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Book Review:
Generation Z & Industrial Revolution 4.0
(Generasi Z & Revolusi Industri 4.0)

Title: Generasi Z & Revolusi Industri 4.0; Author: Hadion Wijoyo; Irjus Indrawan; Yoyok Cahyono; Agus Leo Handoko; and Ruby Santamoko; Publisher: CV. Pena Persada
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INTRODUCTION

The purpose of writing this review is to find out information from the book's contents and assess the weaknesses and strengths of the book. The author did this review because he saw the development of the generation in Indonesia and their ability to face the era of the industrial revolution 4.0. Therefore, it is necessary to provide knowledge in relevant formal, non-formal, and informal education.

The book entitled Generation Z & Industrial Revolution 4.0 was written by Hadion Wijoyo, one of the permanent lecturers at STMIK Dharmapala Riau. The purpose of writing books is because the millennial generation contributed a lot to drive the industrial revolution. The millennial generation can take advantage of increasingly developing technology. The millennial generation needs to be provided with knowledge in relevant formal, non-formal, and informal education.

This book is intended for the millennial generation in Indonesia. The opportunity for the industrial revolution 4.0 to occur is tremendous if they can adapt well. So that the millennial generation is expected to make technology in Indonesia more advanced, as the millennial generation must be able to study all developments in the Industrial Revolution to bring the Indonesian nation forward. However, technological developments must also be by the Pancasila principles so that they do not conflict with the goals of the Indonesian government.

The book Generation Z & the Industrial Revolution 4.0 provides information about the occurrence of the industrial revolution 4.0 in Indonesia. Industrial revolution 4.0 was implemented with the increase in machine technology, strategic policy frameworks, and others. Given the development of technology, the role of generation Z will also increase in achieving the benefits of the industrial revolution.

The reader will interest in the book since it is fascinating. The book is interesting because it contains the role of the millennial generation in the industrial revolution. It is essential for the millennial generation so that they can keep up with existing technological

developments. Therefore, this book by Hadion Wijoyo can be used as a guide in utilizing existing technology. The millennial generation must also have and practice the principles of Pancasila in everyday life so that they are not misguided when following technological developments.

The Millennial Generation

The millennial generation contributed a lot to the progress of the 4.0 industrial revolution, and it was they who helped advance technology and the development of the digital age. However, it cannot be denied that the industrial revolution also increased the number of unemployed because human power was manipulated by machine power. As a result, the millennial generations want thorough preparation to succeed in their careers. If a nation can adapt and change in a relevant way, the country has a huge opportunity to develop the industrial world. Millennials are very instrumental in achieving the 4.0 industrial revolution because they can adapt to the digital industry. They need knowledge in the form of relevant formal, non-formal, and informal education.

Generation X was born at the dawn of technology, using the internet, computers, video games, and cable TV. Their characteristics are that they can adapt to technological developments, seize opportunities that arise, have a strong sense of self-worth and loyalty, and are hard workers. Generation X started with learning about computers, which allowed them to seek more innovative ideas and make everyday activities easier. In their daily lives, generation X tends to do informal jobs or become entrepreneurs. They like an efficient and flexible work environment, but they do not like the atmosphere of an unsupportive environment that is binding on the job.

Generation Y is also known as the millennial generation, using communication technologies such as social media, email, and sending messages via SMS. Generation Y was born when technology was very advanced, and it was easy to get some information. In addition, they will be able to come up with more innovative ideas and more progressive thinking strategies related to technological advances. Generation Y appreciates differences in the environment and has a high tolerance attitude.

Generation Z can multitask, such as accessing social media on smartphones and listening to music through headphones. Everything they do always has to do with social media and indirectly affects their personality. Smartphones, social media, and other technological innovations have pushed Generation Z forward. They tend to imitate the Y

generation style in terms of work, social, and communication. Generation Z has an open mindset that can be changed or innovated to develop new things.

Mastery of technology and information is the most noticeable difference from generations X, Y, and Z. Millennials were born and raised at the beginning of the information technology revolution. Millennials are very optimistic about their economic future. On the other hand, Generation Z was born in an era of highly advanced information technology, but they tend to save their money. Information and technology are part of the life of Generation Z because since they were young, internet access has become a natural thing, thus affecting their values and perspectives for future life goals.

The first time the industrial revolution occurred was in the 18th century and was marked by the emergence of a high-tech system, after the second industrial revolution at the beginning of the 20th century, marked by the discovery of electricity. Since the second industrial revolution, humans have still focused on the most critical aspects of the manufacturing process. After the third industrial revolution, machines' role has been replaced by machines and the passing of the industrial age and replaced by the information age.

The combination of automation technology and network technology comes from the 4.0 industrial revolution. The term "Industry 4.0" comes from a draft by the German government which aims to modernize the manufacturing process. In particular, all aspects of human life are connected with innovative technology from the industrial revolution. Many unimaginable events appear suddenly and become a breakthrough to open up new business opportunities to be evenly distributed.

Industrial revolution 4.0 applies modern technological projections implemented by creating a strategic policy framework, increasing manufacturing technology, and others. Industrial revolution 4.0 can be used to support a frame of mind and improve innovative and creative human life by using technology or the internet. In the 4.0 industrial revolution, nine technologies are most important to transforming every traditional industry into a digital sector. These technologies are big data, *system integration*, Augmented Reality (AR), *simulation*, *cybersecurity*, *artificial intelligence*, the Internet of Things (IoT), *additive manufacturing*, and *cloud computing*(1).

The industrial revolution 4.0 caused the flow of urbanization to the city to increase, causing the number of workers to become increasingly abundant. But on the other hand, factories also often use machines to reduce the number of employees. The Industrial Revolution 4.0 has also made political developments possible in all parts of the world. Not

only that but the Industrial Revolution 4.0 leads to mechanical processes that significantly enhance industrial and factory operations.

The 4.0 industrial revolution provides opportunities for all developing countries to innovate in the digital economy and positively impact making an effective digital economy. It opens up opportunities for foreign investors to enter developing countries. Every nation must make use of all available resources to achieve industrialization. The industrial revolution pressured people to think quickly, understand the situation, and be aware of themselves so that the millennial generation could participate in technological developments. Each individual has a variety of options to present themselves uniquely. On the one hand, some people want to say ideal or even perfection, but on the other hand, it may appear contrary to the words model.

One example of revolution 4.0 in the industry is a digital business. Digital business is a technique used to promote a product using electronic media. In general, digital businesses are classified as purely digital businesses, digital versions of non-digital businesses, digital service providers for non-digital businesses, and hybrid businesses. The digital business also provides various services, such as social media management, data analysis, online content management, digital content publishing, distribution and distribution, entertainment applications, etc.

E-commerce refers to the process of buying and selling goods electronically. *E-commerce* as a whole has grown over the years and is slowly but surely replacing grocery stores. The method of e-commerce often involves the promotion, purchase, and delivery of goods. The trading system is used in different electronic media or the internet.

Newspapers or print media that are already based online are some examples of e-commerce today. The advantages of e-commerce that can be presented are market expansion, attracting many customers, reducing telecommunication costs, consumers' need to go to the store to see products, and increasing a good image in customers' eyes. In e-commerce, every transaction phase, from ordering products to data entry and money transfers, is completed electronically.

The book entitled *Generation Z and the Industrial Revolution 4.0* explains the cluster of values that generation Z must have in facing the development of industrial revolution 4.0. The value clusters are enjoyment values, life-vital values, psychological values, and religious values. If generation Z does not have this value, they will fail to take advantage of existing technology. So that this book can meet the needs of generation Z in facing the digital era. It explains the understanding and behavior of each generation and

provides examples according to conditions in the world. It also gives an entire industrial revolution history, developmental and impact of the industrial revolution surrounding environment. It can be said that the contents of the book are suitable for generation Z to know everything about the 4.0 industrial revolution and take advantage of its existing technology.

The contents of this book discuss the history of the industrial revolution and the role of generation Z in industrial revolution 4.0. In addition, it also discusses digital businesses that can be run by generation Z. The contents of the book have a positive impact on readers because they provide real examples in Indonesia. Generation Z could be inspired to start a digital business that can make money.

This book affects readers because, over time, education in Indonesia has begun to keep up with existing technological developments. After reading this book, generation Z is also expected to adapt to the 4.0 industrial revolution. This book provides knowledge about the industrial revolution 4.0 and digital business widely carried out in Indonesia. So that it has a positive impact such as the use of technology which is increasingly widespread, even in the aspect of education, it can be proven in the book's contents, which is written: "teachers are required to use technology in carrying out teaching and learning activities." The examples in the book contain actual events that occur in people's lives. One example is the role of generation Z in industrial revolution 4.0 and the use of technology in education. The chapter on generation Z in the industrial revolution 4.0 is explained in full by the author on pages 52 to 63. This page discusses the psychology of the millennial generation, the character of generation Z, and the role of generation Z in the industrial revolution.

The book's style, organization, and size are by the purpose of writing the book, namely for the contribution of generation Z in the industrial revolution. The contents of the book are also easy to implement in everyday life. Based on the contents of the entire book, the writing of this book includes a complete and factual study. The sub-chapters described in this book are done and by the target audience.

The strength of this book is that the explanation in each chapter is straightforward so that the reader can easily understand the contents of the book. According to the contents of the book discussion, the examples given are facts in people's lives, namely the millennial generation and the industrial revolution 4.0. Besides that, there is a slight obstacle to grasp the entire book due to sentences. The sentences in the book are written twice but in different paragraphs. For example, on page 25 of the first paragraph, it is written "generation Y known as millennial or millennial genealogists," In the second paragraph, the same sentence is written.

Life between generations is very different. However, they must adapt to new technological developments so that they are not out of date. Generation Y and Z grew up with various technological developments such as smartphones and social media. Generation Y values differences in the environment and has a high tolerance attitude. In contrast, Generation Z has a more open mindset, which can be changed or innovated to develop new things. As the millennial generation, they must study all developments in the Industrial Revolution to bring the Indonesian nation forward. In addition, they are also required to overcome all the impacts of current technological developments. They are the hope and the nation's successor who will bring Indonesia's name to the international arena. Therefore, technological developments must be by the Pancasila principles to not conflict with the Indonesian nation's goals.

My suggestion is to use language that suits the target audience and also always uses appropriate examples in people's lives. For readers, especially the millennial generation, must have and practice the principles of Pancasila in everyday life so that they don't get misguided when following technological developments.

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