

Malaysian Research & Education Network

TEIN Workshop
AIT, Bangkok , Thailand
25-29th November 2013

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Agenda

1. Introduction
2. Infrastructure
3. MYREN Services
4. Cooperation Highlights



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Introduction

MYREN is...

- Malaysian Research and Education Network
 - a **dedicated** network linking research and education entities throughout Malaysia
 - to provide a networking avenue for universities & research institutes to collaborate locally & globally.
- officially launched in March 2005 under 8th Malaysia Plan.
- started with 11 members, now 88 members (universities , polytechnics, community colleges and research organisations)
- centered at the MSC Malaysia Innovation Centre in Cyberjaya (the country's first intelligent city)

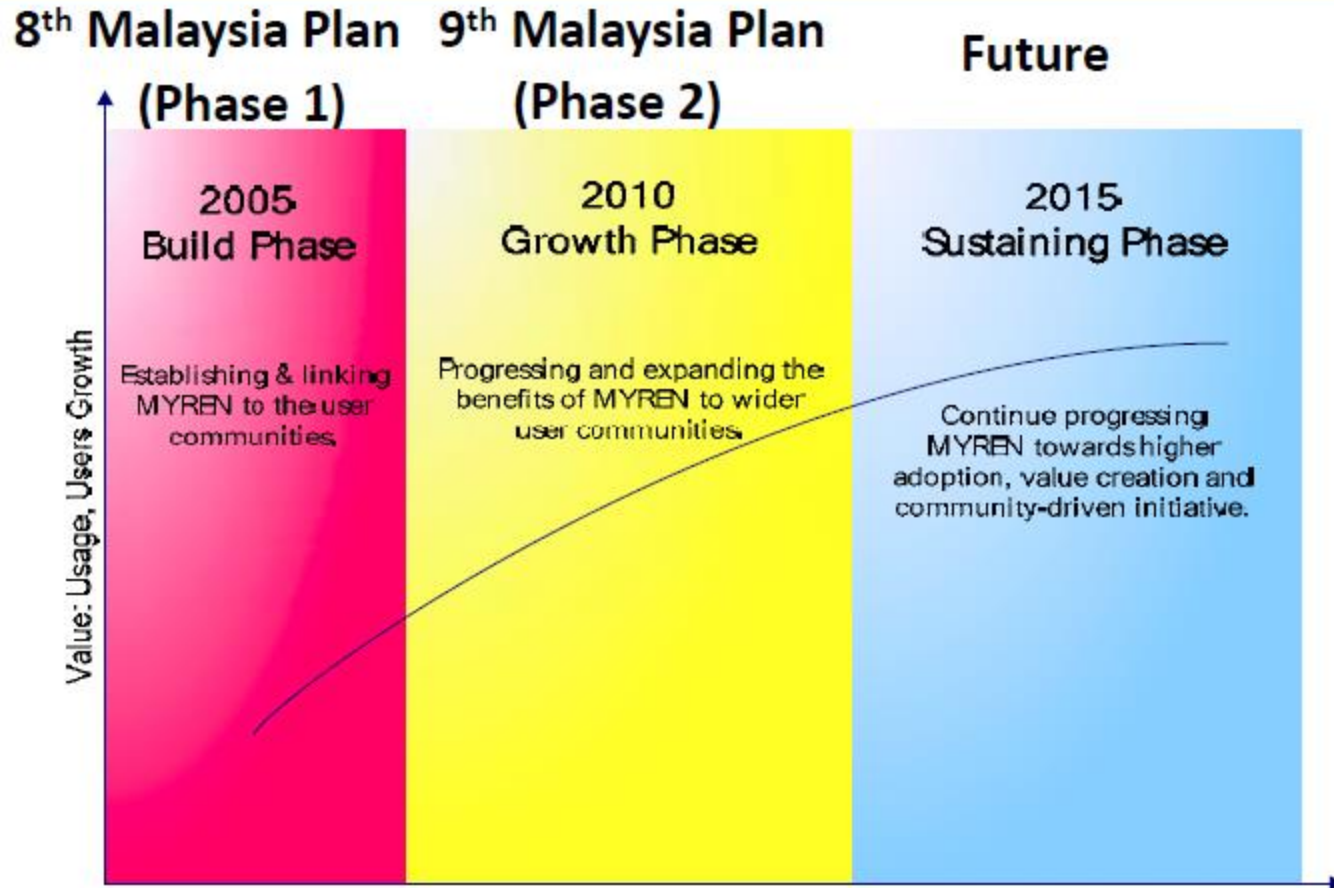
Introduction

Key Players in MYREN...



- **Project Sponsor/Owner**
 - Ministry of Higher Education (MoHE)
 - From Jan 2011
 - Ministry of Information, Communication & Culture (MICC)
 - July 2009 till 2010
 - Ministry of Energy, Water & Communication (MEWC)
 - March 2005 until June 2009
- **Project Manager**
 - Multimedia Development Corporation (MDeC)

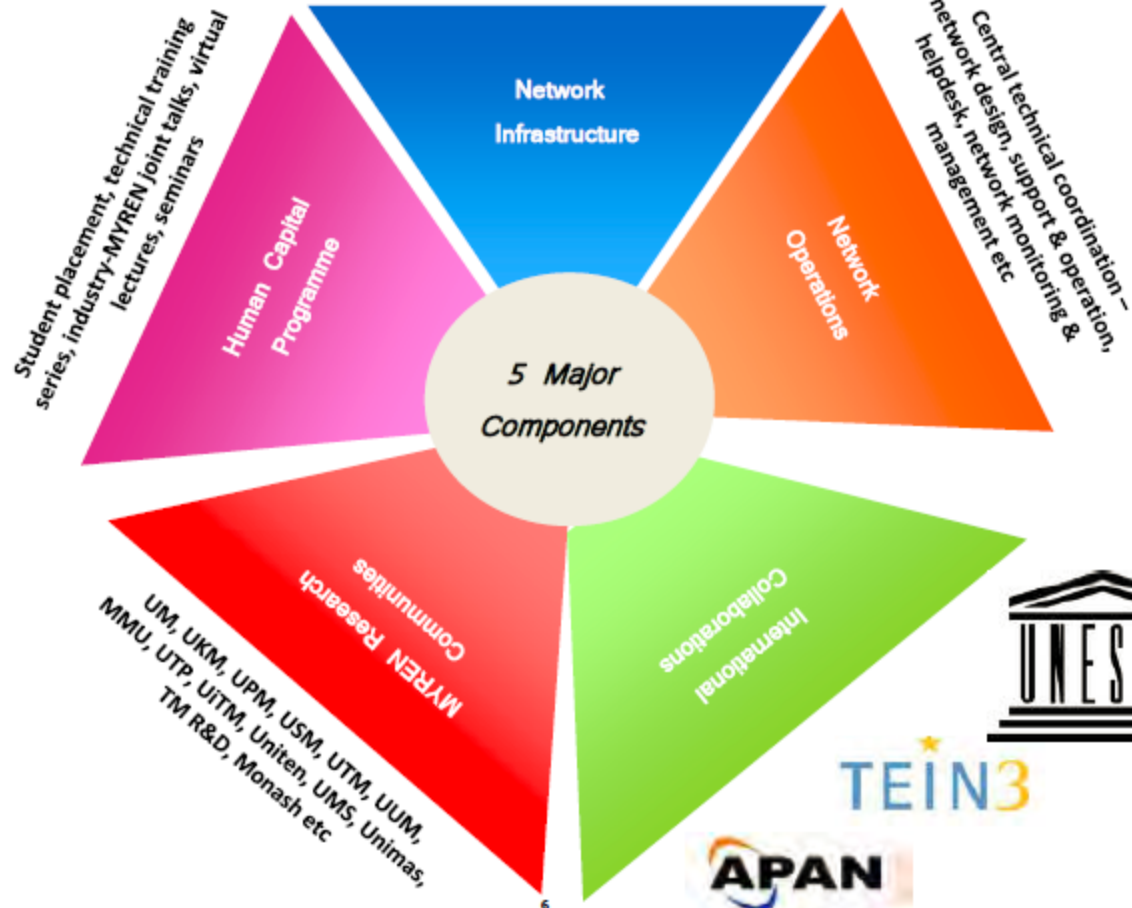
Strategic Directions



Introduction

Key Components

Dedicated network supporting NREN activities and collaborative research – broadband capacity, video conferencing, linkage to other NREN



Infrastructure – Fact Sheet

Expansion Phases

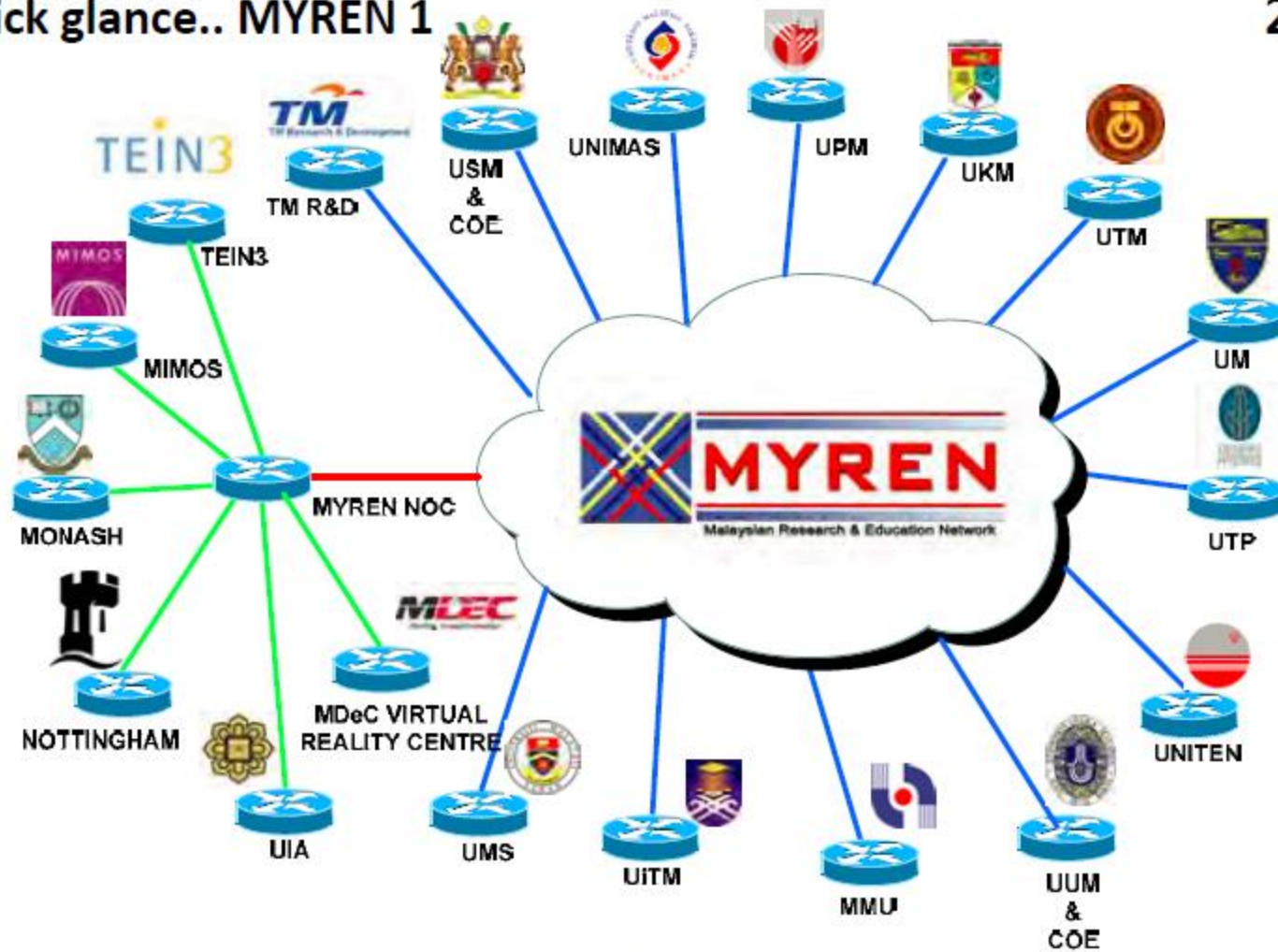
- Phase 1 : Building MYREN (March 2005 – June 2010)
- Phase 2 : Building MYREN Core, Connecting IHL (June 2010)
- Phase 2A : Extension to 20 Polytechnics & 20 Community Colleges (October 2010)
- Phase 2B : Further extension for PoP Sarawak, AKEPT, 2 Polytechnic, 16 Community Colleges (October 2011)
- Phase 2C : Further extension to 2 Hospitals, 5 Polytechnics and 2 Community Colleges (October 2012)



Infrastructure

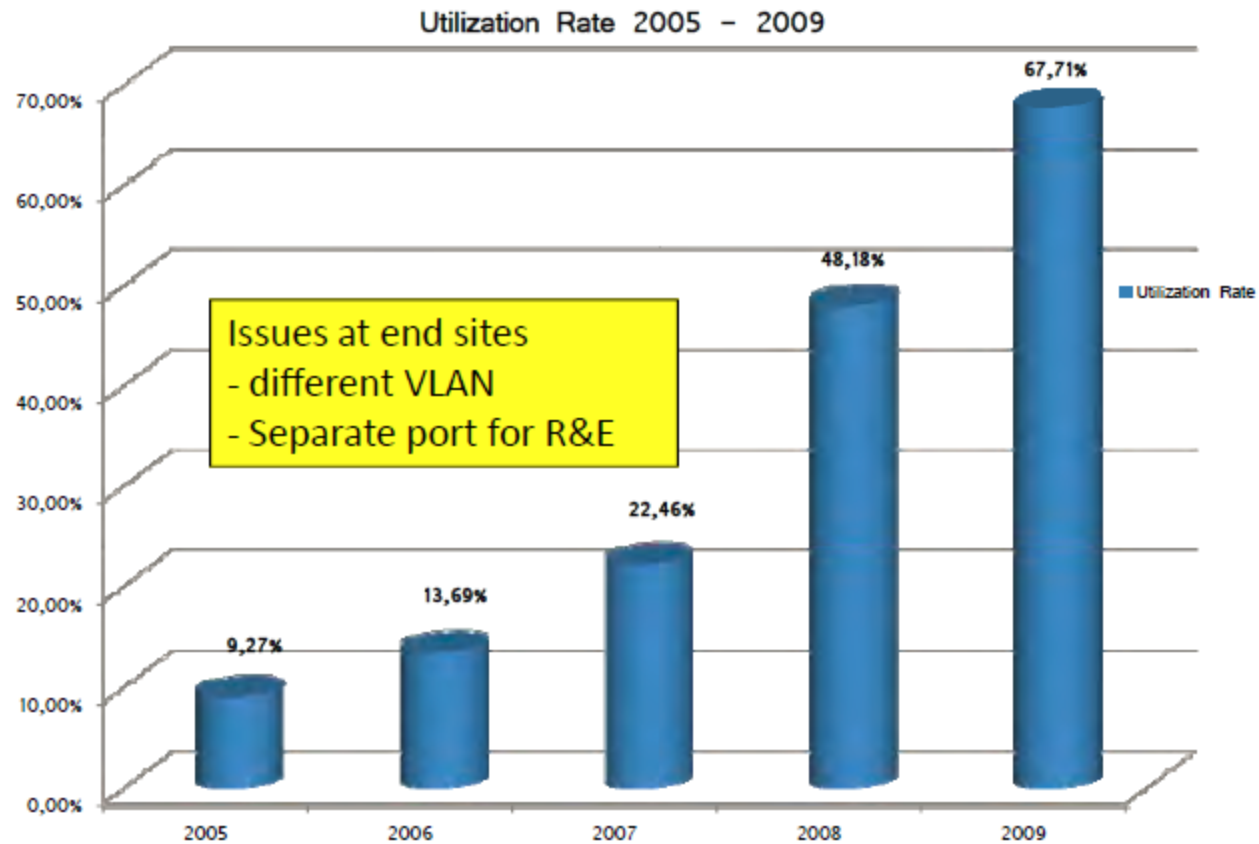
A quick glance.. MYREN 1

2005



Infrastructure

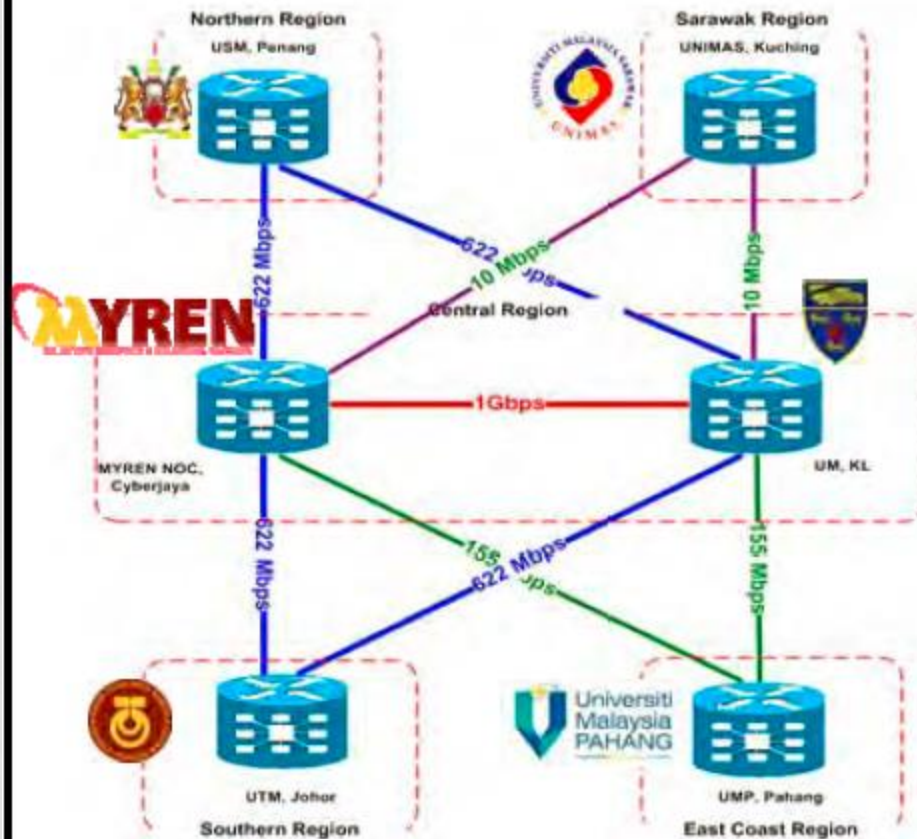
MYREN1 Network Utilization



Infrastructure

MYREN Phase 2 (MYREN2) – Core Network

2010

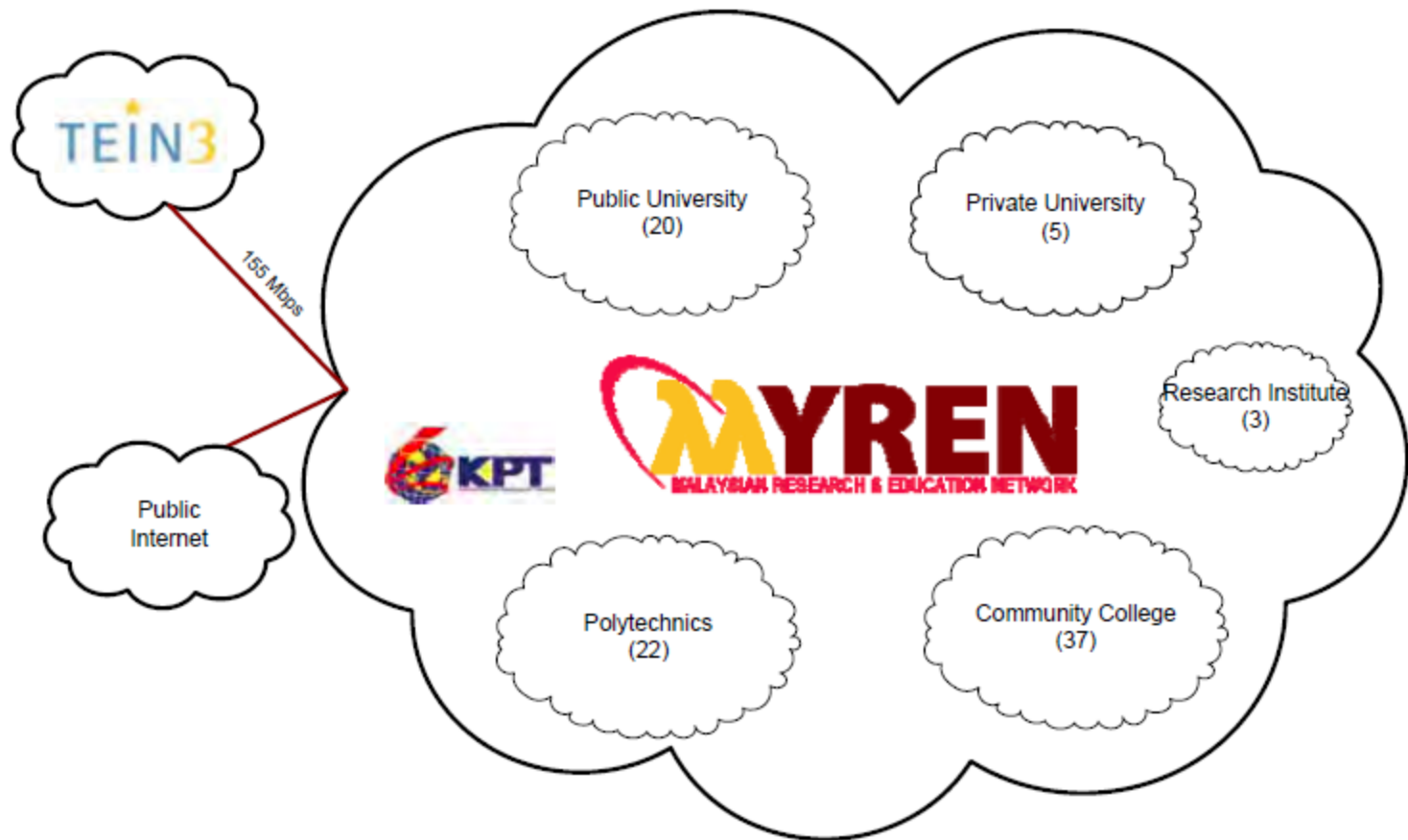


Facts :

- MPLS enabled network
- Dual stack at all core and access network
- PoP located at strategic member areas

Infrastructure

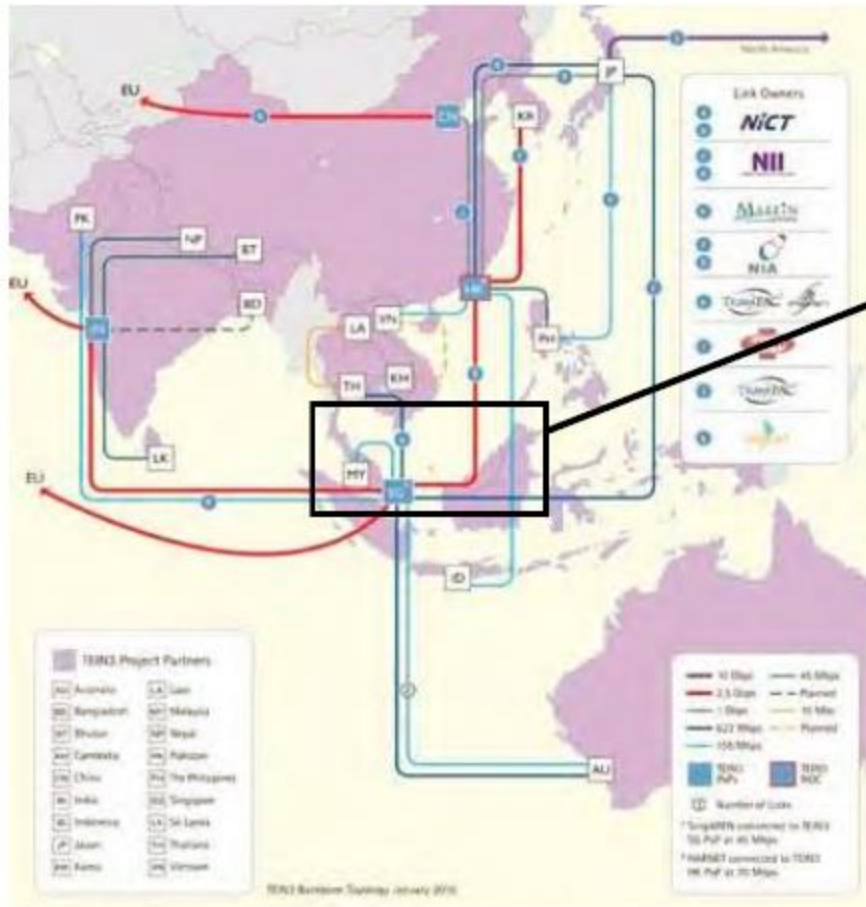
Members community



Infrastructure

International Cooperation and Linkages

TEIN3 (Trans Eurasia Information Network)



Services

Connectivity Services

- R&E network
 - Must have AS# (public or will be assigned with private)
 - min /24 IPv4 address
 - Mostly for universities and research institutes
- R&E network & commodity
 - A default route to MYREN
 - Mostly for polytechnics and community colleges
- L2VPN or L3VPN
 - Mostly for research purpose
 - Accommodate special/POC request

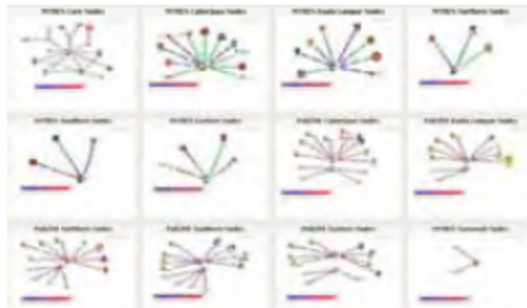
Services

Services (<http://www.myren.net.my/services/myren-services>)

- Weathermap, Cacti, Rancid, Looking Glass, Smokeping, Otrs
- iPerf server : iperf.myren.net.my
- Video Conferencing MCU
- MYRENCLOUD

Future Plan

- PerfSONAR, SIP peering, NRENum



Cooperation Highlights

Some of Collaborative Projects conducted under MYREN

Telesurgery: UPM-HUKM-Kyushu Uni Hospital-Bundang Seoul Hospital, August 2007



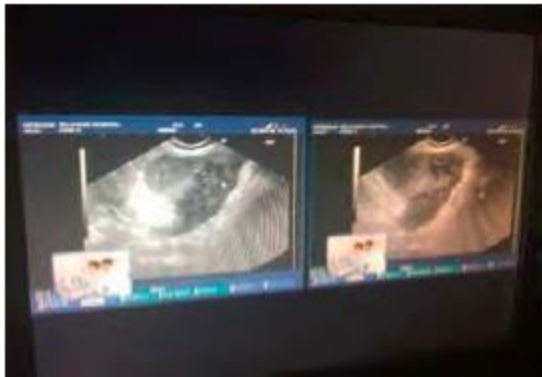
Telesurgery: APAN-Manila, February 2007



Cooperation Highlights

Some of Collaborative Projects conducted under MYREN

Telesurgery : Selayang Hospital-Boston Hospital, September 2008



Malaysia – UK : Research at the speed of High Performance Computing Seminar, 4th June 2007, Kuala Lumpur



Cooperation Highlights

28th APAN Meeting, 20th – 23rd July 2009 @ Berjaya Times Square



ASEM Workshop, 1-2 December 2009 @ KL Convention Centre



Thank you

