



**INVENTION – RESEARCH –
INNOVATION RELATIONSHIP
THE TOOL FOR DEVELOPING
COUNTRIES.**

BY

**MR. CHOBVIT LUBPAIREE.
DEPUTY SECRETARY – GENERAL.
NATIONAL RESEARCH COUNCIL OF
THAILAND (NRCT).**



**NATIONAL RESEARCH
COUNCIL
OF THAILAND
(NRCT.)
1959**

Main Function :

1. Recommend appropriate research policies and research promotion programs to the Cabinet.

2. Promote and encourage research conducted by the public and private sectors.

1959 – 1993 Research

Activities :

- **Basic Science Research.**

- **Research & Development.**

- **Applied Science Research.**



คลัง

อาหาร

ความอุดมสมบูรณ์ของดินแดนอัน
“ทุนเดิม” ที่สละคืนสู่โลกและเป็นอู่และ “คลังอาหาร”
สำคัญของพสกนิกรไทย

"ข้าวหอมมะลิ"

ข้าวเจ้าของไทย ได้รับคำชื่นชมว่าเป็น
"ข้าวที่อร่อยที่สุดในโลก"

ปริมาณการส่งออกข้าวไทย

ปีละกว่า 5 ล้านตัน

เกือบครึ่งหนึ่งเป็นข้าวหอมมะลิและ

ส่งไปจำหน่ายในประเทศจีน

มากที่สุด









ข้าวกระป๋อง

เดินทางสู่ตลาดโลก
พร้อมความภูมิใจของคนไทย



**INVENTION – RESEARCH –
INNOVATION RELATIONSHIP**

Mean

Economy

I–R–I Relationship in Thailand : the Tool for Developing Countries.

**Mr. Chobvit Lubpairee,
Deputy Secretary – General,
National Research Council of Thailand (NRCT).**

Abstract

The world knows the importances of local wisdom in creating the inventions and products for a long time. The world knows the importances of research in creating the new knowledge for a long time. In the past decades, the world learns to know the importances of innovation in creating the new ideas, services and products to modernize the world societies. These 3 functions are really important if we can build up its relationship.

In the early year of the globalization, year 2000, Thailand had the economic crisis which known as “The Tom Yam Kung Crisis”. It was the hard time for Thailand to manage our crisis at that time. However, the government has much attention on invention (I), research (R), and innovation (I) relationship; therefore, a few years later, we could solve our problem.

Today, when you visit Thailand you will see a lot of Thailand’s “OTOP” products (OTOPT came from One Tambon (the local word of village in Thai) One Product) which is the local products from the wisdom of local communities around Thailand under the grass root wisdom stimulation program of the government under the prime minister Dr. Taksin Chinnawat. The idea is to stimulate Thai people to create the products and inventions from their wisdom. Later, these inventions will be studied, researched and supported by the new techniques from the government research agencies. In the future, these processes will create the innovation to modernize these local products to the international needs.

NRCT, (The National Research Council of Thailand) which is the government research policy agency, will take part in this program to build up the network of invention, research, and innovation relationship in supporting Thailand social and economic development. This process in Thailand will be a good sample for the developing countries around the world.

Background of The NRCT.

In 1953, the Royal Thai government established the National Research Council of Thailand (NRCT) for functioning and introducing the new model and concept in developing the country to the government. At the same time, the government want NRCT to be the center of Thai guru in various fields of science both natural and social sciences for advising the government on the new model or concept of research system that is suitable for the country development. Later, from the concept advised to the government, in 1961, the 1st National Economic and Development Plan was created and used as the guideline in developing the

country up to now, which is now in the 9th National Economic and Development Plan (2002 – 2006).

For NRCT function, top period of the professors from the universities and experts from various government agencies and private sectors were appointed in research committees on various fields of science for brain storming, creating the concept and stimulating the research system function in Thailand. Thailand, however, is the one that was classified in the group of developing countries, which has the low GDP. Therefore, it is necessary for Thailand to search for the potentiality and possibility that can bring out our people abilities in developing the nation in the short period. The problem that is found at the beginning state is when the researchers conduct their researches, they need the time to do researches. Also, the result from researches is difficult to show the people who are not involved in the research fields to clearly understand its benefits. However, Thai society is delighted for the advance of technology that is conducted by Thai researchers.

Invention Activity in Thailand.

The response from Thai society is an excellent support to NRCT. We tried very hard to find the model to stimulate the society to show concepts and ideas. Until the year of 1995, NRCT set and submitted the Invention Competition Program to the NRCT executive board and it was accepted. The idea of this program is to stimulate the people, not only researchers or scientists to show their blue print concept and idea that is in their mind, but also to show their work to the public, to set up an experience expert committee to select the best one of the year, to announce and to present an award. The response to this program from the society is quite high. From the first year of this program up to nowadays, there are many thousands invention projects submitted to the NRCT for the challenge of NRCT invention award. Within them, there are more than 100 invention projects that got the award from NRCT. Up to today, many invention projects were served as new products and process for using in people life for the society convenience and economics in various fields from the hospital down to the market.

One of the clear sample is the time that Thailand is effected by the economic crisis in year 2000, the early stage of globalization period as known in general as “Tom Yum Kung(the well Known Thai food) Crisis”. This crisis is very much effected Thai economy; the international experts expected Thailand to spend at least one decade to solve this problem. However, the government considered this problem on the same basics as NRCT had done on the invention promotion program in 1995 that is the self ability of Thai people. This concept was taken to stimulate the people to produce and improve their local products, which are a lot around Thailand by their own ideas with the support in technology from the researchers. Nowadays, a lot of quality local products are in the market both local and international market. Local people lives have been becoming better than the past. The economic crisis has been solved and improved faster than expect.

The Research System in Thailand.

From the said success story of the stimulating the invention in Thailand, nowadays, the research system in Thailand is stronger than the past. The researchers and their projects are recognized by Thai society. The new research projects show the response to lead the society in both fields, natural and social sciences. The successful of research in Thailand as mentioned, NRCT studies carefully particularly from some of the success story from developing countries and we conclude that if there is the function to merge the invention and the research together, then let them support each other. This process might create the excellent result. From this concept, in year 2001, NRCT applied to a research program of Her Majesty the Queen's Project, the crystal development project, the idea is to create the model in Thai art, training the people, support the researchers to conduct researches for better quality of crystal by expecting to produce our own crystal glass by Thai people in the future. NRCT hopes that the result from this program may show us some of the new idea to promote researches in Thailand in the future.

The Innovation in Thailand.

Since the border of technology development never ends, in the period of globalization, the innovations were developed to be the new successful technology to serve the world society. Thailand, which has accomplished with the invention and the research at very interest level, is also studying hard to forward the step to this process. We believe that this process will not only be valuable to the nation society but it will also to the world society for more convenience, better economics and better life.

At present, year 2004, since the world changes a lot in the period of globalization, the technology has moved so fast, Thailand has to reorganize its organization system. A lot of new organizations that will response to this change had been set up. One of them is the National Innovation Agency, which will consider and combine all the concepts of inventions, researches and development program, innovation in Thailand and select the possibility program to develop the new innovation concept by targeting them to the country economic development. The sample of this is I-R-I relationship model as such rubber development program.

The model of the I-R-I relationship in Thailand that I present here will be a good sample for the developing countries to consider and adjust it to the suitable condition of each country. The benefit from this program, if succeeded, will bring about the better economics to the country, also the economics and better life of people. Lastly, I hope for the permanent peace in our world forever.