



Internet Education and Research Laboratory (intERLab)

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www.interlab.ait.ac.th

intERLab



- Launched at AIT on December 15, 2003
- A regional center of the Internet Human Resources Development
- Endorsed by the Ministry of Information and Communication Technology, Thailand



Main functions (1)

- To concentrate on being the center with up-to-date information on the Internet development and related information of the region.
- To provide training programs to enhance the skills of existing infrastructure engineers and technologists.
- To educate policy makers and government employees of the applications of the Internet.



Main functions (2)

- To update education specialists regarding e-learning technologies.
- To raise awareness of the social impacts of the technology amongst the development and social workers.
- To bring the new business practices and their legal implications to the attention of lawyers, business practitioners and professionals.



Main functions (3)

- To conduct a multi-disciplinary research in three main directions: technical/engineering, e-learning and social/policy/business/ legal aspects.
- To provide its laboratory services and expertise to the entire Institute and others.
- To conduct regular academic program in Internet Engineering/Technology in close collaboration with other well-established academic disciplines within AIT and leading international institutions.

Research Directions

*** Research**

- AI3/Satellite Internet, QoS, Multimedia

*** Degree Programs**

*** Training**

- APNIC
- APTLD
- NOCs/Internet Engineers

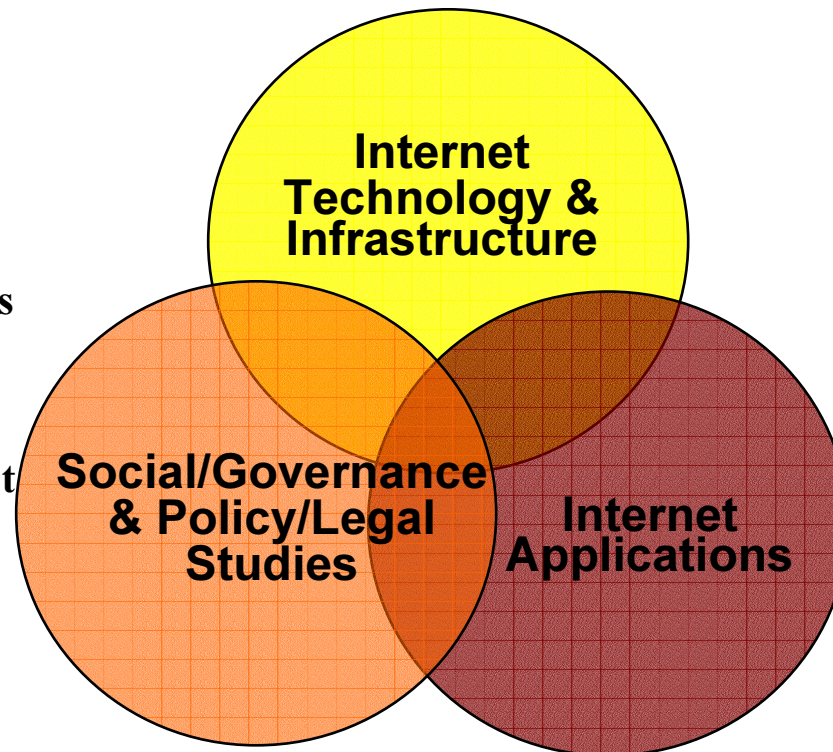
*** Research**

- Gender and Development
- Management of Tech
- E-Governance

*** Degree Programs**

*** Training**

- AP Outreach
- CyberLaw



*** Research**

- Distance Education (VClass, SOI/ASIA, AVIST, GMSVU)
- Content Delivery (AI3)

*** Degree Programs**

*** Training**

- E-learning Technologies
- Courseware Design
- Virtual Uni Admin and Management



Partnerships

- Primary partners
 - INRIA
 - Asia Pacific Network Information Center (APNIC)
 - Network Startup Resource Center (NSRC)
 - Asia-Pacific Advanced Network (APAN)
 - SOI-Asia



Services

- AP Internet Information Center
- Trainings
- e-Education (e-Learning)
- Research



AP Internet Information Center

- [AP* Retreat Secretariat](#)
- [APAN Secretariat](#)
- [APNIC Event Coordinator](#)
- [APNG Secretariat \(coming soon\)](#)

Training

- consistent with AIT mission:

“to develop highly qualified and committed professionals who will play a leading role in the sustainable development of the region and its integration into the global economy”.



2005 Training Activities

- AIT Online Platform for Course Delivery (16-18 May)
 - AIT Faculty and staff
- Network Operators Workshop (17-20 May)
 - 11 network operators
- APNIC IRM-E (13 June)
 - 21 attendees from ISPs and networking environment
- Advanced DNS Workshop (14-17 June)
 - 26 attendees from network operating centres
- Unix System Administration Workshop (5-8 July)



2005 Training Activities

Network Security Workshop (25-29 July)

- Opening ceremony with AIT President's remarks
- More than 60 participants attended
- Presents: CIOs and security experts from IT industry
- Keynote lecture “Critical Information Infrastructure Protection” by Prof. Suguru Yamaguchi, NAIST, JP
- 29 workshop participants inclu. 6 network engineers from GMS countries (LA, VN & KH)
- Provided travels and subsistence expenses to GMS engineers

- Instructor
 - ThaiCERT, JPCERT/CC, AIT/WIDE Project & Cisco engineers



Special Thanks

Network Security Training (25-29 July)

- Supporting Orgs.
 - Steven G. Huter, NSRC
 - Tim O'Reilly & O'Reilly Books for donating technical books
 - JPCERT/CC
 - ThaiCERT
- Sponsors
 - Platinum: Cisco Systems (Thailand)
 - Silver: Wintory Co., Ltd.
 - Others: O'Reilly Books (Tech. books for participants and intERLab library)

CSLoxinfo



2005 Training - Upcoming

- **TEIN2 Kick-off Workshop** (5-10 October) @ intERLab/AIT
 - targeted at bringing network operation engineers from the TEIN2 beneficiary countries
 - to bring them all to the level qualified for the operation and management of TEIN2 networks.
- **Resource Persons:**
 - APAN NOC Community:
 - AU - Bruce Morgan, AARNet
 - JP - Kitamura Yasuichi, NICT
 - KR - Iljoon Hwang, KORNET
 - intERLab/WIDE Project - Yasuo Tsuchimoto & T. Komorizono
 - GEANT NOC - TBA
 - TEIN2 NOC - TBA



2005 Training - Upcoming

- **Traffic Measurement Analysis** (18-20 October) @ intERLab/AIT
- **Asian Internet Engineering Conference (AINTEC)** (13-15 December) <http://www.interlab.ait.ac.th/aintec/index.html>
 - Sponsoring Organizations:
AIT, APAN-TH, French Regional Cooperation and WIDE Project
- **Asian School on Computer Science** (11-12 December) <http://www.interlab.ait.ac.th/school/2005/>
 - **Organized and Supported by AIT jointly with INRIA (France)**

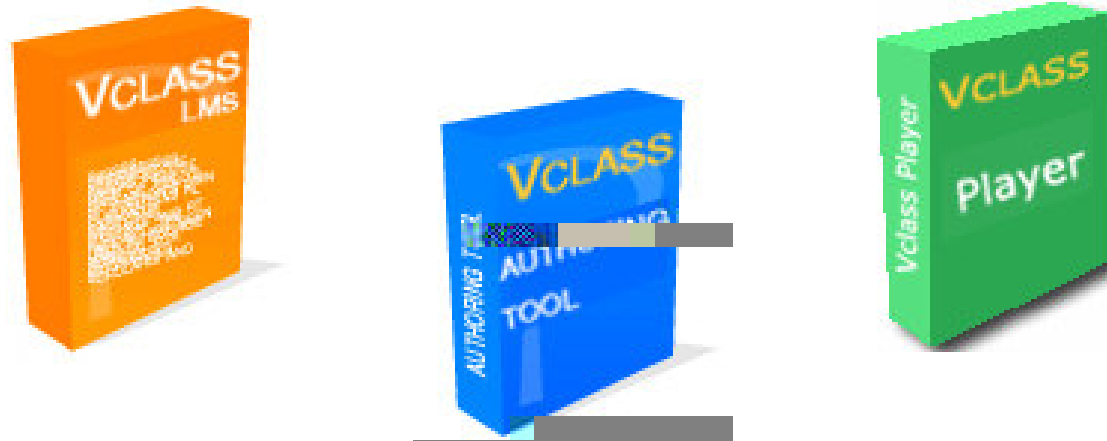


e-Education

- e-Learning Platform
- Courseware Development
- Consortium
 - AVIST, GMSVU, SOI Asia

VClass

E-Learning Platform

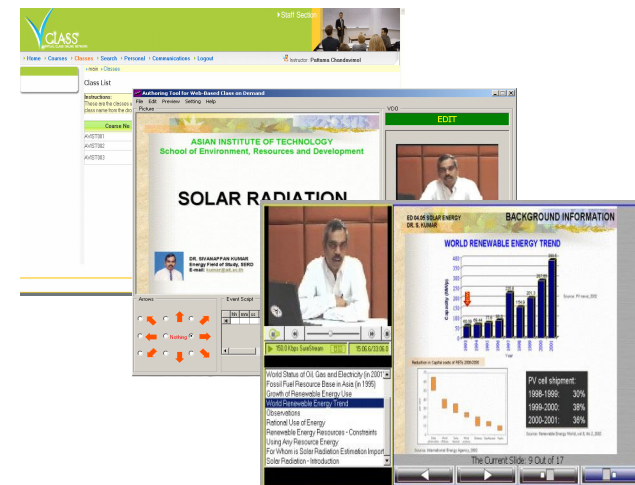


VClass

Open Source E-learning Platform developed by Distributed Education Center, a subunit of Internet Education and Research Laboratory at AIT.

Total solution to e-learning

- course management
- content management



Objectives

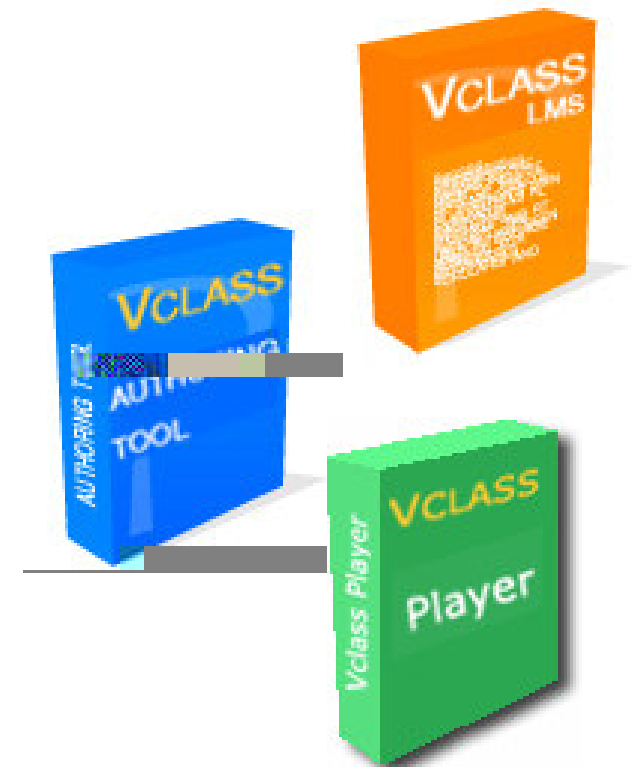
- Initiate and enhance AIT's distance learning using the Internet
- Standard in controlling and managing courseware
 - shareable & re-usable contents
- Low cost
 - open source
 - platform-independent

3 Components of VClass

VClass Learning Management System

VClass Authoring Tool

VClass Player





VClass Future Development

- Mobile learning
 - SIP and mobile learning
- e-Library
 - Virtual library
- Compatibility
 - Browser, OS



VClass Virtual Class Online Network

- ❖ **Asian Institute of Technology**
- ❖ **ASEAN Virtual Institute of Science and Technology (AVIST)**
- ❖ **Greater Mekhong Subregion Virtual University (GMSVU)**
- ❖ **Information Technology Center for Education (ITCE)**
- ❖ **Philippine Research Education and Government Information Network (PREGINET)**



Internet Infrastructure Projects

- AI3
- Asia Broadband (NICT, 10G)
- THAIREN
- TEIN2

Research

- A joint research grant with INRIA and the Japanese WIDE project on “IPv6 and Rural Connectivity” started in 2004
- Research Projects in 2005
 - Rural Connectivity
 - eCulture
 - ENUM Study
 - Multimedia Architecture and Applications Based on SIP

Thank you.