

# Resilience Thinking with Local Wisdom in Disruptive Era

Nanda Alfian Kurniawan<sup>1\*</sup>

<sup>1</sup>Faculty of Science Education, State University of Malang, Malang city, Malang 65119, Indonesia

\*Corresponding author. Email: [alfan.kurniawan.1801116@students.um.ac.id](mailto:alfan.kurniawan.1801116@students.um.ac.id)

## ABSTRACT

The increasing use of information technology and internet tools by the public has given birth to a disruptive era for life activities in various aspects. These conditions indirectly encourage the formation of changes in mindset and patterns of community action so as to cause social dynamics that vary in the community. Fulfillment of personal, social, learning and career needs for every element of society is certainly an important concern in order to be able to survive physically and psychologically in this disruptive era. Social dynamics in a disruptive era have the opportunity to bring about positive change when confronted properly. One effort to support the fulfillment of needs is the resilience of community thinking based on the value of local wisdom. Local wisdom as cultural heritage provides an alternative for the community to be able to face the social dynamics that occurred in the disruptive era. The purpose of this study was to provide a description of the resilience of community thought based on the values of local wisdom in dealing with the disruptive era. This research uses a qualitative approach with the literature study method. Data sources were in the form of previous research articles, books and other relevant sources that support the research objectives. The results showed that the values of the local wisdom of the community have a positive contribution to the resilience of community thought in the face of the disruptive era appropriately

**Keywords:** *Resilience Thinking, Local Wisdom, Disruptive Era*

## 1. INTRODUCTION

Internet-based information technology users have increased dramatically in the last three years. According to data from the Indonesian Ministry of Communication and Information at the end of 2017, Indonesia ranked sixth position in the world with a total of 112.6 million users from 25 countries in the world [1]. Meanwhile, according to data from the Indonesian Internet Service Providers Association (APJII), the number of internet users in Indonesia in 2019 was 143.29 million users [2]. The availability of facilities and equipment is one of the supporting factors for the increasing use of internet-based information technology in Indonesia.

Information technology has various functions in life. The function of technology offers challenges and opportunities for the community to carry out activities to meet the needs of life. Several sectors of life take advantage of the opportunities for the function of technology: economy [3], education [4], health [5], security [6], and other sectors in people's lives in a disruptive era. Meanwhile, the challenges arising from the benefits of the function of technology are, among others, the reduced role of social functions, which have begun to shift to become a technological function.

The social function has a strategic role in moving the life sector. Social function can be interpreted as the outcome of a reciprocal relationship in the social environment. Some forms of social activities that have begun to shift due to the dominance of the role of technology are social communication patterns [7], [8], social relationships [9], and social skills [10], [11]. Based on several forms of social activity, it is necessary to have a systematic ability for the community to deal with changes in social functions into technological functions.

Cognitive abilities are an alternative for society to deal with changes in social functions towards technological functions in the disruptive era. Cognitive ability is a form of mental activity related to risk-taking behavior in various contexts and life domains [12] including in the disruptive era. Society in this era significantly demands its personality to adapt to all changing conditions. The right cognitive abilities are able to direct emotional stability and encourage social activities together [13] in a community environment.

Community and local wisdom cannot be separated under various conditions. Local wisdom as a product of social society is able to provide important cognitive capital [14], [15] in shaping patterns of action and thought patterns. The pattern of action will allow the individual to direct the physical in meeting social demands, while the mindset will allow the individual to form mental concepts that will be passed down into physical activity. Both forms of activity will systematically give birth to thinking resistance as a result of optimal cognitive abilities.

## 2. LITERATURE REVIEW

Cognitive ability is the thinking capacity possessed by an individual in carrying out activities according to the results of the response to a stimulus or influence in the surrounding environment. Individual cognitive abilities can be influenced by internal and external factors. Internal factors that can influence are nutritional status [16], gender [17], self-concept [18], and heredity [19]. Meanwhile external factors can be influenced by social influences [20], environmental influences [21] and the influence of cultural values [22] - [24]. This cognitive ability can be maintained by utilizing the closest reachable resource, which can be in the form of developing cultural values. Because cultural values as local wisdom also have an influence on cognitive abilities.

Cognitive abilities can be categorized into two levels: High Order Thinking Skills (HOTS) and Low Order Thinking Skills (LOTS). High-level cognitive ability (HOTS) tends to direct individuals to apply new information or knowledge they have and to manipulate information in an effort to achieve alternative efforts in dealing with a situation [25] and low-level cognitive ability (LOTS) is vice versa.

Cognitive abilities and thinking resilience have interplay relationships in shaping attitudes to deal with various situations and conditions. There are several studies on the relationship between cognitive abilities and thinking resistance [26] - [29] the relationship between individual cognitive abilities and individual thinking resistance is needed in this disruptive era. The function of thinking resilience can be a guide in generating patterns of action and thought patterns according to situations occurring in the social environment.

Local wisdom is the product of thinking activities in individual psychological dimensions and includes everything that characterizes an area in the form of food, customs, dances, people or traditional ceremonies [30]. Local wisdom is also interpreted as a way of life that contains strategies and knowledge in solving a problem by local communities [31]. Communities built with various values as a source of local wisdom certainly have a different tendency to carry out an activity. It is important for every community to have local wisdom because it has a strategic and comprehensive function in various situations and conditions.

Local wisdom has a strategic role as a way of life that contains knowledge and various life strategies. The values of local wisdom are manifested in local community activities to anticipate and find solutions to various community problems [31]. The presence of local wisdom values in a community group has tremendous potential, especially in national development [30]. Another function

of local wisdom is being able to provide a knowledge system for people to accept and make knowledge part of their life [32]. The potential of local wisdom ultimately has a positive relationship with the practice of science in various situations.

### 3. METHODS

This study used a descriptive approach with the library research method. Primary data sources were obtained from research articles, journals and books that were in accordance with the research topic, while secondary data sources were obtained from the researchers themselves. The data analysis technique used was content analysis, with a research instrument in the form of a check list of the results of the data source set.

### 4. RESULTS AND DISCUSSIONS

Thinking resilience is largely influenced by the value system and culture that comes from the surrounding environment. Values and culture are certainly inseparable from the results of a person's thinking activities, so that the level of thinking resilience is influenced by the value system and culture run by the individual. The research data shows that there is an effect of local wisdom-oriented activities with critical thinking skills [33]. The influence of local wisdom on thinking resilience provides an important value in supporting technical policies, investigations, how to use them effectively in environmental decision-making processes [34].

Local wisdom in the context of society occurs as a result of a process of adaptation to the environment and interactions from one generation to another over a very long period of time [35]. Seeing this opinion, local wisdom needs to be maintained because the decrease is also caused by the actions of the community in meeting their needs [31]. Local wisdom provides knowledge experience for people in various situations. People who live in a disruptive era like today certainly have many opportunities and opportunities to access and to utilize information sources for their survival. Technology work and local wisdom need to be integrated in building community thinking resilience. This cooperative relationship is based on the understanding that local wisdom is also a local cultural identity that should be preserved so as to provide positive values for the development of the nation and state globally [36].

Science and technology studies in the last thirty years show that people are actually producers of technology [37] and on the other hand also become consumers. Information technology is an important component in everyday life in this disruptive era. People who will take advantage of technology need to be equipped with resilience to think to avoid the negative effects of technology as a public problem. Some of these

negative effects include cyberbullying, technology addiction, fraud [38], lies, inviting violence to children [39]. The research data reveals that male gender tends to show better attitudes in the use of technology than women [40], but these results are not a standard guide to assess the thinking resistance of men and women in using technology in the disruptive era.

Local wisdom has an opportunity to improve thinking resilience for people in a disruptive era. The social capital contained in local wisdom will encourage cognitive potential to develop more optimally, thus giving birth to positive responses to behavior and attitudes in everyday life. The relationship between local wisdom and technology can be shown in a conceptual study which states that the development of scientific technology can be influenced by sources of social capital resulting from local wisdom values [30] or it can be called the term indigenous science [41] and it is important to develop it in various forms of research.

One can show the resilience of people's thinking by thinking critically. Several other forms of research have shown that there is a relationship between thinking skills and local wisdom [42], [43], and even local wisdom that is implemented in technology in achieving an optimal level of thinking ability [44]. The use of information technology with the support of good thinking resistance will ultimately preserve local wisdom itself [45].

### 5. CONCLUSION

Local wisdom has the opportunity to maintain individual thinking in a disruptive era. All forms of social and cultural values that develop in society and characterize each community group are an empirical form of local wisdom. Resilience to think through local wisdom is expected to be a model for community activities that always intersect with mental conditions, including thinking resistance in various situations. Disruptive situations are not a barrier, but become an opportunity to start utilizing and re-preserving cultural and social values as a guide for life in the disruptive era and in other eras in the future.

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