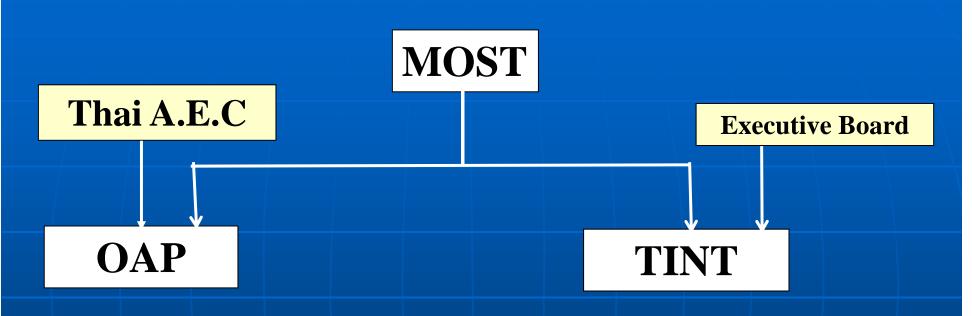


Dr. Somporn Chongkum, Executive Director
www.tint.or.th

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- 1. Organization Structure
- 2. Linkage
- 3. Nuclear Application Statistics
   Medicine/Agriculture/Industry
- 4. Human Resource Development

## **Organization Structure**



- Thai Atomic Energy Commission (Thai A.E.C)
- Ministry of Science and Technology (MOST)
- Office of Atoms for Peace (OAP)
- Thailand Institute of Nuclear Technology (TINT)

## Office of Atoms for Peace (OAP)

Office of the Secretary

**Bureau of Radiation Safety Regulation** 

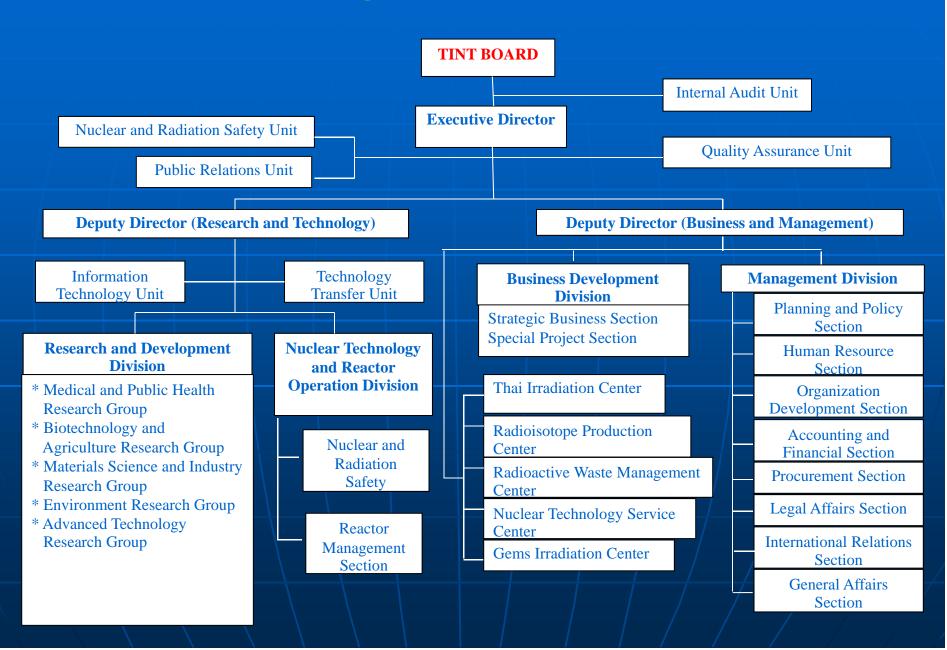
**Bureau of Nuclear Safety Regulation** 

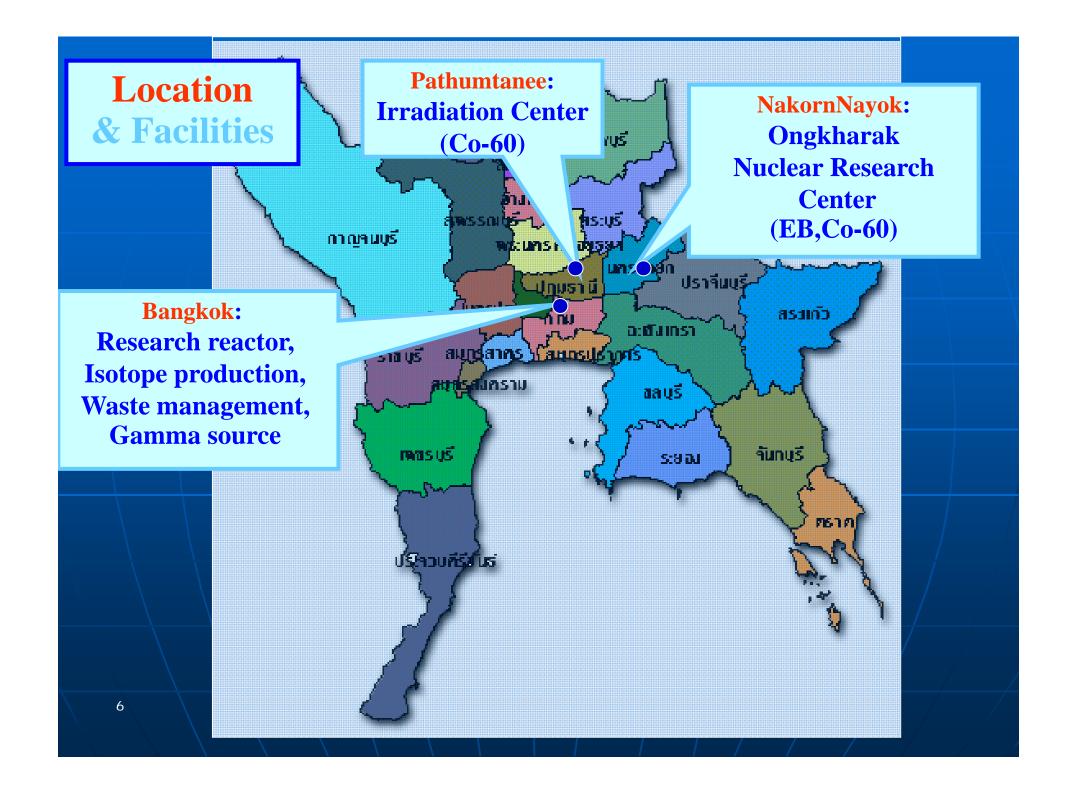
Bureau of Atomic Energy Administration and Management

Bureau of Technical Support for Safety

Control

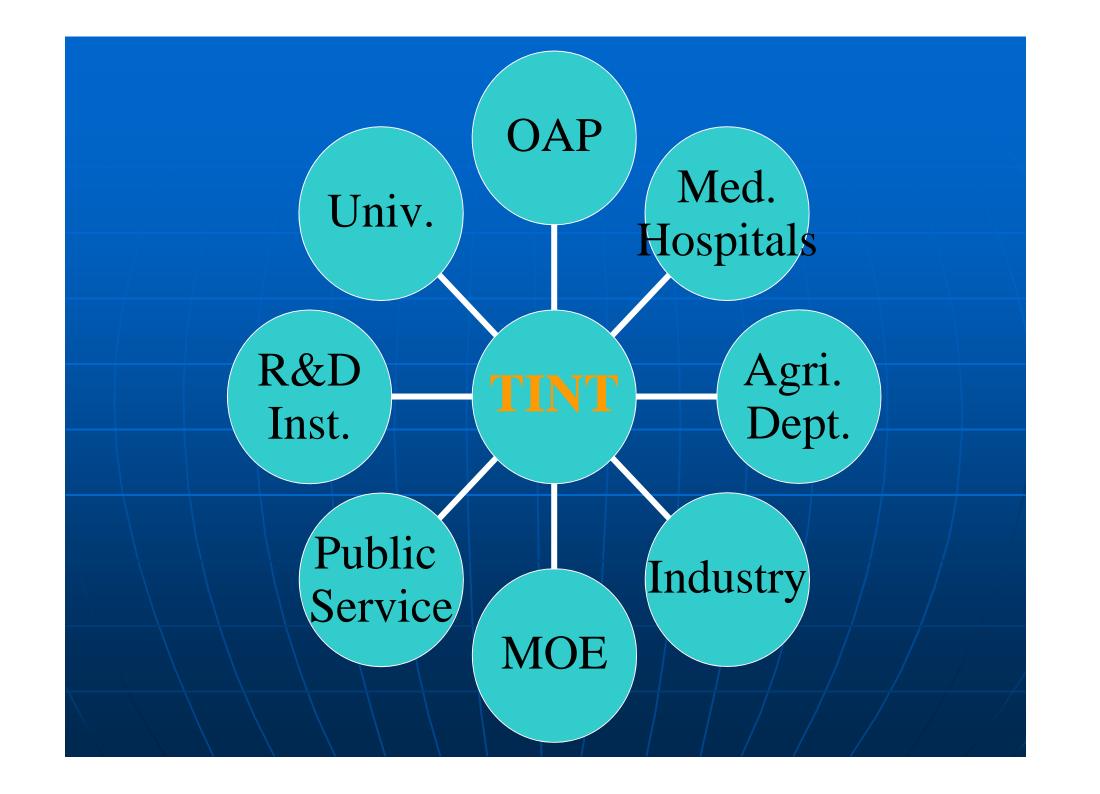
## **TINT Organization Structure**





### **TINT: Vision**

To be a center of excellence in research and development, as well as applications of nuclear technology for sustainable development of Thailand



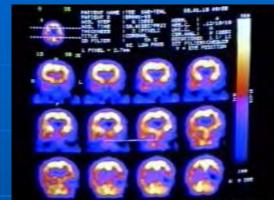
## Nuclear Application Statistics

<ul><li>Medicine</li></ul>	/ Hospital	110	units
	/ 1108pmai	110	umits

- Industry350 units
- R & D / Universities 251 units
- Building (Smoke Det, Lightning Rod) 250 units
- Radioisotopes25,000 items
- X-Ray Machines2,000 units
- Electron Accelerators15 units
- Cyclotrons (18 MeV) 2 units
- Synchrotron (1 GeV) 1 unit
- Research Reactor (2 MW)1 unit

#### Nuclear R & D

- 1. Medical and public health
- 2. Advanced Technology
- 3. Material science and industry



- 4. Natural resources and environments
- 5. Biotechnology and agricultures







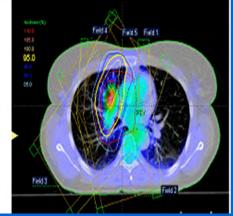
## Radioisotope

- Radiopharmaceuticals
- Radionuclide imaging
- PET Positron Emission Tomography
- SPECT Single Photon Emission
- Computed Tomography
- Tc99m
- I131
- · Sm153









· P32

## **Use of Radiation for Crop Improvement**



- Watermelon



# **Use of Gamma Radiation to Eliminate Insect Pests And Pathogenic Microbes in Agricultural Products**



Use of radiation to control the population of insect pests





#### Thai Irradiation Center



Mango, Pineapple, Mangosteen, Rambutan, Longan, Lychees

## Radioisotope in Industry

Non-Destructive Testing (NDT)

to analyze irregularity in distillation

columns of oil refinery

- Radiotracer
- Export Product
- Survey Meter









## **Gemstones Irradiation Center**



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## Waste Management

- Radiation Safety System Monitoring Project
- Radiation Safety Analysis
- Personal Radiation Uptake Evaluation and Monitoring
- Radioactive Waste Management Program
- Radiation Safety Regulation





## **Human Resource Development**

- Seminar / Workshop / Training / Education
- Research Reactor
- Nuclear Safety and Security
- Radiation Protection
- Nuclear Applications (Medical, Agriculture, Industry, Environment)
- **Emergency Preparedness**







## Thank you

