

Young Economist Dias Satria: Indonesia Needs Research that Innovates Business

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Dias Satria P.hD

Brawijaya University's Young Economist Dias Satria, P.hD mentioned the importance of applicative research or appropriate with the needs of the nation and the government. Business innovation, according to him, needs to be developed through R&D (Research and Development) basis. Therefore, the alumni of University of Adelaide Australia emphasized the importance of scientists and researchers to know market.

Dias delivered this in an event called "International Seminar and Expo for Young Researchers and Businessmen" held in Widyaloka Building on Thursday (01/Jul/2017).

Furthermore, he also explained that business innovation has two components including innovation and business. Innovation, he said, at least contains of two things namely new and valuable. Meanwhile business, also at least contains two things including valuable and marketable.

Understanding on business innovation for scientists and researchers, according to him, is very necessary. Moreover, recently Indonesia is in storm vortex at which he termed as "we are in the perfect storm". Indonesia's debt that is more than 2,000 trillion rupiahs and world economic slowdown are several indications on it. This compounded by the strength of Indonesian exports which still in raw materials like oil palm, coal and gas.

Creative economy development, according to Dias, is very urgent to do to overcome the current condition of Indonesia. Creative economy is an achievement after going through three stages on economic initiated with agricultural based economy, pursued with manufacturing based economy and then knowledge-based economy. Afterwards, Dias exemplified India which recently aggressively promoting knowledge-based economy, particularly in information technology area. Another example is Switzerland commonly known as the best chocolate producer worldwide although this country does not grow cocoa. Switzerland also occupies the top position as the most competitive country worldwide, followed by Singapore, while Indonesia is in 41st order.

In his exposure, Dias presented innovation on local economy development in Banyuwangi. He mentioned that 2010 is the culmination of change in the city through many innovations to do. Prior to 2010, the poverty rate in the origin region of Osing Tribe reached 20% and then declined in merely 9%. If previously Banyuwangi commonly known as Voodoo City in a predicate of the dirtiest place in East Java, then it becomes a tourism city with achievement as Adipura City.

The next speaker, Bram Dortmans PhD from SADEC (Swiss Agency for Development and Cooperation) presented his research organic waste management using BSF (Black Soldier Fly). The organic waste management under FORWARD research scheme funded by EAWAG (Swiss Federal Institute of Aquatic Science and Technology) and execute in Puspa Agro market in Sidoarjo. Using bioconversion technology in which according to him is market-driven, the organic waste processing conducted by BSF larvae. The processing needs 14 days, shorter than using worm that take three months.

Organic waste produced by Puspa Agro market Sidoarjo will be chopped in small sizes and then put into boxes that arranged in such a way. Around 15,000 larvae will be put into the boxes. "The added mass of the larvae is an indication of the process," said Bram. Larvae is then will be harvested and become fish or poultry feed.

Larvae produced by BSF (*Hermetia Illucens*) commonly known as greedy flies and so speed up waste processing. The flies do not contain diseases and not an intermediary of diseases. Once ready to harvest, larvae also will be cultivated into flies for then mated and spawn. After laying eggs, flies are dead.

Organic waste processing, according to Bram, already finished 60% problems on waste. Java island which known as an island with the highest density rate worldwide, reach 1,000 inhabitants/km², hoarding waste issues which also increase. During the time, organic waste is handled through many processes with various products. Such as decomposition with compost as product, pyrolysis with biochar as product, anaerobic processing with biogas as product and bioconversion process with vermiculture/BSF larvae as product.

Delivered by Head of Organizing Committee, Dr. Ir. Eko Widodo, M.Agr.Sc., M.Sc, the international seminar followed by 116 papers from bachelor students in majority. They joined in presentation or poster session divided into several panels including agriculture, medicine, social sciences, applied technology and community empowerment. Result of the seminar, according to Eko Widodo who also a lecturer at Faculty of Animal Husbandry of Brawijaya University will be included in a proceeding.

Meanwhile, around 84 research titles that also from bachelor students joined in an expo held in the outside of Widyaloka building. [Denok/Humas UB/trans. Denok]

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