Vision	e-Health facilitates the delivery of equitable and high-quality health care services to enable all Nepali citizens to enjoy productive and quality lives
Mission	e-Health interventions strengthen Nepal's health systems by improving the use tools, information and evidence in planning, managing and supporting public health and clinical interventions and service delivery.
Overall Goal	The goal of the National e-Health Strategy is to harness the potential of ICT technologies to improve health services, health governance and management

1. Populat	tion									
Outcomes & Strategic	Key Activities		Т	imelir	пе		Output Indicators	Means of Verification	Responsib le Entities	Resources required
Interventio ns		2	2	2	2	2				(000 NRs)
,,,,		0	0	0	0	0			17.27	
		7	7	7	7	8				
		6	7	8	9	0				
		1	/	/	1	1				
		7	7	7	8	8				
		7	8	9	0	1				1.0

Outcome 1: Facilitate promotion of healthy life styles, protection from diseases, reducing risk behaviors

Governance

Intervention 1.1: Collaboration with Community e- Centres (CeC) to deliver health messages and information to the

Outcomes & Strategic Interventio	Key Activities		Т	imelii	те		Output Indicators	Means of Verification	Responsib le Entities	Resources required (000 NRs)
ns		2 0 7 6 / 7	2 0 7 7 / 7 8	2 0 7 8 / 7 9	2 0 7 9 / 8 0	2 0 8 0 / 8 1				(000 NRS)
foundation	1.1.1Develop inventory of CeCsby functioning situation	X					Inventory of functional CeCsdevelo ped	Inventory report of CeCs	IT ,MoHP	500
	1.1.2Develop the guideline, protocol and terms and conditionsfor CeCs to deliver public health messages	х	X	х			% of CeCs oriented	Capacity building report	IT-MoHP ,NHEICC	1000
	1.1.3 Review Meetings bi- annually	x	x	x	X		% of meetings conducted against target	Meeting minutes	IT-MoHP	1000
	Intervention 1.2: Collaboration coverage	with	relate	d sta	kehol	ders	to increase inter	net, mobile and ma	ass media netv	ork .
	1.2.1 Advocacy for internet and mobile coverage in all	X	Х				Number of advocacy	Meeting minutes	IT-MoHP	250

1	P	0	p	ul	a	ti	01	n

Outcomes

& Strategic Interventio ns health facilities 1.2.2 Internet service installation in all HFs

Key Activities Timeline Output Means of Responsib Resources Indicators Verification le Entities required (000 NRs) 2 2 2 0 0 0 0 7 8 6 8 9 0 7 7 8 7 8 7 8 9 0 1 meetings HF profile, % of HFs MD 160000 Χ Χ NHFS with internet services 1.2.3 Incorporate internet HF Revised HF IT-MoHP 500 service and LAN in HF Χ construction construction construction and operation guideline guideline related guideline revised 1.2.4 Advocacy to provincial Meeting Χ Χ No. of HCD/PP 1400 and 753 local governments for meetings minute M, IT-AWPB with eHealth activities conducted MoHP 1.2.5 Collaboration and No. of Meeting IT-MoHP 100 coordination meeting with Χ Χ meetings minute Internet Service Providers conducted (ISPs)

Outcomes & Strategic	Key Activities		T	imeli	ne		Output Indicators	Means of Verification	Responsib le Entities	Resources required
Interventio ns		2 0 7 6 / 7	2 0 7 7 / 7 8	2 0 7 8 / 7 9	2 0 7 9 / 8 0	2 0 8 0 / 8 1				(000 NRs)
Change and adoption (HR and capacity, architecture,	Intervention 1.3: Increase publication 1.3.1 Develop online training module and Orient all CeCs	ic awa	arene X	x x	gardi	ng ava	% of CECs	online	IT-MoHP	mote its use
programme managemen t, and standards	through health unit of local levels to deliver public health messages	^	^	^	×		oriented	training module ,Training report		
managemen t, and	through health unit of local levels to deliver public health	X	X	X	×	x	No. of display boards established, No of wifi based display established	module ,Training	IT-MoHP, NHEICC/ MoSD	225000

Outcomes & Strategic	Key Activities		Т	imeli	ne		Output Indicators	Means of Verification	Responsib le Entities	Resources required
Interventio ns		2 0 7 6 / 7	2 0 7 7 / 7 8	2 0 7 8 / 7 9	2 0 7 9 / 8 0	2 0 8 0 / 8 1				(000 NRs)
	campaigns using TV, Radio and Social media						events		NHEICC	
	1.3.4 Develop online orientation module and Orient FCHVs on e-Health products and use		X	Х	Х		%. of FCHVsorien ted	Orientation Report	IT-MoHP, Nursing Div./Loca	26000
	1.3.5 Advocacy meetings with member of parliament at provincial levels	Х	Х	Х	Х		No. of meetings	Meeting minute	IT- MoHP,N HEICC/H CD	500
	Intervention 1.4: Encourage ICT	servi	ce pr	ovide	rs foi	deliv	ering promotion	al and preventive	messages	
	1.4.1Interaction meetings with ISPs for Corporate Social Responsibility (CSR)	Х	Х	Х			No. of meetings conducted	Meeting minutes	MoHP	200

		_								
Outcomes & Strategic Interventio	Key Activities		T	imeli	пе		Output Indicators	Means of Verification	Responsib le Entities	Resources required (000 NRs)
ns		2 0 7	2 0 7	2 0 7	2 0 7	2 0 8				(000 NRS)
		6 /	7 /	8 /	9	0 /				
	100 mg	7 7	7 8	7 9	8	8		1		
Solutions (services and applications)	Intervention 1.5: Develop and applications  1.5.1 Form an e-Messages Approval Team at all levels and operationalize	X	r mot	x	yeb ai	X	Team formation	Team formation document	NHEICC	1000
	1.5.2Review, Revisit and develop multi-linguistic health messages		Х	X	Х	Х	Number of messages approved	Health message list	NHEICC/ MoSD	800
	1.5.3 Form co-ordination committees at all levels for social media promotion and	Х	X				Number of co- ordination committees	Committee formation report	IT-MoHP, NHEICC/ MoSD	800

1	P	0	p	u	la	ıti	0	n

Outcomes & Strategic	Key Activities		T	imelir	ie		Output Indicators	Means of Verification	Responsib le Entities	Resources required
Interventio ns		2 0 7 6 / 7	2 0 7 7 / 7 8	2 0 7 8 / 7 9	2 0 7 9 / 8 0	2 0 8 0 / 8 1				(000 NRs)
	1.6.1 Develop message repository(message bank) in theMoHP server	x	X				Repository server established	Physical server, repository capacity	IT-MoHP	1300
	1.6.2 Develop GIS based information portal with unified coded and geo-referenced HFs list for interoperability	X	×				% of HFs with geo- referenced HFs	HF registry	IT-MoHP /MoSD	2000
	1.6.3 Develop national and provincialhealth web portal	x	X				Web portal developed	Health Web Portal verification report	IT-MoHP, DoIT, MoSD, Health Coordinat ion Div	2000

Outcomes & Strategic	Key Ac	tivities		T	imelin	е	Output Indicators	Means of Verification	Responsib le Entities	Resources required
Interventio ns			2 0 7	2 0 7	2 0 7	0 (	2			(000 NRs)
			6 /	7 /	8 /	9 (		42		
			7	7	7 9	-	1			
	health issues (	(toll-free) eam of health	h hotl	ines	to imp	rove aw	Number of	Response	MoHP/M	mporary 200
	health issues (	eam of health lith hotline and e at federal and	h hotl	ines :	to imp	rove aw				, ,
	1.7.1 Assign a to workers for heal media response	eam of health lth hotline and e at federal and grievance nd mechanism	h hotl			rove aw	Number of Response Team formed  % of queries responded and grievances	Response report	MoHP/M	, ,
	1.7.1 Assign a to workers for heal media response provincial levels  1.7.2 Develop a redress portal at national and plevels	eam of health lth hotline and e at federal and in grievance nd mechanism provincial	X	X	×		Number of Response Team formed  % of queries responded and	Response report document  Query and grievance register	MoHP/M oSD	200

Outcomes	Key Activities		Т	imelii	пе		Output	Means of	Responsib le Entities	Resources
& Strategic Interventio ns		2 0 7 6	2 0 7 7	2 0 7 8 /	2 0 7 9	2 0 8 0 /	Indicators	Verification	ie Entities	required (000 NRs,
		7 7	7 8	7 9	8	8				
foundation	2.1.1Develop guideline and protocol for emergency health message and alert delivery in public using IT media		Х				Guideline developed for health message delivery in emergency and alerts	Guideline	IT-MoHP, EDCD	600
	2.1.2 Develop an outbreak and health emergency corner in health web portal with all the guidelines and protocols		Х				Outbreak and health emergency corner	Health emergency web report	IT-MoHP	500
	2.1.3 Develop set of alert messages by category of emergencies		х				No. of message developed	Message list	EDCD/N HEICC	800
	2.1.4 Develop auto delivery mechanism using SMS, social media and other IT tools by geography and risk type		Х				Coverage of in-risk population	Message delivery report	IT-MoHP, EDCD/N HEICC/H EOC	1000

						Output Indicators	Means of Verification	Responsib le Entities	Resources required (000 NRs)
	2 0 7 6 /	2 0 7 7 /	2 0 7 8 /	2 0 7 9 /	2 0 8 0 /				(000 NNS)
	7	7 8	7 9	8	8				
2.1.5 Integrate health alert system with disaster alert system of GoN	7.	Х				Co- ordination mechanism established	Assessment report	MoHA/IT- MoHP/H EDMU	500
2.1.6 Develop health vulnerability maps and post on the web	Х	Х				Vulnerability Mapsdevelo ped	Atlas of vulnerability mapping	IT- MoHP/H EDMU/IC IMOD	1500
2.1.7 Integrate RRT reportand health emergency surveillance systems to health emergency portal	Х	Х				No. of reports collected	Dashboard	IT-MoHP, /EDCD/M oHA	700
	system with disaster alert system of GoN  2.1.6 Develop health vulnerability maps and post on the web  2.1.7 Integrate RRT reportand health emergency surveillance systems to health emergency portal	2.1.5 Integrate health alert system with disaster alert system of GoN  2.1.6 Develop health vulnerability maps and post on the web  2.1.7 Integrate RRT reportand health emergency surveillance systems to health emergency portal	2.1.5 Integrate health alert system with disaster alert system of GoN  2.1.6 Develop health vulnerability maps and post on the web  2.1.7 Integrate RRT reportand health emergency surveillance systems to health emergency portal	2.1.5 Integrate health alert system with disaster alert system of GoN  2.1.6 Develop health vulnerability maps and post on the web  2.1.7 Integrate RRT reportand health emergency surveillance systems to health emergency portal	2.1.5 Integrate health alert system with disaster alert system of GoN  2.1.6 Develop health vulnerability maps and post on the web  2.1.7 Integrate RRT reportand health emergency surveillance systems to health emergency portal	2.1.5 Integrate health alert system with disaster alert system of GoN  2.1.6 Develop health vulnerability maps and post on the web  2.1.7 Integrate RRT reportand health emergency surveillance systems to health emergency portal	2.1.5 Integrate health alert system with disaster alert system of GoN  2.1.6 Develop health vulnerability maps and post on the web  2.1.7 Integrate RRT reportand health emergency portal  7 8 9 0 1  Co- ordination mechanism established  Vulnerability Mapsdevelo ped  No. of reports collected	2.1.5 Integrate health alert system with disaster alert system of GoN  2.1.6 Develop health vulnerability maps and post on the web  2.1.7 Integrate RRT reportand health emergency systems to health emergency  7 8 9 0 1  Co- ordination report  X X V Wulnerability Maps and post on the web  7 X X X V Wulnerability Maps develo vulnerability mapping  8 No. of reports collected	2.1.5 Integrate health alert system with disaster alert system of GoN  2.1.6 Develop health vulnerability maps and post on the web  2.1.7 Integrate RRT reportand health emergency portal  2.1.8 Develop health vulnerability maps and post on the web  2.1.9 Dashboard it is a seessment or downward in the web it is a seessment or downward in the web it is a seessment or downward in the web is a seessment or downwar

Outcomes & Strategic	Key Activities		T	imelii	пе		Output Indicators	Means of Verification	Responsib le Entities	Resources required
Interventio ns		2 0 7 6 / 7	2 0 7 7 / 7 8	2 0 7 8 / 7 9	2 0 7 9 / 8 0	2 0 8 0 / 8 1				(000 NRs)
(HR and capacity in architecture,	2.2.1 Design and Build module to improve capacity of health staffs to identify risk and use risk alerts in the communities; using eHealth tools		Х	х			Module and Training to health staffs completed as targeted.	Risk alert and response team functional at different levels	IT-MoHP, EDCD	7000
and interoperabil ity)	2.1.2 Design and Build IT module including online portal and mobile app to improve capacity RRT and EWARS data managers in analysis and e-reporting		X	Х			IT module and Training to health data managers completed as scheduled	Functional team at RRT and EWARS	IT- MoHP, EDCD	2500

Outcomes & Strategic Interventio	Key Activities		Т	imelii	пе	r	Output Indicators	Means of Verification	Responsib le Entities	Resources required (000 NRs)
ns		2 0	2 0	2	2	2				(00071710)
		7	7	7	7	8				
		6	7	8	9	0				
		7	7	7	8	8				
		7	8	9	0	1				
applicatio	2.3.1 Establish IHR compliant	1	1	X					I II-MOHP	2000
ns)	screening and information centres in border entry points and maintain database		X				Screeningd ata available	Entry point database	IT-MoHP, /EDCD	2000
	screening and information centres in border entry points		X				ata			2000

Outcomes	Key Activities		Т.	imelir	26		Output	Means of	Responsib	Resources
& Strategic	Ney Adamaco						Indicators	Verification	le Entities	required (000 NRs)
ns	SE S	2	2	2	2	2				
		0	0	0	0	0				
		7	7	7 8	7 9	8			1.0	
	200	1	,	/	1					
		7	7	7	8	8				
		7	8	9	0	1				
	Intervention 2.4: Establish and	strer	gther	n risk	alert	and r	esponse system	in case of public	health outbrea	ks and
	Intervention 2.4: Establish and emergencies	stren	gthei	n risk	alert	and r	esponse system	in case of public	health outbrea	ks and
		stren	gther	n risk	alert	and r	Number of diseases enrolled	in case of public	PPMD/E DCD/MD	<b>ks and</b> 500
	2.4.1 Develop health problem threshold alarm mechanism in surveillance system and auto	strer		n risk	alert	and r	Number of diseases		PPMD/E	

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Overall Goal	The goal of the National e-Health Strategy is to harness the potential of ICT technologies to improve health services, health governance and management

Outcomes & Strategic	rategic		Tin	nesca	ile		Output Indicators	Means of Verification	Responsible Entities	Resources required
Interventio ns		2	2	2	2	2				
		0	0	0	0	0				
		7	7	7	7	8				
		6	7	8	9	0				
		1	1	1	1	1				
		7	7	7	8	8				
		7	8	9	0	1				
Outcome	3: Improved availability and ac	cess of general and	spe	cializ	ed h	ealth	care services			

nance and founda tion

3.1.1 Develop regulatory provisions for telehealth services at different levels (including authenticity of services, professional security and client safety, user fees etc.)	X	X				Laws and guidelines are available	MoHP Admin	IT-MoHP /PPM	500
<b>3.1.2</b> Develop telehealth guideline and Standard Operating Procedures (SOPs)	X	Х				Guideline and SoPs available	MoHPAdmi n	IT-MoHP	600
3.1.3 Certification arrangement for telehealth centres		Х	Х			Number of certified tele-health centres	Tele-health centre profile	IT-MoHP	500
3.1.4 Incorporate telehealth services in minimum service standards of secondary and tertiary hospitals	X	X				Provision of tele-health services in MSS	MSS	IT-MoHP	500
3.1.5 Develop Health Facility Registry Guideline and SoPs including service site mapping and referral chain for tele-health	X	Х				HF registry guideline and SoPs available	HF registry guideline	IT-MoHP /PPM	600
Intervention 3.2: Institutionalize and stren	gthen	Tele	-Hea	Ith c	enter	s			
3.2.1Need assessment and feasibility study of Tele-health services and ICT infrastructure in all health facilities	×	Х	Х	Х	Х	List of HFs feasible for tele-health	Feasibility report	IT-MoHP	500
3.2.2 Design, Develop and Establish Tele- health unit in MoHP and provinces including support group and co-ordination mechanism with line agencies	Х	Х				Tele-health unit operational in MoHP	Tele-health focal point	QSRD	1000

							£ .			
	3.2.3 Design, Develop and Establish	1	x	l x	l x	l x	Number of	Tele-health	QSRD/MoS	40000
	Telehealth services in feasible health service outlets (infrastructure, logistics, HR, grievance handling, health insurance, central database), approx. 2000 HFs		^	^	^	^	tele-health centres	report	D D	40000
	3.2.4 Design, Develop and Establish ehealth unit and telehealth learning centres at provincial levels(HR, logistics, infrastructure)		Х	Х			Number of units functional	Annual report	QSRD/MoS D	5000
	Intervention 3.3: Establish reliable networ	k con	nect	ivity	in all	teleh	ealth centres			•
	3.3.1Formation of multi-stakeholder facilitation group for telehealth centre operation and development at centre and provincial levels	X	X				Number of co- ordination groups formed	Meeting minutes	QSRD/MoS D	800
	3.3.2 Contractual agreement and MoU with ISPs for regular services		×	Х	×	Х	Agreement for internet services	Tele-health report	QSRD/MoS D	140
Chang e and	Intervention 3.4: Develop and implement to	ıser f	riena	lly te	leme	dicine	e consultation m	echanism and p	latform	×
adopti on (HR and	3.4.1 Appoint and develop software module and program to capacitate focal points in all telehealth centers in partnership model		Х	Х			Number of focal points	Tele-health report	IT-MoHP /MoSD	15000
capaci ty in archite	3.4.2 Incorporate directory of telehealth centres in HF registry	Х	Х				Number of tele-health centres in HF registry	HF registry database	IT-MoHP /PPM	800

cture, progra mme manag ement, and standa rds and interop erabilit y)

3.4.3 Design, Develop awareness module to aware people, health clients and health workers on promoting use of telehealth services		X	Х	Х		Number of awareness events	Tele-health report	IT-MoHP /NHEICC/M oSD	2100
Intervention 3.5: Strengthen capacity of the	e hea	lth w	orke	rs to	use	Tele-Health serv	ices and applicat	tions	
3.5.1 Develop curriculum for Public Service Examination, Continuous Medical Education (CME)and in-service trainings on telehealth services and implement	X	X				Tele-health content developed	PSC, CME and in- service training package	NHTC	500
3.5.2 e-learning platform design and development for telehealth services and certification		X				e-learning platform available for HWs	Tele-health report	NHTC/ IT- MoHP	1500
3.5.3 Program development for HW exchange and experience sharing with knowledge management repository module		X	Х	Х	X	Number of HWs visit organized	Tele-health report	NHTC, IT- MoHP /MoSD	20000
Intervention 3.6: Community awareness re	gardi	ing th	ne av	ailab	oility	of TeleHealth ser	vices (including	hello health)	
3.6.1 Design, develop system to establish and strengthen hello-health toll free services for counselling and information at all levels	Х	X	X			Number of local levels with toll free services	Tele-health report	IT-MoHP /MoSD	15000
3.6.2 Public awareness and information for telehealth services through public displays including wifi displays in HFs		X	X	Х	Х	% of HFs and local levels with tele-health contained	Tele-health report	IT-MoHP /MoSD	1000

							public displays			
	3.6.3 Promote social media for public awareness on telehealth and hello health service availability and use		X	X	Х		Number ofpromotion events	Tele-health report	NHEICC/M oSD/ IT- MoHP	2800
Solutio	Intervention 3.7: Strengthen telemedicine at workers and volunteers	nd mF	lealt	h s	ervic	es to	link specialized	medical experts	with community	health
(servic es and applic ations)	3.7.1 Design and Develop roster     repository of specialized medical and     public health experts on telemedicine and	X	X	X			Number of health professional trained	Tele-health report	IT-MoHP /NHTC/NM C/NHPC	2500
<b>G</b> ,	mHealth  3.7.2 Mobile and web App development linking to health facility and expert profile inter-operable to HF and HR Registry		Х	X			Number of apps by services	eHealth solutions registry	IT-MoHP /MoSD	2000
	Intervention 3.8: Develop ICT-enabled plat should do, how and when)	forms	s to l	help	chre	onic a	and long-term pa	tients to help the		
	3.8.1 Design and Develop health care package/module including IEC, BCC, health messages for selected chronic diseases and life-style improvement		X				Number of diseases and conditions in the messages	Health messages list for chronic diseases, module	QSRD/NH EICC	2500
	3.8.2 Integrate chronic disease health package/module to country eHealth portal		×		X		Number of diseases enrolled	List of health package messages	NHEICC/ IT-MoHP	600

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developn	eractive web and mobile app nent for health care including o chronic patients		Х	X		Number of diseases in app	App registry	IT-MoHP /NHEICC	1000
Outcome 4: Increase personal health	d compliance/adherence and sati	sfacti	on to	oward I	ealth sei	rvices whilst In	creasing individu	ual responsibilities	for
Governance and foundation	Intervention 4.1: Support drive	towa	ards	CRVS	nd deve	lopment of clie	nt identifiers for	use by health serv	ices
	4.1.1Legal and procedural and technical arrangement for inter-operability among CRVS, HF registry, HW Registry, NID and RHISfor shared use	X	X	Х		Unified codes developed for health	Health information inter-operability framework	IT-MoHP /HCD/PPMMo HP	2000
	4.1.2Design, develop an d Strengthen death registration linking to CRVS and RHIS	X	Х	Х		Proportion of deaths registered with cause of deaths ascertained	CRVS database, death registry	PPM/MoSD/M oFAGA, IT- MoHP	2000
	4.1.3 Foster health sector co- ordination for and Department of civil registration for regulation, co-ordination and data sharing.	X	Х	X		Proportion of births and deaths timely and completely registered	CRVS database	PPM/MoSD/M oFAGA	1000
Change and adoption (HR and	Intervention 4.2: Train and orio	ent he	alth	worke	s to use	the related app	lications and so	ftware on health se	ervices
capacity in architecture, programme	4.2.1 Design, develop module and train health workers on data sharing mechanism and	X	Х	Х		HWs trained on eHealth	NHTC annual report	NHTC, IT- MoHP	3500

management, and standards and	eHealth products serving the clients						products			
interoperability)	4.2.2 Set institutional mechanism at all levels for integrated data management linking to CRVS, Verbal autopsy and medical certification, HMIS, HF registry and social security information	X	Х	X			% of governance mechanism at all levels having integration of systems	eHealth report	PPM/QSRD	2100
	4.2.3 Design, develop module and mechanism to promote and orient health workers to aware people for using web platforms, telehealth and apps developed or authenticated by health system	X	Х	X	Х	Х	% of HWs oriented	Training report	QSRD/PPM	3500
Solutions (services and	Intervention4.3: Develop, impl MDR TB, ANC/PNC/Delivery, Ir									AIDS, TB,
applications)	4.3.1 Design and Develop health promotion package/module, integrate to country health portal	X	X	X			Number of health promotion packages in portal	Health web portal	IT-MoHP , NHEICC	2000
	4.3.2 Design and develop and/or promote mobile apps for NCD prevention and health promotion including traditional medicine	х	X	X			Number of apps developed by diseases	App registry	IT-MoHP	2500

4.3.3 Design and Develop set	x	X	×	×	×	Number of	Health	NHEICC/	30000
of health messages (sms, email and other media) for periodic circulations (reminders, follow-up) for continuum of care and deliver						messages delivered by services	message database	IT-MoHP	
4.3.4Design and Develop trackers for selected health services and integrate to HMIS	X	Х	X			Number of trackers	App registry	PPM/QSR D	5000
Intervention 4.4: Develop mec	hanis	sm to	sen	d app	ooint	ment reminder m	essages		
4.4.1 Design and Develop and deploy reminder messages for high priority public health programs and morbidities		×	X			Number of messages developed	Message list	IT-MoHP /NHEICC	2500
4.4.2 Design and Develop Arrangement for selected health services protocols access through mobile apps for knowledge on continuum of care and follow ups		X	X			Number of protocols in public domain by diseases	Health web portal	QSRD	1600
4.4.3 Design and Develop and deploy electronic health recording (EHR) system in HMIS and link with auto reminder for follow ups	Х	Х	X			Number of reminders sent to clients	HMIS database	MD/PPMD/ QSRD	10000

Intervention 4.5: Use digital personal health records

4.5.1 Design and Conduct an assessment on infrastructure, HR and other requirements in the hospitals for digital personnel health records	X	X			Assessmen t report	MoHP portal	IT-MoHP /PPMD	1000
management  4.5.2 Develop hospital information system for personnel health records			X	Х	Number of hospitals with EMR	HMIS database	QSRD/MD/ PPMD	100000
management and sharing  4.5.3 System development for sharing health information to insurance			X	X	Number of clients shared the data	Health Insurance System database	MD/PPMD, IT-MoHP	5000
4.5.4 Develop information sharing mechanism (HF registry, HR registry, EHR, Ambulance registry etc) for referral and emergency management			×	×	Number of cases referred using the mechanism	HMIS	MD/QSRD	10000

			Tir	nesc	ale					
Outcomes & Strategic Interventions	Key Activities	2 0 7 6 / 7	2 0 7 7 / 7 8	2 0 7 8 / 7 9	2 0 7 9 / 8 0	2 0 8 0 / 8 1	Output Indicators	Means of Verification	Responsible Entities	Resource required (NRs 000
Outcome 5: In	nproved enabling environment and cap	pacity	for o	deliv	ery of	fsafe	and effective health	services		
Governance and foundation	Intervention5.1: Strengthen the eHealth p	olicy a	nd sup	porti	ng env	vironn	nent			
roundation	<b>5.1.1</b> Policy, regulation, and protocol development on eHealth implementation for health workers	Х	Х				Procedural documents are available for HWs	Regulatory documents	QSRD/PP MD	500
	<b>5.1.2</b> eGovernance implementation is put in office procedures at all levels	х	Х				Office procedure is available with eGovernance priority	Office procedures at all levels	Admin. MoHP	800
	<b>5.1.3</b> Develop transition plan for paperless office and service delivery at all levels		Х				Process and actions for paperless office available	Transition plan	Admin/Q SRD/Mo SD	500
	<b>5.1.4</b> Make provision of posts for IT in the health system		Х	Х	Х		Posts for IT provisioned	Number of posts created	Admin/ IT- MoHP /MoSD	2500

		4	Tin	nesca	le					
Outcomes & Strategic Interventions	Key Activities	2 0 7 6	2 0 7 7	2 0 7 8	2 0 7 9	2 0 8 0	Output Indicators	Means of Verification	Responsible Entities	Resource required (NRs 000
	TOTAL COMMENTS OF THE PROPERTY	7 7	7 8	7 9	8	8				
	Intervention5.2: Improve availability and a	utilizat	ion of	stand	ard IC	T log	istics (equipment) in the	health facilities		
	<b>5.2.1</b> Advocacy for provisioning concessions and exemptions in IT equipment and services for health			Х	х		Low price ICT and modern equipment available to the health workers	Approved list for concession and exemptions	MoHP/H CD	100
	5.2.2Equip all health facilities with electricity, computer, display board, internet and other logistics related to ehealth initiatives	х	х	х			% of facilities with computer and internet	Inventory database, NHFS	QSRD/PP MD/MD/ MoSD	100000
	5.2.3 Develop electronic inventory of logistics (equipment, infrastructure and other assets) at all levels	х	х	х			% of facilities electronic inventory of logistics	Inventory database, NHFS	QSRD/PP MD/MD/ MoSD	3500
	Intervention 5.3: Define national standard	for eHe	alth i	nform	ation	stora	ge and use based on inte	rnational standard	Is	
	<b>5.3.1</b> Definenational standard for eHealth information storage, use and sharing		х	х			Protocols and guidelines in public domain	e-Library	IT- MoHP	1500
	<b>5.3.2</b> Operate all servers at GIDC	×	×	Х			Servers hosted at	GIDC server	IT-	1000

			Ti	mesc	ale					
Outcomes & Strategic Interventions	Key Activities	2 0 7 6 / 7 7	2 0 7 7 / 7 8	2 0 7 8 / 7 9	2 0 7 9 / 8 0	2 0 8 0 / 8 1	Output Indicators	Means of Verification	Responsible Entities	Resource required (NRs 000
	(Government Integrated Data Center)						GIDC		MoHP	
	Intervention 5.4: Identify appropriate refer	rral ne	twor	k and	establ	ish lii	nkages			
	5.4.1Develop/revisitreferral guideline for all services incorporating eHealth infrastructure, tools and techniques (HF registry, ambulance registry, HMIS, HR registry, GIS based maps and utilities)		х	X			ICT enabled referral guideline available to HWs	eGuideline for referral system	QSRD	3000
	<b>5.4.2</b> Guideline and protocol development for web based applications and mobile apps for referral			Х	Х		Guideline and protocol for referral apps	Referral portal in MoHP web	QSRD	1500
	<b>5.4.3</b> Develop guideline for GPS equipped ambulance operation and central command system			X	Х		Guideline and protocol for referral apps	Referral portal in MoHP web	QSRD	500
	5.4.4 Incorporate IT based referral and emergency management in minimum service standard (MSS) of health services			Х	Х		Coverage of ICT based tools and referral in MSS	MSS Booklet	QSRD	600
hange and doption (HR	Intervention 5.5: Improve knowledge and ski	ills of	healti	h worl	kers (ii	nclud	ing health volunteers) on	eHealth		
аорион (пк	5.5.1 Design, Develop and deploy capacity	Х	Х		T		Training/learning	Packages in	IT-	30000

			Tir	nesca	ale					
Outcomes & Strategic Interventions	Key Activities	2 0 7 6 / 7	2 0 7 7 / 7 8	2 0 7 8 / 7 9	2 0 7 9 / 8 0	2 0 8 0 / 8 1	Output Indicators	Means of Verification	Responsible Entities	Resources required (NRs 000)
and capacity in architecture, programme	building to HWs on eHealth tools and techniques (study curriculum, in-service training, iLearn, CPD, CME etc)						packages available	eLearning site	MoHP, NHTC	
management, and standards and interoperability)	5.5.2Establish remote mentoring system for key health services connecting experts and develop mobile/web app training for capacity development				Х	Х	Central remote mentoring system established	Platform for mentoring in MoHP web	QSRD/ MoSD	5000
	5.5.3Establish e-library, eLearningand webinar facilities at all levels		Х	Х	х		e-library established and regularly updated	eHealth report	Admin/ PPMD/ QSRD	5000
	5.5.4 Conduct seminars, exchange visits, symposium, honoring program and other promotional events for HWs for eHealth		Х	Х	Х	Х	Number of exposure events for eHealth	eHealth report	NHEICC /NHTC/ QSRD	5000
	Intervention 5.5: Promote health workers to	o use I	CT sol	utions	and	applic	ations			
	<b>5.5.1Revise Job Description of HWs</b> incorporating eHealth		Х	X			Revised job description of HWs	JD of HWs	NHTC/A dminD MoHP/ QSRD	1000

3.Health wor	kers (Service providers)									
			Tir	nesc	ale					
Outcomes & Strategic Interventions	Key Activities	2 0 7 6 / 7 7	2 0 7 7 / 7 8	2 0 7 8 / 7 9	2 0 7 9 / 8 0	2 0 8 0 / 8 1	Output Indicators	Means of Verification	Responsible Entities	Resource required (NRs 000
	5.5.2Use of ICT enabled training resources in all the trainings and orientations for health workers		х	х	Х	Х	Revised training packages and methods	eHealth enabled and contained training packages	IT- MoHP, NHTC	5000
	5.5.3Enable access of health workers to eHealth resources and professional development resources		Х	Х	Х	Х	eHealth products and resources available in public	Visitors to resources	QSRD/N HTC/NH EICC	2000
	5.5.4 Honor and felicitate health workers for using ICT tools to improve efficiency and effectiveness			Х	Х	Х	Performance standard set for honoring health workers	Number of health workers honored	NHTC/Q SRD/Ad minD	3000
	Intervention 5.6: Include eHealth content in	the c	ourse	curric	ulum	of diff	ferent level health course	s		
	5.6.1Revise health worker's curriculums to incorporate eHealth including public health, MBBS, Nursing, HA			Х	Х	Х	Revised curriculum for health	Hws courses	IT- MoHP ,NHTC	2000
	5.6.2 Initiate health informatics course in Nepal in collaboration with universities and training centers		Х	Х	Х		Health informatics education initiated	Number of students enrolled	QSRD/P PMD/A dminD	3000

			Tin	nesca	ale					
Outcomes & Strategic Interventions	Key Activities	2 0 7 6 / 7	2 0 7 7 / 7 8	2 0 7 8 / 7 9	2 0 7 9 / 8 0	2 0 8 0 / 8	Output Indicators	Means of Verification	Responsible Entities	Resource required (NRs 000)
	5.6.3 Develop ICT based training packagesand make available with roaster of resource persons minimizing oral lectures		Х	Х	Х		Training packages with ICT based lectures and demos	Health portal	NHTC/Q SRD	2500
Solutions	Intervention 5.7: Digitalize national medica	l stand	dard d	ınd cli	nical <sub>l</sub>	roto	ol and make available to	the health worke	rs	
(services and applications)	5.7.1 Update and digitize national medical standard and clinical protocols		Х	Х	Х		Medical standards and protocols digitizedand posted	Health portal	QSRD	3000
	5.7.2 Update and digitize all health service guidelines, regulations and service delivery methods		Х	X	х		Documents updated and made available in public	Number of documents digitally available	QSRD	5000

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Outcomes & Strategic Interventions	Key Activities		Ti	meli	ine		Output Indicators	MoV	Responsible Entities	Resources required (NRs 000)
Outcome 6: Ent	nanced access to data and information fo	2   0   7   6   / 7   7	2 0 7 7 / 7 8	2 0 7 8 / 7 9	0 7 9 / 8 0	2 0 8 0 / 8 1	anagement, governa	ance and evidence	e-based decision	making
Governance and foundation	Intervention6.1: Strengthen governand architectural framework							-		
	6.1.1 Operation of the Steering Committee (SC) and TWG for eHealth at MoHP		X				Steering Committee (SC) for eHealth re- profiled	Meeting minutes	QSRD	1500
	<b>6.1.2</b> Strengthen M and E at federal and provincial level for ehelath monitoring and evaluation		X	X			M and E framework developed	M and E framework	PPMD	500

<b>6.1.3</b> Establish multi-disciplinary Research and Development (R and D) mechanism under IT-MoHP to evaluate eHealth solutions, standardization and co-ordination	×	×	X	Х	×	R and D team formed	Number of products evaluated	IT-MoHP	2000
<b>6.1.4</b> Conduct annual convergence meetings with key stakeholders		х	x	х	х	Annual convergence meetings	Meeting reports	QSRD/HC D	4000
<b>6.1.5</b> Form eHealth TWG at provincial levels and assign focal points for coordinating federal and local levels		X	Х	X	X	eHealth TWGs at provinces	Number of TWGs	QSRD/HC D	2800
<b>6.1.6</b> Promote automated office process for paperless works (file tracking,eAttendance, grievance management, digital signature etc),		Х	Х	Х	Х	eGovernance conceptualized	eGovernanc e report	IT-MoHP	4000
Intervention6.2: Establish interoperabi	lity la	ayer	for h	ealth	info	ormation systems by	adopting open H	IIE	
<b>6.2.1</b> Design, Develop and Deploy the health enterprise architecture (EA)		X				EA report available	EA report	IT-MoHP	1500
<b>6.2.2</b> Review, adopt, implement relevant open standards			Х	х	х	Revièw report	Number of standards adopted	IT-MoHP	1500

6.2.3 Develop and communicate specification and standard for health information system and eHealth/mHealth tools	X	X				Specification and standard rollout	Specificatio n/standards booklet	IT-MoHP	2000
6.2.4 Develop registries as required by Open HIE Framework (HR, CR, TR, HF, Inventory registry etc)	×	Х	Х			Registries developed	Registry database	IT-MoHP	20000
6.2.5 Develop code banks for inter- operability (HR, Logistics, HF, Geography etc) and make public	X	Х	X	Х		Code compilation in publicdomain	Code book	IT- MoHP,HCD	2500
Intervention 8.3: Develop and enforce	minin	num	stan	daro	for	data reporting from	both state and n	on-state actors	
<b>6.3.1</b> Design, Develop and Establish data sharing arrangements among registries and information systems			×	×	×	Registries are inter-operable	Data sharing guideline	IT-MoHP	500
data sharing arrangements among		X	х	X	X	0	sharing	IT-MoHP  IT- MoHP/HCD	1000

Intervention6.4: Establish national health data bank and ensure security of data establishing multiple backups in different locations

	<b>6.4.1</b> Establish provincial and national health data bank in coordination with GIDC	Х	х				Data bank establish and functional	eHealth report	QSRD	500
	<b>6.4.2</b> Develop policies and advocacy for data sharing, use, data security and privacy	×	х				Policy and regulation developed	Data sharing guideline	IT- MoHP/MD/H CD	1500
Change and adoption (HR and capacity in	Intervention6.5: Capacity enhancemen – long and short term courses in collal			_			•	of eHealth pol	icy and strategic	management
architecture, programme management, and standards	<b>6.5.1</b> Convene high level inter-sectoral meetings for eHealth promotion and sensitization to policy and decision makers		X	х	х	х	Inter-sectoral meetings held	Meeting minutes	HCD	1200
and interoperabili ty)	<b>6.5.2</b> Develop sensitization and innovation promotion campaigns for policy makers at local levels			Х	Х	Х	Local level leaders are sensitized on eHealth use	eHealth report	HCD /QSRD/MoS D	3500
	Intervention6.6: Promote the use of th	e exi	sting	info	orma	tion	systems for decision	making, monito	oring and plannin	g
	6.6.1Ensure mechanism for data use by policy makers and feed into annual and periodic planning process		X	Х	X	X	Policy makers are aware of the health situation and reflected in policy and planning	Meeting minutes	PPMD	400
Solutions (services and applications)	Intervention6.7: Ensure quality health i dashboards) – inbuilt data validation a							to the program	nme managers (us	er friendly

<b>6.7.1</b> Design user specific application/ format for sharing information (eg report, brief, dashboardetc)		×	×	×		Information sharing platform developed	Number of visitor	PPMD/MD	500
6.7.2Mechanism set for analyzing information from different sources, quality assurance, synthesize and triangulate		×	X	×	×	Data analysis group formed	Analytica I report	PPMD	1000
Intervention6.8: Strengthening of exist and e-monitoring systems, including st	ing I	healti y cha	h info in m	orma onite	ation	systems – electronic and management sy	record system stem	, e-reporting (we	b and mobile
6.8.1 Develop IT based continuous performance monitoring system for	Х	Х	X	X	Х	Performance monitoring system developed	Performa nce monitorin	PPMD	500
programs and operationalize							g report		
provinces, local levels and health programs and operationalize  Intervention 8.9: Introduce office automoffice	natio	n at s	state	and	non	state health institutio	0 1	I transition towa	rds paperles