

A Lasting Impact of Nuclear Science & Technology in Indonesia

Djarot S. Wisnubroto

National Nuclear Energy Agency of Indonesia - BATAN

28-29 September 2016

2016 IAEA Scientific Forum

**Nuclear Technology for
the Sustainable Development Goals**



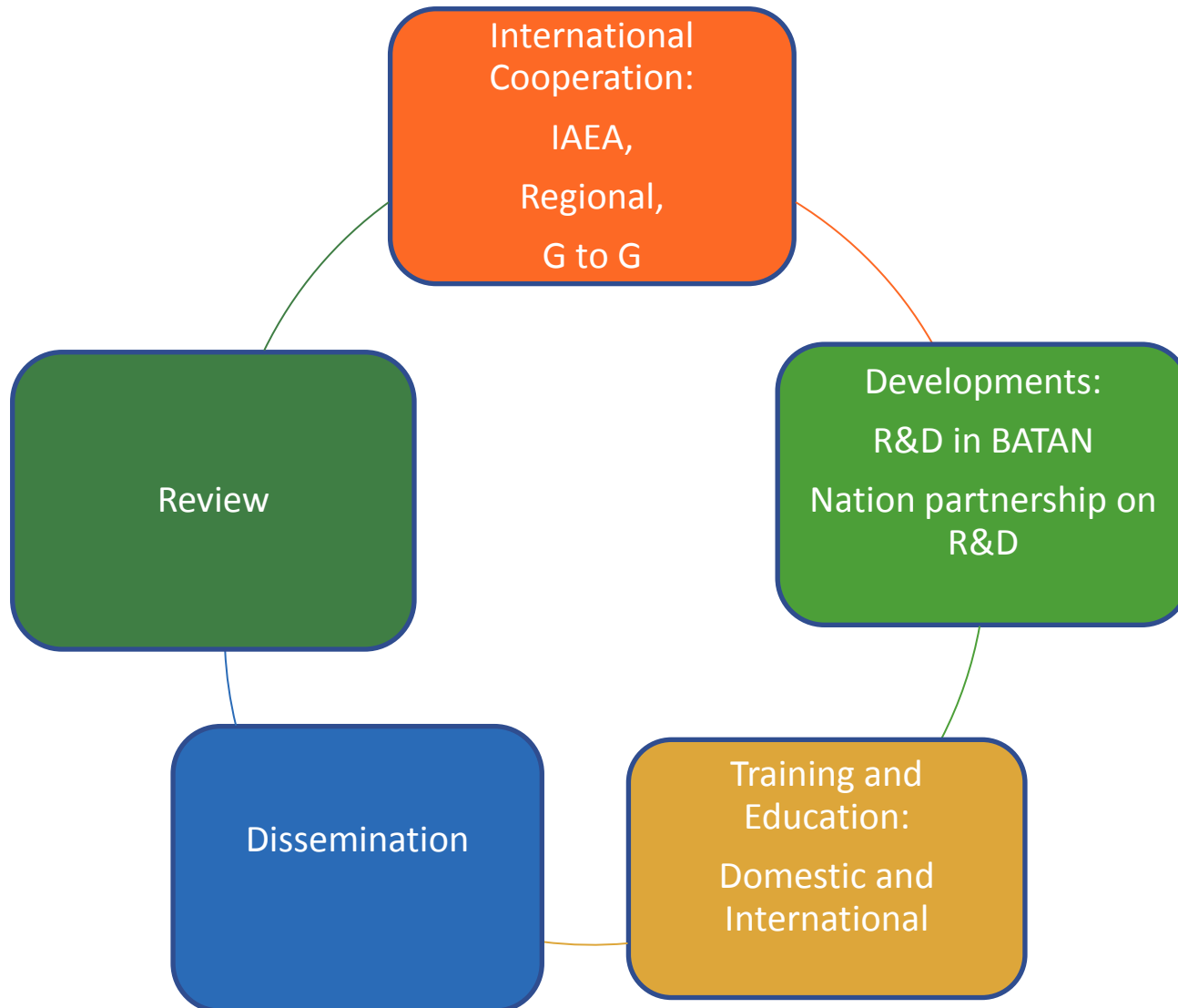
Indonesia-IAEA Cooperation



Mutation techniques to improve rice varieties



Cycle of Cooperation



Education and Training



IAEA's Fellow from **Burkina Faso** Training at PAIR for 2 Months



1 fellow from Burkina Faso for 2 months

AGRICULTURAL APPLICATION

With mutation technique, Indonesia has successfully improved local rice varieties toward positive attributes such as higher yield, earlier in maturity, more insect and disease resistance, and with better quality than the original parents.

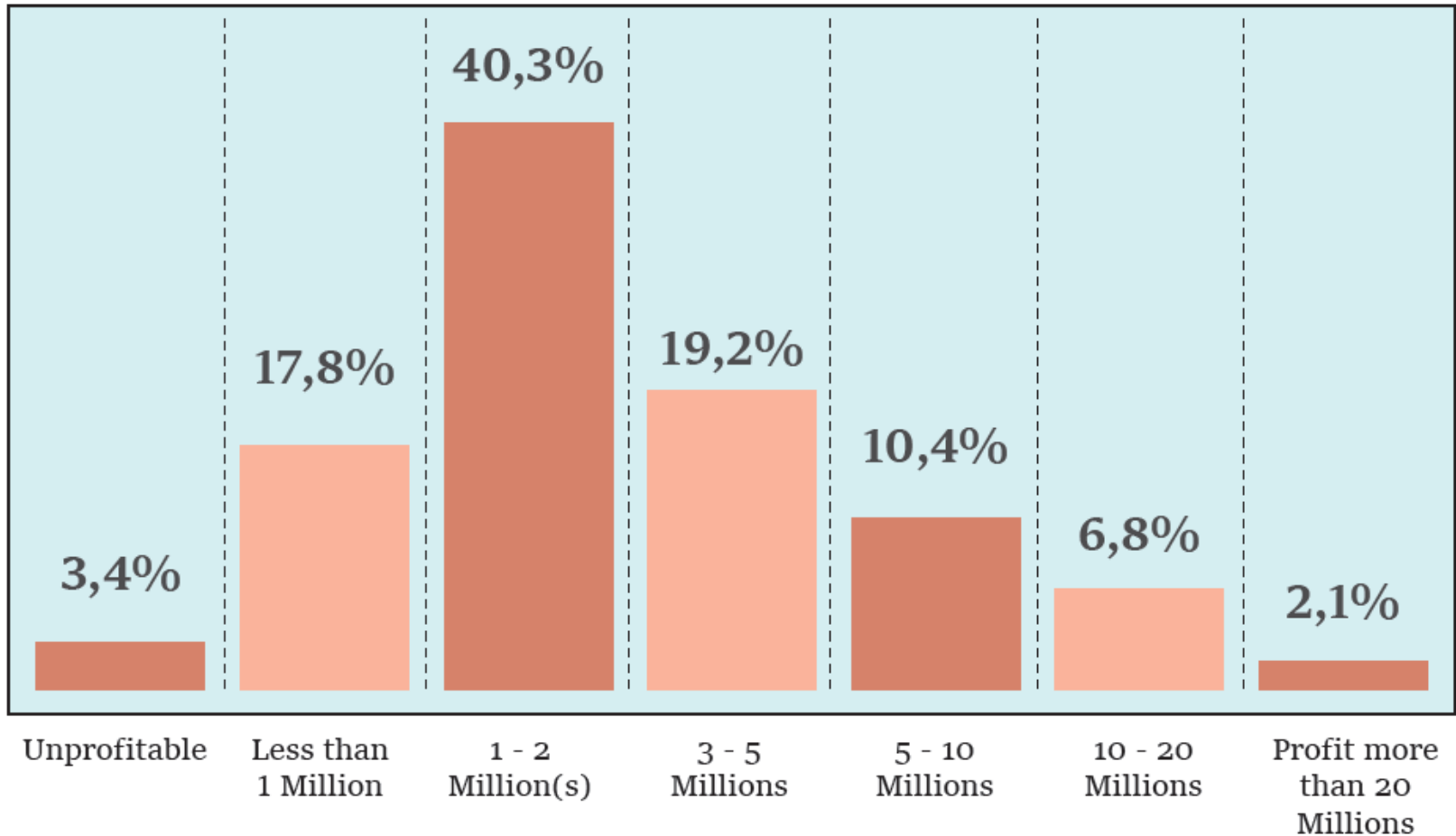


DISSEMINATION IN AGRICULTURE



- **21 rice mutant varieties** have been grown widely by **farmers & rice growers** in almost all provinces in Indonesia
- In 2015-2016, the dissemination of mutant rice varieties has achieved **> 92,000 Ha** and it has increased the **income of farmers \pm 30%**.

Increasing Farmers Income (Survey among the farmers in Indonesia)



Obtained benefits measured in Indonesian Rupiahs (IDR)

Thank you!

2016 IAEA Scientific Forum
**Nuclear Technology for
the Sustainable Development Goals**

