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Education and Implementation of Society 5.0 Values in Cisadane Riverside Communities Towards Clean Rivers and a Healthy Environment



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Abstract

The purpose of this study was to analyze the application of Society 5.0 values to the Cisadane riverbank community toward clean rivers and a healthy environment. And want to educate the people on the banks of the Cisadane river in implementing related values. This research method uses qualitative methods that are used to investigate, describe and find the object under study. The data collection technique is through (1). Interviews were conducted with informants namely traders, the general public, and Rt and Rw administrators. (2). Observation, observing the events that occurred in the field around the Cisadane river, Tangerang, Cisauk, Kranggan. (3). Literacy studies in the form of documentation, archives, important notes, photographs, maps of the Cisadane River, and so on. The results of the research are the human resources of the Cisadane riverbank community, who can consistently create clean Cisadane rivers and healthy environments. A technological innovation starts from input, output, and outcome. To improve a better life, understanding and applying the values of civilization in the Cisadane riverbank community towards clean rivers and a healthy environment, educating the people on the Cisadane riverbank in applying values related to the challenges facing the era of society 5.0, to make the Cisadane river clean and healthy, also reduce household and industrial waste pollution and improve the community's economy.

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1 Introduction

A clean and healthy environment is everyone's dream and the whole society's dream. However, it is not easy to create a clean and healthy environment so that it looks clean and tidy so that it is comfortable to look at. A healthy environment will certainly determine where the community lives to carry out their daily lives.

According to Sahabuddin et al. (2013), a clean environment affects health. This has two effects, namely the influence of positive and negative ways. Positive influence, because it gets elements that benefit human life such as food, biological resources needed to improve their welfare such as raw materials for boards, food, clothing, industry, useful microbes and insects, and others. There are also harmful elements such as pathogenic microbes, toxic animals and plants, physically dangerous animals, disease vectors, and reservoirs that cause and spread disease (Namugize et al., 2018).

Communities living on riverbanks will experience environmental risks: unsafe water, poor sanitation and hygiene, and air pollution. However, environmental problems are not only a matter of technology and industry, ecology and biology, pollution control, and pollution prevention. So environmental problems are also social problems. Because humans themselves create environmental problems, and humans also have to find a way out. The challenge for society in the future is development. Industrial Revolution from. 1.0 progresses through to 4.0. Currently, it is approaching the Era of Society 5.0. The general view is that efforts to develop human resources are to improve human skills or abilities in carrying out various activities or work in life (Santos et al., 2016; Magnusson et al., 2003).

Human Resources (HR) in the era of technology 4.0 and will soon enter the world of Society 5.0 must maintain the values of life. The Character of Human Resources in the Industrial Revolution Era 4.0. people who currently live on riverbanks must keep up with the development of exponential leaps in digital technology and transformation in production, management, and governance systems. There is integration and collaboration between stakeholders and the community which is human resources having the ability to consistently create added value from technological innovation from input to output (Zhu et al., 2008; Cresswell & Sheikh, 2013).

Based on the background above, one of the possibilities for improving a better life, the researcher will provide an understanding of how "Implementation of Society's Values 5.0 in the Cisadane River Basin community towards Clean Rivers and a Healthy Environment". To educate the people on the banks of the Cisadane River in 3 (three) places, namely Tangerang City, Kab. Tangerang and Kab. Bogor. To apply the values of challenges facing the era of society 5.0 to the community, make the Cisadane River clean and healthy and reduce household and industrial waste pollution and improve the community's economy (Robinson & Sexton, 1994; Psacharopoulos, 1994).

2 Materials and Methods

Research Methods

This research method uses a qualitative approach that requires data to be collected

Data collection technique

The steps taken to obtain information as a basis for detailed data collection through several stages are as follows:

- a) The observation stage was carried out by direct observation and paying close attention to the research location to obtain complete and in-depth data according to the facts. (Sugiyono, 2018). Whereas, observation is a complex process, which is composed of various phenomena that occur so that from observation and memory it becomes data.
- b) The interview stage is to record the results of interviews, both in writing and digitally, with residents who are on the banks of the Cisadane River and who are actively involved in activities. Interviews were conducted to collect accurate data from informants and validated. Data were obtained directly from informants, to reveal in detail the focus that will be discussed in this study.
- c) Documentation studies are collected from several literacies in the form of meeting notes, files, archives, softcopy, or hardcopy as complementary data through data collection from authentic data sources.

Data analysis

In analyzing the data using descriptive analysis, through several analyzes, namely as follows:

- a) Analysis of data reduction, data presentation, data verification, and concluding, while data reduction and data presentation are components of qualitative data analysis, which is carried out continuously, repeatedly, and continuously until all the required data is fulfilled.
- b) Analysis of direct observation of the location in the field where the research took place, then searched for related literature references, followed by data collection.
- c) Analysis of in-depth interviews, followed by Focus Group Discussion, followed by an analysis of the results of the analysis which are presented in detail, and some conclusions and suggestions can be drawn following the findings of the research results.

3 Results and Discussions

The Cisadane River is one of the major rivers in West Java through Banten, which empties into the Java Sea. The Cisadane River is also called by the name Cigede (Chegujde). At its mouth, the Cisadane river has a spring from Mount Kendeng whose headwaters are on the slopes of Mount Pangrango Bogor, with several tributaries originating at Mount Salak, crossing the west side of Bogor Regency, which continues to flow towards Tangerang Regency and Tangerang City, which empties into the sea of Cape Bird. With a total length of about 126 km, the Cisadane River in the lower reaches is very wide and can be navigated by small boats. The people of Tangerang, who are on the banks of the Cisadane River, have become an important part of the port.

3.1 Society Values Education 5.0 in Cisadane Riverbank Communities towards Clean Rivers and a Healthy Environment

The results of human resource research, which are located on the banks of the Cisadane River, have low-quality human resources. With that, the best way to improve quality is with competency-based education, which is needed by the people on the banks of the Cisadane River, namely as follows:

- a) Educating the public through festivals, for example with the Cisadane festival which is packaged into an annual event that is collaborated with other cultures, such as Betawi, Sundanese, and Javanese which are the roots of the people of Tangerang City. Various entertainments were shown, such as regional cultural performances, Cisadane boat races, hoverboard attractions, jet skis, and small and medium enterprise exhibitions. There is also the waste-free Cisadane program, with program activities that collaborate with the SiCepat Ekspres goods delivery service with the Sasuci Bank foundation, which has assisted with 100 meters of Cisadane WasteTrap, these items are urgently needed to filter waste in the Cisadane river, and also carry out clean-up activities clean up the trash on the Cisadane River, Cihuni Village, 5 km long by using a rubber boat
- b) Educating the community with Culture the people who live along the Cisadane River consist of various living conditions with lower, middle, and high economic levels. The acceleration of change experienced by all residents, especially on the banks of the Cisadane River, as a society has an impact on lagging information, technology, and economic impacts both globally and individuals will feel a gap. So it must be done so that the impact does not spread, and make a setback in people's lives. So the researchers conducted an education for the community around the banks of the Cisadane River, including educating the community in maintaining a healthy, comfortable and safe environment. Based on research and direct observation that this has already been done, it just needs to be increased in intensity.
- c) Educating the public with the values of Society 5.0, which is in the spotlight in various mass media or social media, due to a situation where the movement of the industrial world is not linear with education. The values of Society 5.0 make society replaced by technological developments. Educating the public about the very fast development over time towards Society 5.0, namely, where humans will play a bigger role in transforming millions of data which will later become an artificial intelligence that pays attention to the human side which is expected to become something new in society. This transformation can help humans live better life.

d) Educating the public with the changes in Society 5.0, namely educating which is intended as a change in the educational paradigm so that it can improve the quality of human resources that are competitive in all aspects of life with three main components, namely knowledge, humanity, and technology, which digitize in all fields such as economic, social, educational. If Society 5.0 is not carried out then, it could be technology that continues to control humans which can hurt human life, especially the people on the outskirts of Cisadane.

- e) Educating in all fields, such as skills that are taught to the people on the banks of the Cisadane River, such as having to be able to optimize and utilize the smartphones owned by the community as a way to increase income by doing business online media. Improve the technique of using Smartphones so that they are useful and activate the use of all applications for positive things. Conduct training with various skills that are beneficial to oneself, the local environment, and the surrounding environment.
- 3.2 Application of Society 5.0 Values to Cisadane Riverbank Communities towards Clean Rivers and a Healthy Environment

The growth of the City of Tangerang is greatly influenced by its strategic position as part of the metropolitan city area as a National Activity Center and as a national movement node with the presence of Soekarno Hatta International Airport. Issues regarding the environment that are sensitive to sustainability in the lives of the people on the banks of the Cisadane River. As a consideration in carrying out an action that always pays attention to the social environment and the environment (Fukuda, 2020; Ghobakhloo et al., 2022; Leng et al., 2022). This is done to minimize the risks that will occur in aspects of implementing society 5.0 values in the environment, namely as follows:

- a) The implementation of the Six Value Systems, namely where the community cares about social values in life. Values that must be attached to every society through six life value systems consisting of: (1). Theological value, (2). Logical value, (3). Ethical values, (4). Physiological value, (5). Aesthetic value, (6). Teleologist value. By applying this to the people who live on the banks of the Cisadane River, they will always take good care of the environment. So it needs appreciation from the government can hold the Cisadene Festival to make the surrounding community proud and will make the river clean and the environment healthy. The participation of the community to get involved in the Cisadane Festival has an impact on increasing the ability of the community to innovate, which becomes a physiological value that means maximizing physical functions in living this life.
- b) Planting and applying six value systems to the Cisadane riverbank community. So it is necessary to educate the public in terms of implementing the 5.0 values which require understanding and skills. Such as instilling teleological values related to benefits, effectiveness, efficiency, productivity and accountability in every life, and optimal usefulness, related to the interests of humans and their environment. Ethical values and theological values must go hand in hand between nature and science in line. Communities along the Cisadane River need to strengthen their values to preserve the environment. The value of logic and common sense as a tool for thinking that is useful for separating between right and wrong will strengthen the function of faith for the people on the banks of the Cisadane River.
- c) Implementing and cultivating the Six Value Systems, all the values contained in the value system are very relevant to be applied to the communities along the Cisadane River and have been studied by researchers with the conditions of the people on the banks of the Cisadane River. That the main values that must be attached to the community are theological values that have divine values, following their respective religions and the understanding they contain, where divine values will become the basis for integration with the wider and developing civilization of society following the value of society 5.0. Through increasing the values of a good life, in all things that have been done and manifested into a clean river area, and a healthy life (Astuti et al., 2018).

4 Conclusion

Based on the results of the research and discussion that the researchers have conducted regarding education and the application of Society 5.0 Values to the Cisadane Riverbank Community towards Clean Rivers and a Healthy Environment, they are as follows:

- a) Society Values Education 5.0 in Cisadane Riverbank Communities towards Clean Rivers and a Healthy Environment. Has educated the community through the Cisadane festival, involving the community to contribute through a mixture of cultures such as Betawi culture, Sundanese culture and Javanese culture which are the roots of the people of Tangerang City, educating the public in the development of information and communication technology, as an indicator in overcoming the problems of the people on the banks of the Cisadane river. Progress towards a prosperous society in an easy and fast way. According to the changing times. Educating the community about the values of Society 5.0 is very important to improve the quality of human resources so that they can anticipate technological developments that must be carried out by increasing education that has the values of knowledge, humanity, and technology which can result in the increased power of innovation, creation, and productivity. human resources in all areas of life,
- b) Application of Society 5.0 Values to Cisadane Riverbank Communities towards Clean Rivers and a Healthy Environment by implementing the Six Value Systems that will always protect the environment properly, implementing and applying physiological values that maximize physical function in living life. Then instil the Six Value Systems, which prioritize teleological values related to benefits, effectiveness, efficiency, productivity and accountability in every life, for the benefit of optimizing, relating to the interests of humans and their environment. By prioritizing implementing a Value System that is inherent in society, namely, Theological Values have the meaning of Divine Values, according to their respective religions, where divine values will become the basis for integrating with a broad and developing civilization.

Suggestion

Following the results and discussion, the researcher can provide input in the form of constructive suggestions for the realization of the application of values to the Cisadane riverbank community, namely as follows:

- a) It is for the community that physical values, theological values, and teleological values can be optimized, that people can take advantage of the culture and capabilities of the community to be able to adapt to rapidly developing conditions, through education to improve skills in using their smartphones, as a way to increase income by how to do business through online media.
- b) For the government to continue to educate the public by holding pieces training to increase human resources with various skills, to improve the standard of living of the people, the community, and the surrounding environment, by carrying out activities involving the community in Cisadane festival activities which can be positive for the community and environment
- c) For researchers to continue and have a high commitment to conducting innovative and up-to-date research in carrying out programs that are integrated with the community and other institutional collaborations following the times.

Conflict of interest statement

The authors declared that they have no competing interest.

Statement of authorship

The authors have a responsibility for the conception and design of the study. The authors have approved the final article.

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References

- Ade, S. H., & Sujana, A. P. (2018). Implementation of the acuaponic system based on android.
- Adi, I., Nurcahyo, G. W., & Santoni, J. (2019). Pendeteksi Volume Air Pendeteksi Volume Air Secara Otomatis Menggunakan Fuzzy. *Jurnal RESTI (Rekayasa Sistem dan Teknologi Informasi)*, 3(1), 11-16.
- Aktar, P., & Moonajilin, M. S. (2017). Assessment of water quality status of Turag River due to industrial effluent. *International Journal of Engineering and Information Systems (IJEAIS)*, *I*(6), 105-118.
- Ansar, M. (2017). The Role and Impact of Empowerment and Family Welfare Programs on the Economic Welfare of Sei Kera Hilir II Village Residents, Medan City. *AT-TAFAHUM: Journal of Islamic Law, 1*(2).
- Astuti, N. N. S., Ginaya, G., & Susyarini, N. P. W. A. (2018). Designing Bali tourism model through the implementation of tri hita karana and sad kertih values. *International Journal of Linguistics, Literature and Culture*, 5(1), 12–23. https://doi.org/10.21744/ijllc.v5n1.461
- Chakraborti, L. (2021). Impact of upstream plant level pollution on downstream water quality: evidence from the clean water act. *Journal of Environmental Planning and Management*, 64(3), 517-535.
- Children, Agung., Andriyani's wife, E. M., (2017). Journal. community empowerment through the development of tour villages and their implications for regional socio-cultural resilience.
- Ciptadi, P. W., & Hardyanto, R. H. (2018). Application of IoT Technology to Hydroponic Plants using Arduino and Blynk Android. *Applied in Journal of Informatics Dynamics*, 7(2).
- Cresswell, K., & Sheikh, A. (2013). Organizational issues in the implementation and adoption of health information technology innovations: an interpretative review. *International journal of medical informatics*, 82(5), e73-e86. https://doi.org/10.1016/i.jimedinf.2012.10.007
- Fukuda, K. (2020). Science, technology and innovation ecosystem transformation toward society 5.0. *International journal of production economics*, 220, 107460. https://doi.org/10.1016/j.ijpe.2019.07.033
- Ghobakhloo, M., Iranmanesh, M., Mubarak, M. F., Mubarik, M., Rejeb, A., & Nilashi, M. (2022). Identifying industry 5.0 contributions to sustainable development: A strategy roadmap for delivering sustainability values. *Sustainable Production and Consumption*, *33*, 716-737. https://doi.org/10.1016/j.spc.2022.08.003
- Haqim, K. R., Permana, A. G., & Sunarya, U. (2018). Perancangan Web Monitoring Dan Kontrolling Akuaponik Untuk Budidaya Ikan Lele Berbasis Internet Of Things. *eProceedings of Applied Science*, 4(3).
- Ibadarrohman, I., Salahuddin, N. S., & Kowanda, A. (2018). Sistem Kontrol dan Monitoring Hidroponik berbasis Android. *Konferensi Nasional Sistem Informasi (KNSI) 2018*.
- Islam, T., & Mukhopadhyay, S. C. (2019). Linearization of the sensors characteristics: A review. *International Journal on Smart Sensing and Intelligent Systems*, 12(1), 1-21.
- Kuala, S. I., Siregar, Y. H., & Susanti, N. D. (2019). Sistem Kendali Jumlah Zat Padat Terlarut (TDS) pada Larutan Nutrisi Menggunakan CCT53200E. *Jurnal Riset Teknologi Industri*, *13*(1), 22-32.
- Leng, J., Sha, W., Wang, B., Zheng, P., Zhuang, C., Liu, Q., ... & Wang, L. (2022). Industry 5.0: Prospect and retrospect. *Journal of Manufacturing Systems*, 65, 279-295. https://doi.org/10.1016/j.jmsy.2022.09.017
- Lintang, E., & Firdaus, F. (2017). Sistem monitoring kualitas air pada kolam ikan berbasis wireless sensor network menggunakan komunikasi zigbee. *Prosiding SNATIF*, 145-152.
- Magnusson, M. K., Arvola, A., Hursti, U. K. K., Åberg, L., & Sjödén, P. O. (2003). Choice of organic foods is related to perceived consequences for human health and to environmentally friendly behaviour. *Appetite*, 40(2), 109-117. https://doi.org/10.1016/S0195-6663(03)00002-3
- Maulana, I. F., Permana, A. G., & Sunarya, U. (2018). Rancang bangun aquaponic untuk budidaya ikan lele berbasis mikrokontroller. *eProceedings of Applied Science*, 4(3).
- Namugize, J. N., Jewitt, G., & Graham, M. (2018). Effects of land use and land cover changes on water quality in the uMngeni river catchment, South Africa. *Physics and Chemistry of the Earth, Parts a/b/c*, 105, 247-264. https://doi.org/10.1016/j.pce.2018.03.013
- Nurazizah, E., Ramdhani, M., & Rizal, A. (2017). Rancang Bangun Termometer Digital Berbasis Sensor DS18B20 Untuk Penyandang Tunanetra. *eProceedings of Engineering*, 4(3).
- Paramadita, K., RC, A. R., & Suminar, T. (2018). Problem Based Character Education for Street Children in Satoe atap Semarang Community. *Journal of Nonformal Education*, 4(2), 197-208.
- Pratama, R. P. (2017). Aplikasi webserver esp8266 untuk pengendali peralatan listrik. *INVOTEK: Jurnal Inovasi Vokasional dan Teknologi*, 17(2), 39-44.
- Psacharopoulos, G. (1994). Returns to investment in education: A global update. World development, 22(9), 1325-1343. https://doi.org/10.1016/0305-750X(94)90007-8

- Robinson, P. B., & Sexton, E. A. (1994). The effect of education and experience on self-employment success. *Journal of business Venturing*, 9(2), 141-156. https://doi.org/10.1016/0883-9026(94)90006-X
- Roihan, A., & Damyati, M. A. (2018). Prototipe Automatic Air Filtration Memanfaatkan Mikrokontroler ATmega328 Sebagai Air Quality Control. *Jurnal Informatika: Jurnal Pengembangan IT*, 3(1), 15-19.
- Rosarina, D., & Laksanawati, E. K. (2018). Studi Kualitas Air Sungai Cisadane Kota Tangerang Ditinjau Dari Parameter Fisika. *Jurnal Redoks*, 3(2), 38-43.
- Santos, J., Rodrigues, J. J., Silva, B. M., Casal, J., Saleem, K., & Denisov, V. (2016). An IoT-based mobile gateway for intelligent personal assistants on mobile health environments. *Journal of Network and Computer Applications*, 71, 194-204. https://doi.org/10.1016/j.jnca.2016.03.014
- Sutarman, Yudha. K. Muhammad., Erialdy. (2022). Book Introduction to Merdeka Learning Campus Merdeka. Publisher: Literasi Nusantara Abadi
- Sutarman., Aceng, L. Nulhakim. (2020). Student Character Education Strategy Management. Publisher: YPSIM Banten.
- Wadu, R. A., Ada, Y. S. B., & Panggalo, I. U. (2017). Rancang bangun sistem sirkulasi Air pada akuarium/bak ikan air tawar berdasarkan kekeruhan air secara otomatis. *Jurnal Ilmiah Flash*, *3*(1), 1-10.
- Zhu, Q., Sarkis, J., & Lai, K. H. (2008). Confirmation of a measurement model for green supply chain management practices implementation. *International journal of production economics*, 111(2), 261-273. https://doi.org/10.1016/j.ijpe.2006.11.029