "prevention of illness", "personalized medicine", etc.  The Medical Bank , which will have records of clinical data, the Health Bank (PHR) will have data related to personal health, socio economic indicators data in the household bank and genomes data for the Biobank integrated through National Digital Identity (NDI).  The three envisioned outcome for the project is EBPM/EBDM (for RGoB), health and GNH/Wellbeing (for citizens) and economic development (for the Academic and Private industries through digital health industries and data economy for the researchers and pharmaceuticals companies) which will be achieved through the Digital Health Platform (DHP consisting of Application, Platform and the Data).	GovTech	MoH, MoiCE, MoAL and NSB

Project 2: Digita	al Economy	Key activities	Sub-activities	Description of activities	Lead	Collaborating
Goals	KPIs			·	Agency/Division	Agency/division
	Digital Economy contribution of USD 300 million by 2029 and USD 600 million by 2034     Sound Quality jobs by 2029	Adoption of IT tools/products by non-ICT industries (private sector)	through:  1. Platform such as exhibition to showcase IT tools/products that non-ICT companies can explore and adopt  2. Leverage such platforms to also conduct B2B meetings  3. Developing a market place for such product promotion for easy access and awareness	The activities aim to digitalize other industries through adoption of local tech product and services. This will be done through:  1. Collaboration with identified national stakeholders  2. Conduct national tech conference and expo event targeting other industries in the country  3. Study the development of digital marketplace for other industries  4. Develop and operationalize digital marketplace for other industries  5. Create and maintain database of ICT products and services offered by the ICT industry for other industries	TIDD	Private sector, MOICE
		Strengthen digital ecosystem for tech startups and digital market		Design and develop e-commerce platform for local and global Market that can be used by every cottage, S&M industries to find demand and also enable onboarding and e-commerce in country and for export. Potential for PPP	MoICE	GovTech Agency
				Mapping of Supply Chain all SMEs including farm produce     Develop a Supply chain and Logistic System for SMEs including farm produce	GovTech Agency	MoAL, DoF, DGM
				New technologies for public to adopt by 1. portal and online sessions 2. Set up Tech Lab (AI, Block chain, drones etc) for look and feel new tech (a. Set up knowledge center for AI b. Set up knowledge center for Drones c. Setup knowledge center for VR d. Set up knowledge center for VR e. Set up knowledge center for IoT f. Set up knowledge center for Robotic g. Set up knowledge center for other ETs)	ETD	TIDD

Project 2: Digita	al Economy	Key activities	Sub-activities	Description of activities	Lead	Collaborating
Goals	KPIs				Agency/Division	Agency/division
			Strengthen ecosystem for tech startups including funding model & digital jobs (Freelancer, Remote work and Digital nomads)  (Robust multi-channel digital payment is critical and will be covered under infrastructure enabler)	Study & address tech startup ecosystem requirement     Initiate work on establishment of partnership with international startup communities     Develop funding models for tech startups     Develop value proposition to attract global tech startups     Promotion of Bhutan as a potential hub for international startups, digital nomads, freelancers     Enhance the BITC services and facilities to attract tech startups     Study ecosystem for esport industry	TIDD	MOICE, Private Sector, MOESD
		Globalization of ICT Industry	Establishment of 100 acres IT park (Robust multi-channel digital payment will be covered under infrastructure enabler, Connectivity will be covered under infrastructure enabler)	1. Identify land for establishment of Science,     Technology and Innovation (STI) park     2. Collaborate on the development of masterplan for     STI park     3. Develop value proposition for STI park developer     and conduct roadshow to select the developer     4. Identification and initiation of work by the     developer for STI park     5. Develop value proposition to attract FDI investment     in the STI park     6. Conduct roadshow to generate leads as well as FDI     to set up in the STI park	TIDD	MOIT, DHI, MoFET, MoICE
			Globalise the ICT industry (Robust multi- channel digital payment will be covered under infrastructure enabler)	The activity will facilitate the local tech industry to make entry in the global market. It will build capability of ICT companies to position in the global market by:  1. Building capability of ICT companies to position in the global market  2. Conducting international tech conferences & expos / roadshows as access to market platform  3. Operational support to ICT Association	TIDD	MoICE, Private Sector, MoFET
		Accelerate growth of ICT industry	Establish entreprise/s to drive the ICT business in the global market	Study options on formation of entreprise/s with main target to go global:  1. Develop few models for formation with investment requirement  2. Formed entreprise will drive the strategy for global market/ government will support initially  3. Other strategies running parallelly will be to promote entrepreneurs/businesses to venture in Data Center services/Cloud services and also to tap on potential of global big data analytics and processing industry.	TIDD	MoICE,DHI/Private sector

Project 2: Digita	l Economy	Key activities	Sub-activities	Description of activities	Lead	Collaborating
Goals	KPIs				Agency/Division	Agency/division
			Develop ICT Industry Strategy	Select consultant to develop the strategy     Consultation with National and Global stakeholders     Identify niche technology areas for investment     Develop ICT industry strategy	TIDD	Private Sector
			Support and provide access to Bhutan NDI ecosystem to create innovative products for both domestic and international markets	Provide access to competency development resources - Will work closely with "Digital hub (digital marketplace) developed for ICT products and services offered by the ICT industry "	WoG, GovTech	
		Develop satellite ecosystem/ image source and repository		Develop in-house remote sensing satellites for sustained satellite image sources     Explore use of free satellite images publicly available     Explore acquisition of satellite images through diplomatic channels	DoTS	
		Construction of Satellite Development Facility (GoI)		Establish satellite ground stations for tracking and operations     Build satellite development facilities like labs and clean rooms     Set up satellite environmental testing facilities like anechoiec chambers, vibration table, thermovac chambers	DoTS	
		Build remote sensing capacity in government/ non-governmental Agencies		1. Assess remote sensing capacity requirements in government and non-governmental agencies     2. Provide basic remote sensing/GIS training     3. Implement pilot projects with agencies to develop use cases     4. explore intermediate to advanced training on remote sensing specific to sectors	DoTS	RS WG
			Conduct advocacy/awareness programs on various ICT/STEM subjects	Conduct outreach program to youth in promoting space activities		
		Support Bhutan NDI operationalization	Provide Support to NDI company	To kick-start the company, total of Nu.160 million to be paid for Maintain and Operation Credentials Exchange Platform	WoG/Bhutan NDI Company	WoG, GovTech Agency

Project 2: Digita Goals	l Economy KPIs	Key activities	Sub-activities	Description of activities	Lead Agency/Division	Collaborating Agency/division
				Digital/electronic signature platform to be developed and implemented for signing digitally	Bhutan NDI Company	WoG, GovTech Agency
			Certify Bhutan NDI Wallet (product)	The certification from eIDAS 2.0 and Canadian Government	Bhutan NDI Company	WoG, GovTech Agency
			Payment system	Since RMA leads this initiative, GovTech will support in implementation of technological solutions, product selection and implementation for ePayment ecosystem	WoG/RMA	WoG, GovTech Agency

Digital Society		Key activities	Sub-activities	Description of activities	Lead Agency/Division	Collaborating Agency/division
Goals	KPIs					
Digital Society	1. 100,000 citizens know how to productively and safely use digital services by 2029	Strengthening Digital Skilling program	Organize foundational Digital literacy trainings in Gewogs	Review digital skilling curriculum for foundational program     Define and implement a standard process for delivery of foundation DL program     Identify vendor/partner to deliver foundation digital skilling training     Pilot the program and roll it out in all Gewogs	TIDD	All division & delivery partners (potential BDBL, NFE/MoESD)
			Organize Intermediate Digital literacy trainings in Dzongkhag/Thromdes	Review digital skilling curriculum for Intermediate Program     Identify vendor/partner to deliver Intermediate digital skilling training     3.Pilot digital skilling curriculum for intermediate program     Review and implement a standard process for delivery of intermediate DL program	TIDD	All division & delivery partners (potential training institutes, TVET/MoESD, Employment Center/MoICE)
			Upgrade the school ICT curriculum	Review & upgrade the ICT curriculum     Pilot the curriculum     Implement in all schools	TIDD	All division under GovTech and MoESD including private school
			Enhance STEM curriculum in schools and colleges	Review and enhance Space/STEM curriculum in schools     Assess and introduce Space/STEM curriculum in RUB colleges	DoTS	MoESD, RUB
		Develop Citizen engagement plan for preparation towards digital world	Develop platform for self learning, info dissemination and self-assessment	Study and develop tool/platform for intermediate digital skilling program     Identify partners to develop online digital literacy courses	TIDD	Private sector and content developer
			Conduct advocacy/awareness programs on various ICT/STEM subjects	I. Identify, develop and broadcast digital content for citizen services     Bhutan space week and other Stem advocacy	TIDD/DOTS	All the divisions
	100,000 citizens know how to productively and safely use digital	Develop online Platform for sharing Bhutanese knowledge and culture	Develop a social credit application	Social credit system which will capture scores of volunteers and donations contributed as citizens. Link social score to credit ranking.	DST, GovTech Agency	MOHA, MoESD, RUB, DSD (GovTech Agency)

<b>Digital Society</b>		Key activities	Sub-activities	Description of activities	Lead Agency/Division	Collaborating Agency/division
Goals	KPIs					
	services by 2029		Build /enhance Dessup App	Enhance the Dessung app to track volunteer scores for recognition and rewards	DST, GovTech Agency	Deesung Office/Gyalsung Office, DSD (GovTech Agency)
			Develop online platforms to promote knowledge on culture and heritage	Promote the preservation of spiritual and cultural traditions by implementing QR code integration with geo coordinates across monasteries, schools, and institutes, allowing users to utilize the NDI scan feature and engage in interactive games. Each monastery would feature a unique QR code providing information on the site and nearby landmarks.	DST, GovTech Agency	MOHA, MoESD, RUB, DSD (GovTech Agency)
			Provide techincal assistance for gamifications for Culture and tradition	Encourage learning about culture and traditions through social games. Effort to be combined with digital tourism	DST, GovTech Agency	MoESD, RUB, MOHA, DSD (GovTech Agency)
		Secure online transaction locally and nationally using NDI	Leverage NDI for securing any online interaction for eKCY for development of social credit scoring	Establish secure online transactions leveraging the NDI platform for authentication, PII data Exchange. For example social credit system scoring is based on NDI authentication	WoG, GovTech Agency	RMA, BoB, BNB, TB,PNB, BT, Tashicell, MoF, MFAET, MoH, MOHA, MOICE,
			Integrate NDI for authentication and sharing credentials uniquely for community services	Issue credentials specific to community where user belongs to uniquely authenticate (claim Identity) to interact online.	WoG, GovTech Agency	DLG
			Integrate with innovative products to verify online content and owner for authenticity	Using electronic and digital signature in the NDI platform provides a mechanism for verification and authentication of the user to ascertain authenticity of documents and content	WoG, GovTech Agency	DLG
	2. Improve cyber security maturity level from Level 1: start-up to level 4: strategic by 2029	Improve Justice Sector systems and M&E systems	Enhance the judiciary system by introducing online services and develop systems for coordinated case management, etc.	Enabling a swift justice delivery system by improving efficiency in case management	Judiciary, DST, GovTech Agency	DSD, GovTech Agency
			Improve the monitoring of public places using CCTVs and IOT tools	Installation of CCTVs in all major cities	МОНА	GovNet, GovTech Agency

Digital Society		Key activities	Sub-activities	Description of activities	Lead Agency/Division	Collaborating Agency/division
Goals	KPIs				Agency/Division	Agency/uivision
		Improve threats detection systems	1.Formation of Governmental SOC (GovSOC)	Develop and Operationalize Tier 1 SOC capability (Configure security tools such as SIEM (Security Information and Event Management), IDS/IPS (Intrusion Detection System/Intrusion Prevention System), endpoint detection and response (EDR) solutions, and threat intelligence feeds, forensic tools). Expertise will be contracted for implementing and operationalizing the SOC.	BtCIRT,GovTech Agency	Cloud Service, DSoM
			2.Improve incident handling by instituting an Information Sharing Mechanism and tool	Explore and deploy a secure threat information sharing platform for all the stakeholders	BtCIRT,GovTech Agency	Cloud Service, DSoM and Security Cluster
			3.Produce National Cyber Threats Landscape report	National Cyber Threats Landscape report will include identification and ranking of actual threats in the country, based on information from the national Risk Assessment exercise on cybersecurity threats and issues. Activity includes analysis and dissemination with publication of one report each year. Will also align cybersecurity crisis with national crisis management process.	BtCIRT,GovTech Agency	Cloud Service, DSoM and CII Operators & Security Cluster
		Improve Critical Information Infrastructure (CII) regulations and guidelines	1.Identify and designate CII organizations	The identification and designation of the CII will take place following the CII identification and Designation process	BtCIRT,GovTech Agency	All CII operators
			2.Develop CII regulatory Framework and CIIP guidelines	Develop regulatory framework and guidelines for CII operators to abide by and conduct compliance checks. Also ensure CII capacity to comply with CII requirements.	BtCIRT,GovTech Agency	Security cluster, RMA, BICMA, ERA, CII operators
			3. Capacity building for CII organizations	Organize training on the CII guidelines and cyber mock drills, tabletop simulation or other related exercises	BtCIRT,GovTech Agency	Security cluster, RMA, BICMA, ERA, CII operators
			4.Ensuring compliance with CII requirements	Develop regulatory framework and guidelines which will take another 2 years after designation of CIIs. The actual audit to check the compliance will happen only in the fourth year year.	BtCIRT,GovTech Agency	Security cluster, RMA, BICMA, ERA, CII operators
		Conduct security assessements of all online servcies	Advocate and conduct cybersecurity awareness programs and publish relevant content on various media platforms	Continuously enhance and update training content through advocacy efforts, incorporating cybersecurity awareness measures testing.	BtCIRT,GovTech Agency	ALL stakeholders

Digital Society		Key activities	Sub-activities	Description of activities	Lead Agency/Division	Collaborating Agency/division
Goals	KPIs				Agency/Division	Agency/utvision
			2. Conduct security assessments of all online services	Compile inventory of the online public services to conduct a baseline survey to set the target using the updated Baseline Security for Network and Application checklist. Another assessment will include public survey to assess trust and confidence (security, safety) in online services.	BtCIRT,GovTech Agency	
			3. Conduct data privacy and security awareness workshops in collaboration with DSAI	The awareness workshops will be complemented conducting yearly survey to assess citizens understanding of personal information protection.	BtCIRT,GovTech Agency	DSAI,GovTech Agency
		Improve Compliance to Incident Reporting mechanisms	Define and implement clear SOPs	Define and implement clear SOPs on reporting PII violation with DSAI, online frauds with RMA and CCAA, and cybercrime such as Defamation, Identify theft, Child exploitations, Cyber bullying with RBP and NCWC. Also implement Coordinated incident reporting framework and conduct assessment of online services to check implementation of protection of PIIs guidelines and to check the improvement of ease of reporting incidents. Also will initiate at least 3 operational MoUs /legally binding document for incident handling coordination between BtCIRT and other entities.	BtCIRT,GovTech Agency	DSAI,GovTech Agency RBP,NCWC, RMA & CCAA
			2. Prepare capacity building plan	Capacity building plan for incident response and investigation in BtCIRT and other established CIRT/SOCs and CII organizations. Include definition and development of incident handling processes, information sharing procedures, and resources and budget requird for procurement and skills development for 5Y period of the National Cybersecurity strategy.		
			3. Conduct workshop for Journalists and Media houses	Engage the media to provide advocacy to public about proactive and actionable cybersecurity measures (including-economic and social impacts) through various media platforms. They will be provided awareness on threat trends,	BtCIRT,GovTech Agency	Media houses
		Create cybersecuirty awareness to both government and private institutions	Observe Annual National Cybersecurity Week	Annual national-level cybersecurity awareness program for maximum reach; includes technical workshops and a conference/seminar involving all stakeholders. In collaboration with Private bodies, Corporations, Civil society, Academia,	BtCIRT,GovTech Agency	Private bodies, Corporations, Civil society, Academia, Financial Institutions

Digital Society		Key activities	Sub-activities	Description of activities	Lead Agency/Division	Collaborating Agency/division
Goals	KPIs				Agency/Division	Agency/utvision
			Continuous training and workshops for different target groups	Through these trainings and workshops, the target groups will learn about proactive measures to safeguard their digital presence and protect information, and learn about cyber threats prevalent in Bhutan and globally. Target groups will include Executives, Parliamentarians, and small & medium-sized businesses.	BtCIRT,GovTech Agency	C4CS, NA and NC Secretariat, BCCI
			3. Engage industry experts as guest lecturers and promote internships	Engage industry experts for facilitating and support delivery of Cybersecurity modules besides guest lecture program. Internships in cybersecurity will also be explored In addition, will study introduction of Bachelors Degree in Cybersecurity within Bhutan and support National Service training planning with integration of cybersecurity curriculum. For tertiary education, basic cybersecurity Hygiene in every discipline will be incorporated.	BtCIRT,GovTech Agency	RUB Colleges
		Build cybersecurity HR capabilities	Build Cybersecurity HR Capabilities	Provide Certified trainings for building SOC Tier-1 capabilities and Incident Handling capabilities for both SOC including SOC analyst, Security Analyst, Ethical Hacking, Network Security, Malware Analyst, Digital Forensic Analyst. The trainings will be for BtCIRT and Governmental SOC	BtCIRT,GovTech Agency	
			2.Introduce upskilling programs for ICT personnels	Provide opportunities for ICT personnels to upskill to join the cybersecurity workforce.	BtCIRT,GovTech Agency	TIDD
			3. Partner with RUB colleges for joint research projects	The research projects will focus on solving cybersecurity challenges in Bhutan's context	BtCIRT,GovTech Agency	RUB Colleges
		Develop Legal and regulatory Provisions	Review ICM Gap Assessment recommendations on Cybersecurity	Address the legal gaps identified in the ICM Act 2018 gap analysis and review Penal Code of Bhutan 2021	BtCIRT,GovTech Agency	BICMA,OAG, RMA,ERA
			2.Propose cybersecurity legislation	Analyse how the cybersecurity institutional framework and CII Regulatory framework can be adopted into legislation.	BtCIRT,GovTech Agency	OAG, Cabinet

Digital Society		Key activities	Sub-activities	Description of activities	Lead Agency/Division	Collaborating Agency/division
Goals	KPIs				rigency/Division	rigency/urvision
			3.Establishing coordinated vulnerability disclosure policy	Analyse best practices, prepare and develop coordinated vulnerability disclosure policy for organizations. Include incident reporting framework to foster transparent mode of reporting vulnerabilities, malpractices and whistle blowing.	BtCIRT,GovTech Agency	OAG, RBG, Cabinet
			4. Define national cybersecurity institutional framework.	This activity requires formation of Working groups who will then define clear roles and responsibilities of each level of bodies in the national cybersecurity institutional framework. The working group will define processes.	BtCIRT,GovTech Agency	Cabinet,GovTech Commision, BICMA,ERA, RMA,RBP,CCAA
		Conduct public sensitization and capacity builing on legal and regulatory frameworks	Develop COP strategy and conduct sensitization programs	Sensitize the various stakeholders on COP guidelines to equip the stakeholders (parents, educators, policy makers, industry) with knowledge about online threats children face and strategies to safeguard them through the COP guidelines. The strategy is proposed in order to identify specific plans and programs to put the guidelines into practice by each agency/organization among the stakeholders.	BtCIRT,GovTech Agency	MoESD,NCWC, RBP,ISPs
			2. Capacity development on cyber threat investigation for LEAs	Build capacity for cyber threat investigation for Law Enforcement Agencies (LEA) and include presentation to and discussion with stakeholders on SOP for incident communication channel for discussion and adoption of SOP	BtCIRT,GovTech Agency	OAG,RBP
			3. Develop regional partnerships and strengthen international cooperation	The cybercrime framework will explore joining Budapest Convention in collaboration with OAG. Judiciary and RBP, while bilateral agreement with other National CERTs in collaboration with Foreign Ministry will be explored. Locally, strengthening cooperation with IT private firms and corporations related to cybersecurity will also include discussion with stakeholders on SOP for incident communication channel to streamline the communications for faster resolve of cyber threat.	BtCIRT,GovTech Agency	OAG, Justice, RBP, legislators

Digital Society		Key activities	Sub-activities	Description of activities	Lead Agency/Division	Collaborating Agency/division
Goals	KPIs					
		Improve Cybersecurity Standards and technologies		Besides implementation of the security controls (including patching and backups, firewalls, encryption protocols, Intrusion Detection System, etc.), quarterly assessment of the security controls and review the deployment of cryptographic techniques in protection of data at rest, in transit, & meet international standards and guidelines, will be carried out.	BtCIRT,GovTech Agency	DSD,DST,DSoM, Cloud Service
			2. Implement security assessment tools	Security Assessment tools for static and application security testing will be procured to conduct the security assessment of applications.	BtCIRT,GovTech Agency	DSD,DST,DSoM, Cloud Service
			3. Upgrade BTCIRT server infrastructure	Procurement of Server Hardware to replace obsolete and end-of-support hardware and firewall of BTCIRT	BtCIRT,GovTech Agency	GovNet, Cloud Service

Project 4: Stre Enablers	engthening	Key activities	Sub-activities	Description of activities	Lead Agency/Divis	Collaborating Agency/division
Goals	KPIs				ion	
Infrastructure	All KPIs  Uptime stability of online public service delivery 99.9%.	Build secure and resilient connectivity	Improve reliability of last-mile connectivity	Build fiber redundancy rings at Dzongkhags and Thromdes( 5- 7 Km): 25.5M     Replacement of ADSS Fibers with Anti-Rodent Cables in southern Dzongkhags (150 km for 10 Dzongkhags): 39M     Total: 64.50M	GovNets	Dzongkhag/Agencies
			Enhance security at core network level	Supply, installation and configuration of firewall at core network level	GovNets	Dzongkhag/Agencies
			Enhance agency's internal network	Revamp Agency Network (Switch/Router/APs/Adapter/structured cabling for RRCO, BFDA, Industrial State)	GovNets	Dzongkhag/Agencies
			Improve physical security of core network infrastructures in dzongkhags and thromdes	Build common Network Shelter (For 20 dzongkhag/4 MDP/Thromdes/ICP/Gelephu Mindfulness city/Samtse Industrial Park/Airports)	GovNets	Dzongkhag/Agencies
			Extend Government Initiated Network	Connect new agencies to GIN (New connection to GIN for 25 agencies every year with an average of Nu. 0.3 M per agency)	GovNets	Dzongkhag/Agencies
			Outsource operation and maintenance of non-nationalised last mile connectivity to ISPs	Outsource O&M of GIN fiber(Non nationalized) to ISPs (2.5% of total asset value)	GovNets	Dzongkhag/Agencies
			Enhance and upgrade network infrastructure	Procurement of Routers and Switches (GovNET Tech Refresh):     85.11M     Procurement of Fiber Optical Components and Accessories (Mux/DeMux, Optics, Cables, etc) for DrukREN Core and Access:     10M     Procurement of core routers and switches for DrukREN: 30M     Replacement of DWDM Active Infrastructure: 35M     Replacement of DrukREN Access routers for agencies: 43M     Total: 203.11M	GovNets	Dzongkhag/Agencies
		Build secure and resilient data center with active disaster recovery site	Enhance and upgrade GDC primary and backup site	Upgradation of resources (Storage,Memory and Compute) at GDC primary (TTPL,Thimphu) and Backup site (BT,Bumthang)     Replacement of hardwares (tech refresh) at GDC primary and backup site     Renewal and additional software licenses	Cloud Services Division	GovNets Division
			Establishment of GDC Active- Active Data Recovery Site at Bumthang	Carry out feasibility study     Review of data centre requirements and planning     Procurement of hardwares/softwares     Operationalise DR	Cloud Services Division	GovNets Division

Project 4: Strengthening Enablers		Key activities	Sub-activities	Description of activities		Collaborating Agency/division
Goals	KPIs				ion	
		Establishment of 3rd International Internet Gateway (3IIG) Gol	Improve international link redundancy avoiding Siliguri corridor	Establish International Internet Gateway via Bangladesh     Explore other International Internet gateway like Satellite     Communications	DoTS	BTL
		Improve fiber redundancy and national telecom infrastructure	Enhance Domestic fiber Redundancy of the national fiber backbone network	Identify locations (Dzongkhags, economics areas, densely populated areas, etc.) where redundancy will be critical . Implement network redundancy at backbone level for identified sites	DoTS	BPC
			Improve management and operations of the national telecom infrastructure	Study establishment of an ILD company for telecom infrastructure like fiber optic network and cell towers	DoTS	BPC, Telcos, BICMA
			Enhance network monitoring capabilities	Strengthen network monitoring capabilities of BICMA     Establish simple and effective complaint mechanism	BICMA/DoTS	BICMA
		Provide affordable connectivity	Implement strategies to enhance domestic content access	Explore and study domestic and international bandwidth disaggregation and differential pricing implementation on domestic and international content so that prices are minimum for domestically hosted content	DoTS	BICMA, Teclos/ISPs
			Increase domestic bandwidth consumption	Increase bandwidth for GovNet and DrukREN     Explore CDN services and increase domestic content	DoTS	GovNet, BICMA
			Increase international bandwidth through IRU mechanism	Bulk procurement of bandwidth to reduce the unit cost	DoTS	Telcos, GovNet
		Improve accessibility	Prepare FTTx/FWA implementation plan for urban areas	Assess fixed internet network in urban areas and encourage operators to expand the network for better access	DoTS	Teclos, BICMA, BPC
			Prepare USF utilization plan for universal connectivity	Forecast the expected USF contributions from the telcos over the 13FYP and develop strategic plan to utilize the funds to enhance universal and affordable access	DoTS	BICMA

Project 4: Stre Enablers	engthening	Key activities	Sub-activities	Description of activities	Lead Agency/Divis	Collaborating Agency/division
Goals	KPIs				ion	
Regulations	All KPIs	Modernize legislations and regulatory framework	Identify and review legislations that need to change	1.Conduct regulatory review, necessary for improving and streamlining services. 2. explore opportunity to harmonize business rules/procedures, wherever necessary. 3. Update ICM Act 4. Update data protection and Cybersecurity Legislation 5. e-Gov Policy 2021 6. Telecom and Broadband Policy 2014 7. Develop SatCOM policy 8. Revise and improve the existing procurement process, specifically tailored for ICT Projects. 9. Development of eWaste management framework	GovTech Agency	OCASC/ Agencies
Research & development	1. Digital Economy contribution of USD 300 million by 2029 and USD 600 million by	Conduct research and development in Emerging Technologies	Strengthen Industry Academia linkage	The activity will focus on enhancing collaboration with the Industry and Academic institution. :R&D initiatives with tech colleges, industry guest lecture program in colleges	TIDD	Tech Colleges, InnoTech Drive and TTPL
	2034 2. 5000 quality jobs by 2029		Testbeds leveraging Bhutan's strength and opportunities	POC in IoT, AI, Drone, Robotic, AR, VR, Blockchain, etc; Awarenes on ET	ETD	SSS, DSAI, TIDD, DSD & DST
Talent	1. Digital Economy contribution of USD 300 million by 2029 and USD 600 million by 2034 2. 5000 quality jobs by 2029 3. 400 K citizens	Develop highly skilled technology talent pool	Develop highly skilled technology talent pool	Training:  1. Conduct market assessment on skills, update the database for ICT professionals and IT/ITES companies  2. Identify current and future(deep) tech skill requirements annually  3. Develop and implement plan for training delivery  4. Periodic assessment on impact of the training  Certification:  1. Identify internationally accredited certification areas relevant for the industry  2. Select and implement certification program with the vendor	TIDD	Training Institute
Adoption	1. 10% government operating cost reduced by 2029	Develop important GovStack building Blocks (GovStack/GovDMS/GoVCMS)	Develop Messaging Block	Develop common messaging block that will be used by all government services to decimate messages(SMS, email and Mobile App Notification)	DSD	DST,DSOM
	2. Public satisfaction rating of >4.5 by 2029		Develop Scheduling Block,	As most of the agencies and systems requires a Scheduling to provide services efficiently and timely, this scheduling block would facilitate this for all agencies and systems.	DSD	DST,DSOM

Project 4: Strengthening Enablers		Key activities	Sub-activities	Description of activities	Lead Agency/Divis	Collaborating Agency/division
Goals	KPIs				ion	
			Develop Workflow Engine	As we have many systems that has been already developed or under development this block would facilitate the reuse of existing and upcoming systems to integrate and streamline the workflow while providing service.	DSD	DST,DSOM
			Develop Consent Block	With regards to maintaining confidentiality and transparency while providing service, the citizens are required to consent to the terms and condition required to avail services, this block would also notify individuals when their record is being accessed by others with or without permission.	DSD	DST,DSOM
			Develop Whitelist Block	This block is very important to provide fast service to citizens, as this list would facilitate auto approval for service providing without the citizen having to process security clearance or any other clearance as long as whitelist is maintained.	DST	DSOM,DSD
			Develop Document Management System	This system would reduce the number of uploads that needs to be made to avail service as long as the verified document is available in GovDMS	DST	DSOM,DSD
			Develop Common Govt CMS	This GovCMS would standardise website and ensure security, consistency and availability of the all the government website, Procurement of common and useful plugins.	DSOM	DST,DSD
Education as foundational for digital transformatio n	All KPIs	Digitalizing Education to build resilient, agile and future ready talent in the digital era	Develop digital strategy for education	A digital strategy for education will be developed to guide the education sector on the digital transformation journey so that a streamlined and appropriate intervention and investment are made.	MoESD	GovTech Agency
			Strengthen digital education ecosystem	Digital strategy will be a guide to address and strengthen the ecosystem. Ecosystem refers to:  1. Digital Competency 2. Digital Content 3. Infrastructure/Facilities	MoESD	GovTech Agency
NDI Strategy: NDI as foundation of digital transformatio n	Accelerate Growth of the ICT Industry	Accelerate the adoption of NDI	Support and provide access to Bhutan NDI ecosystem to create innovative products for both domestic and international markets	Provide access to competency development resources	WoG, GovTech Agency	WoG, GovTech Agency

Project 4: Strengthening Enablers		Key activities	Sub-activities	Description of activities	Agency/Divis	Collaborating Agency/division
Goals	KPIs		4		ion	
					1 '	WoG, GovTech Agency
			Wallet	The effort will be focus on its benefits, safe usage, keep pin securely & privately and in implications Develop awareness materials and publish on print, social medias and other mainstream media like TV and Radio	WoG, GovTech Agency	