

THE PRECURSOR OF AIT

The "SEATO Graduate School of Engineering (1959-1967)" was established by the Royal Decree at the campus of Chulalongkorn University, managed by a Board of Management appointed by the SEATO Council.



STATUS CHANGE OF AIT IN 1967 - WHY?

SEATO GRADUATE SCHOOL OF ENGINEERING บัณฑิตวิทยาลัยวิศากรรมค่าสตร์ a. ป. a.



"Some critics believed the Pote Sarasin and the USA dream was simply an experiment that could not succeed and the new school would become a part of Chulalongkorn University. There was no precedent for such an institute anywhere in the world."



"Because of the ambiguous legal status and its affiliation with SEATO, it was not possible to broaden the financial base and obtain contributions from other sources."



"Extensive contacts have been made with a great many potential donors including countries, foundations, UN organizations, and individuals."

General, with AIT President Milton E. Bender.

H.E. Mr. Pote Sarasin, the first SEATO Secretary

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resident Milton E. Bender in his Report to the Board of Trustees July 9 1969) 8 W. Kanok-Nukulchai

SEATO RELEASED CONTROL OF ITS MOST SUCCESSFUL CULTURAL PROJECT

The local sector of the sector

PROMULGATION

VILLAGE & STOCKED



Dr. Thanat Khoman Foreign Minister of Thailan

OF THE AGREEMENT BETWEEN THE GOVERNMENT OF THE KINGDOM OF THAILAND AND THE SOUTH EAST ASIA TREATY ORGANIZATION FOR THE ASIAN INSTITUTE OF TECHNOLOGY

By Royal Command, please be informed accordingly.

As the Minister of Foreign Affairs made the agreement in Bangkok with the South East Asia Treaty Organization for the Asian Institute of Technology, the contentia ser as follow. This agreement shall come into force between The Government of The Kingdom of Thailand and The South East Asia Treaty Organization as from the day of the letter of response of the Minister of Foreign Affairs, Kingdom of Thailand.

THE HEADQUARTERS AGREEMENT 25 October 1967

Lt. Gen. Jesus Vargus SEATO Secretary Gener

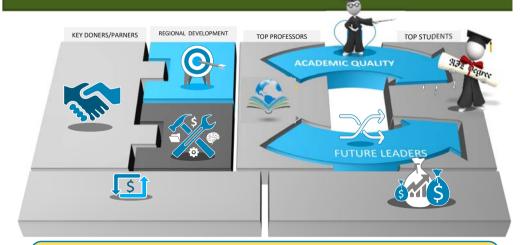
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INAUGURATION OF MODERN AIT

1973 His Majesty King Bhumibol Adulyadej of Thailand graciously presided over the opening of AIT's present day campus.

THE AIT'S DONOR-DRIVEN BUSINESS MODEL



2 KEY FACTORS FOR ITS SUCCESS IN THE GOLDEN DAYS

- (1) Academic Quality (Driven by World-Known Seconded Faculty)
- (2) 'Cream of the Crop' Students (Driven by Generous Scholarships by Donors)



AIT Presidents : Top – Milton. E. Bender, Jr. (1963-1973, 1975-77), Harold E. Hoelscher (1973-1975), and Robert B. Banks (1977-83). Bottom - Alastair M. North (1983-1996), Roger G.H. Downer (1996-98)



AIT Presidents : Top – Charas Suwanwela (1998-1999), J.L. Armand (1999-2004), and Mario Tabucanon (2005). Bottom – Said Irandoust (2005-2013), and Worsak Kanok-Nukulchai (2013-present)

PAST AND PRESENT AIT PRESIDENTS

W. Kanok-Nukulchai

W. Kanok-Nukulchai

DONOR-DRIVEN MODEL – THE CHALLENGE



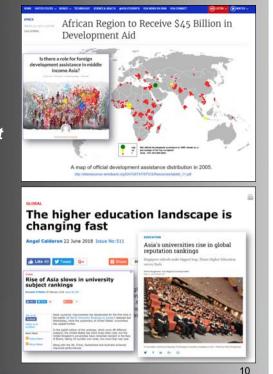
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"If regional development continues to be the mission of AIT, the better we do our job, the sooner we will be out of job."

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Dr. Stephen Ogunlana Former Professor of Construction Engineering Asian Institute of Technology Two critical challenges due to changes in world geopolitical landscape:

- (1) Exhaustion in the traditional 'development funds', to provide scholarships to topclass students.
- (2) Lack resources to compete with national full-fledge universities for world-class faculty and students.



AIT CRISIS 2010-2013



STATUS-CHANGE ATTEMPT IN 2012 - A FALLECY



The clause of "mandatory financial contribution" in the original reason for the new Charter was finally removed from the draft and replaced by "voluntary contribution", which did not carry the original spirit proposed by the host country, Thailand.

(Extracts from promotional material to support the AIT New Charter in 2010, W. Kanok-Nukulchai

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NEWS > POLITICS

AIT trustees to re-issue degrees to students

Institute's new charter not yet ratified by govt

14 Dec 2012 at 00:00 0 comments NEWSPAPER SECTION: NEWS

The Asian Institute of Technology (AIT) is reviving its old board of trustees to issue degrees that are valid in Thailand, amid concerns that hasty changes to its charter disenfranchised students of their degrees.

Nopadol Gunavibool, deputy permanent secretary of the Foreign Ministry in his capacity as the chairman of the AIT's board of trustees, said yesterday the board had resolved to re-issue degrees to AIT students.

They would be conferred on students who graduated in this and previous academic years so their degrees would be acceptable under Thai law and to the Office of the Higher Education Commission and the Office of the Civil Service Commission.



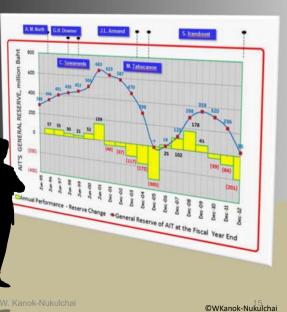
AIT students stage rally fearing degrees invalid

(3) FINANCIAL CRISIS

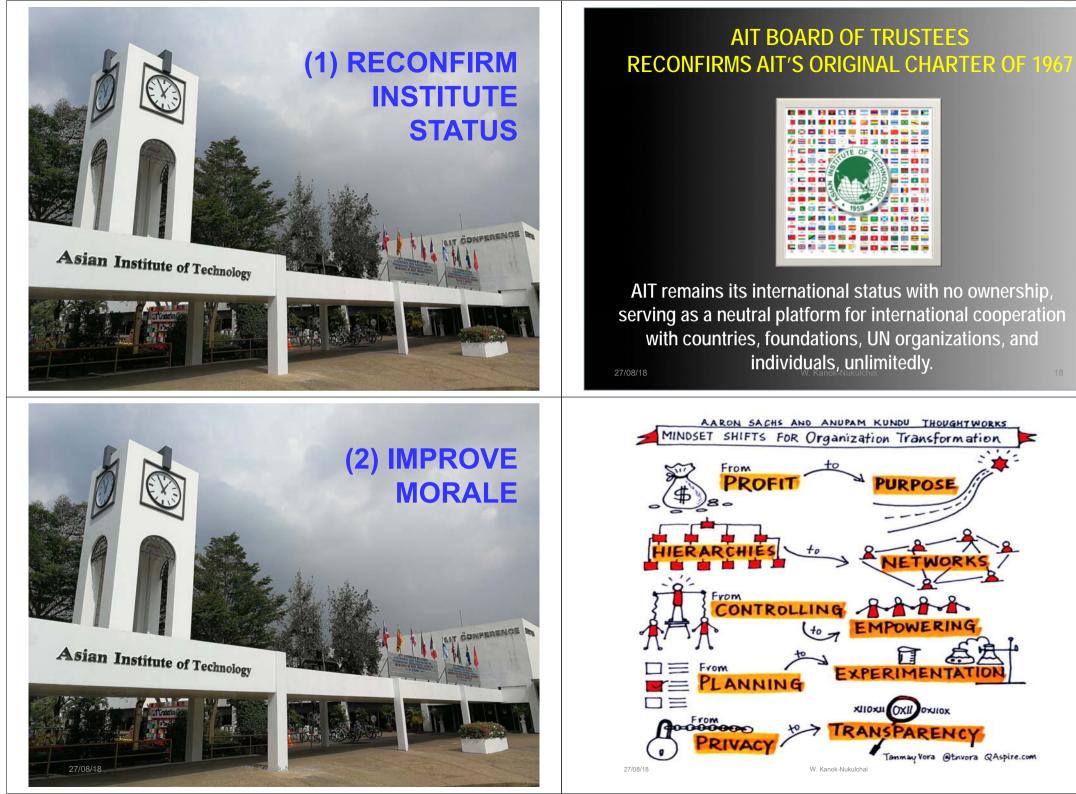
General Reserve (cash) plunged to 35 mB, not enough for 1 month salary.

RTG budgets were suspended.

3 looded buildings & infrastructure needed urgent rehabilitation.



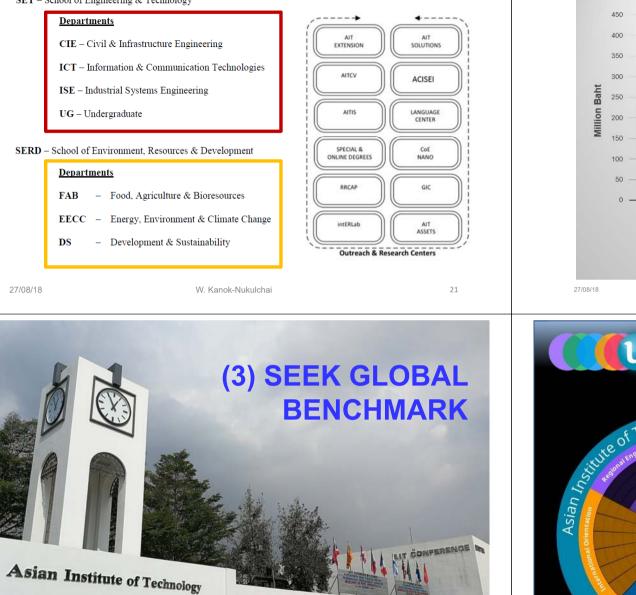




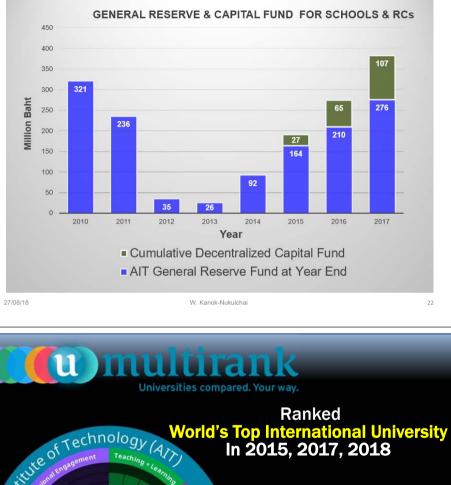
ENCOURAGE FACULTY TEAM WORK

SET - School of Engineering & Technology

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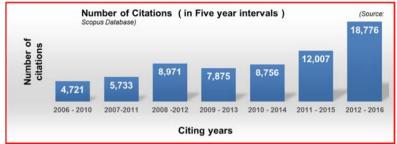


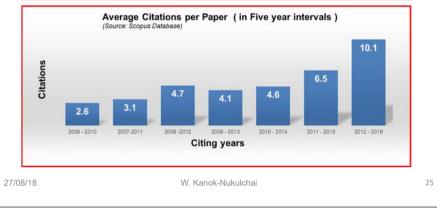
DECENTRALIZATION OF GENERAL RESERVE



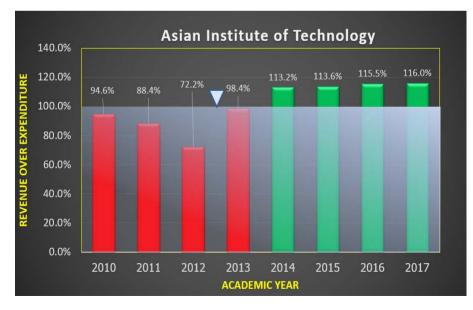
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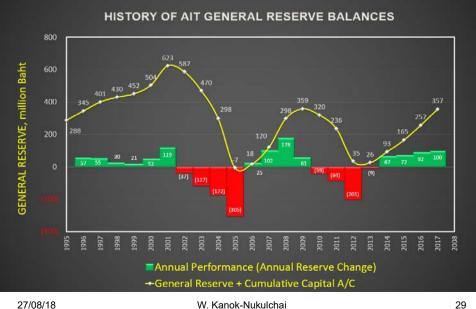
RESERCH QUALITY





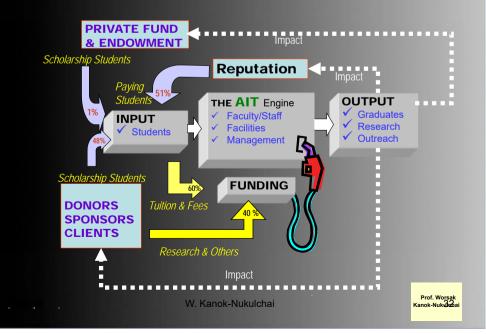


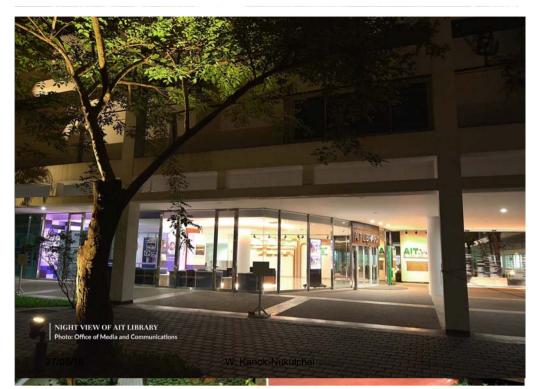












AIT GOES GLOBAL

REGIONAL

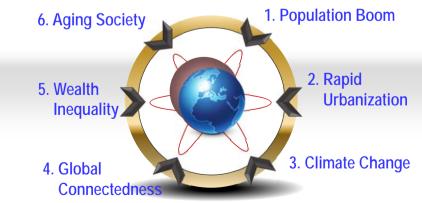
AIT 1959

GLOBAL

AIT 2017









W. Kanok-Nukulchai

(Credit photo: Anders Lindgren)









Name the 3 milestones in humankind history that have significantly change the human lifestyle?



futureadenda

Guest what might be the 4th Revolution that may completely change the lifestyle of humankind?

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The A.I. Revolution

21st Century up

The Digital Revolution

^nth and 21st Centuries

The Industrial Revolution

18th and 19th Centuries

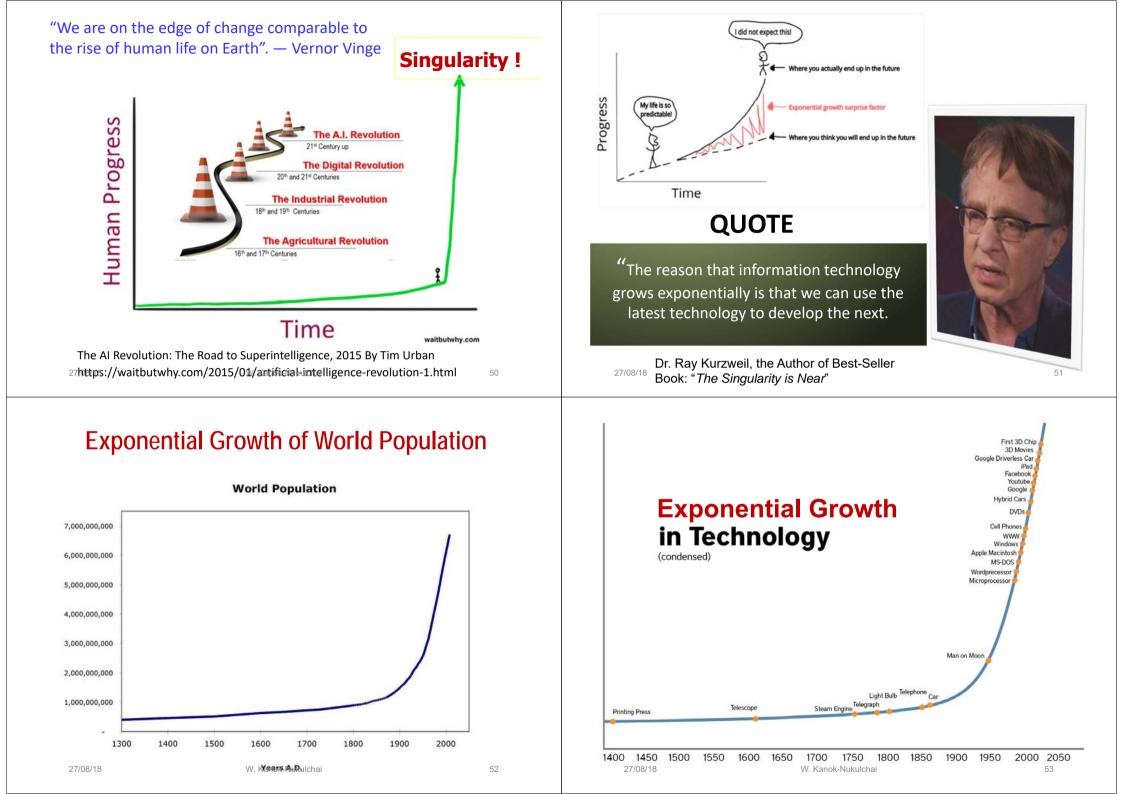
The Agricultural Revolution

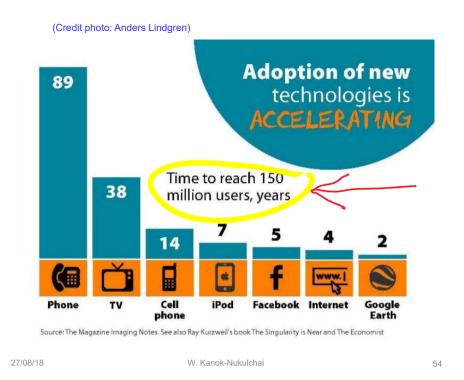
16th and 17th Centuries



W. Kanok-Nukulchai

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TECHNOLOGY DISRUPTIONS

(Already Here)

Old Technology	Disruptive Technology	Old Technology	Disruptive Technology
×	The second second		
Slide Rule	Calculator	Film Camera	Digital Camera
		×	
Fixed-Line Phone	Mobile Phone	Typewriter	Word Processor

(Credit photo: W. Kanok-Nukulchai)

TECHNOLOGY DISRUPTIONS (Coming Soon...)

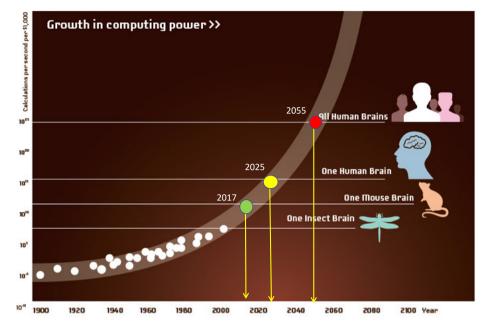
Old Technology	Disruptive Technology		Old Technology	Disruptive Technology
Coal Fired Power Plant				M AL
Fossil Energy	Solar Energy		Physical Shops	Online Shops
×				
Bank / Bank Notes	Blockchain / Bitcoin		Human ?	A.I. Robot ≺
27/08/18	W. Kan	nok-Nukul	(Credit photo: W.	Kanok-Nukulchai)



THE ARTIFICIAL INTELLIGENT REVOLUTION

See you in the late 21st Century !

"Computers will overtake humans with AI within the next 100 years. When that happens, we need to make sure the computers have goals aligned with ours."



Peter Diamandis, Ray Kurzweil's Mind-Boggling Predictions for the Next 25 Years,2015 https://singularityhub.com/2015/01/26/ray-kurzweils-mind-boggling-predictions-for-thenext-25-years/ 59

Could AIT develop its Education Disrupter?

The 6 Ds Development of Disruption - a road map of rapid development leading to disruptive technologies

- digitization
- deception
- disruption
- demonetization
- dematerialization
- democratization





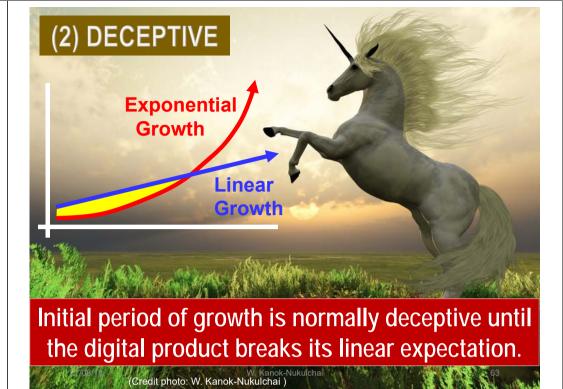
Digital information is easy to access, share, and distribute, it can spread at the speed of internet.

(Credit photo: W. Kanok-Nukulchai)



Sooner or later, traditional product will be outperformed and disrupted by digital technology.

27/08/18 (Credit photo: W. Kanok-Nukulchal and Antonio antonio antonio antonio





20 Years Later....All of these fit in your pocket...

Separated technologies that were once bulky and expensive are now all in a smart phone.

(Credit photo: P. Diamantis)



(5) DEMONETIZED

... and come for free on your smart phone!



Money is increasingly a non-issue, as technology becomes cheaper, often to the point of being free.



Powerful technologies are no longer only for governments, large corporates, or the wealthy. (Credit photo: W. Kanok-Nukulchai)

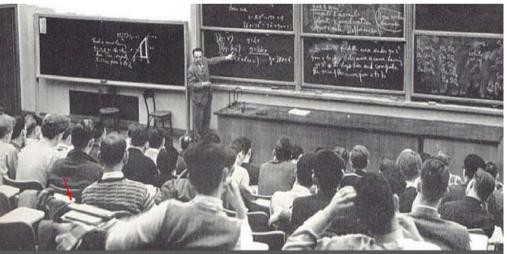
Global Megatrends

Exponential Growth of Technology

Technological Disruption

Future of Higher Education (& AIT)

AIT GOES GLOBAL



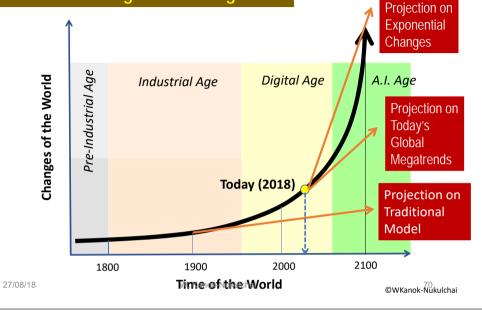
EDUCATION SYSTEM TODAY IS IRRELEVANT.

Education system that exists today was designed to serve the industrial revolution in the 19th century. It needs reinvention so students can be groomed with "universal basic competence" to be able to adapt to the future world.

W. Kanok-Nukulchai

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Should Industrial-Age Model of Education Create Graduates to Serve the Digital and AI Ages?



Why Lifelong Learning?



"It is no longer possible to acquire knowledge once and spend the rest of one's life applying them "

WHY EDUCATION MUST CHANGE:

"Today's education is not fit to the world of tomorrow."

27/08/18

W. Kanok-Nukulchai ©WKanok-Nukulchai

HAVE PhD

WILL WORK FOR F

FINISHED 3 POSTDOCS

Even though knowledges (information) are available freely, it doesn't mean any human is competent to learn.

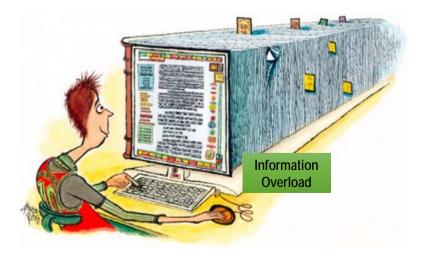


 Photo Credit : https://www.newyorker.com/culture/culture-desk/the-web-gets-smarter

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MY PROPOSAL

Every human individual should be equipped, at least, with "Universal Basic Competence", equired for his life-long learning in the future.



Worsak Kanok-Nukulchai



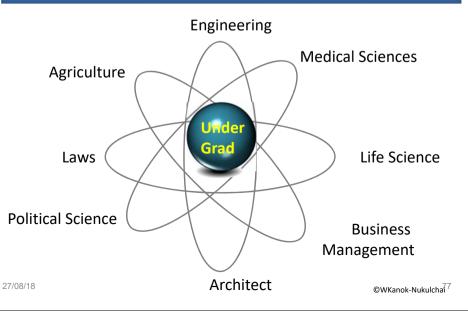
UNIVERSAL BASIC COMPETENCE

YEAR	Semester 1	Summer	Semester 2
Year 4	Pre-Professional	Internship	Pre-Professional
Year 3	S T E M En	Character Qualities	STEML
Year 2	STEMH	Competencies	S T E M SS
Year 1	STEM	Foundational Literacies	STEM

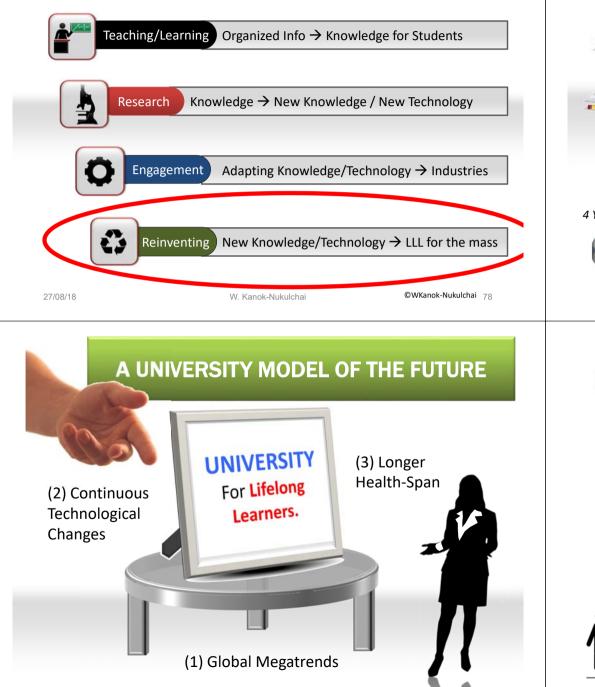
©WKanok-Nukulchai

S = Science, T = Technology, E = Engineering, M = Mathematics H = Humanities, SS = Social Science, En = Entrepreneurship, L = Law⁷⁵

Post-Graduate Professional Degrees LEARN TO BE SPECIALISTS (2 YEARS)



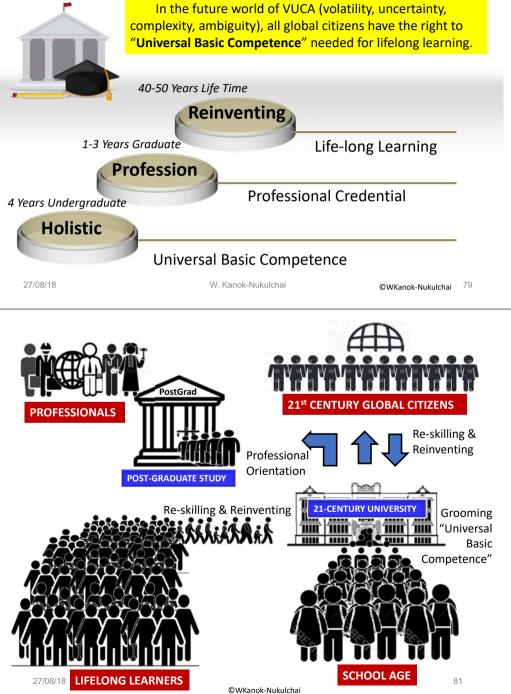
NEW ROLES OF HIGHER EDUCATION



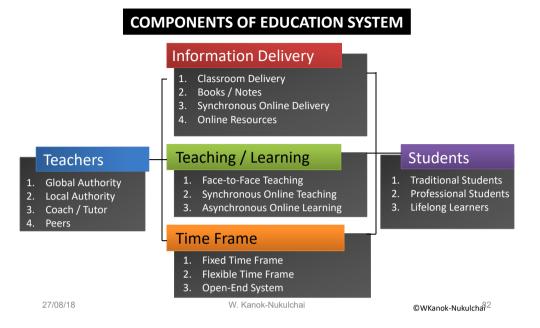
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Student's Lifelong Roles of Future University



Future Model of Higher Education





References



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HOW LONG WILL "THE AIT MODEL" SURVIVE?

