THE REVOLUTION OF EDUCATION BASED UP ON TECHNOPRENEUR:

Critical Review of Higher Education towards Based Technopreneurship Curriculum

By:
Fanny Widadie
Faculty of Agriculture - University of Sebelas Maret
Surakarta – Indonesia
e-mail: fanny@uns.ac.id

The world now is entering a new era of digital information that is characterized by the development of Information and Communication Technology (ICT), thus giving birth to a new generation as indicated by changes in the behaviour of the world community that is currently surrounded by generations of digital and social networking community (Kasali, 2010). The Generation of "new zone" makes the man cannot let go of its activities with the help of technology. With the current influx of new economic era, it has a lot to change our economic developments that are based from resources-based economy to knowledge-based economy. According to Prof. Al-Azhar University of Indonesia, which states that natural resources such as land, mineral, petroleum and forest is no longer the capital of the nation's economic success, but now a new power emerged that intangible and renewable always, it is called with knowledge or science. Bill Gates and Mark Zurkerberg are successful person who have passion in entrepreneurial technology, which armed with knowledge in the computing field, they are able to become successful entrepreneurs in technology and capable of changing the world to enter the digital era. The integration between knowledge-technology capabilities and entrepreneurial spirit will be able to create new technopreneurs.

In the era of economic globalization and information at this time, the role of universities creating human resources is required to make the revolution of education model, from the theoretical-academic approach to entrepreneur and technology approach (Technopreneur). Technopreneurship or the integration between entrepreneurial and technology is a process involving the formation of new businesses as a base technology, in the hope that the creation of appropriate strategies and innovations that could put the future of technology as a factor for national economic development and technology-based business incubator.

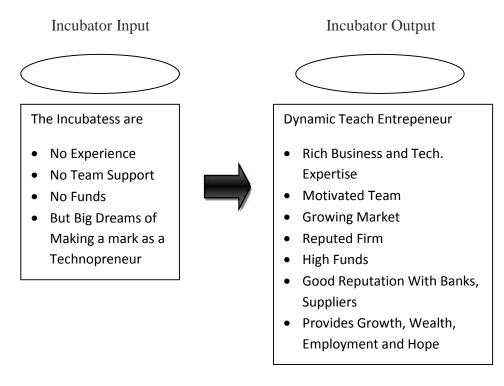
The Higher Education-Universities Based on Technopreneur

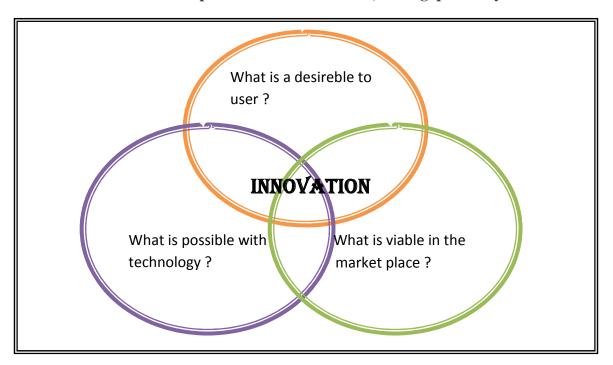
In a long period of time, science or education is placed on the "box" itself exclusively in economic activity. There are many gaps or separators between the world of education and economic activity in all sectors. It should not be happened, where educational and economic activities must have good relations. In the current economic that are based on knowledge, education is a manifestation of the success of a country's national development. Even the education can be a competitive advantage of a country. Singapore, Taiwan and Malaysia are the countries in Asia that are continuining to build educational facilities seriosuly in the last ten years, so the impost of it the quality of life these countries continue to show improvement.

In economic globalization and information currently, education must adapt to face the changes and challenges ahead. Education which was originally oriented to academics only time to be converted inti competency-based education and technopreneur in curriculum. Education is not only the transfer of science and technology but also need the entrepeneurual spirit wrapped in it. The integration of knowledge-technology capabilities with an entrepreneurial spirit can be applied in the real economy in developing nations.

Education based on entrepreneurship is very important in terms of creating entrepreneurial graduates in the narrowing the field work situation and world economic crisis. The method of education by creating an individual towards the formation of life skills, brave and willing to face the problems of life, independent-minded, tough and competitibe and creative spirit to find solutions to overcome all the problems. The synergistic alignment between technological mastery with entrepeneurship including foresight in applying it in accordance with the needs of the community will generate new technopreneurs-ready to move the nation's knowledge economy.

The role of universities which is a institution of research and development has a strategic role in creating the quality of human resources. The universities are expected to be "center of excellence" as well as the "agent of development" for the nation and its people. Entrepreneurial culture must be realized as a sublimation of the mastery of science, technology, business and the arts with knowledge. Therefore to create new technopreneurs, the universities have a role as a business incubator in the educating and managing human resources for becoming technopreneur.





The college only transferred research and development in terms of academic development but it has not reached the stage of application the public and developed in market of entrepreneurial. Therefore technopreneurs here plays a role in incorporating the technology-the ability of science and technology and entrepreneurship- self employed to be profitable through business process. In defining technopreneurship (technology and entrepreneur), it have to watch out for the research and commercialization. Research is the discovery and value to science. Commercialization can be defined as the transfer of research results and technology from laboratory to the marketplace in ways that benefit. The roles of universities are expected to make its institution as a business incubator to create entrepreneurial spirit in terms and relation of making technopreneur people.

The Higher Education towards Based in Curriculum

Technopreneurship based curriculum is expected to be applied by the college to create of new entrepreneurs that based on knowledge-technology. The purpose of this curriculum design are among others to (1) contribute concretely to anticipate the problem of unemployment; (2) develop an entrepreneurial spirit in the universities; (3) minimize the gap between understanding teory and reality practice in business management.

Another benefit for college students in the process of implementation Technopreneurship Based Curriculum are: (1) gain insights into alternative professions as entrepreneurs than as economic, manager or accountant or other professional; (2) has sufficient skill-based field of Information Technology; (3) gain basic knowledge in theory and practice of managing a business internship; (4) obtain access to build the networking of business. Although for colleges as a facilitative have role, namely: (1) a form of social responsibility as an educational institution to contribute in overcoming unemployment problem; (2) becomes an important part in the effort to make relation and corporate between educational as institutional and industrial as users; (3) to be one effective strategy to improve the quality of

graduates; (4) becomes a vehicle for university community to interact comprised of alumni, students, faculty and staff also general public.

Based on all the expectations and objectives above, it is expected that universities are able to do the education revolution based on technopreneur that much needed the role currently. The role of higher education as a business incubator which is further supported by the development of curriculum-based technopreneurship will be able to maximize the potential of universities as centre of excellence in building the quality of human resources in the current globalization era. In optimizing the role of the technopreneur curriculum, the universities need to design learning activities related such a techno skill based training, apprenticeships and entrepreneurship courses, business consulting and business opportunities

Conclusion

The universities need to adapt changing in the organizazing of education today with technopreneurship based. Knowledge and technological based should be developed and integrated with the entrepreneurial spirit to able to print outgraduates who are prepare to become new technopreneur. The college is not only transfer of technology and science but also apply and develop technology research result into a covered market with an entrepreneurial spirit in it. Therefore, the revolution of education in university is very important to do in globalization area emphasizing economic knowledge-based resources in the university as the higher education level based on technopreneurship. The university has a role as business incubators in developing entrepreneurial spirit in an effort to transfer knowledge and technology research into a market and empowerment of local and national economic growth.