



The ASEAN Committee on Science and Technology *Strategic Direction and Potential Cooperation*

Alexander A. Lim
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Outline of presentation

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2. ASEAN at a glance: 2010 figures
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efforts towards building the ASEAN Community building
4. e-ASIA initiative: some issues to address



A quick look at ASEAN Community building

1. ASEAN Vision 2020

- *Adopted at the 2nd ASEAN Informal Summit on 15 Dec. 1997, KL, Malaysia*
 - ↳ *A Concert of Southeast Asian Nations*
 - ↳ *An Outward-looking ASEAN*
 - ↳ *A Partnership in Dynamic Development*
 - ↳ *A Community of Caring Societies*

"a technologically competitive ASEAN competent in strategic and enabling technologies, with an adequate pool of technologically qualified and trained manpower, and strong networks of scientific and technological institutions and centers of excellence."

2. Cebu Declaration on the ASEAN Charter and ASEAN Community

- *Adopted at the 12th ASEAN Summit on 13 Jan. 2007 in Cebu, PH*
 - ⇒ *Signed the Blueprint of the ASEAN Charter*
 - ⇒ *Agreed to accelerate the establishment of the ASEAN Community from 2020 to 2015*




How do you imagine the ASEAN Community to be like in 2015?


ASEAN: a people-oriented Community



Narrowing the Development GAP (NDG)

 **ASEAN at a glance: 2010 figures**

Country	Land Area (km ²)	Population ('000)	GDP (USD million)	GDP (per capita)	Total Trade (USD million)	FDI (USD million)
Brunei Darussalam	5,765	415	11,952	28,830	11,952	629
Cambodia	181,035	15,269	11,168	731	10,480	783
Indonesia	1,860,360	234,181	708,032	3,023	293,442	13,304
Lao PDR	236,800	6,230	6,508	1,045	6,938	333
Malaysia	330,252	28,909	238,849	8,262	364,531	9,156
Myanmar	676,577	60,163	35,646	592	11,798	-
Philippines	300,000	94,013	189,326	2,014	109,660	1,713
Singapore	710	5,077	223,015	43,929	699,273	35,520
Thailand	513,120	67,312	318,709	4,735	377,719	6,320
Viet Nam	331,051	86,930	107,650	1,238	156,993	8,000
ASEAN	4,435,670	598,498	1,850,855	3,092	2,042,788	75,758

 **The ASEAN Committee on Science and Technology (COST)**

A little bit of history:

1. ASEAN was established on 8 August 1967
2. Ad-hoc Committee on Science and Technology met in Jakarta on 27-29 April 1970
3. The ASEAN Permanent Committee on Science and Technology (PCOST) was established in 1971. PCOST ⇒ COST in 1978
4. First meeting of ASEAN COST on 20-22 June 1978

Mandate:

"ASEAN shall promote active collaboration and mutual assistance on matters of common interest in the economic, social, cultural, technical, scientific and administrative fields and provide assistance to each other in the form of training and research facilities in the educational, professional, technical and administrative spheres"

Vision:

"A technologically competitive ASEAN, competent in strategic and enabling technologies, with an adequate pool of technologically qualified and trained manpower, and strong networks of scientific and technological institutions and centres of excellence".

 **Objectives of COST**

1. to initiate and intensify regional cooperation in scientific and regional activities;
2. to generate and promote development of scientific and technological expertise and manpower in the ASEAN region
3. to facilitate and accelerate the transfer of scientific developments and technologies among ASEAN countries and from the more advanced industrialized countries to the ASEAN region;
4. to provide support and assistance in the application of the results of research and development, and in the more effective use of natural resources in the ASEAN region; and
5. to provide support towards the implementation of present and future ASEAN programmes


 **ASEAN Plan of Action on S&T (APAST)**

Areas of cooperation:

1. Biotechnology
2. Food Science and Technology
3. S&T Infrastructure and Resources Development
4. Meteorology and Geophysics
5. Microelectronics and Informations Technology
6. Marine Science and Technology
7. Materials Science and Technology
8. Non-Conventional Energy Research
9. Space Technology and Applications

Flagship programmes:

1. Early Warning System for Disaster Risk Reduction
2. Development and Applications of Open Source System
3. Functional Foods
4. Biofuels
5. Health
6. Climate Change



Early Warning System for Disaster Risk Reduction


Vision:
By 2015, there shall be for all ASEAN Member States, an established and operational national monitoring system for earthquake, tsunami, tropical cyclone, forest fire haze and flood, that is interoperable and linked regionally for early warning.

Goal:
To enhance the role of science and technology in establishing interoperable and operational national early warning systems for earthquake, tsunami, tropical cyclone, forest fire haze, drought and flood.

Objective:
To provide regional early warning for large-scale hazards to create effective response action.

Expected Outputs:

- Improved early warning system in national and regional level;
- Established link of existing national system (inter-country and to a regional/ASEAN Centre);
- Database of hazards assessments, hazards events, and modeled hazards.



Development & Applications of Open Source System

Vision:
By 2015, Open Source System will become a viable software option/platform in ASEAN governments, industries, and the research, academic, and end-user communities.

Strategic Objectives:

- To create greater general awareness and adoption of legal and affordable OSS-based products and services, and open standards;
- To increase the capability of the region in developing OSS and in supporting OSS efforts;
- To increase cooperation and collaboration in information technology development research especially in the field of open source-based software development that is related to R&D areas of specific interest to each country;
- To foster technological innovation and entrepreneurship in the local/regional open source software industry;
- To promote e-governance and a knowledge-based society; and
- To improve and accelerate access to and sharing of information among ASEAN countries.

Expected Outputs:

- Roadmap on usage and utilisation of OSS in ASEAN region;
- Joint commitment on utilisation and development of OSS activities;
- ASEAN OSS Portal for information exchange of OSS activities between countries;
- A guideline for software migration, standard for document exchange;
- Socialisation activities of OSS application;
- Joint OSS Research;
- Facilities to bridge between OSS developers and OSS local industries in ASEAN region.



Functional Food

Vision:
To drive for the creation of functional food industry in ASEAN by 2013.


Goal:
To improve/elevate the S&T status of functional food and develop Intellectual Property Right / patent for one or more functional food products in ASEAN

Strategic Objectives:

- To develop 7 core technologies for Functional Food Research and Development;
- To build networking with Stakeholders including Dialogue Partners;
- To create web-based database development for antioxidant activity;
- To have knowledge-sharing/dissemination and hands-on practical training for scientists in the research networks.

Expected Outputs:

- Anti-oxidant product;
- Collaborative work with the industry;
- Database of anti-oxidants;
- Centre of Excellence; and
- ASEAN Research Network on Functional Food.



Biofuels

Vision:
By 2015, ASEAN will significantly use biofuel to reduce dependence on fossil fuel.

Strategic Objectives:

- Regional Policy on Biofuel in ASEAN;
- ASEAN Harmonised Standards on Biofuel;
- Harmonisation of Life Cycle Assessment (LCA) on Biofuel among ASEAN Member States;
- Enhance the S&T collaboration on biofuel.

Success Indicator:
At least five percent of ASEAN regional market share of biofuel by 2015

Expected Outputs:

- Policy recommendation on incentives;
- Land use policy recommendation on biofuel;
- Proposed ASEAN Harmonised Standard ;
- Proposed Common LCA Methodology;
- Trained personnel/expert pool;
- Biofuel cost effective production technologies;
- Design options for pilot plants;
- Proposed draft agreement of sharing of research facilities, laboratories & engineering designs;
- Established ASEAN Biofuel Networks

Health

Vision:
To build on the current knowledge to coordinate and galvanise S&T activities to provide scientific solutions to manage a group of infectious diseases that are of concern to the ASEAN region.

Goal:
Develop measures to help contain the spread of Infectious Disease (ID): Dengue, Malaria and Tuberculosis.

Expected Outputs:

- Web-based of database of Infectious Diseases (ID) research experts;
- Web-based of database of ID completed & ongoing R&D projects and programmes;
- List of R&D needs and priority of ASEAN countries in ID including in capacity building activities.

Climate Change

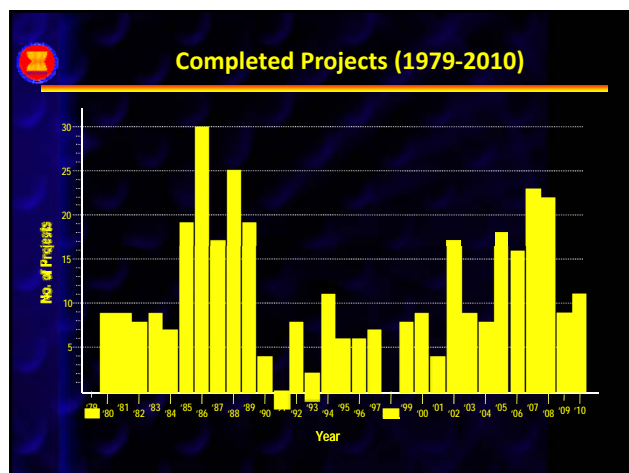
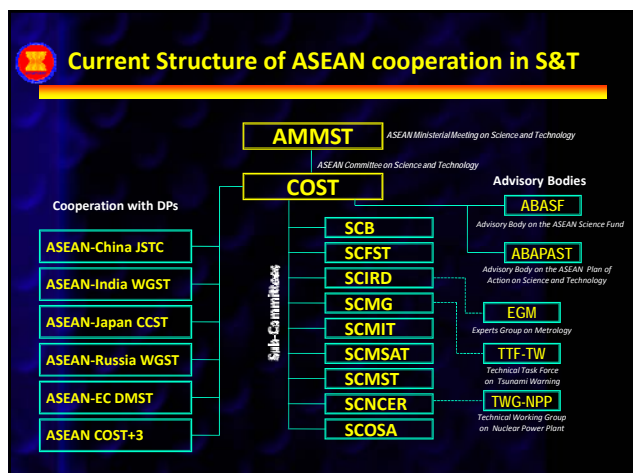
Vision:
Working towards a Climate Change resilient ASEAN Region by 2015 through S&T intervention.

Objectives:

- To institutionalise climate change regional S&T network;
- To enhance regional cooperation, development of mitigation systems and technologies;
- To harmonise regional S&T based climate change adaptation strategies;
- To enhance regional capacities in developing projection scenarios and vulnerability assessment;
- To increase public awareness at the regional level on the impacts of climate change; and
- To identify and support common ASEAN position in climate change negotiations in the area of technical assistance, capacity building and financing.

Expected Outputs:

- Regional S&T-based appropriate mitigation actions taking into consideration respective sustainable development of ASEAN member states ;
- S&T-based regional climate change adaptation actions;
- Strategy to expand and enhance Regional Climate Change observation network and data base; and
- An enhanced position for effective execution of mitigation and adaptation actions and climate change negotiations.



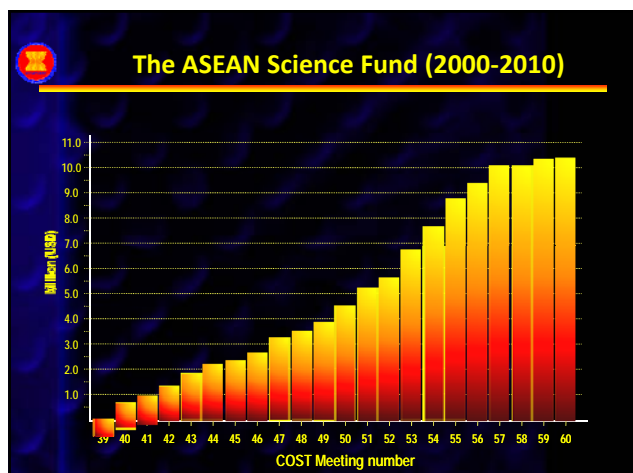
Achievements and Milestones

1. The Protein Project
2. Publication of Regional Climatic Atlas and Climatic Statistics
3. Management and Utilisation of Food Waste
4. Publication of the ASEAN Journal of S&T for Development (AJSTD)
5. ASEAN Science and Technology Week (ASTW)
6. ASEAN Food Conference (AFC)
7. ASEAN Earthquake Information Centre (AEIC)
8. ASEAN Specialised Meteorological Centre (ASMC)
9. Energy co-generation Project
10. Formalisation of S&T cooperation with Dialogue Partners
11. ASEAN S&T Network (ASTNET)
12. ASEAN Plans of Action
13. Publication of ASEAN from Space
14. Establishment of the ASEAN Science Fund (ASF)

Funding Modality

1. **Dialogue Partners Support**

a. Australia	f. Japan	k. Pakistan
b. Canada	g. New Zealand	
c. China	h. Republic of Korea	
d. European Union	i. Russian Federation	
e. India	j. United States	
2. **ASEAN-help-ASEAN Scheme**
3. **ASEAN Science Fund**

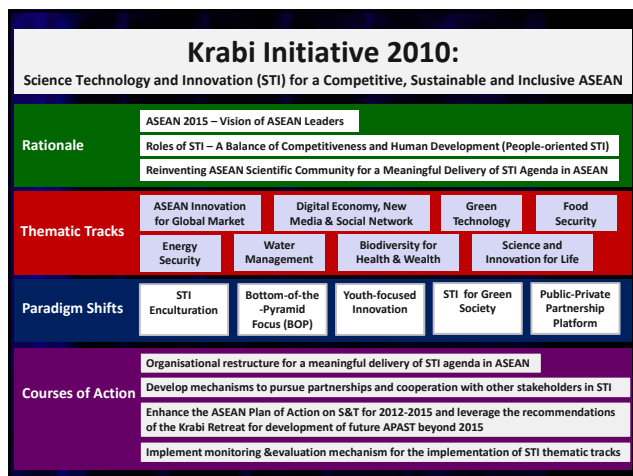


Recent COST Decisions

1. Extension of the ASEAN Plan of Action on S&T (APAST 2007-2011)
2. Establishment of the Experts Group on Metrology
3. Adoption of the Krabi Initiative in December 2010

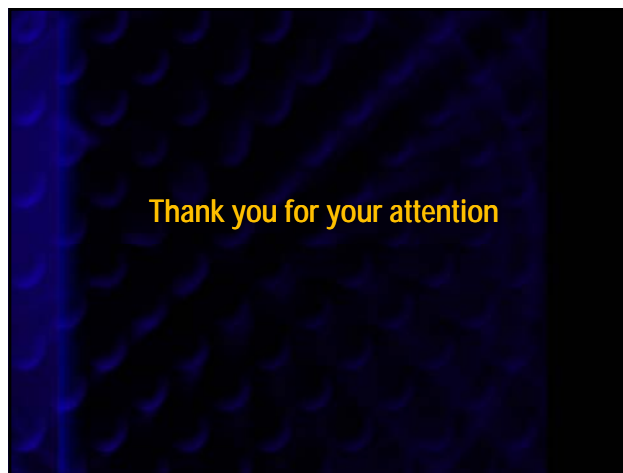
Krabi Initiative:

1. **Theme:**
Science Technology and Innovation (STI) for a Competitive, Sustainable and Inclusive ASEAN
2. Focus no longer limited to S&T. Equal importance is placed on innovation
3. Eight thematic tracks to pursue
4. Paradigm shift
5. Courses of action to take



e-ASIA initiative: possible issues to address

1. Ensuring synergy with existing initiatives
2. Facilitating effective coordination mechanisms
3. Commitment on implementation & resource mobilisation
4. Adopting a programme-based approach towards development cooperation
5. Establishing and implementing appropriate M&E system
6. Promoting ownership of e-ASIA by relevant stakeholders



Acronyms:

ABAPAST: Advisory Body on the ASEAN Plan of Action on Science and Technology
ABASF: Advisory Body of the ASEAN Science Fund
AMMST: ASEAN Ministerial Meeting on Science & Technology
ASEAN-China JSTC: Joint Science and Technology Committee
ASEAN-Japan CCST: Cooperation Committee on Science and Technology
ASEAN-India WGST: Working Group on Science and Technology
ASEAN-Russia WGST: Working Group on Science and Technology
ASEAN-EC DMST: Dialogue Meeting on Science and Technology
ASEAN COST+3: Committee on Science and Technology Plus Three (China, Japan and ROK)
COST: Committee on Science and Technology
EGM: Experts Group on Metrology
SCB: Sub-Committee on Biotechnology
SCFST: Sub-Committee on Food Science and Technology
SCIRD: Sub-Committee on S&T Infrastructure and Resources Development
SCMG: Sub-Committee on Meteorology and Geophysics
SCMIT: Sub-Committee on Microelectronics and Information Technology
SCMSAT: Sub-Committee on Marine Science and Technology
SCMST: Sub-Committee on Materials Science and Technology
SCNCER: Sub-Committee on Non-Conventional Energy Research
SCOSA: Sub-Committee on Space Technology and Applications
TTF-TW: Technical Task Force on Tsunami Warning
TWG-NPP: Technical Working Group on Nuclear Power Plant