

Educating Online in South East Asia

A workshop for higher education
policy makers and practitioners



Thailand

ICT for Education: Policy and development

Handout available at
<http://bit.ly/eduonlineSEA2015>

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TOPICS

I. Background situation

I. Higher Education Profile

II. ICT for Education Policy

II. ICT for education development

I. UniNet -> NEdNet

II. Thailand Cyber University Project

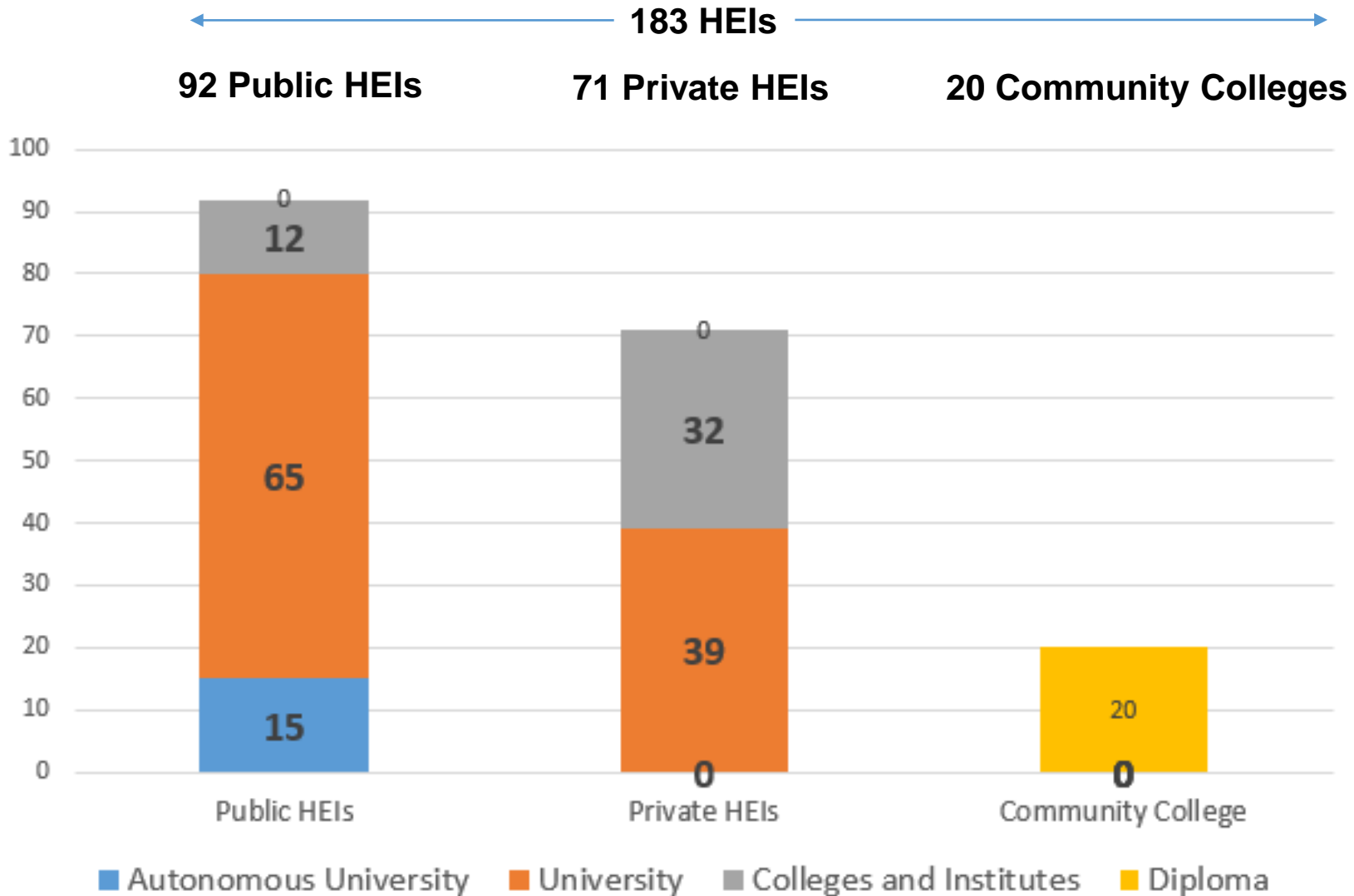
III. The establishment of Thai-MOOC



I. Background situation



Demographic of Thailand HEIs



2,000,000+ students in higher education institutes

Student drop out statistics

Student education level	N / 10
Have job within one year	☺
Graduate bachelor degree	☺ ☺☺
Enter university	☺☺ ☺☺
Enter upper secondary school	☺☺☺ ☺☺☺
Enter lower secondary school (compulsary)	☺☺☺☺ ☺☺☺☺☺
Enter elementary school (6 years old)	☺☺☺☺☺ ☺☺☺☺☺

* Quality Learning Organization (2012) Public organization supported by Government

** Grade 9 is compulsory education

Using ICT in Education

The National Education Act **A.D. 1999**, Thailand's first of its kind, forms the core of the education reform movement. For the first time, direction points toward the philosophy of education provision for the purpose of lifelong learning and societal participation.

Also the first time that National Education Act stated explicitly about use ICT for education including ICT for support teaching and learning, enabling access to education as well as use of ICT and distance education to meet the needs and aspirations of all citizens for continuous education and skills upgrading without regards to age, profession, distance, or geography.



พระราชบัญญัติ
การศึกษาแห่งชาติ
พ.ศ. ๒๕๔๒

ภูมิพลอดุลยเดช ป.ร.
ให้ไว้ ณ วันที่ ๑๔ สิงหาคม พ.ศ. ๒๕๔๒
เป็นปีที่ ๕๔ ในรัชกาลปัจจุบัน

Thailand ICT for Education Policy

A.D.

2005	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
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Ministry of ICT

IT2010 Policy (2001-2010)

ICT2020 Policy (2011-2020)

Use ICT for
e-Commerce,
e-Industry,
e-Education,
e-Society and
e-Government

2nd Thailand ICT
Master plan
(2009-2013)

3rd Thailand ICT
Master plan
(2014-2018)

National Broadband Policy (2011-2020)

Digital Economy Plan (2014-present)

Ministry of Education

ICT for
Education
Master plan
2008-2010

ICT for
Education
Master plan
2011-2013)

ICT for Education Master plan 2013-2025

New Distance education law (2005)

Updated DE regulation (2014)

OHEC

The second 15 year long range higher education
plan (2008 – 2022)

- Seamless connection from Basic education, Vocational education and Higher education
- Emphasized on developing infrastructure for lifelong learning to enabling knowledge based society

Statistics of Online distance education programs

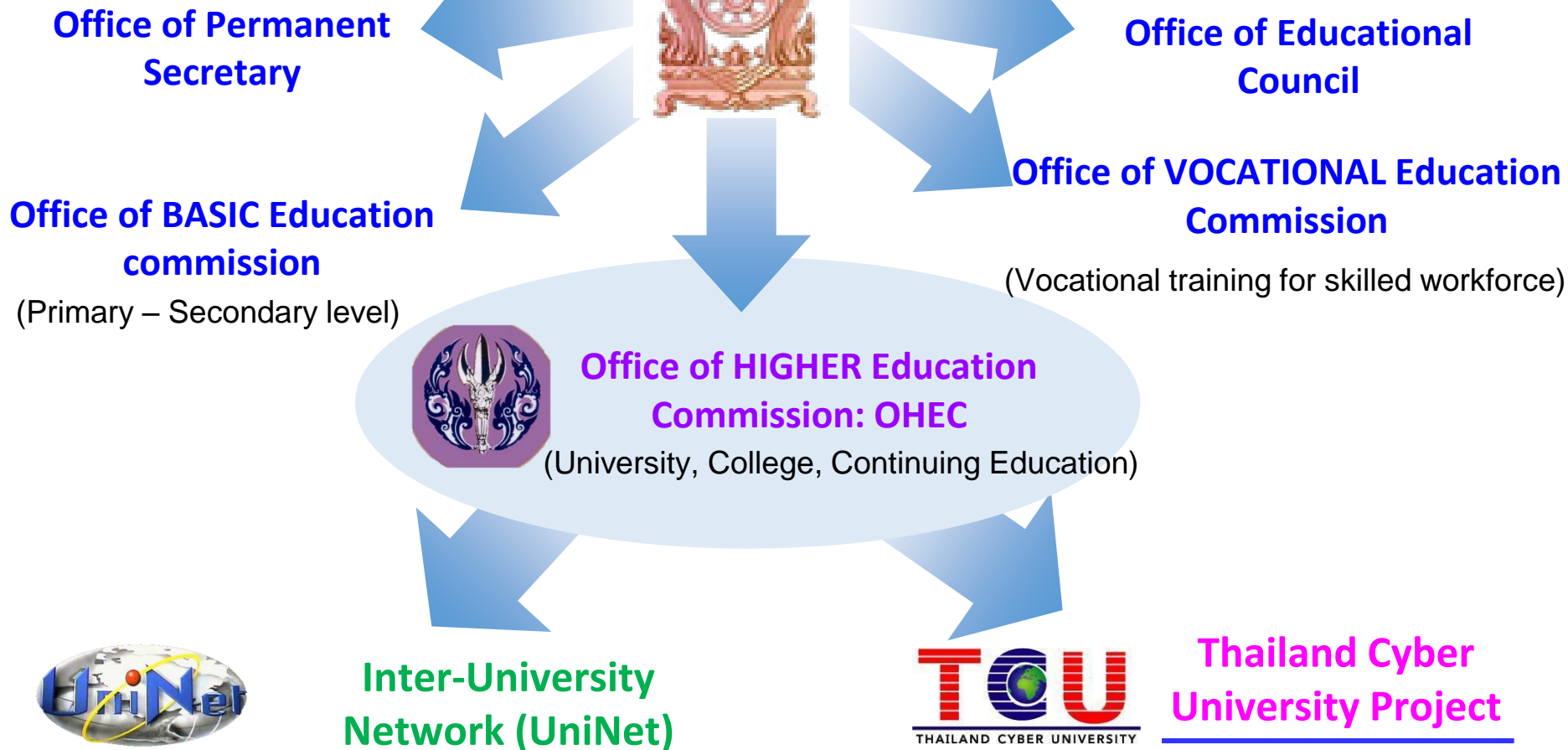
Type of University	Number	Number of program		
		Undergraduate	Master	Ph.D.
Public	-	-	-	-
Autonomous	1	-	1	-
Private	7	16	14	2
Total	8	16	15	2

33 programs

No	Area	Number of programs
1	Business administration	11
2	Education	8
3	Political sciences	8
4	Law	2
5	Communication arts	2
6	Public health	2
รวม		33

** Not include programs opened by Sukhothai Thammathirat Open University

Ministry of Education: MOE

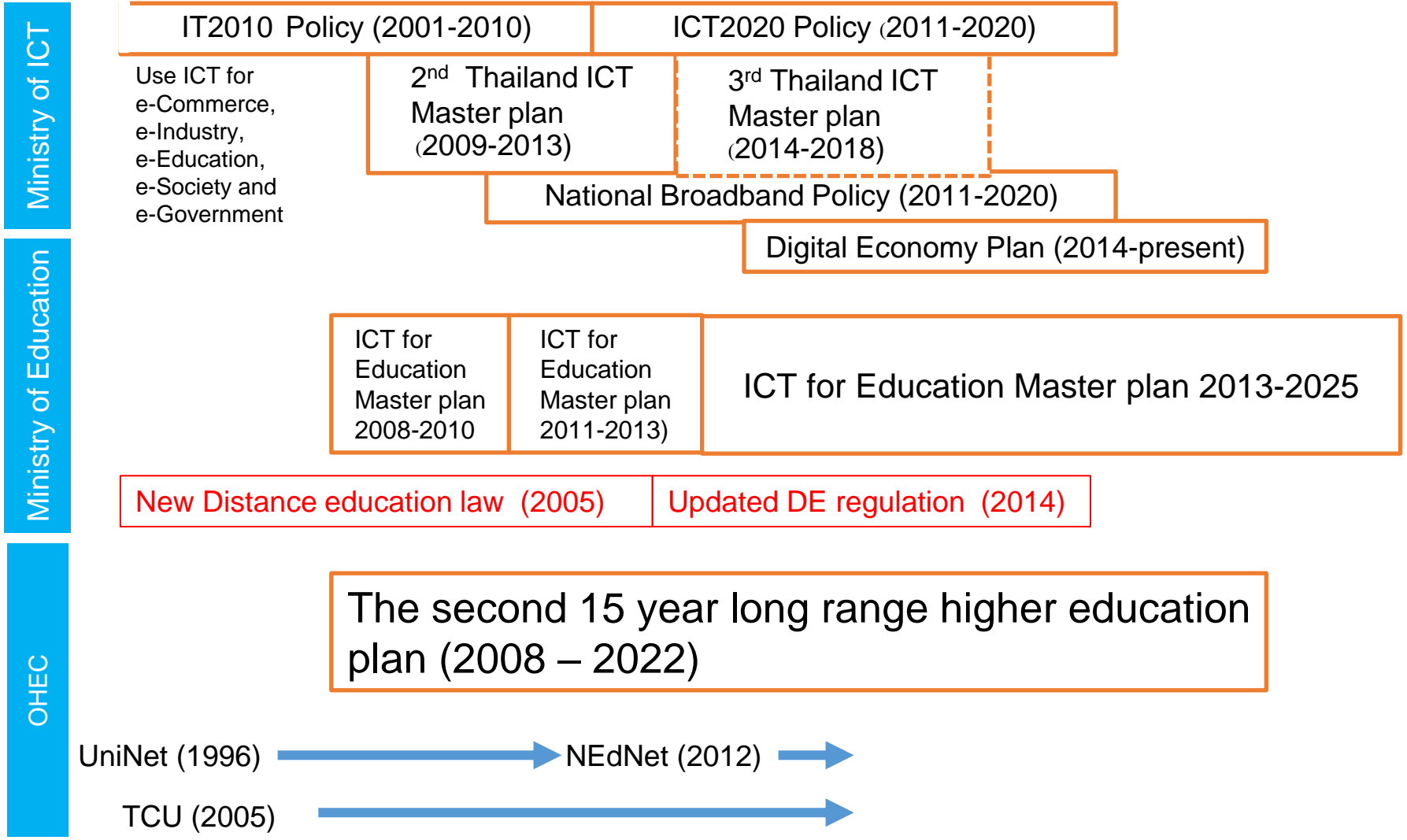


- **Development of ICT Infrastructure for Education**
- **Administrate and support the system that inter-connect public universities (founded 1996)**

- **Initiate, promote and support online distance education in higher education**
- **Create local and international universities network on e-learning, R&D, Learning resources sharing (founded 2005)**

Thailand ICT for Education Policy

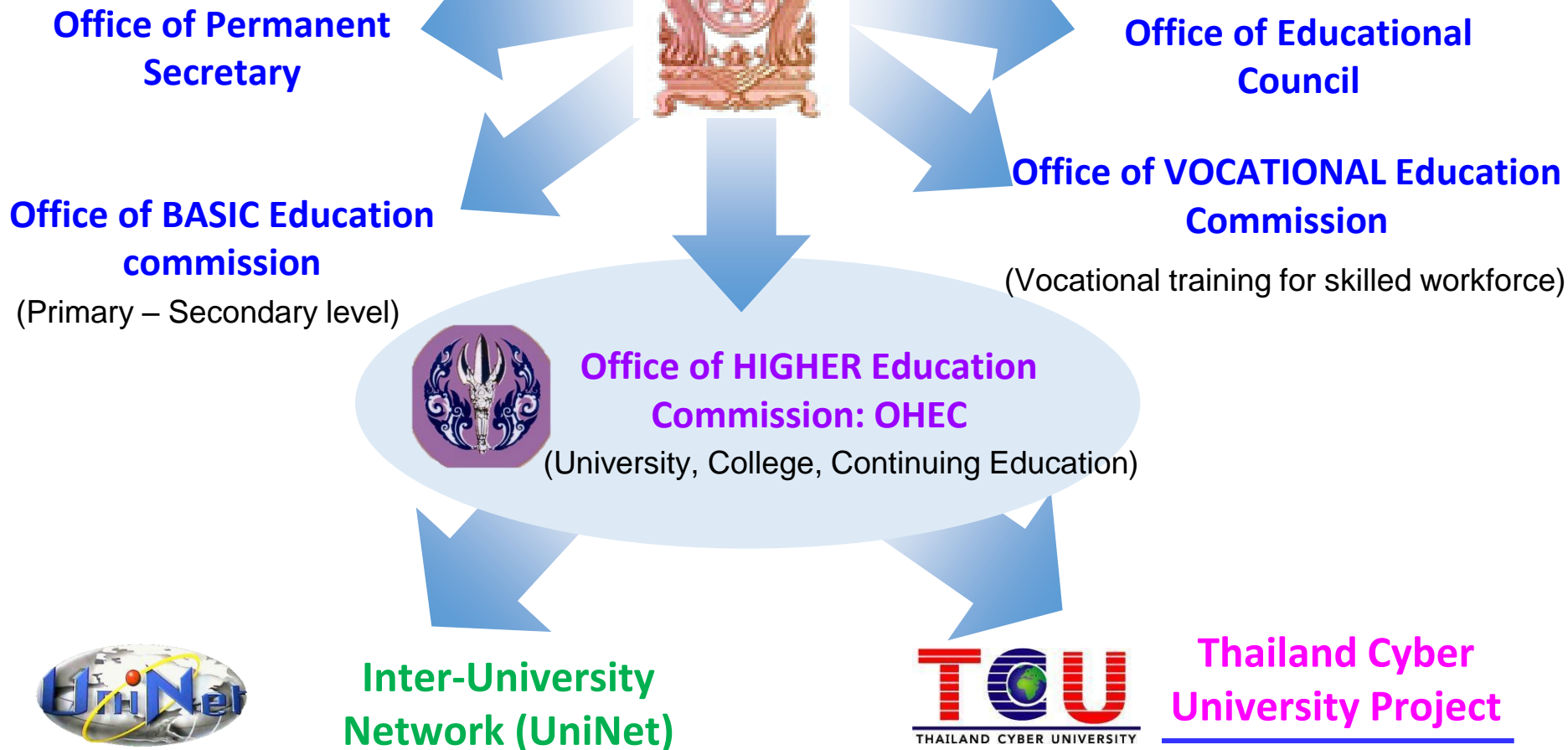
A.D.



II. ICT for education development



Ministry of Education: MOE



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UniNet



- Interconnecting Thailand University and connecting to research network
- Consortium of Thailand University for
 - Increase the buying power of Internet Bandwidth
 - University ICT's human resource development
 - Research and Development of technology and application for effective and efficient use of inter-university network
- Central hub for connecting to other national and international network

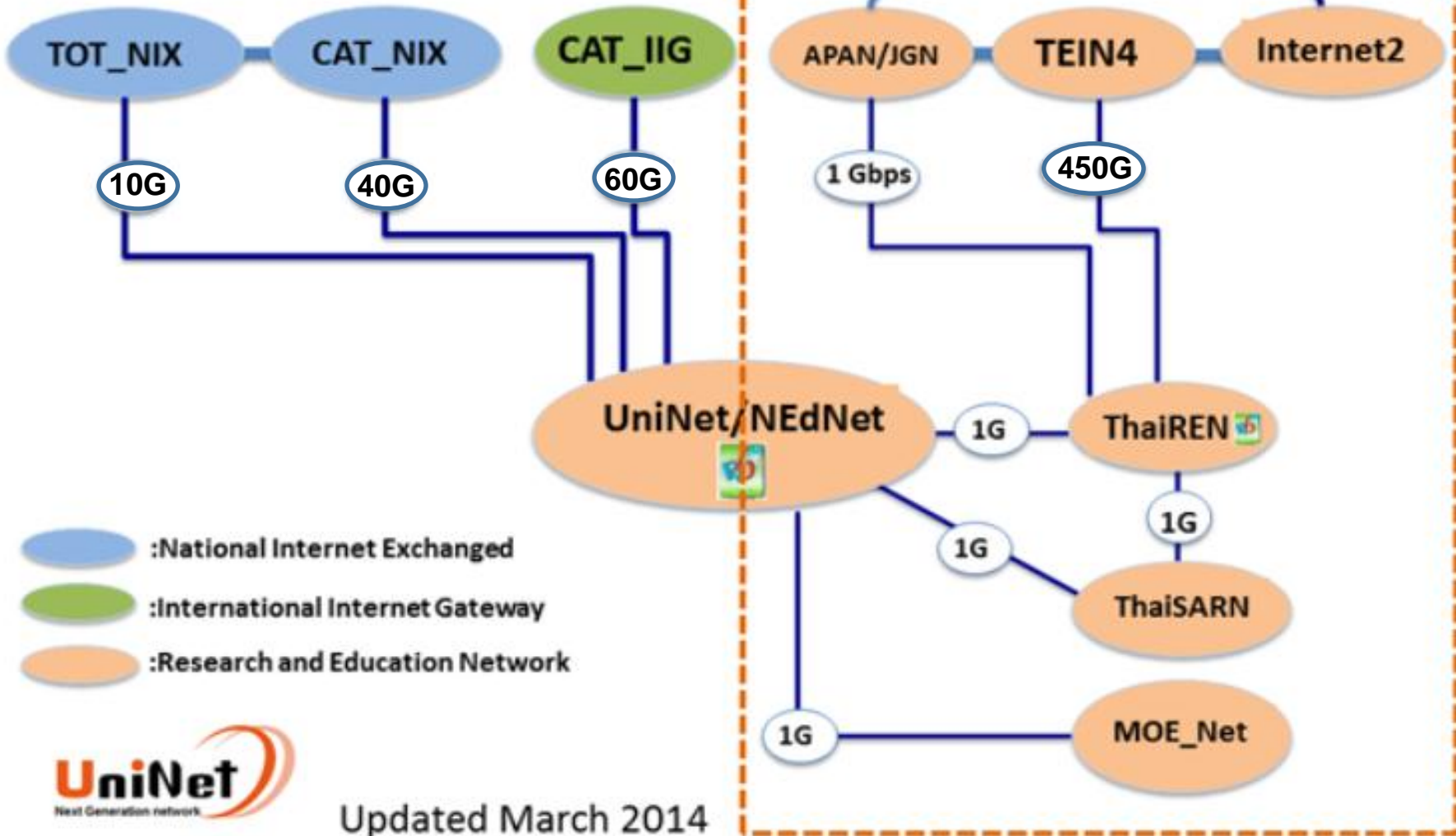
From UniNet to NEdNet (2012)

(National Education Network)

- Interconnecting 4 major educational network to become one National Education Network
- The previous education networks are
 - MOE Net (Ministry of Education)
 - OBEC Net (Elementary, Secondary schools)
 - VEC Net (Vocational education)
- Government stimulus package 2 (116 M US)

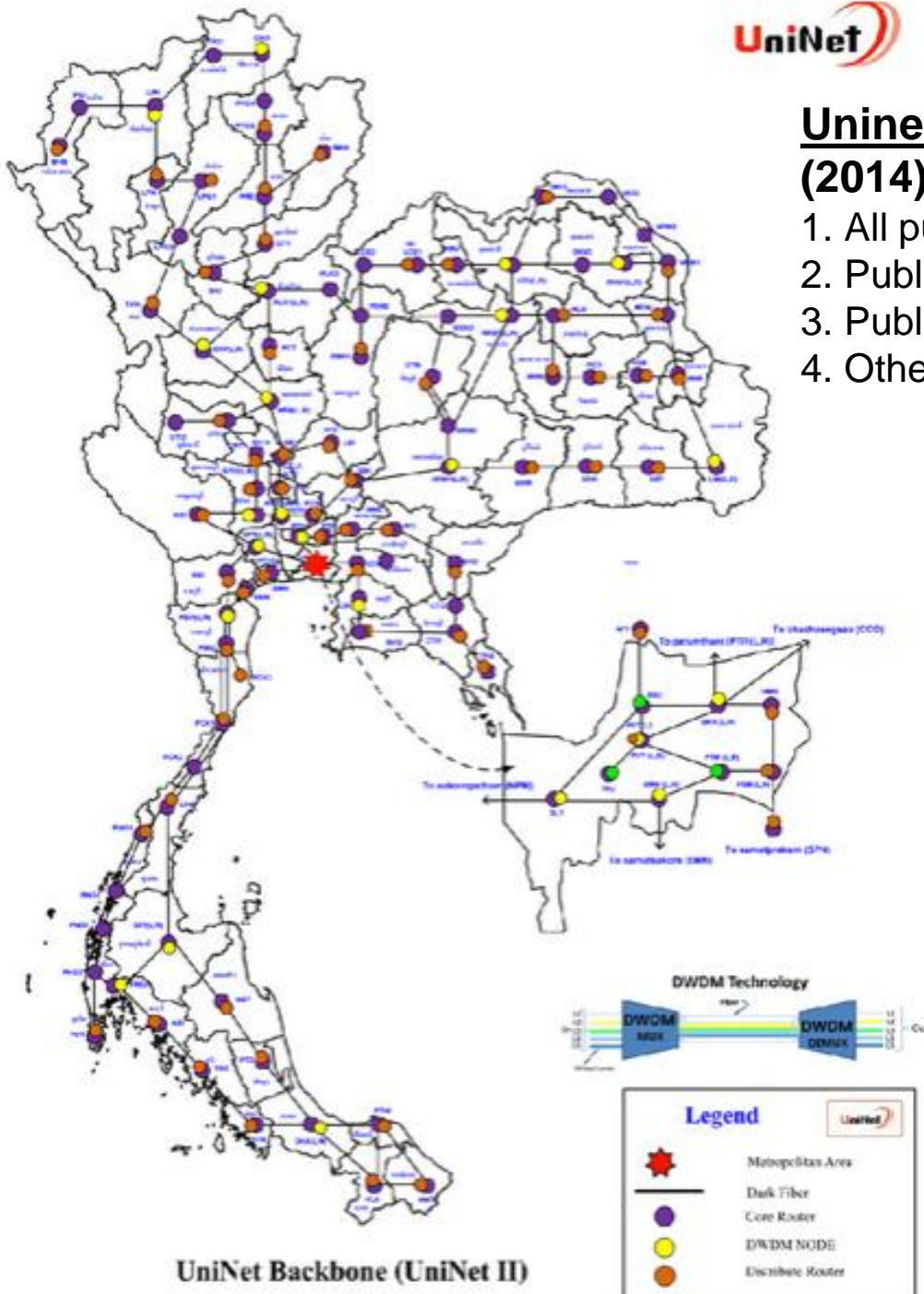
Thailand University and Research network

Peering Network Map



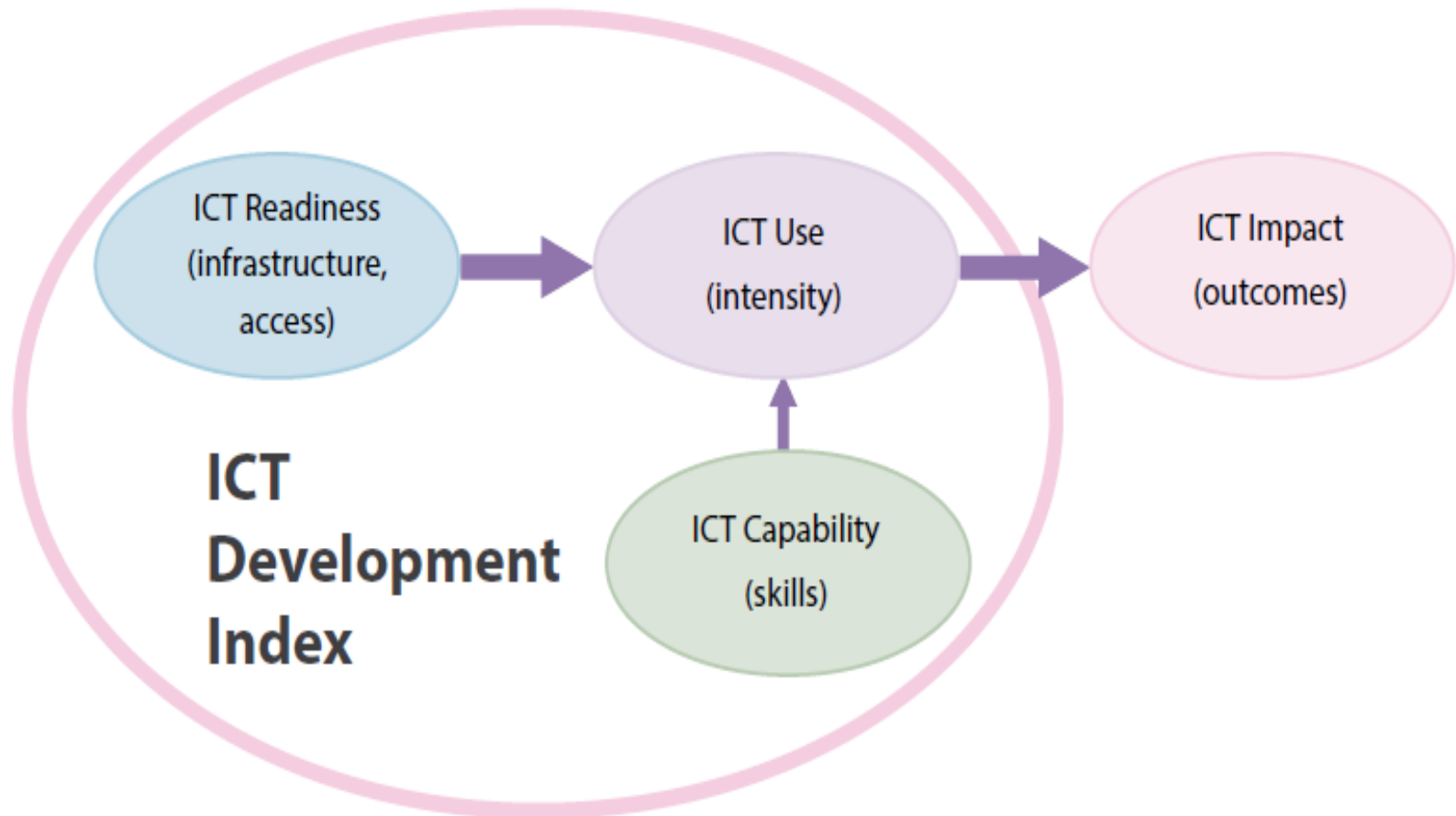
Uninet connected to more than 10,743 sites (2014) Include

1. All public universities and campuses 223 sites
2. Public Vocational education campuses 426 sites
3. Public secondary schools 9,715 sites
4. Others public institutes / libraries



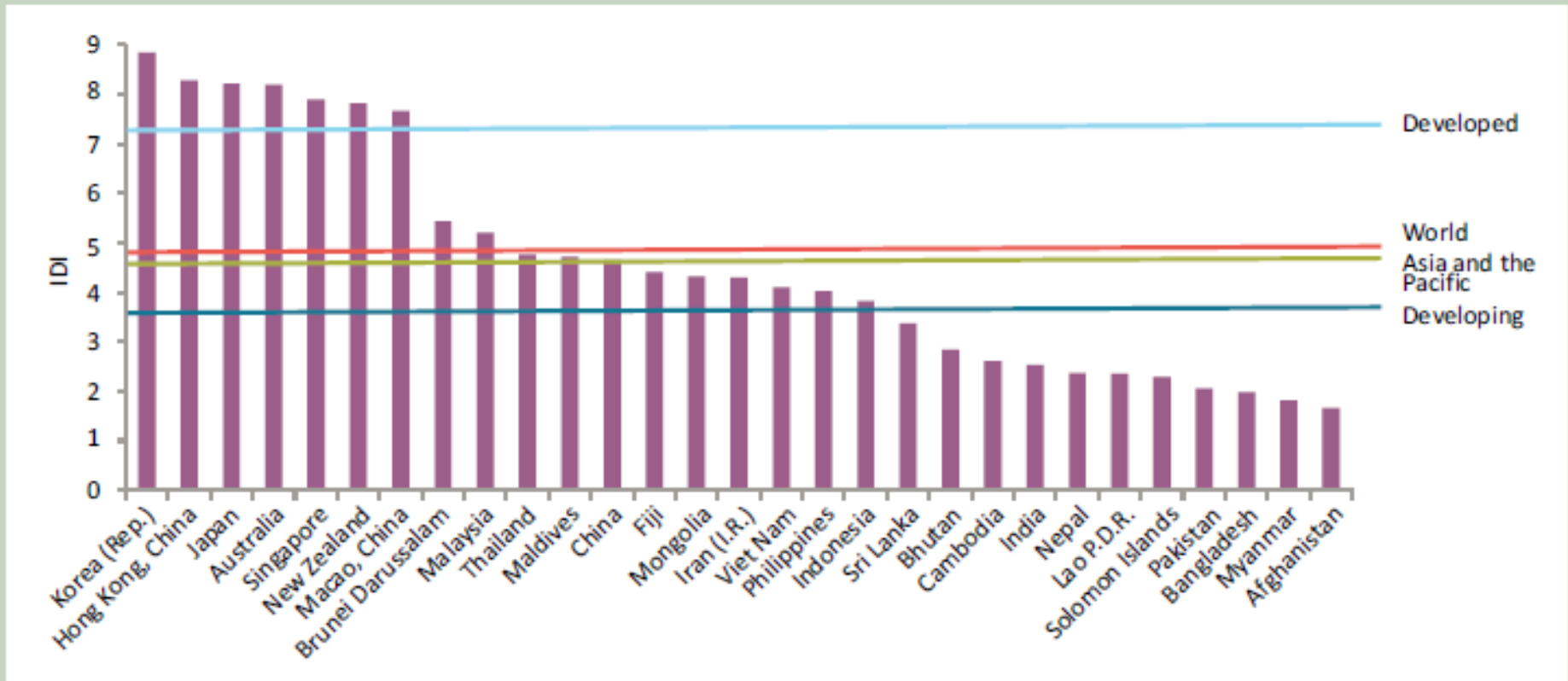
ICT Development Index

Figure 2.1: Three stages in the evolution towards an information society



ICT Development Index

Chart 3.6: IDI values compared with the global, regional and developing/developed-country averages, Asia and the Pacific, 2013



Thailand Cyber University Project

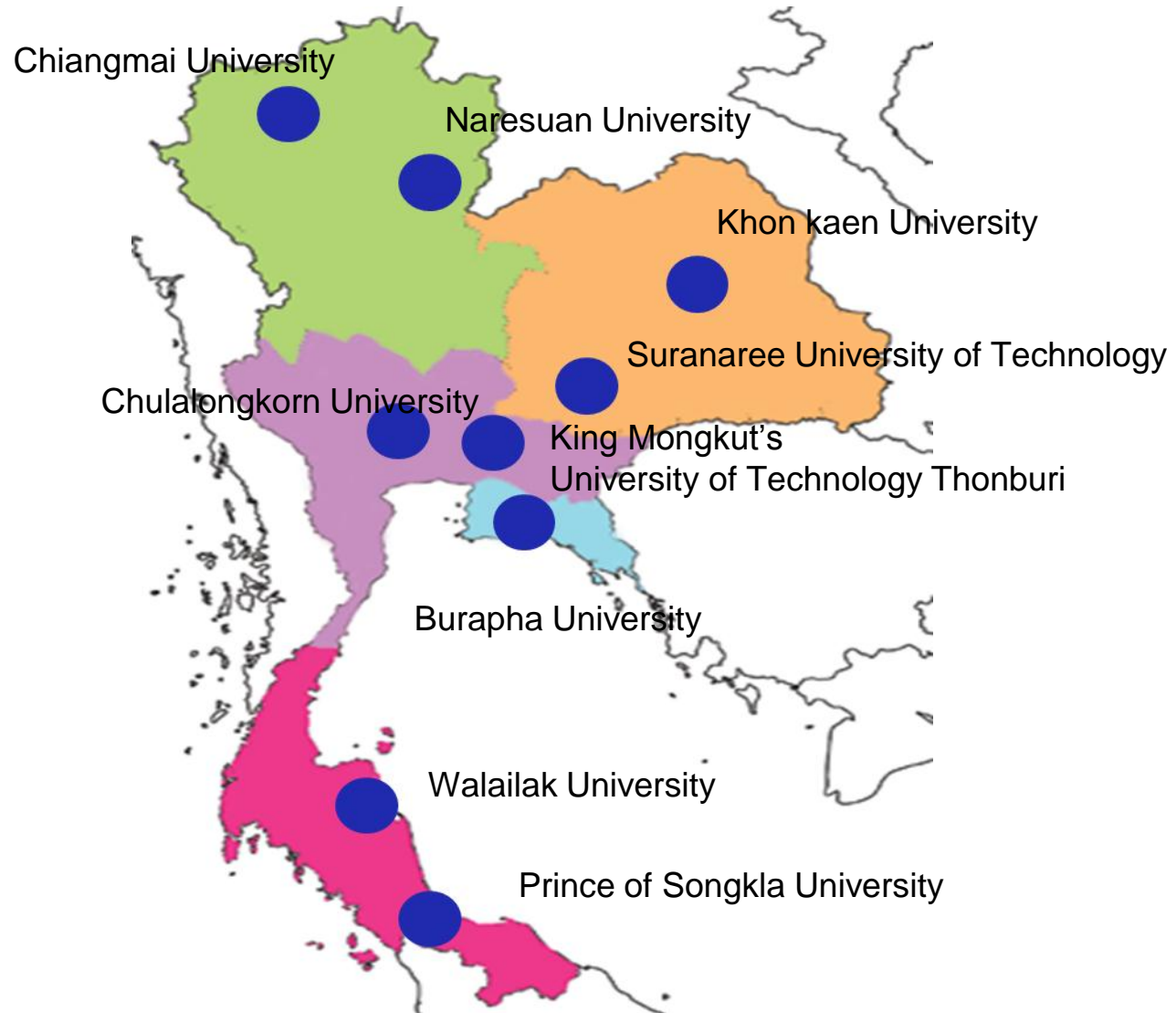
- Promote and support Thai University to utilize ICT for raising the quality of higher education
 - Promote sharing resources (courseware, human, etc.)
 - Promote sharing knowledge (conduct e-learning conference 2 times annually – one International / one National conference)
 - Online and in class training for capacity building
- Support all Thai University to provide quality online distance education
- Research and development in e-learning Quality guideline / Quality assurance including Innovative technologies for e-learning

TCU Strategies

To improve the quality of higher education through e-Learning by:

- **Empower 9 regional universities** to be regional e-Learning hub
- **Promote share open coursewares and learning resources** among universities
- **Human resources development** through e-training, conducts national and international conference
- **Research for e-Learning quality standard / best practice / guideline**

9 regional universities as e-Learning hubs



TCU's projects and lesson learned before Thai-MOOC

Sharing open courseware and learning resources

1. TCU Open courseware project (TCU-OCW)
2. TCU-Globe project (interconnecting open courseware portal throughout Thailand and the world)







































Human resources development

3. Conduct National and International e-Learning conference annually
3. e-Learning professional training program

TCU Open Courseware project

- TCU invites Universities to share courseware
- TCU funds Major Universities to produce quality courseware and then open for sharing via TCU portal
- TCU supports Universities to localize (quality) open MIT open coursewares
- TCU conducts courseware contest in some specific area (courseware for teaching Democracy, Moral and Ethic, Thai studies)
- TCU provides training on courseware development to university staffs

List of Universities/Organizations in Consortium

-  ▶ Chulalongkorn University
-  ▶ Kasetsart University
-  ▶ Naresuan University
-  ▶ Silpakorn University
-  ▶ Chiang Mai University
-  ▶ Mahidol University
-  ▶ Mae Fah Luang University
-  ▶ MIT OCV, USA
-  ▶ University of The Thai Chamber of Commerce
-  ▶ UNESCO BANGKOK
-  ▶ National Institute of Multimedia Education (NIME), Japan
-  ▶ King Monwong University
-  ▶ Sukhothai Thammathirat Open University
-  ▶ Rangsit University
-  ▶ Dusit Rajabhat University
-  ▶ Rajamangala University of Technology Thonburi
-  ▶ Rajamangala University of Technology Srirajaburi
-  ▶ Rajamangala University of Technology Srirachaburi
-  ▶ Rajamangala University of Technology Srirangapatana
-  ▶ Rajamangala University of Technology Srirongthong
-  ▶ Rajamangala University of Technology Srirongthong
-  ▶ Rajamangala University of Technology Srirongthong
-  ▶ Rajamangala University of Technology Srirongthong
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-  ▶ Rajamangala University of Technology Srirongthong
-  ▶ Rajamangala University of Technology Srirongthong
-  ▶ Rajamangala University of Technology Srirongthong
-  ▶ iACE (International Association for Collaborative Education, The)
-  ▶ SLU (University of Technology)
-  ▶ Thai Airways International Public Company Limited
-  ▶ King Mongkut's University of Technology North Bangkok
-  ▶ ENERGY REGULATORY COMMISSION OF THAILAND
-  ▶ Sripatum University
-  ▶ University of Phayao
-  ▶ Surindra Rajabhat University
-  ▶ The Institute for the Promotion of Teaching Science and Technology (IPST)

38 major public and private universities /
 HEIs joined TCU consortium
 to produce high quality open courseware



Classroom Login

Facebook | TCU



e-Learning News

About Us

User ID
Password

Login

<http://www.thaicyperu.go.th>

- TCU's History
- Message from Executives
- Contact Us
- Message Board
- FAQs
- TCU Gallery
- Join Our Newsletter
- UNESCO Honourable Mentions

NAC2013
th NCTDA Annual Conference

ส่งข้อความ Show All

TCU-LMS User Manuals

Check your computer before you start studying

An invitation for students

An invitation for teachers (Experimental Zone)

Video Training for Using
www.thaicyperu.go.th/index.php?lang=en-us

TCU online courses

Self-Paced Learning

Certificate Programme

Bachelor's Degrees

Master's Degrees

After **registering** at TCU, you can study any of more than 616 self-paced learning courses free of charge. You can preview example of courses from the link below.



• TCU-TMM101 :: Learning English with Tell Me More **TGU**

สรุปสถิติของมหาวิทยาลัยไซเบอร์ไทย

(ตั้งแต่เปิดให้บริการครั้งแรก เมื่อ 12 ม.ค. 2548)

Number of registered users

จำนวนสมาชิกที่ลงทะเบียน

- นักเรียน

- อาจารย์

185,804 คน

185,266 คน

538 คน

จำนวนบทเรียน **Number of Open coursewares**

811 บทเรียน

จำนวนหลักสูตร **Number of Full curriculums**

17 หลักสูตร

จำนวนบทเรียนที่มีการลงทะเบียนเพื่อเข้าเรียน

388,884 บทเรียน

จำนวนครั้งที่มีผู้เข้าใช้บริการในบทเรียน

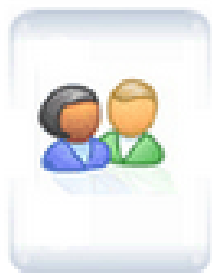
5,484,221 ครั้ง

มหาวิทยาลัย/หน่วยงาน ที่ร่วมโครงการ

45 แห่ง

Number of universities/Institutions join TCU consortium

ปรับปรุงข้อมูลครั้งล่าสุด : 21 สิงหาคม 2557



User
Online

28

Page
Views

16,588,727

**TRACE
WATCH**

TCU
THAILAND CHINA UNIVERSITY

Website Statistics

ร้อยละความพึงพอใจต่อการใช้บริการ : 82.3

TCU-Globe project

- TCU implements TCU-Globe for interconnected major Thailand courseware repositories and connecting to Globe network to increase the “courseware FINDABILITY” and “Global-Reach”



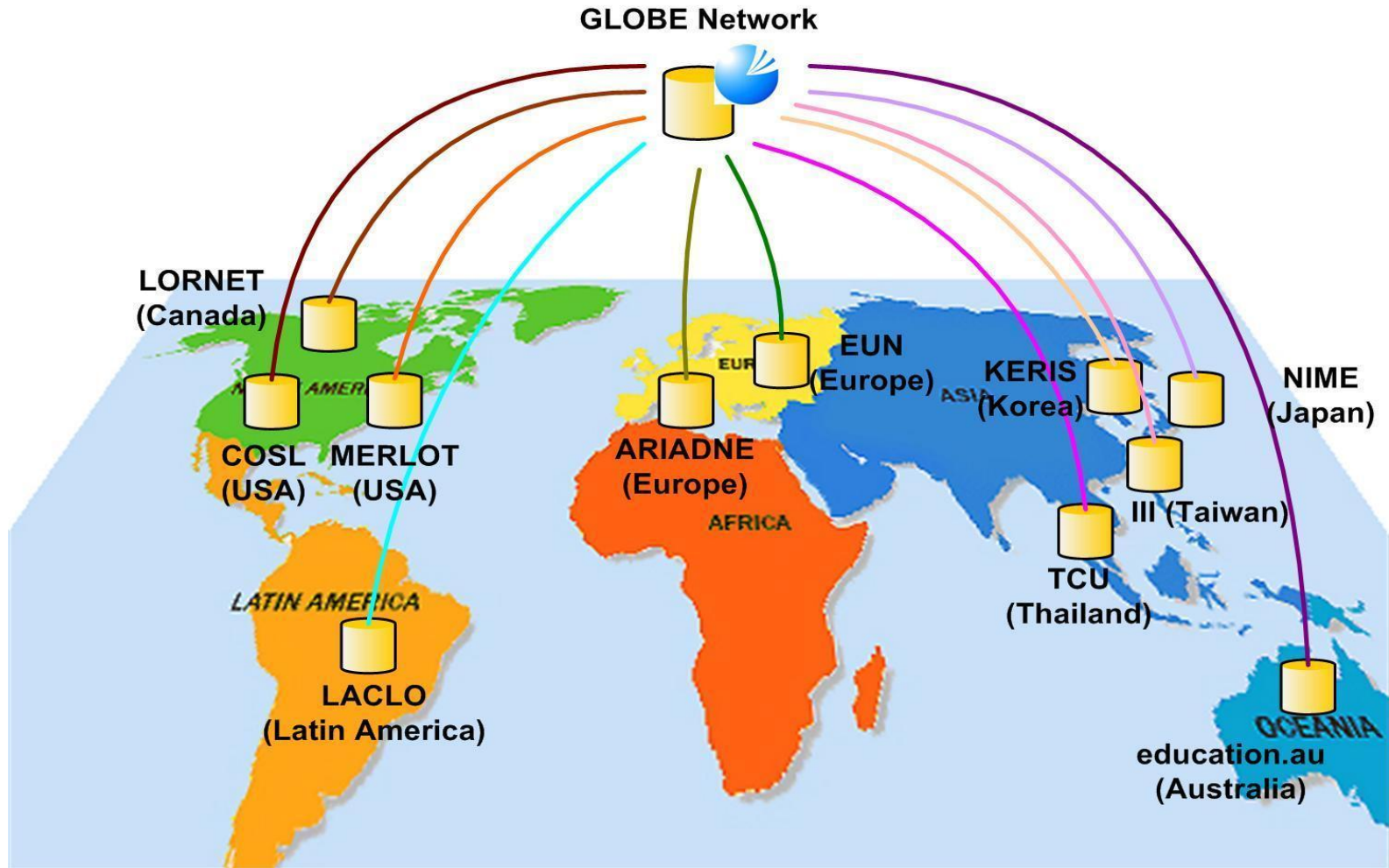
TCU-GLOBE Project: The GLOBE

- GLOBE (**G**lobal **L**earning **O**bjects **B**rokered **E**xchange) is an one-stop-shop for learning resource broker organizations, each of them managing and/or federating one or more learning object repositories.
- GLOBE makes a suite of online services and tools available to its members for the exchange of learning resources, and is set up as a worldwide Open Community.



GLOBE

(Global Learning Object Brokered Exchange)



TCU-GLOBE Project: About the Project

- TCU establishes a “Common Infrastructure” for inter-connecting major open courseware providers (universities, institutions) to provide on-stop-shop service to coursewares and learning resources.
- This “Common Infrastructure” enables access of the educational resources that belong to major open courseware providers.



2. TCU-GLOBE Project:

Regional hubs connect together and to GLOBE



From the TCU-Globe project, TCU founded that there are a lot of quality coursewares and learning resources in many universities and they are willing to share among each others network



Human Resources Development (HRD)

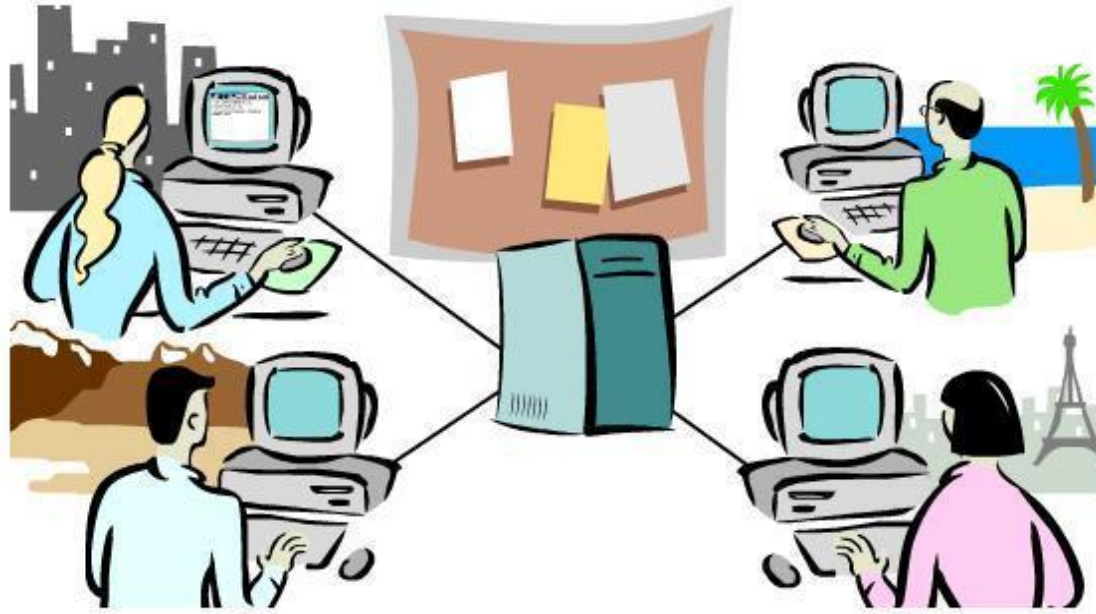
- TCU provides in-class and online training to university staffs and faculty members.
- TCU conducts “*e-Learning Professional Development*” certificate program as a model for capacity building of “e-Learning professionals” *which is first MOOC style online course opened in November 2006.*





Online Certificate
program

Thailand Cyber University: e-Learning Professional Development Program



First MOOC in Thailand launched Nov, 2006

e-Learning Professional Development curriculum

course		EL teacher	EL courseware designer	EL project manager
1. Principle of e-Learning	★	core	core	core
2. e-Learning Delivery system	★	core	core	core
3. Innovative technology in e-Learning	★	core	core	core
4. Quality assurance in e-Learning	★	core	core	core
5. e-Learning methods and skills		core	core	
6. Evaluation of e-Learning courseware		core		
7. Monitoring e-classroom		core		
8. Designing effective website for e-Learning			core	
9. Evaluation methods and technique in e-Learning			core	
10. Design e-Learning courseware			core	
11. e-Learning project management				core
12. Organizational e-Learning policy and strategy				core



e-Learning Professional Approach

• Target	in-service teachers
• Teaching & Learning delivery system	100% online mode
• Learning management system	Moodle
• Instructional approach	Collaborative learning



e-Learning Professional Development Program Data Sheet

Number of registered students

Class no.	EL Teacher	EL Courseware Designer	EL Project Manager	total
1	59	10	16	85
2	99	10	13	122
3	10	10	10	30
			142	580

The e-Learning Professional Development Program was the first MOOC style fully online certificate program in Thailand and found finish rate of 35%

100 have successfully completed the course

Certificate type	total
EL Teacher	66
EL Courseware Designer	70
EL Project Manager	66
total	202

Finish rate = 35%

III. The Establishment of Thai-MOOC

Thailand Massive **O**pen **O**nline **C**ourse



TCU
THAILAND CYBER UNIVERSITY

Thailand Massive Open Online Course: Objectives

- 1.To design and develop MOOC platform with standard guideline for supporting Thai HEIs to provide MOOC
- 2.To provide opportunity for lifelong learning and access to higher education
- 3.To provide opportunity for HEIs student to take courses from other HEIs (provider HEIs) both for credit and not for credit
- 4.To implement “the credit bank system” for accumulated and transfer learning credits between HEIs
- 5.To conduct research on MOOC: system, pedagogy, media and courseware guidelines for providing MOOC in Thai context

Flexible pathways access
to Higher Education

Credit transfer
between HEIs

**Wide range of Higher
Education Quality**

Accommodate more
higher education student

Support drop out
students

Ready

THAI-MOOC

**Enabling
factors**

Readiness of
learners

Experience of fully
online teaching

Foundation

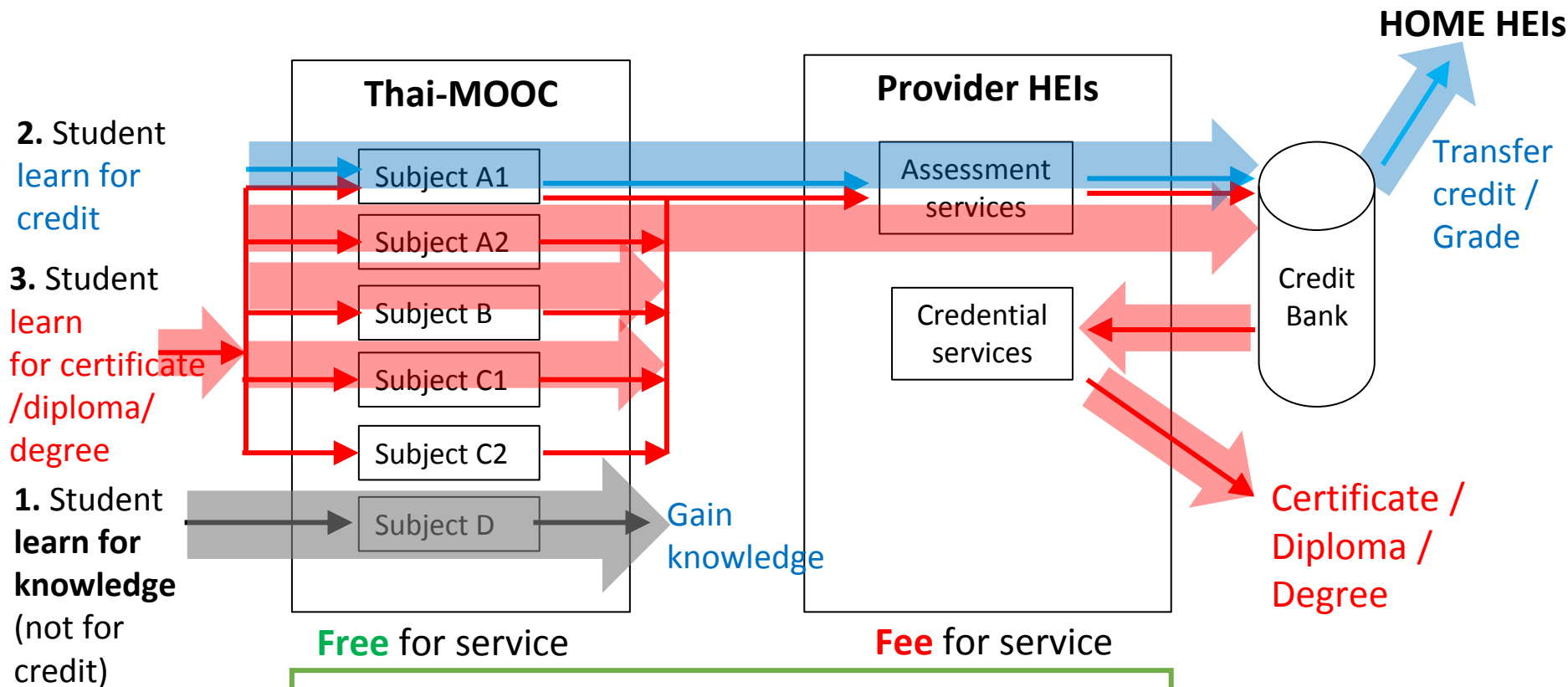
Reliability & Fast
Network

OER / OCW portals
& findability

Consortium of
Universities



Thailand Massive Open Online Course: The System



Free for service

- Resources for learning
- ICT Infrastructure
- Student Administration
- Supporting services

Quality Assurance / Courses / Program Accreditation



Thailand Massive Open Online Course: The Priority MOOC Courses

- General education courses
(for first & second year student / common for all university)
- Languages and Culture (especially Asian countries)
- Life and Health Sciences courses
- Computer and Technology courses
- Business Administration courses



IV. CONCLUSION & PROPOSAL



IV. Conclusion & Proposal

- Thai Government has provided full support to establish Thai-MOOC.
- Thailand Cyber University (TCU) project together with partner universities / institutes will start Thai-MOOC phase I on 2015 targeting to provide 30 MOOC-style courses, “Credit-bank” and “Assessment-center” and enabling
 - Lifelong learning
 - Learn and transfer learning credit among university
 - Learn and accumulate learning credits to get certificate or bachelor/master degree



IV. Conclusion & Proposal

- Looking forward to partner with Regional MOOCs: ASEAN, ASIAN, GLOBAL MOOCs.



Q/A & Discussion

Thank you ขอบคุณครับ



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