

# Malaysia's Experience To Increase Broadband Penetration

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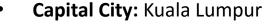


4.0



#### MALAYSIA IN BRIEF





• **Total Area:** 330,252 sq km

• **Population:** 31,989,790 million

Ethnic Groups:

50.1% Malay

22.6% Chinese

11.8% Indigenous

6.7% Indian

8.8% other

#### **Population Density:**

92 persons per sq km

**Urban Population:** 62% **Households:** 7.412 million

Anthem: Negaraku







# About MCMC Power & Functions of the Commission



MCMC is the industry developer and regulator for the converged communications and multimedia sector which covers telecoms, broadcasters and ISPs, postal and courier services, digital certification authorities

#### **Administers the following Acts:**

- Communications and Multimedia Act 1998 (CMA)
- Postal Services Act 1991
- Digital Signature Act 1997

- A statutory corporation
  - Established under the Malaysian Communications and Multimedia Commission Act 1998
  - effective from 1 November 1998
- Operational autonomy but subject to policy directives from Minister
- Independent from a financial and management standpoint
- Transparent approach processes stipulated in legislation and subsidiary instruments <sup>4</sup>

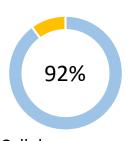
#### **CURRENT TELECOMMUNICATION INDICATORS IN MALAYSIA**



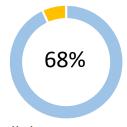
#### **COVERAGE AND PENETRATION**



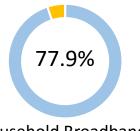
Cellular coverage (2G) at populated areas



Cellular coverage (3G) at populated areas



Cellular coverage (LTE) at populated areas



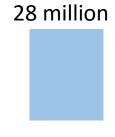
Household Broadband penetration

#### **SUBSCRIPTIONS**

43.9 million



subscriptions



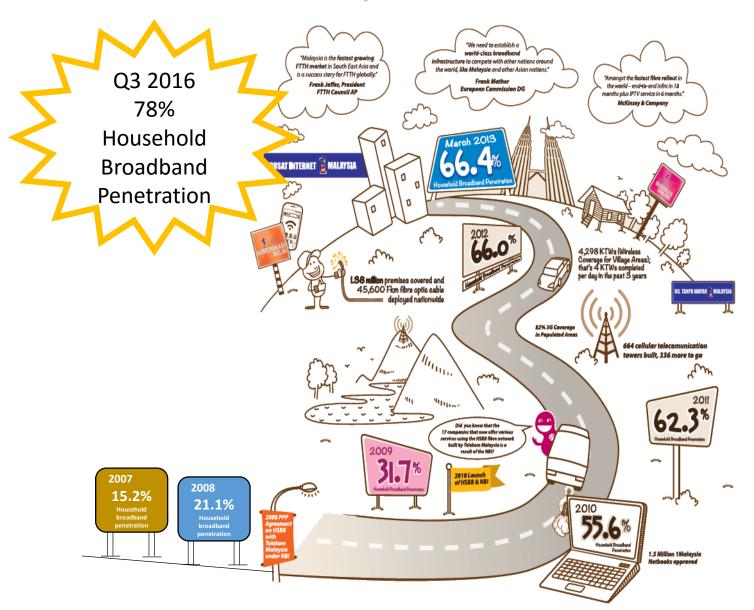
Mobile Broadband subscriptions



**Fixed Broadband** subscriptions



#### Our Broadband Journey.....



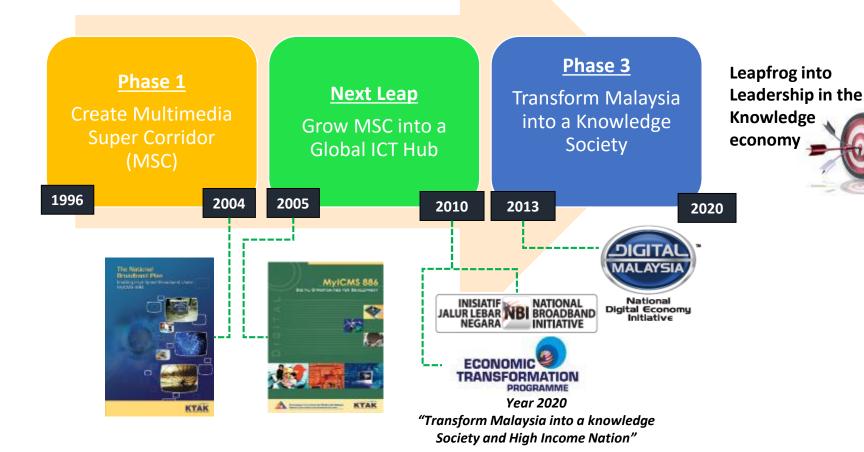


# Malaysia Initiatives

#### **ROADMAP OF NATIONAL ICT FRAMEWORKS**



The MSC Vision: From Here to 2020



#### **MyICMS 886**



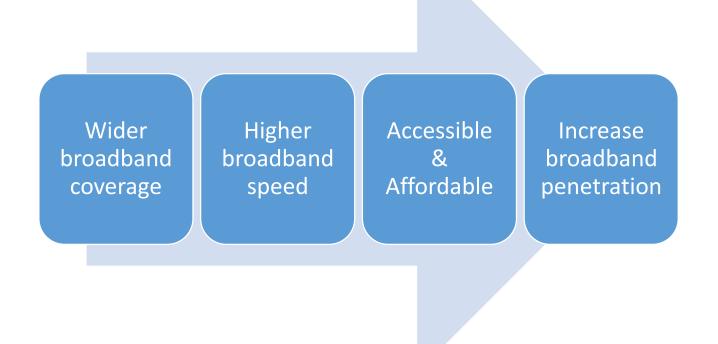
# Strategy outlined for the development of Information, Communications and Multimedia Services (ICMS) in Malaysia (2006 – 2010)

- MyICMS 886 is a Identified 8 key service areas, 8 types of infrastructure and 6 growth areas as focus points for development;
- Aims to create a catalystic cycle enhancing investment in existing services and infrastructure to generate growth areas



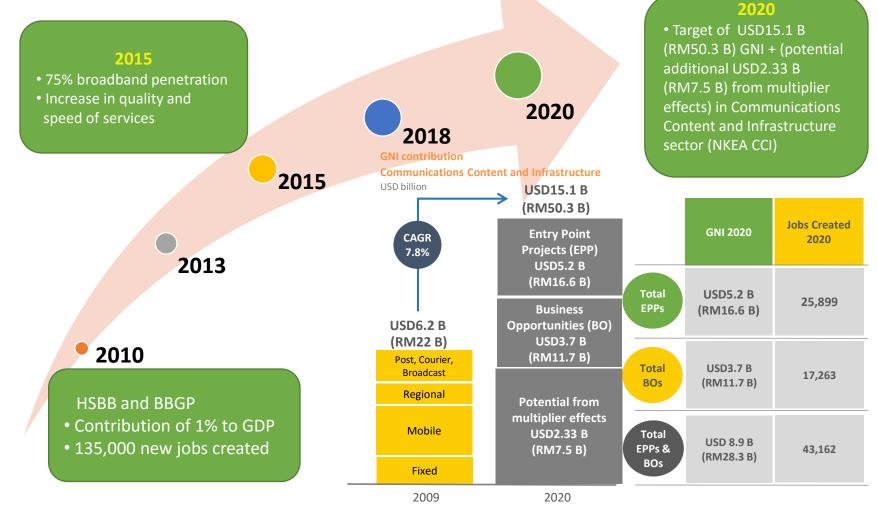


#### National Broadband Initiative (NBI) Objectives



# Increase In Broadband Penetration And Quality Of Services Will Support The Vision To Become Country With High Economic Income In 2020





#### **National Broadband Implementation Strategy**



Sup	pply	Demand	
Broadband for General Population (BBGP)	Incentives and facility-based competition based on major technologies (xDSL, WiMAX and 3G/HSDPA)	Awareness	Continuous government and private sector awareness initiatives
	USP programs roll out (collective and individual access)	Attractiveness	Enhance and promote egovernment, e-education and e-commerce initiatives
W. I. C I	Average speed of 2Mbps		Improve and align online content strategies and activities
High Speed Broadband (HSBB)	Target capitals, industrial areas and development regions		Leverage on development of traditional information resources
	Public Private Partnership (PPP) arrangement for infrastructure roll out	Affordability	Develop initiatives to reduce/ improve broadband access costs (PC, subscription etc)
	Speed exceeds 10Mbps		Widen community access facilities and deployment

#### High Speed Broadband (HSBB) Project



#### **Project Funding**

- Private-Public-Partnership
- Government
- Service Provider

- Services to be provided is based on fair and equitable access
- Open access whereby other service providers can use the network

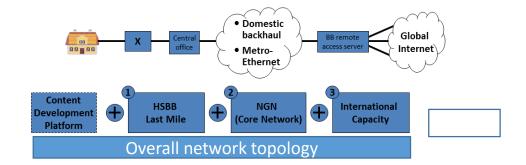
HSBB PROJECT

#### **Project Scope**

- end-to-end (access, core and international)
- 1.3 million ports
  - speed 10Mbps and above
    - Coverage: Inner Klang Valley, Industrial areas and Iskandar Malaysia)
      - High speed connectivity to Government Offices and IPTA/IPTS
    - Affordable broadband package
    - Telecenters for specific group
  - Development of content platform
- Promotion and awareness program

#### Regulatory Framework

#### **TM Undertakings**



# HSBB DEPLOYMENT HAS SHOWN POSITIVE IMPACTS IN VARIOUS ASPECT



#### **Improved Broadband Access**



- High speed broadband access
- Open access network to other operator

#### **Improved Government Services**



- High broadband connectivity to the identified government offices
  - improve e-government services efficiency

#### Support High Bandwidth Application





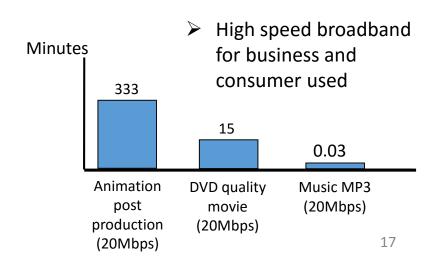






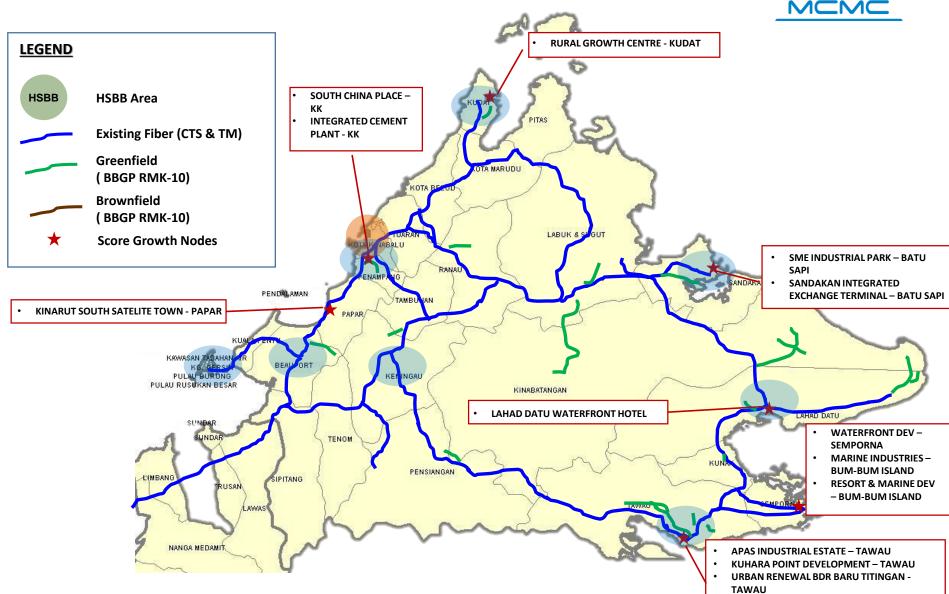
IPTV

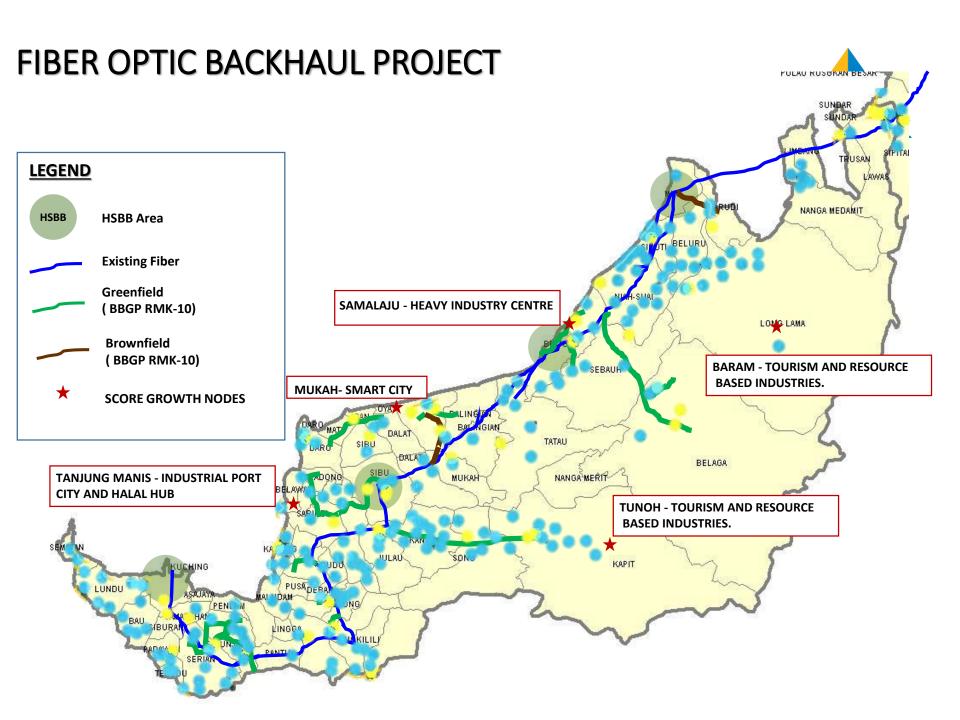
#### <u>Improved QoS and User Experiences</u>



#### FIBER OPTIC BACKHAUL PROJECT

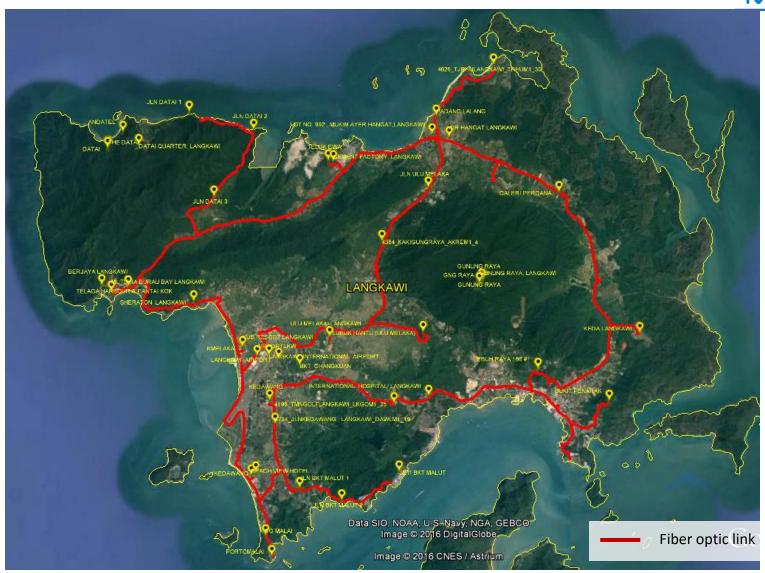






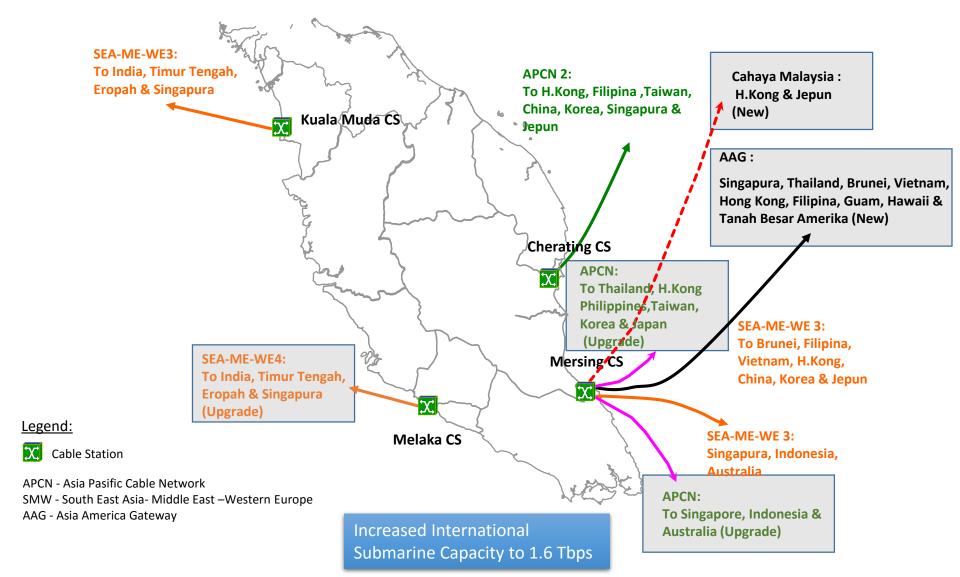
#### LANGKAWI ISLAND TOWER FIBERIZATION PROJECT





### DEVELOPMENT OF INTERNATIONAL NETWORK UNDER HSBB PROJECT FOR BETTER CONNECTIVITY

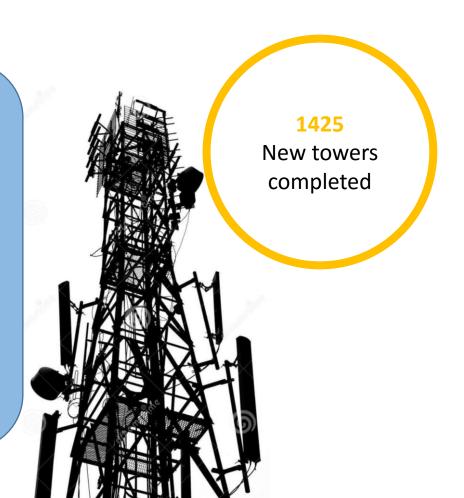






#### MOBILE BROADBAND COVERAGE EXPANSION

- Improve cellular signal weak areas and no signal service
- Erect and equip communications tower with 2G and 3G service
- Implementing RAN sharing for the communications tower





#### **COMMUNITY BROADBAND CENTRE**





This initiative is to help increase the socio economic of the underserved group/area by providing access in underserved group/area.

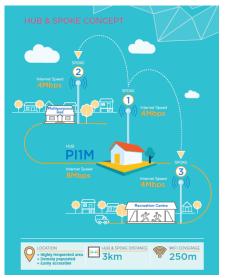


#### **1MALAYSIA NETBOOK & WIFI KOMMUNITI (WK)**

 Netbooks distributed to students to increase computer literacy in rural community.



 Selected villages and tourist spots equipped with Wi-Fi services at concentrated areas.





#### **DEMAND STIMULATION PROGRAMS**





#### Awareness & Promotion

- Broadband Carnival
- Broadband & ICT Training (Basic computer, content development, hardware & software maintenance & troubleshooting
- Promotion through mass media

#### **Affordability**

- 1Malaysia Netbook Distribution
- Introduction of affordable broadband packages
- NKEA CCI EPP Smart Network





#### Attractiveness

- Initiative under Economic Transformation Programme (NKEA)
   Communications Content & Infrastructure: e-Gov, e-learning, e-health,
   Track and Trace and connecting 1MY
- Portal My1Content to encourage content development and commercialization
- Creative content development by MDeC /FINAS



#### **ROADSHOW**





#### **TARGETS AUDIENCES**

- STUDENTS
- PARENTS
- YOUTH





#### **KJL1M SABAH 2014**















#### KJL1M LANGKAWI 2014



















#### **MINDA SARAWAK**

















#### **BROADBAND USAGE SUPPORT PROGRAMME**



# GET MALAYSIAN BUSINESS ONLINE PROGRAMME (GMBO)



#### **Introduction & Objective**

To assist entrepreneurs to increase online sales

 To get more Malaysians businesses especially women online

#### Contribution towards economic development

- RM50 million from SKMM's fund to benefit 50,000 entrepreneurs with RM1,000 grant each
- Total disbursement: RM4.5 million (sept 2013)

#### **Grant Pre requisite**

Malaysian especially women, between 18-65 years old

- Business license / Registered business or company;
- Registered domain name (.com.my/ .my/.edu.my/.net.my/.org.my) with an active website;
- Has a local bank account under the entrepreneur/business/company name; and
- Micro entrepreneur less than 10 full-time employees OR annual income of less than RM200,000

#### Use telecommunication services to promote business

- Subscribes to telephone /cellular AND broadband services under the entrepreneur/business/ company name; OR
- Member of 1Malaysia Internet Center (PI1M)



### YOUTH COMMUNICATION PACKAGE





#### To 1.5 million eligible youth

- Youth Communication Package is a scheme under the Malaysian National Broadband Initiative that grants youth aged 21 to 30 with income below RM3,000 to get RM200 rebate off selected 3G smartphones from telco nominated registered dealers in 2013;
- This initiative, coordinated by the Malaysian Communications and Multimedia Commission (MCMC), was announced by the Prime Minister as part of Budget 2013.

#### **Eligibility:**

- ✓ Malaysians aged 21 30 years
- ✓ Monthly income lower than RM3,000
- √ New or existing user subscribing
- ✓ Smartphone rebate will be given only once to eligible participants



Website: <a href="http://komunikasibelia.skmm.gov.my/">http://komunikasibelia.skmm.gov.my/</a>



#### SMART DEVICES WITH INTERNET PACKAGE





#### **1MALAYSIA NETBOOK**



#### NATIONAL CREATIVE INDUSTRY POLICY



#### 





#### то educate young minds

on the basic skills of content productions

#### To create excitement

among young Malaysians on the potential and opportunities in **content industry** 



- More than RM300 million earmarked for content development:
- In the form of Grants, tax incentives to encourage content developers to set up business in Malaysia.
  - -Content Industry Development Grant
  - -MCMC Grant for Innovative & Creative Contents & Applications (MaGICCA).
  - -Integrated Content Development Program (ICON)
  - -Grant for CGI
- Creative Competitions to develop young talent,SME's, and Contentpreneur

nurture interest and creativity in

**Content Development** 





#### OTHER GOVERNMENT INCENTIVES

- 1. Broadband subscription tax rebate
- 2. Special scheme for purchase laptop
- 3. Allowance for last mile broadband providers

#### **COLLECTIVE ACCESS FOR UNDERSERVED AREAS**









1MALAYSIA WIRELESS VILLAGE
Provision of free Wireless Internet (Wiff) service to selected remote villages particularly where the 1 Malaysia Netbooks have been distributed

Source: MCMC



# Moving Forward



#### **HIGH SPEED BROADBAND 2 (HSBB2)**

- Utilises FTTH, ETTH and VDSL2.
- To provide additional 390,000 ports for state capitals, major town and high impact areas around the country.
- Able to deliver bandwidth of up to 100Mbps.
- The project timeline will be over a 10 year period and commencement began in 2015.
- At the end of 2016, the project has delivered approximately delivered 290,000 ports.







#### **SUBURBAN BROADBAND (SUBB)**



- SUBB is an infrastructure project to provide high speed broadband for areas outside of HSBB and HSBB2 coverage.
- The network will utilise existing copper lines to deliver broadband at speeds of up to 20Mbps.
- SUBB will provide 420,000 ports by 2019.







#### **RURAL BROADBAND (RBB)**

- Effort to boost penetration rate in Malaysia
- Provide infrastructure with capability to provide up to 20Mbps
- As at 31 December 2015, a total of 6,700 ports created

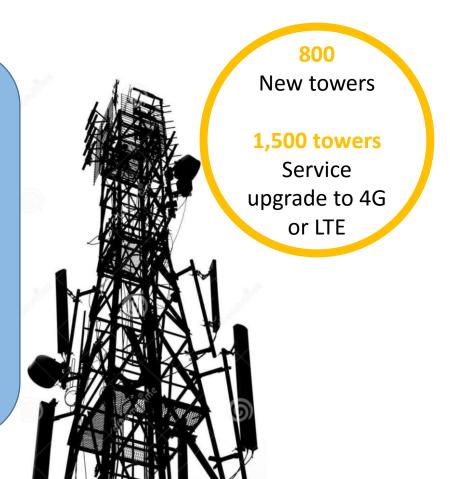






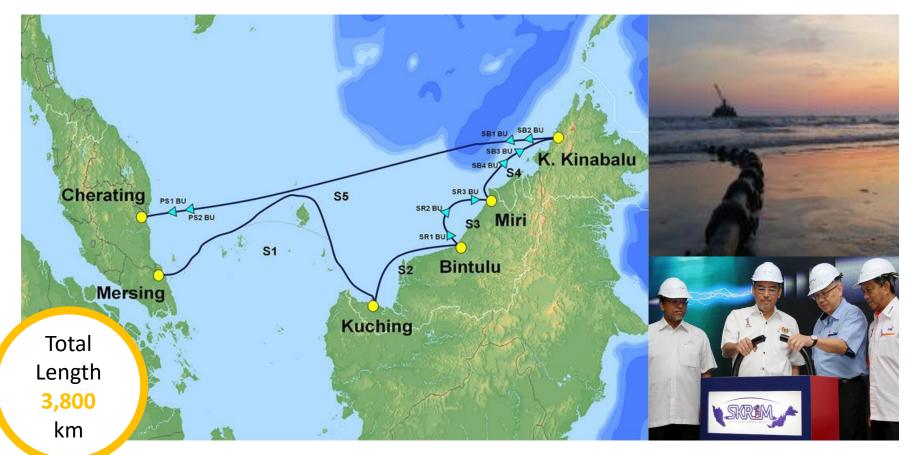
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# IMPROVEMENT OF DOMESTIC SUBMARINE CABLE SYSTEM





#### FIBRE OPTIC NETWORK EXPANSION

 To accommodate the demand for high speed broadband on cellular network

 To fiberise communications tower around the country

• Enable 3G and 4G services

3 new domestic submarine cable and 154Km fiber backhaul in progress



#### 2017 ROADSHOW PLAN





NO	STATE	LOCATION	PROPOSED DATE (2017)
MALAYS	SIA INKLUSIF NEGARA	DIGITAL (MINDA)	
	PAHANG	PEKAN	24-26 FEBUARY
2	PERAK	BAGAN DATUK	21-23 APRIL
<b>3</b>	TERENGGANU	KUALA BERANG, HULU TERENGGANU	28-30 JULY
4	SABAH	PADANG PEKAN PAPAR	27-29 OCTOBER
<b>5</b>	KELANTAN	DATARAN GUA MUSANG	24-26 NOVEMBER
6	KEDAH	PERKARANGAN STADIUM DARUL IMAN ALOR SETAR	15-17 DECEMBER

# Target Broadband Coverage and Penetration (2016 – 2020)



#### % of populated areas with broadband coverage



Household broadband penetration (%)





### THANK YOU

#### **Head Office Address**

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**SCAN ME**