

Kajian evaluasi pelepasan secara komersial kapas transgenik Bt Cotton di Sulawesi Selatan (komersialisasi produk bioteknologi)

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Abstrak

Evaluation Study of Releasing Commercialization of Transgenic Cotton in South Sulawesi (Commercialization of Biotechnology Product) Transgenic crops are a plant that genetically modified contains a gene that has been artificially inserted instead of the other plant. The inserted gene (known as the trasgene) may come from another unrelated plant or from a completely different species with a purpose to increase the plant/crop productivity. Transgenic cotton is conventional cotton that inserted by gene of *Bacillus Thuringensis* (called further by Bollgard or Bt) which is immune by target pest from ordo *Lepidoptera* which is annoying the growth of cotton crops.

The lower production of local cotton at Indonesia and higher import of cotton fiber as a basic need for local consumption for spinning mills, triggering the government to re look the process to look over how to increase the cotton production. The choice is fall to transgene cotton technology which is more effective and efficient.

Cotton transgenic crops is the pioneer and the first project of biotechnology approach was introduced among the grower/farmer into Indonesia agriculture environment which is has supported by Central government and local government alliance with multinational company who has a leading technology in crop I plant as a agriculture/agrochemical industry named Monsanto through their subsidiary in Indonesia territory was called PT Monagro Kimia.

As real commitment from Indonesia government in order to follow the multilateral world agreement in Trade with World Trade Organization and also to follow up the ratification of Cartagena protocol about the biosafety and food safety to have a contribution and to ensure the maximum level of safe protection about the usage of Genetically modified corps which is possible to get negative impact with agricultural sustainability and keep the unity of National food/biodiversity in general.

The observation was done in order to find out the factor which is implicated the transgenic cotton is not smoothly working and stopped in year 2003 and with two entity interaction : government policies and company strategy who introducing the new transgenic crops. The descriptive evaluation is one of observation method with analyzing in Clipping study, newspaper study, journal study, interview approach in connection with the regulation of biosafety and food safety concern, transgenic crop in general and transgenic cotton in specific.

In this thesis is also describes the role of stakeholder, the role of regulator who has a major involvement with the transgenic cotton policy (externality factor). SWOT analysis and Business Ecological model as well

as Competitive Environment Strategy is disclose to have a clear understanding about the importance of mechanism of synergistic partnership in a specific role to reach integration and synergy. The observation also to look the effectiveness of Multinational Corporation to work with partnership will close in contact with society, environment and government. The weakness of core competency, transfer technology and communication with environment is pointed out as a one of improvement in the future(internality factor). The steadiness in law treatment for Biotechnology Company who interest to invest in Indonesia is also one improvement suggested in the last chapter of this thesis.

Synergistic partnership is one engine boost and a good foundation for this such of transgenic project in near future and to encourage the stakeholder to build up the whole of integrated agribusiness cotton system and local cotton consumption.

In line with the project were involvement all parties not only scientist, agriculture ministry, Wealth ministry, university, Indonesia Scientist Center, society, farmer but also Non government organization willing to sit together and have a same perception, acceptance of biotechnology refer to agriculture sustainability, biosafety, food safety.

Recommendation is disclose at the end of this chapter of this thesis as a one of suggestion and improvement of development strategy of cotton transgenic in the future.

Bibliography : 39 book, 6 website, 6 report, 1 regulation, 13 newspaper clipping (1991- 2004)