AI USED IN ELECTRONIC TRAFFIC LAW ENFORCEMENT AS LAW ENFORCEMENT EVIDENCE IN DIGITAL ERA

Edi Saputra Hasibuan
Faculty of Law, Universitas Bhayangkara Jakarta Raya, South Jakarta, DKI Jakarta, Indonesia
edi.saputra@dsn.ubharajaya.ac.id

PAPER INFO
Received: August 2023
Revised: August 2023
Approved: August 2023

ABSTRACT
Background: It is undeniable that in the revolutionary era, technological advances developed so rapidly and had an impact on the legal system in Indonesia. To keep up with these developments, the use of artificial intelligence as a national legal instrument is very important.

Aim: This research was done to find out how important the sustainable development of law is and to explore the potential of using artificial intelligence in improving efficiency, justice and law enforcement in the digital era through Electronic Traffic Law Enforcement (ETLE).

Method: In this study, the authors used a normative type of juridical research. This research is intended to determine the need for legal development in digital and the role of ETLE as evidence of law enforcement in the digital era.

Findings: Indonesia's positive law must adapt to technological advancements to ensure justice, certainty, and community benefits. Utilizing national legal support facilities and infrastructure, particularly law enforcement, is crucial in the digital era.

KEYWORDS
technology, legal development, artificial intelligence, ETLE

INTRODUCTION

Law is dynamic following human culture which is increasingly experiencing dynamics due to the development of technology-based science. The law needs space to modernize. The biggest challenge that must be faced is that the law is required to be able to keep up with the times and still be able to maintain the values of national life contained in Pancasila (Riyanto, 2020; Sawitri et al., 2022). Therefore, the need for legal development in the digital era as one of the catalysts for nation building supported by law enforcement and justice who have high integrity, innovative and humanist properties (Riyanto, 2020). One of them is the development of laws involving technology, because technological advances are the main contribution in the transition period of conventional life to a digital-based life.

This period is referred to as the digital era which means there is a significant change in the process that starts from human actions to actions that are capable of being done by technology (Ambrogio et al., 2022; Disemadi, 2021; Su et al., 2022). One of them is the existence of artificial intelligence as a combination of the development of electronic science, computers and mathematics. Artificial intelligence in a simple sense is a system designed to be able to do human work (Devianto & Dwiasnati, 2020; Felzmann et al., 2020). Artificial intelligence is a simulation derived from human intelligence that is programmed to think like humans consistently and efficiently (Aggarwal et al., 2022; Hassani et al., 2020). Artificial intelligence has been widely applied in various fields as a job support tool. In law development, the police as law enforcers can take advantage of the existence of artificial intelligence to create
renewable, simple and responsive regulations (Girasa, 2020). The use of artificial intelligence in the context of law enforcement is implemented in traffic control efforts using Electronic Traffic Law Enforcement (ETLE) and cyber crime investigation.

The purpose of this study is to find out how important sustainable legal development is and explore the potential use of artificial intelligence in improving efficiency, justice and law enforcement in the digital era through Electronic Traffic Law Enforcement (ETLE). This research attempted to learn about the need for legal development in line with technological developments in the digital era and the role of Electronic Traffic Law Enforcement as a law enforcement effort in the digital era which then will open a wider range of information for public regarding the issue.

METHOD

The authors used a normative type of juridical research. Normative juridical is a legal research activity carried out by examining library materials or secondary materials so that research is carried out by examining library materials (Soekanto & Mamudji, 2006). This research is intended to determine the need for legal development in digital and the role of ETLE as evidence of law enforcement in the digital era. The data used were originated from legal documents related to the issue, specifically legal regulations, works from legal circles, and books. The data were then analyzed with the descriptive analysis technique.

RESULTS AND DISCUSSION

The Need for Legal Development in line with Technological Developments in the Digital Era

Legal development is a structured, systematic and continuous effort in improving the life of the nation and state in order to live a prosperous life based on justice and legal certainty (Asshiddiqie, 1998). The history adopted in the development of national law for 40 (forty) years is a concept that positions law as a means of community renewal (Setiadi, 2012). In this concept, law development serves as a reinforcement in order and security, enforcing justice and acting as public education (Setiadi, 2012). Sustainable legal development is a must that needs to be done by a country in order to keep up with the times, because lawlessness always moves and develops following the dynamics itself (Ismayawati, 2018). The dynamics of legal development in Indonesia are influenced by factors of technological advances that direct changes and legal developments that can be carried out with the help of system tools. It is undeniable that the development of science and technology has been so rapid over the past five years that it has an impact on human life to bring a form of great influence in people’s behavior (Mahayana, 1999; Sima et al., 2020). Legal development in the digital era is carried out with technological developments. As the definition of technology is stated in Article 1 paragraph (2) of Law Number 18 of 2002 concerning the National System of Research, Development and Application of Science and Technology that: "Technology is a way or method and process or product resulting from the application and utilization of various disciplines that produce value for the fulfillment of needs, continuity and improvement of the quality of human life."

This illustrates that in the future human life cannot be separated from technology. Law serves to regulate the development that occurs, so that the law is not left behind by the times and still provides a sense of justice, certainty and benefit to the community. This is because
AI Used in Electronic Traffic Law Enforcement as Law Enforcement Evidence in Digital Era

Legal development is intended to realize a legal system based on Pancasila and the 1945 Constitution of the Republic of Indonesia which includes the development of materials, structures, and legal facilities and infrastructure.

The Role of Electronic Traffic Law Enforcement as a Law Enforcement Effort in the Digital Era

The use of technological advances in the digital era in the legal field, one of which is by focusing on the use of artificial intelligence as a supporting device in completing work (Hee Lee & Yoon, 2021; Yudoprakoso, 2019). One of the technologies used in the legal field as an effort to synchronize the development of the times is by utilizing artificial intelligence. Artificial intelligence has also been widely used by society to increase productivity from work (Yudoprakoso, 2019). In the present and future era, artificial intelligence is a science that has a very important role, with significant developments over the last 20 years able to provide intelligent devices at every layer of human life (Yudoprakoso, 2019).

Artificial intelligence is actualized by systems or machines that show aspects of human intelligence, innovation is formed from the abundance of services available (Zein, 2021). It is a forum for research, applications and instructions that are packaged into computer programming in order to perform actions that in the human view are intelligent. It is also the study of how computers are able to perform human actions (Zein, 2021). Artificial intelligence has the characteristic of rationalizing and taking actions that have the potential to succeed in achieving certain goals (Rachmadie & Supanto, 2020; Russell, 2021).

Artificial intelligence serves as a law enforcement support tool implemented in Electronic Traffic Law Enforcement (ETLE). ETLE is defined as a law enforcement system in the field of traffic using Automatic Number Plate Recognition technology that automatically records vehicle number signs and is able to detect and store evidence of traffic violations which will later be used by the police to take action on these violations. The purpose of ETLE is to utilize technology as a supporting tool to support traffic control (Wicaksono & Dwilaksana, 2020). Regulation of the use of ETLE, contained in Law Number 22 of 2009 concerning Road Traffic and Transportation Article 249 paragraph (1) and Article 272 paragraph (1), reads:

1) Article 249 paragraph (1): "The control center of the Traffic and Road Transport Information and Communication System serves as the center of: a. control; b. coordination; c. communication; d. integrated data and information; e. community service; f. electronic track record for law enforcement."

2) Article 272 paragraph (1): "To support violation enforcement activities in the field of Traffic and Road Transport, electronic equipment can be used."

By using ETLE in law enforcement, the police can improve the efficiency and effectiveness of the law. ETLE can be a supporting tool for the police to improve operations in surveillance, investigation and traffic control efforts. ETLE can speed up the administration mechanism and facilitate archiving so that data management can be structured. The existence of ETLE also makes it easier for the police to manage information more quickly because it does not rely on manual processes that need to consider distance and time allocation. ETLE also allows the police to conduct effective investigations in order to gather evidence. This is because the use of analytical techniques and online search media helps the identification process through digital track records. This allowed the police to successfully uncover past
violations that occurred. Because, Soerjono Soekanto said that one of the factors that affect law enforcement comes from facilities and infrastructure (Abdullah & Windiyastuti, 2022).

CONCLUSION

The development of the times has consequences for changes in people's lives. Life that began conventionally began to move into the digital age. As adherents of the rule of law, positive law in Indonesia needs to be active in following the flow of technological progress in order to continue to provide justice, certainty and benefits for the community. In addition, from existing technological advances, it is necessary to utilize national legal support facilities and infrastructure, one of which is law enforcement in the digital era.

REFERENCES

AI Used in Electronic Traffic Law Enforcement as Law Enforcement Evidence in Digital Era

Environmental Research and Public Health, 18(1). https://doi.org/10.3390/ijerph18010271


