SESSION 3: NUCLEAR SCIENCE AND TECHNOLOGY APPLICATIONS: SUSTAINING, ENABLING AND EMPOWERING

PANEL 3.2: Sustaining nuclear technology through capacity building



Djarot Sulistio WISNUBROTO Indonesia

Chairman, National Nuclear Energy Agency of Indonesia (BATAN)

Djarot Sulisto Wisnubroto is Chairman of the National Nuclear Energy Agency of Indonesia (BATAN), the Indonesian government's research and development agency for nuclear technology

STRATEGY OF UTILIZING NUCLEAR TECHNOLOGY FOR PEOPLE'S WELFARE – INDONESIA'S EXPERIENCE

Djarot S. Wisnubroto National Nuclear Energy Agency of Indonesia

The challenges

- 1. Nuclear ????
- 2. Only a small number stakeholders have activities related with nuclear technology
- 3. Sectoral-ego
- Some private sectors reluctant to invest in high-cost technology

So, what should we do?

AGRICULTURE

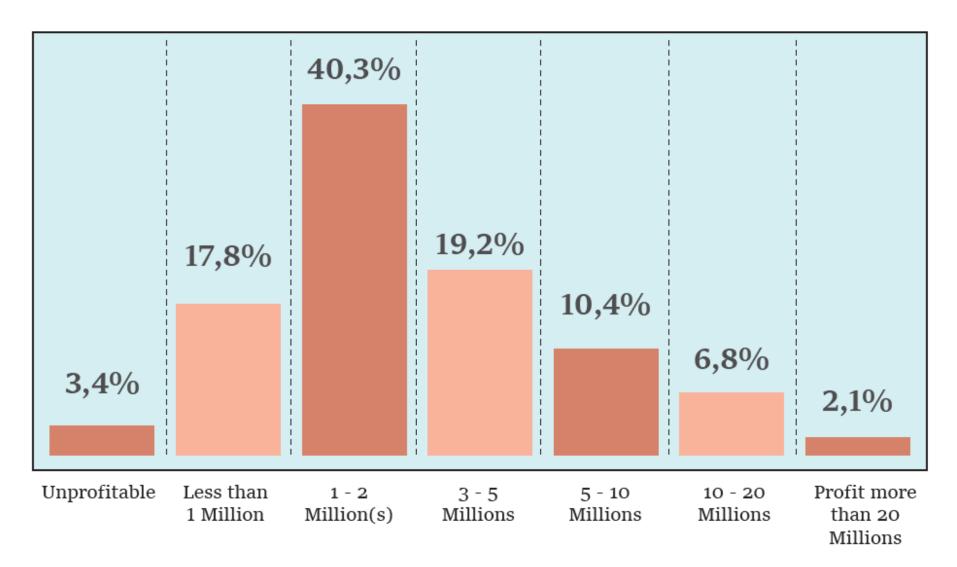
Strategy 1: Promotion using incentive (PHLIN)

- 1. Started since 1999
- 2. Dissemination of rice and soybeans varieties from BATAN's R&D
- 3. Involving 19-24 regions
- Each region receives incentive of 75 million rupiah/year from BATAN
- 5. Total area ~50,000 Ha/year

B RUKUN SANTOSO B MANGARAN B AJUNG B JEMBER

Does the farmer's income increases? Survey conducted in 2016





Obtained benefits measured in Indonesian Rupiahs (IDR)

Strategy 2: Science Techno Park (STP)

1. Since 2015 BATAN, in cooperation with 3 regions, has STP program:

- A national STP in Jakarta
- 3 Agro Techno Park (ATP) in Sumatera, Sulawesi, and Java
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- 2. The goal in 2019: The establishment several start-up companies that are not subsidized by the Government
- 3. At present, 11 start-up companies in 3 ATP have been formed



Strategy 3: commercial contract with private sector

PENANDATANGAN



- Commercial contract with the private sector for a certain of rice variety (tropiko) (2017)
 By this contract, this private sector has a monopoly right for 5 years to distribute tropiko
 It is expected to have a far greater impact* than previous strategies.
- 4. *This private sector has 440 branches throughout Indonesia



The New Indonesian Gamma Irradiator



For food preservation and sterilization of medical tools
84% Made in Indonesia (inaugurated at 15 November 2017)

06/03/2017

Strategy: Public Private Partnership (PPP)



>BATAN is non commercial organization.

Government-funded nuclear facilities must be able to provide immediate benefits.

➤The government policy: commercialization option through PPP → Private sector can utilize the BATAN's gamma irradiator outside working hours

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Closing

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Induced by Pusat Radioisoto adan Tenaga Nuklir Nasional. or PT. Kimia Farma, Jakarta These strategies may be used also for the health products (radiopharmaceuticals), industry (non destructive tests), or even the utilization of the research reactors.

"Problems are not stop signs, they are guidelines."

Thank You