

IKDAR-MMIL Pilot Project

Note: This Concept Paper is extracted from the Invitation

EXECUTIVE SUMMARY

IKDAR (Imran Khan Development Applied Research), at www.ikdar.org, is partnering with NGE Solutions (www.ngesolutions.com) to launch about 4 Smart Hubs under the general umbrella of the UN ICT4SIDS Partnership (www.ict4sids.com). The focus of this Pilot Project is on IKDAR MMIL (Medical Medicine Imaging Laboratory), described in detail elsewhere (www.ikdarmmil.org). This document serves as the main information resource for the Pilot Project and gives an overview of the Pilot Project, the computer aided methodology used and the results produced in different phases of the Pilot Project.

The Main Idea:

Based on a Skype Discussion Session on December 1, 2017, the main idea is that the Pilot Project will help IKDAR launch the following Telemedicine Portals in Pakistan to support the MMIL hubs:

- MMIL1-Mobile health clinic
- MMIL2-Clinic for hypertension
- MMIL3-Small town MMIL (Community Center)
- MMIL4- MMIL Regional Center (with Business Intelligence and Administrative Capabilities)

Table1 captures the main information about these Portals (Please note that this information is based on best guesses) and Section 2 describes the Phase2 Plan to move forward.

Table1: KEY QUESTIONS TO GET STARTED

P0 (Country/Region Specification): What is the region/country involved – Pakistan, south _East Asia__

Service Specification	MMIL1	MMIL2	MMIL3	MMIL4
<ul style="list-style-type: none"> • What is the SDG Goal number (e.g., 1, 2, 3,,17) and/or name of a sector your Hubs will focus on (e.g., health, education, public safety, public welfare, etc). 	SDG 3 (Health)	SDG 3 (Health)	SDG 3 (Health)	SDG 3 (Health) Plus BI, Admin, etc
<ul style="list-style-type: none"> • What are the names of the 3-4 service you are interested in (e.g., telemedicine, educating school teachers, disaster management, etc) – Please select From Exhibit1 	Mobile Health Clinic	Telemedicine Clinic (Hypertension Service only)	Telemedicine Community Center (2-3 Services)	MMIL Regional Center with BI, Admin, etc

• Is this Hub virtual (website), physical or both	Virtual (Portal only)	Both (Physical site + Portal)	Both (Physical site + Portal)	Both (Physical site + Portal)
• Is this Hub for Urban or Rural areas	Rural	Rural	Urban	Both (Rural + Urban)
• How many users will be served (typically 5000-10,000) .	5000	10,000	20,000	Around 50,000
• Will it operate at a Local, State (Regional) or National level.	Local	Local	Regional	National
• Will the service be mainly information dissemination (e.g., guidance, advice) or transactional (e.g., online purchasing)	Information dissemination	Information & Transactional (e.g., provide medication)	Information & Transactional, Real-time	Information & Transactional, Real-time, & Composite
Self Assessment:				
• What are the major benefits (e.g., public service).	Public Service	Public Service plus Economic Impact	Public Service plus Economic and Social Impact	Public Service plus Economic and Social Impact
• Do the users need to be trained for maximum benefits.	Nurse as a Hub Master s	Nurse as a Hub Master s	Physician as a Hub Master	Physician, Nurse and an Administrator as a Hub Master
• Do you need trained staff to manage this Hub	No	No	Yes	Yes
• What are possible sources of funding.	TBD	TBD	TBD	TBD

Signed and Dated (ICT4SIDS POC):

Signed and Dated (User Point of Contact):

Table 2: Sample SPACE Services

SPACE supports almost 100 services in sectors such as economic development, education, healthcare and others (see the table below). In addition, the ICT infrastructure is a horizontal sector that supports all vertical sectors. These services can also be combined into “Service Bundles” that represent inter and intra enterprise composites such as villages, communities, cities and B2B marketplaces. This is a very powerful capability that can be used to build models of a large number of configurations in public and private sectors.

Economic Development	Education	Healthcare	Law Enforcement & Safety	Transportation & Agriculture	Public Welfare & Environment Services	Common Services
Entrepreneurship Micro-Entrepreneurship Micro-Financing Information Systems e-Employment e-Tourism e-Library (public)	Educating Primary School Teachers e-learning for the handicapped e-Learning Support System e-Library (school)	Mobile Health Clinic Electronic Health Records Emergency Medical Service m-Health (General) Hospital Information System Patient Information System Decision Support for Health Telemedicine e-Behaviourial Health	Police & Fire Services Police Crime Investigation Services Social Network Services for Governments Additional Law and Order Services Weather Alert and Travel Warning Food Quality and Drinking Water Purity Disaster Management and Recovery	Optimal Route Planner Alert Systems Automobile Licensing e-Agriculture 2.0 E-Agriculture Phone2SMS Eservices for Food Safety Precision Agriculture eServices for Agriculture	Social Services Citizen Welfare Services Public Healthcare Service eLearning for Needy Children Assisted Living eCare for Aging Populations Entrepreneurship Welfare Programs Clean Air Environmental Monitoring Environmental Analytics	Corporate Management Services Customer Services Marketing Services Sales Services e-Payment EFT – Electronic Fund Transfer Credit Card Detection System e-Banking System
ICT Infrastructure Services (Horizontal)						
- Broadband Access, Network Management, Social Networking (*e-Participation, e-Voting), Cloud Computing						
Enterprise-Wide Service Composite (Service Bundles that Combine Many Individual Services)						
- Offices, Departments, Initiatives (e.g., MDG, Mobility, Telemedicine, Aging Population) Services, Firms, Business Units, eCities, eCommunities, Government Specific Initiatives						
Inter-Enterprise Service Composites (Service Bundles for B2B and G2G Integrations)						
- G2G Services (Interagency Exchanges), Supply Chain for Food Distribution, Health informational Networks, Educational Networks, Entrepreneurial Networks, B2G Services						