

Achievements and Impact of the TCP in Indonesia



**Minister of Research, Technology and Higher Education
Republic Indonesia**





Mutation Breeding Technique Application

10% of national food superior varieties are produced from mutation breeding technique research



In 2016, farmers in 22 provinces have utilized the food crop varieties with a total cultivation area of **3 million hectares**



Providing new superior seeds with almost 100% of yield increase, empowering farmers for brighter future





Developing Soybean-based Food Industry

To accelerate sovereignty in high quality and quantity of local soybeans, empowering farmers to have a better quality of life and empowering small and medium food enterprises in producing highly nutritious food products for the people

New TC Project on the business process for soybeans, building a bridge between the farming community and the food industry as well as creating partnerships with the other United Nations agencies FAO and UNIDO.



HEALTH APPLICATIONS

The TC Program in health field covers several topic:

- Radiopharmaceuticals & Radioisotopes Production
- Renograph Instrument Development
- Addressing Malnutrition
- Sterile Insect Technique Applications



ALLEVIATING MALNUTRITION UTILIZING NUCLEAR ANALYSIS TECHNIQUE

The TC Program in the health field has contributed to Indonesia effort in reducing the percentage of malnourished infant from 4.7% (2014) to 3.4% (2016)



COMBATING AIR POLLUTION UTILIZING NUCLEAR ANALYSIS TECHNIQUE (NAT)

- NAT is utilized to investigate air pollutants in 15 of the 34 provinces in Indonesia
- Providing data needed by the Ministry for Environment and Forestry to issue new standards for air quality



CORAL REEF RESEARCH FOR CLIMATE CHANGE MITIGATION

TC Programme implementation in coral reefs research has enabled Indonesia in contributing with climate change historical data record along the Indonesian through flow



Regional Capacity Building in Non Destructive Investigation

Utilization of IAEA Collaborating Centre for
Non-Destructive Investigation at the National
Nuclear Energy Agency of Indonesia (BATAN) to
assist the Agency and cater to regional needs



IAEA
International Atomic Energy Agency

NATIONAL NUCLEAR ENERGY AGENCY
OF INDONESIA (BATAN)

IAEA Collaborating Centre

for
Research and Development and Capacity Building in
Nondestructive Diagnostics, Testing and Inspection
Technologies

2015–2018



Compendium for Nuclear Science and Technology for Secondary Schools

Indonesia is honoured to be one of the pilot countries to implement the project and plans to motivate future generation in joining STEM studies and career path, involving more than 2,000 students & teachers as beneficiaries.



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