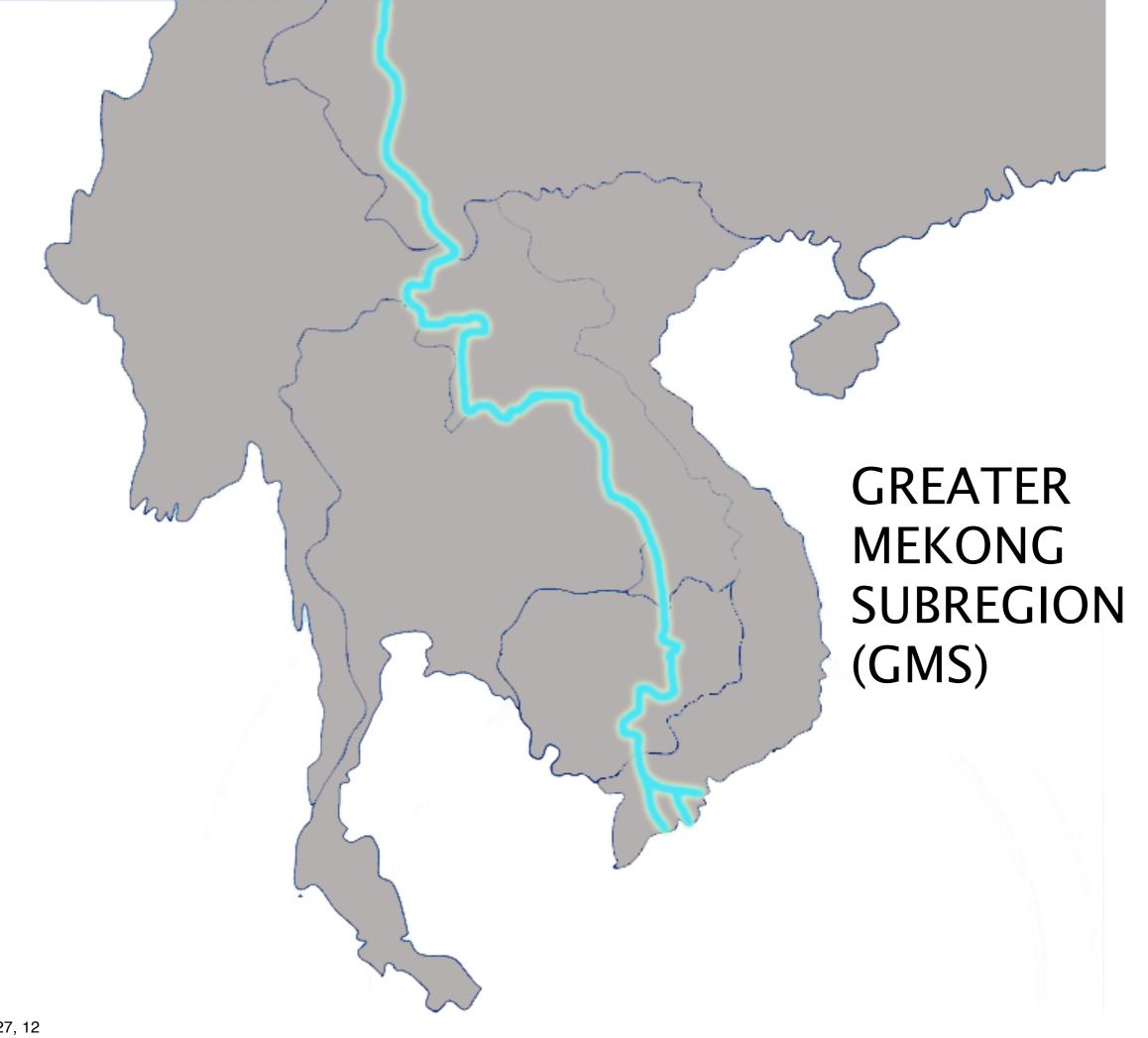
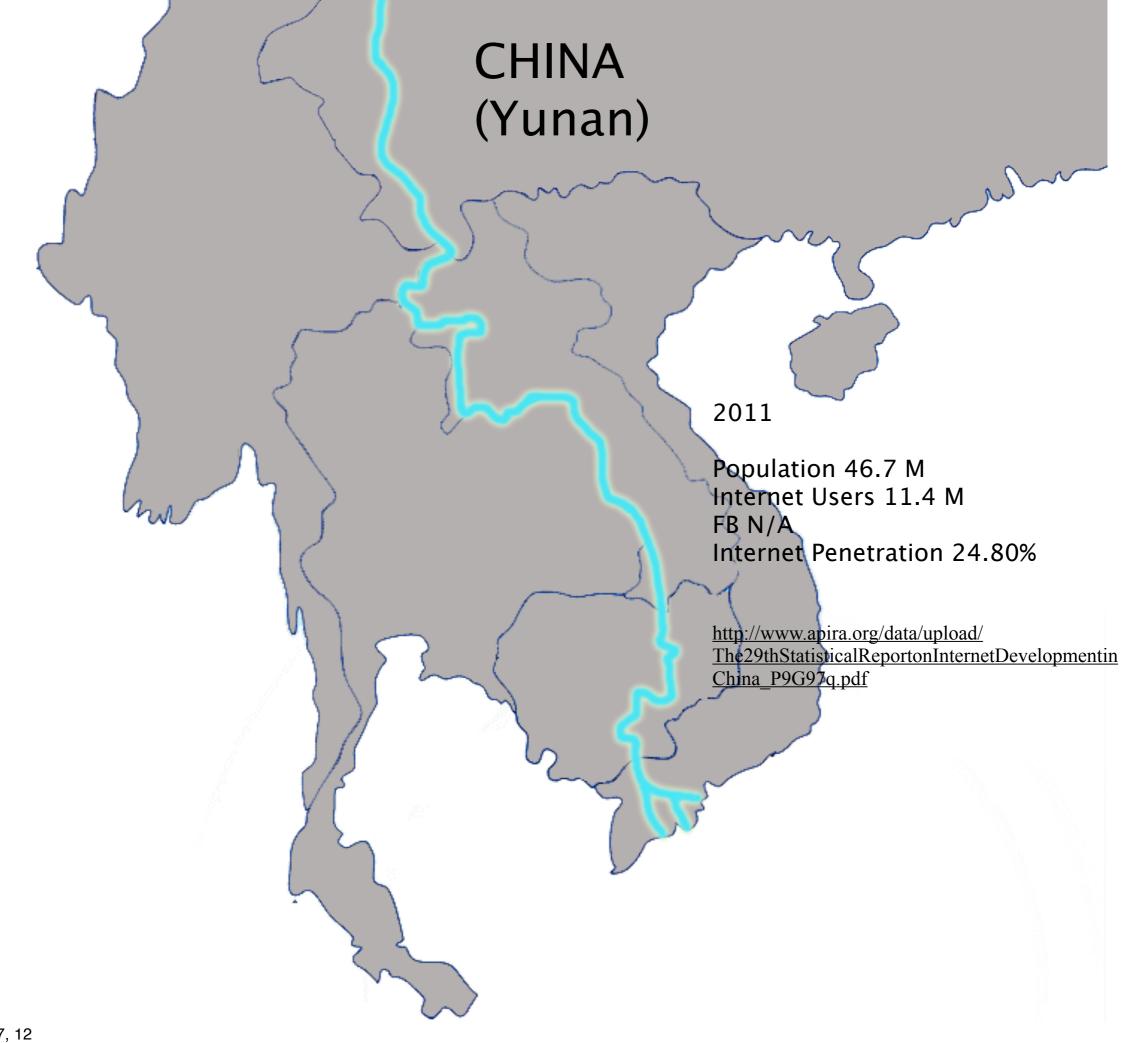
The Greater Mekong Subregion and The Internet

by
Kanchana Kanchanasut
Asian Institute of Technology
THAILAND





2011
Population 48.7M
Internet Users 110,000
FB N/A
Internet Penetration 0.98%

http://www.internetworldsat/100/h/Aat 3.htm AR

Email services offered by expatwith .MM registered in ..
.MM was later taken over by MPT

Limited Internet services provided by Bagan Cybertech in early 2000

WIDE Project connected UCSY to the AI3 satellite network around the same time

Things are changing rapidly at this very moment





Population 6.5M Internet Users 527,400 FB 156,160 Internet Penetration 9%

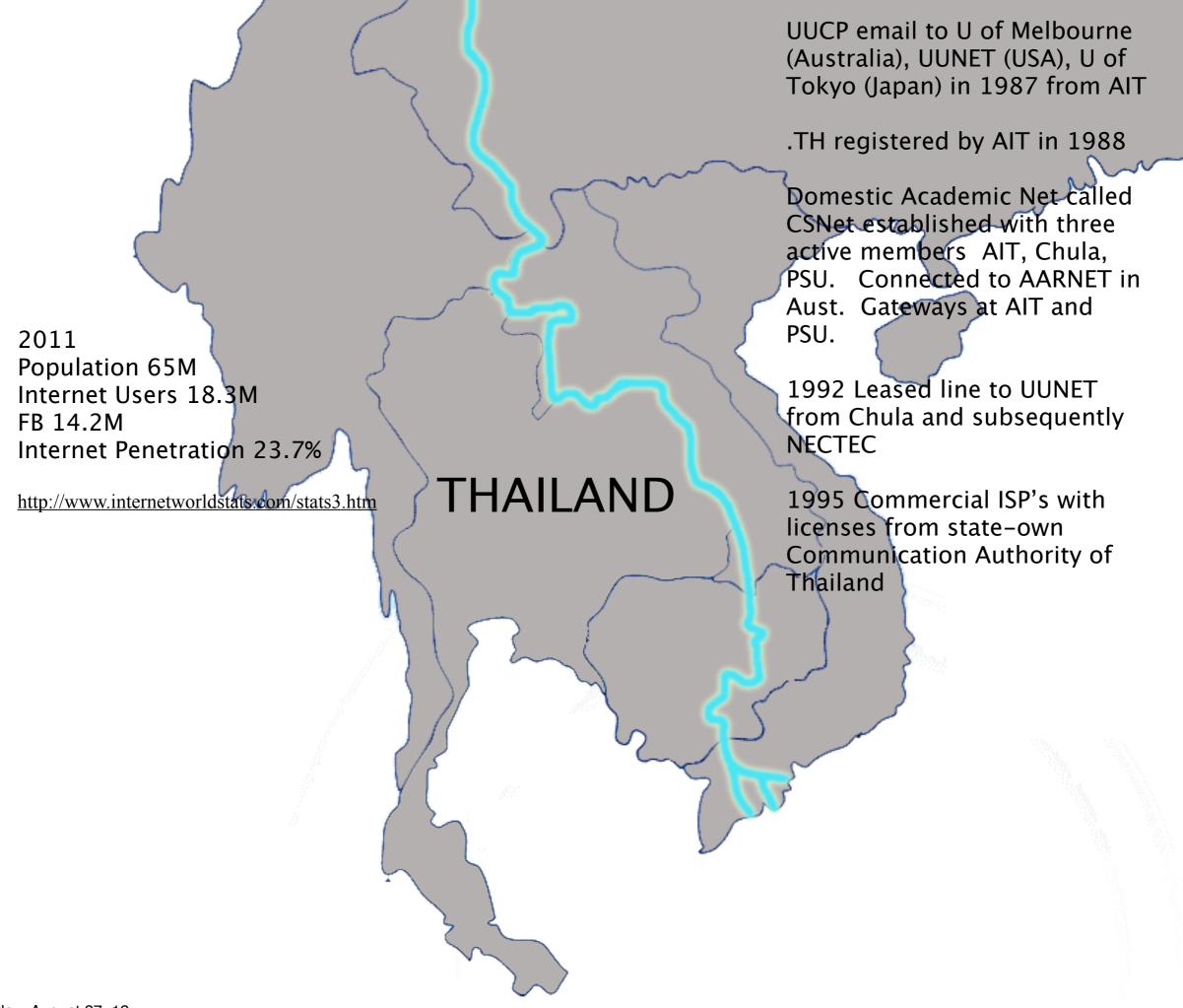
http://www.internetworldstats.com/stats3.htm

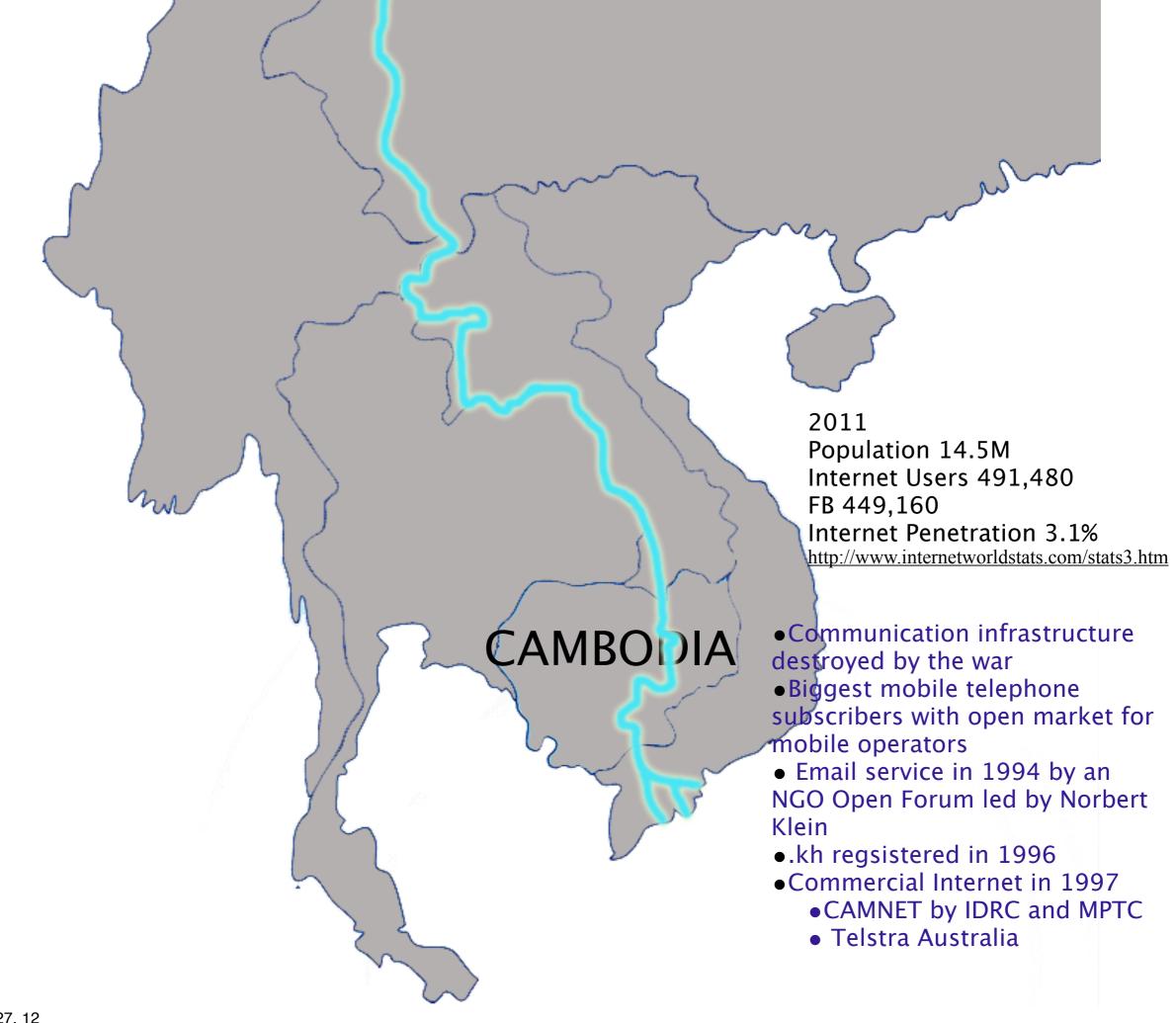
Telecommunications infrastructures done with joint venture in the mid 90's LaoNet (soc.culture.Laos), driven by expatriates and overseas Laotians, dial-up email service from National Polytechnic Institute to Washington D.C.

Pan Asia Networking PAN/IDRC 1996 with STEA provided email services where .LA was registered

Commercial service using satellite via the Philippines in 1998

LANIC (Lao Netional Internet Committee) set up in 1999 NUOL set up in 1995







Observations

- All had high phone prices with insufficient coverage
- State-own telecommunications operators
- Launching of the Email/Internet were driven initially by international communities (MM, LA, KH and even TH)
- Lack of government investment: Clean water, PCs or both?
- Cambodia and Laos driven by expats and are with small markets
- Thailand and Vietnam had strong academic community to nature the Internet development -- linking with Australian universities
- Cambodia, Laos and Vietnam received support from IDRC

Key Players

Academic Institutions: Asian Institution of Technology (TH),

Chulalongkorn University (TH), Institute of Infomation

Technology (VN)

- Expats and NGOs: LaoNet (LA), Open Forum of Cambodia
 (KH)
- External Agencies: International Development Research

Center (IDRC) for LA, KH and VN

GMS Governments (I)

How did we introduce the Internet to the government

sector?

Ministry of S&T

Tourism Office

Health (no need for any introduction)

Parliaments

Education

GMS Governments (2)

• What are the governments' roles? starting early 2000's

Internet within ICT policies and regulations (ITU, ADB, APT, UNESCAP)

Promotion - Broadband

Legislations to support E-commerce and to handle Cyber Crimes

Setting up NEW agencies to handle ICT sector

All, except LA and KH, set up SW parks!

Internet Organizations

Capacity Building

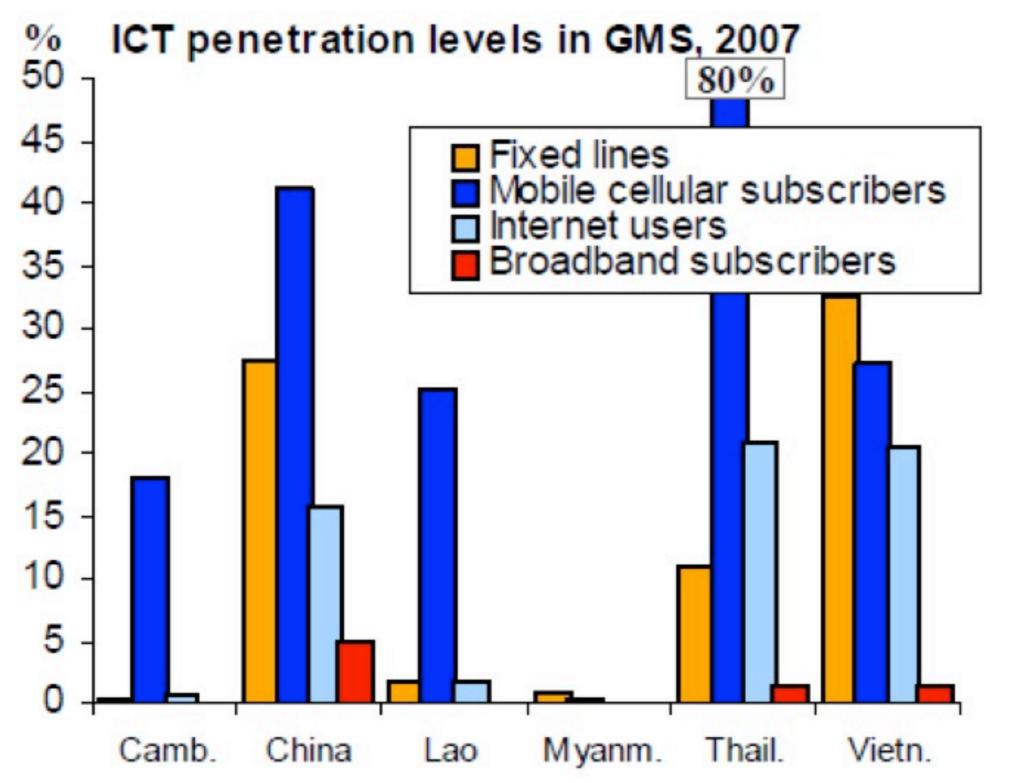
IDRC
Internet Society
APRICOT - 1995
APAN
APNIC
intERlab/AIT
NSRC (Network Startup Resource Center, USA)

 Human Networking APNG (Asia-Pacific Networking Group) AP*

Connectivity

IDRC
AARNET (Australia)

APAN (Asia-Pacific Network)
AI3/WIDE Project (Japan)



http://www.itu.int/ITU-D/asp/CMS/Events/2008/GMS/docs/GMS_ITU_Present_2.pdf



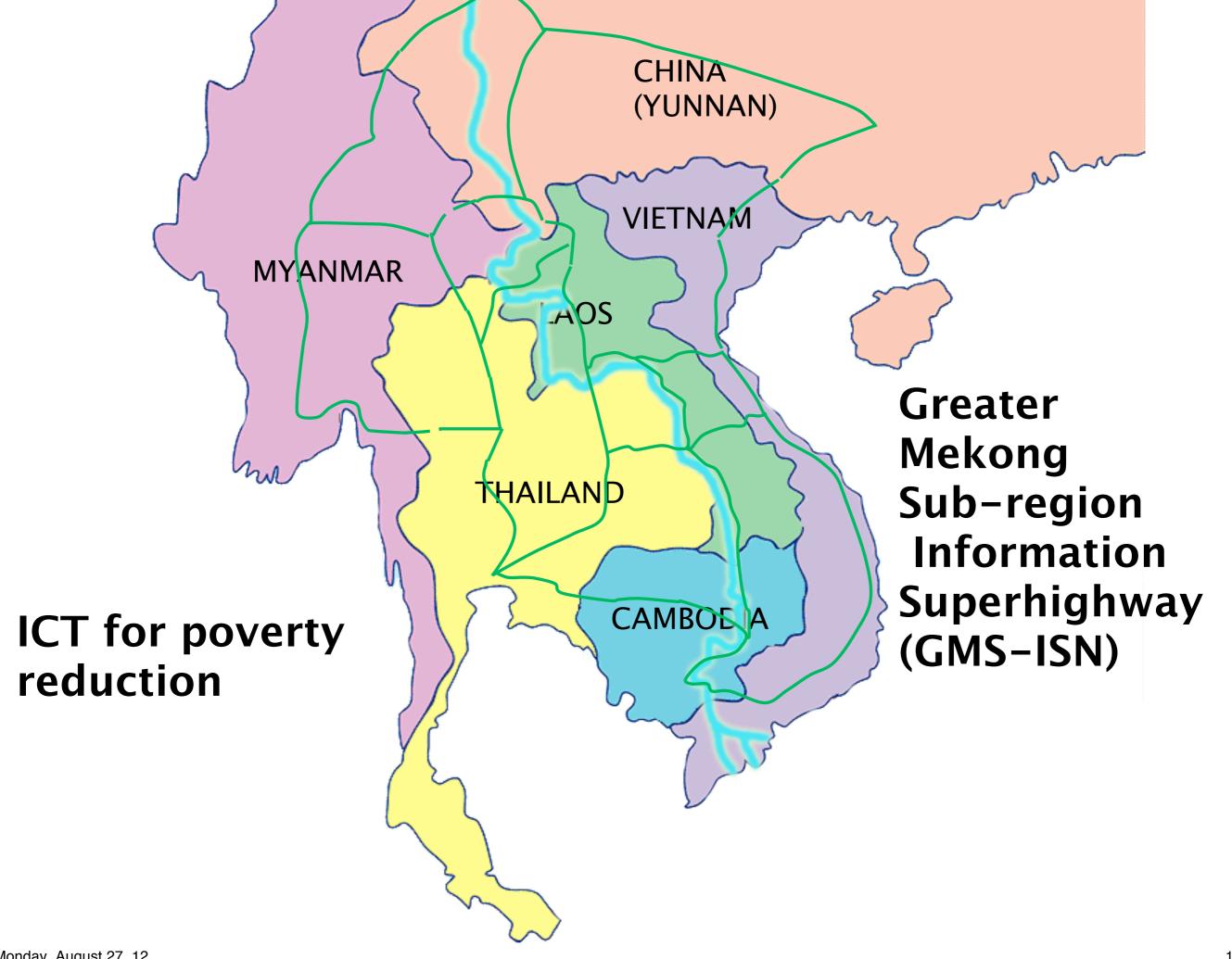
Towards GMS as a subregion:

Late 80's,

"from battlefield to a market place"

(Gen. Chartchai Choonhavan, Thai PM during 1988-1991)

1992, the Asian Development Bank (ADB) launched subregional economic cooperation to enhance relations among the six countries.



GMS-ISN

- Phase I: Planning of GMS ISN and reach the common understanding and agreement
- Phase II: Constructing the GMS-ISN first step and planned for the ready-for-service date to be on or before 2008
- Phase III: Constructing the GMS ISN second step and planned the ready-for-service date to be on or before 2010
- Phase IV: Developing all kinds of services and application based on the constructed network facilities developed in Phase II and III.

Greater Mekong Sub-region (GMS) Information Superhighway



Where is the GMS Information Superhighway in 2012?

Physical network completed in 2010

ADB direct financial support for the project ended in 2010. ADB has asked the GMS members to set up the GMS ICT office with funding from members.

Pricing scheme has not reached agreement by the government agencies involved

The network is not fully utilized for the subregion but only for bi- lateral traffic exchanges for both voice and data.

Killer Apps for GMS Information Superhighway, if operational!

VOIP

Mass Media

Entertainment

On-line Games

Capacity building to for mass media, law enforcements as well as cultivating the Internet culture will increasingly be important.

Research and Education Network

TEIN

connecting NRENs

CERNET

MMREN

LERNET

ThaiREN

CamREN

and

VINAREN

Initially funded by the 80% EU and 20% from each NREN Now TEIN3/4 for more information www.tein3.net

