

NEW, INNOVATIVE UNIVERSAL SERVICE PROVISION (USP) PROJECTS IN MALAYSIA

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Strategy & Policy Review, MCMC

ITU-USF (Pakistan) Workshop on "Internet Access and Adoption" 11 October 2018

COMMUNICATIONS & MULTIMEDIA OUTLOOK





*** Department of Statistics Malaysia

INTRODUCTION





USP is a mechanism to bridge the digital divide

National obligation imposed on all licensees since 2002



Main objective to ensure underserved communities have access to communications and ICT facilities to build a knowledge society

Implementation of USP programme is funded through USP Fund



UNIVERSAL SERVICE TARGET





Underserved Groups



Women under

People living in lowcost housing area

"Underserved Area" is defined from the perspectives of network and application services i.e. PSTN, Broadband Access & Public Cellular

"Underserved Groups" being groups of people in served areas that do not have collective and/or individual access to basic communications services

USP Regulations 2002 & (Amendment) 2008

USP FUND

- Established under Section 204 of the Communications and Multimedia Act (CMA) 1998
- All licensees whose weighted net revenue (from services) exceeds the minimum revenue threshold of RM2 million in a calendar year shall contribute 6% of their weighted net revenue to the USP Fund.
- Content Applications Services Provider (CASP) lie exempted

Contribution Amount Weighted Net Revenue Contribution Rate





USP ROLLOUT MECHANISM





Submission of draft plans upon issuance of tender notice Submission of draft plans before 30 September each year

EVOLUTION OF USP PROJECTS





• Public payphone

ROLES & FUNCTIONS OF INTERNET CENTERS





Center for Creative Innovation

Entrepreneurship, creativity and innevation hous for sectioeconomic development and local content development



A hub for online marketing and business activities and support for e-government, ecommerce, employment opportunities, online banking, etc



Acts as a repository of knowledge/content with various success stories, failures and lessons learned from the field.

FACILITIES & SERVICES OFFERED



OPERATING HOURS

SERVICES OFFERED



TYPES OF INTERNET CENTER





⁸⁵² total

SMART COMMUNITY - Kota Belud, Sabah

- Smart Community committee established in 2015
- Objective is to raise the living standard, economy and communications facilities of Kota Belud
- Chaired by local district officer, members include various local departments, agencies and MCMC

Next Generation Internet Center:

- Weather monitoring & water level sensors
- Water sensors installed at a few rivers identified as flood hotspots
- 12 CCTV monitors installed around Kota Belud town connected to the police command centre
- Early warning system for local authorities and community in case of danger





Security And Integrated Flood Operation Network (S.A.I.F.O.N)



SMART COMMUNITY – Kemaman, Terengganu

- Population 256,000
- Area 2,535 sq km
- Economy: Oil & gas, fishery, government, agriculture

Next Generation Internet Center:

- Flood management system an integrated system that enables the authorities to monitor floods at all times
- Project led by district officer, local assemblyman & other local community leaders



Web tool – flood forecasting





Severe flooding in Kemaman

Command center equipped with wide area CCTV monitoring

BANKING, E-COMMERCE & FULFILMENT CENTER

A catalyst for change in rural communities



- Authorised agent for BSN
- Opening of BSN accounts
- Savings transactions
- Cash withdrawals
- Bill payments
- Prepaid reloads
- Premium savings certificates

GDEX. KAMPUNG

- Pilot initiative Kampung by GDex
- Collaboration between MCMC, GDex and Internet Center USP providers
- Appointed 15 Internet Centers as courier agents in March 2018
- Centers located along existing routes
- Most popular product is parcel below 1 kg



- Strategic partnership with MCMC since 2016
- 36 pilot sites, target 100 by 2020
- Provide value added services, eg., sell prepaid envelopes and boxes, registered mail and stamps
- Acceptance counter for Pos courier delivery, ordinary mail and registered mail and call point for delivery service



BANKING, E-COMMERCE & FULFILMENT CENTER: **OUTCOMES HAVE BEEN ENCOURAGING**





- Service has been very well received by the local communities
- Internet Centers have become profitable from providing this service
- An indication of pent up • demand for banking facilities in rural areas
- Possibilities for the future



- Not all pilot sites have done well but GDex is planning some improvements
- MCMC has given approval to start phase 2 but with different model
- Internet Centers will be equipped with mobile application GDEX GO which will allow customers to do all transactions online
- Customers can drop off parcels at the 50 • Internet Centers for collection by the courier



- Not all pilot sites have done well, but Pos Malaysia is planning some improvements
- Sites that do not have any transactions will be transferred to other Internet Centers which have better potential
- For Phase 2, the focus would be on East Malaysia states under the Postal Transformation Plan for Sabah & Sarawak (PTPSS) 15

E-HEALTH INITIATIVES

First pilot project was conducted in 2013

- Objective: to develop an integrated ecosystem for delivery of healthcare services to rural communities through Internet Centers
- Remote patient monitoring at 12 Internet Centers
- Collaborated with a private healthcare provider
- Devices were placed at the Internet Centers to check body weight, blood pressure, glucose, bone mineral density
- Conducted promotion and awareness campaigns at surrounding communities
- Results were entered into an online portal and reviewed by a doctor before making recommendation to go to a clinic







E-HEALTH PILOT WITH MOH

- This is second pilot project
- In 2016, MOH initiated the collaborated with MCMC on KOSPEN project, whereby MCMC is the ICT partner
- MOH aims to empower rural Malaysians and promote patient independence
- Reduce costs and increase efficiency of healthcare system



- Basic health indicators (blood pressure, glucose, BMI) can be easily screened
- ✓ 32.8 % Malaysian Internet users are from rural areas¹
- ✓ Ideal for outreach programs and as a 1st screening point
- ✓ Eases the long queue and burden on doctors at government clinics
- ✓ Generates traffic at Internet Centers



Results after 6 months:

- 5,401 new users
- 3,361 (62%) did health screening
- 2,948 referred to clinics for further check-up





Source: WHO Non-Communicable Diseases Country Profiles, 2011

BENEFITS OF MCMC-KOSPEN COLLABORATION



- It allows KOSPEN to modernize their health screening processes by using ICT at Internet Centers
- It is in line with MOH's strategic plan to create a health ecosystem geared towards promoting healthy lifestyles and disease prevention



QUESTIONS FOR THE FUTURE DIRECTION OF E-HEALTH INITIATIVE



- MOH is keen to expand the project beyond 26 pilot sites
- MCMC also wants to expand to 5 new states
- Currently evaluating:
 - franchise requirements
 - success factors before finalizing the locations and Internet Centers
- Possibilities of having a standardized, nationwide Dashboard, use of Big Data for detection of health issues and hotspots
- MCMC will have to study policy and guidelines on privacy, use of the data collected, etc.

ONLINE RADIO AMATEUR EXAMINATION



- Radio Amateur examinations (RAE) are held every month
- In specific locations such as hotels & public halls
- With the e-RAE system, the exams are conducted online and there is no need to go to a specific location
- Pilot in 2016 at 14 Internet Centers
- Maximum of 10 persons due limited classroom capacity
- From 2019, it will be available at all Internet Centers nationwide due to usage of the cloud system
- Results will be available immediately & printable on-site
- Overall results will be pushed back to the server in MCMC for record purposes



CYBER WELLNESS : INTERNET SAFETY IS A MAJOR CONCERN





Internet content complaints received by MCMC is on an increasing trend

• Figures as at June 2018 are already over 50% of those received in 2017

The barge second second for displayed.

With increased accessibility of the Internet, more will be exposed to risks of harm

- MCMC Internet User Survey (2017) **76.9%** internet users and growing; increasing e-commerce trend (**48.8%** up from 35.3% previous year).
- **64.6%** do not shop online due to security & privacy concerns;
- Low levels of awareness on personal safety online **92.2%** of Internet users disclosed that they have shared personal information online (photo, DOB, contact info, workplace, home)
- The Image Service Service's Replaced

Exposure to inappropriate content have occurred as early as 10 years old

- MCMC Focus Group Study (2015) found **75%** children surveyed have seen inappropriate material online;
- 64.4% of parents do not have rules for internet use

NATIONAL ACTION PLAN ON CHILD ONLINE PROTECTION (COP)



- Under the Ministry of Women, Family and Community Development
- Objective is to ensure all children receive protection from cyber threats
- This action plan requires the cooperation and commitment of all parties, especially parents, guardians, teachers, the community and NGOs
- MCMC is involved in advocacy & preventive measures in the action plan



MCMC AS A CYBER WELLNESS PROVIDER





2018 and beyond

Managing online risks

 Users need to know how to make the right choices online and to equip themselves with the relevant knowledge & skills.

Building resilience

 Children need guidance from parents to maneuver the internet in a safe manner. Parents need to be provided with tools and knowledge that can help them carry out their responsibilities.

Digital Empowerment through volunteerism

 Platform for organising & mobilizing the resources of volunteers to assist in improving the levels of media and digital literacy among the public.

EVOLUTION OF CYBER WELLNESS CAMPAIGNS





TRAINING AND ENTREPRENEURSHIP INITIATIVES



Number of members		550,335		
Number of people trained				
	2017	2	018 (Jan – Aug)	
Male	280,413		151,090	
Female	317,293		183,363	
Total	597,706		334,453	

Types of Courses
MS Office
E-Learning
Digital Literacy
E-Commerce
ICT
Website building
Entrepreneurship
Multimedia
Soft skills
PC Hardware

STUDENT

Azrul Hafiz Khairulanuar – Sungkai, Perak

- Diagnosed with ADHD
- Had difficulty communicating
- Now Learnt to pronounce words properly especially English through YouTube. Built confidence to speak. Improved focus, attention and concentration at school (as related by the school teacher)

RECOGNITION & AWARDS FOR ENTREPRENEURS



WINNERS FOR INTERNET CENTRE BEST ENTREPRENEURS 2017

Best Entrepreneur from Northern Region

Name : Product :

Nur Isma Afifi Binti Md Aris Stingless Bee Honey

Online marketing generates sales opportunities for honey-based products. Sales increase from RM2,000 to RM10,000. Sold to Brunei, Indonesia and Thailand.

Best Entrepreneur from Sabah Region

Name:Eriy binti DusunProduct:Tuhau based foodOnline marketing technique helps to increase monthly sales from RM80 toRM3,000

Best Entrepreneur from Sarawak Region

:

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Name Product

Zulkipli Bin Ibrahim Perfume

Leveraged on ICT and online marketing strategy, sales increased from RM1,000 to RM7,000 per month. Sold to Brunei, UK and Australia.





CHALLENGES GOING FORWARD



Sustainability: funding the operations; maintaining the resources	 Cooperative model to fund the operations; Rewards for long service supervisors 	
Program enrichment: STEM, IR 4.0	 Collaboration with schools and private sectors 	
Inclusive: Participation of rural and remote communities	 Reaching out to the target communities 	
Project award: implementation mechanisms	 Implementation policy/ mechanism to be reviewed 	



OTHER USP INITIATIVES



2003

1,252

payphones installed





TELEPHONY

First USP Project

Provide access to basic telephony service in underserved communities throughout the country



Pilot Project – Julau, Sarawak



2007



COMMUNITY INTERNET CENTER

Provision of broadband access up to 20Mbps at selected premises in underserved areas and for underserved groups

2014 URBAN INTERNET CENTER

2015 MINI INTERNET CENTERS & NEXTGEN CENTERS



852 sites completed







CELLULAR & MOBILE BROADBAND COVERAGE EXPANSION

Rolling out new communication towers and upgrading existing towers to improve 3G coverage in underserved areas nationwide

5,811 sites completed





WIFI HOTSPOTS

2010

Provision of collective wireless internet access (hotspots) at selected locations in underserved areas

2,535 sites completed

From 2013 - Hub & Spoke Concept











NETBOOK PROJECT

2010

Provision of netbooks to underprivileged students from low-income families and Teacher Activity Centres (PKG) for the purpose of information technology education







FIBER OPTIC NETWORK EXPANSION

Upgrading of existing backhaul network to fiber optic to accommodate high-speed mobile services

759

2014

kilometres completed





SMART DEVICE WITH INTERNET PACKAGE

Offers smart devices such as smartphones or tablets at lower prices compared to recommended retail price

2,437,300

units activated





FIXED LINE BROADBAND EXPANSION

Provision of broadband infrastructure with speeds of up to 20Mbps in rural and suburban areas

421,024 connections available

2015





3,819 kilometers completed

SKR1M SUBMARINE CABLE SYSTEM

Installation of submarine fibre optic cables (est. total distance of 3,800km) that will connect Peninsular Malaysia to Sabah and Sarawak with 4Tbps capacity.





Thank you

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