Review Analysis of Video Blogging, Ethnoscience and Social Media Literacy in the Era of the Industrial Revolution 4.0

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Abstract

Research on Vlogs, ethnoscience, and social media literacy, is one of the trends in the era of the industrial revolution 4.0, so it is exciting to research. However, scientific studies are still relatively new and rare. A systematic review is not yet available. Thus, the purpose of this study was to analyze the review content of synthesized articles with a focus on the study of the authors' origin, aims, method variations, and findings. This research's data collection method adopted the PRISMA design, consisting of four steps: identification, screening, eligibility, and inclusion. Article searches are carried out using the publish or perish application directly linked to Google Scholar search. The total number of articles found was 2971 articles in the period 2016 to 2020. This study was decided to review 25 articles with the distribution of 8 Vlog, 6 ethnoscience, and 11 social media literacy. The results showed that (1) Indonesia was the country that was ranked first out of nine countries on the topics of Vlog by 75% and ethnoscience topics by 67%, (2) the purpose of the research is on average testing, finding and developing topics with other variables, (3) the research methods also used varied, including descriptive qualitative, quasi-experimental, exploratory, survey, literature review, and R&D, (4) The findings indicate that these topics are interesting to study because they have a positive effect on learning, increasing learning motivation, self-confidence, speaking skills, understanding concepts, and critical thinking skills, innovative, creative to the entrepreneurial character.

Keywords:
Review analysis
Video blogging
Ethnoscience
Social media literacy
Industrial revolution 4.0

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Introduction

The era of the Industrial Revolution 4.0 has had a noticeable impact in all fields. Fundamentally, this revolution has changed the way humans think, live, and relate to one another (Prasetyo & Trisyanti, 2019). How to live and relate to one another can never be separated from the role of technology. The development of digital technology in the current Industry 4.0 era has brought changes and influenced various aspects of human life, including education (Putrawangsa & Hasanah, 2018). One of the most dominant changes in digital technology in education is in the teaching and learning process.

Moreover, the Covid-19 pandemic has for months required the government to make policies to close schools, colleges and universities to reduce the coronavirus spread. Closing schools does not mean the learning process has stopped. For the learning process to continue, and students get knowledge according to the government's curriculum, the role of technology is needed.
Online is felt to be able to answer the problems experienced by educational institutions during the Covid-19 pandemic. Information technology is a solution to implementing online learning (Suni Astini, 2020). The learning system is implemented through a computer device (PC / laptop) or Android cellphone connected to an internet network connection. However, online learning will not work if there are no facilitating media. The existence of learning media as a tool in the learning process is a fact that cannot be denied (Irwandani & Juariyah, 2016). Therefore, we need media that can facilitate students' learning and facilitate teachers in delivering learning material. Besides, this media must also motivate students to continue learning without feeling bored during online learning. Learning media plays an essential role in making learning activities more effective and efficient (Jauhari, 2018). One of the media that is effectively used in online learning is video blogging or Vlogs.

Research conducted by Irwandani et al. (2019), the YouTube video blog channel with the STEM approach, is suitable as an alternative media for senior high school students' online learning. According to Hibra et al. (2019), Vlog is a form of activity carried out in video recordings or several images combined with sound, pictures, or other animations. So, Vlog can be said to be an audio-visual-based media. It is similar to other videos but has specific themes with particular objects and is packaged in attractive images uploaded on YouTube, which can be watched online or offline (M. Sari, 2020). Making a Vlog is also relatively easy because it only relies on recording devices, and talking about personal daily life is classified as a Vlog (David et al., 2017).

Research on Vlogs is exciting because Vlog has become a trend both among children and adults. Even on YouTube recently, many new accounts have sprung up. People are becoming Vlogger (as a Vlog maker) with various content from comedy, traveling, tutorials, styles, tips, and tricks to non-educational content. However, harmful content has millions of viewers, indicating that people have not used social media wisely. Social media literacy is needed to suppress harmful content with educational content. In education, social media application in learning is increasing and is recognized as a critical skill for teachers (Forbes, 2017). With social media, teachers can share, discuss and collaborate in teaching.

Along with the development of Vlogs and social media literacy in the era of industrial revolution 4.0, culture, customs, and local wisdom are the hallmarks of a sinking nation. Cultural science is rarely applied in learning, so many students do not see their own culture (Sumarni et al., 2020). The nation's local knowledge is not lost; the Vlog content must be presented with ethnoscience. Ethnoscience can be integrated into learning in schools with various learning themes. In addition to preserving local culture, ethnoscience learning is considered to improve student's quality of education and character (Sukesti et al., 2020). Sudarmin et al. (2019) also found that the learning model of natural culture and creativity can be creative, innovative, diligent, and characterize national culture. So, it is not surprising that research on Vlogs, ethnoscience, and social media literacy are research topics that are also of great interest to researchers. These topics are currently becoming a trend among the general public as well as researchers. Since 2016, these topics have coloured web search engines that can be accessed freely to find full-text research articles in the last five years.

However, the scientific study of Vlogs, ethnoscience, and social media literacy are still relatively new; detailed information is still rare. So far, no systematic review is available either. Therefore, it is necessary to conduct a literature review to reveal the scope of research on Vlog,
ethnoscience, and social media literacy from 2016 to 2020 in the era of the industrial revolution 4.0. Thus, this systematic literature review analysis study analyzes the review content of synthesized articles focusing on studying the author's origin, aims, method variations, and findings.

**Method**

This study examines the scope of research in Vlog, ethnoscience, and social media literacy systematically. This systematic review was carried out using a modified procedure adopting the PRISMA (Preferred Items for Systematic Reviews and Meta-Analysis) design, which consists of four steps: identification, screening, eligibility, and inclusion (Wiyanto et al., 2020). The total number of articles found was 2971 articles in the period 2016 to 2020. This study was decided to review 25 items based on four steps in the systematic literature review analysis. The flow chart of the research procedure in this study is shown in Figure 1.

![Flow Chart](image)

**Figure 1.** The procedure of systematic literature review analysis

The first stage is the identification, and article searches are carried out using a publish or perish application directly linked to Google Scholar search based on the keywords used. Keywords entered in the search box included video blogging or Vlogs, ethnoscience, and social media literacy, limiting articles from 2016 to 2020. When keywords are entered, hundreds of articles will appear on the publish or perish application screen. At this stage, reports will be identified based on publication limits. Articles published between 2016 and 2020 are eligible to enter the second stage, while articles outside the publication year are discarded. In addition to the limitations of the article's publication, themes are also identified based on the title, abstract, keywords, and topics. Topics relevant to this research are included, while issues that are not suitable are discarded. At this stage, the articles produced tend to be broad. Then it needs to be filtered again at a later stage.

The second stage is filtering, where all articles that have been identified based on the title, abstract, and keywords relevant to the topic discussed are downloaded. Then the paper is assessed based on the complete content of the article to get the feasibility of whether the form is still used or discarded. Full-text articles were scanned to check the suitability of the topic for
research purposes. Papers of the 'editor,' 'comments,' 'response,' 'book chapter,' and 'book reviews' types were excluded from the analysis. Full-text articles written in 'non-English languages' were also excluded. Those irrelevant articles are removed from the downloads folder.

In the third stage of eligibility, all articles that have been filtered and declared eligible are put in one folder based on keywords. Items about Vlogs are placed in the Vlog folder, ethnoscience, and social media literacy. Then all articles are worth analyzing and studying to conclude.

The fourth step is to enter all the required information from all eligible articles into the table as metadata. The paper sections included in the table include the author's name, year, author's origin, purposes, research topic/focus, methods used, and findings in the study. All eligible articles were studied and analyzed to get a synthesis or conclusion.

Analysis was carried out, including noting the author's name, to find out the authors who contributed to writing articles on the topics discussed. In addition, the year of publication is also recorded to find out when the research began to be published until it finally became a trend.

The nationalities of the authors were analyzed and assessed quantitatively to indicate the country's rank of publication. The author's citizenship contribution score is calculated using the following formula:

\[
\text{%Nationality of the author} = \frac{\text{Number of articles published in that country}}{\text{Total of all analyzed articles}} \times 100\%
\]

The author's goals were obtained by analyzing each article's diversity of research objectives, from which variety was classified based on similarities and differences in objectives. Similar research objectives were taken and concluded to be a growing trend among writers. The topic/focus of the research is also recorded to find out the distribution of the topics most interested by the author. The research method was analyzed to determine the distribution of the methods used by the author in researching the topics discussed. Then from the technique used, the results are compared with other methods used by other authors. The results of the research are focused on what the author finds from his study. Whether the author finds a good thing or not, in which part of the article the author finds goodness, for example, if the best research method is found using research and development (R & D) methods, then research and development will be carried out on these topics. These findings will later be used as a literature review to conduct further research related to the issues discussed.

Results and Discussion

Article searches are carried out through the publish or perish application directly linked to Google Scholar search and for publication is limited to the period 2016 to 2020. The comprehensive search was 2971 articles out of 3 keywords entered—the first keyword by writing "Vlog" in the keywords column and found 987 items. The second keyword was written "ethnoscience" in the keywords box and resulted in 992 articles. The third keyword by writing "social media literacy" and also found 992 items. Of the 2971 articles found, it was decided to review 25 items with 8 pieces on Vlogs, 6 articles on ethnoscience, and 11 articles on social media literacy topics. The 25 items that have been studied are presented in Table 1.
### Table 1. Article data reviewed

| No | Writer's name | Year | Author Origin | Purpose | Method | Findings |
|----|---------------|------|---------------|---------|--------|----------|
| **Video Blogging or Vlogs (8 articles)** | | | | | | |
| 1 | Christelle Combe and Tatiana Codreanu | 2016 | French | Describe and analyze informal learning communication using vlogs | Qualitative | Vloggers are highly supported by peers to share knowledge and comment on an everyday basis |
| 2 | Pramita Sari | 2017 | Indonesia | Increase students’ motivation and confidence to speak | Quantitative | The use of Vlogs on Youtube Channels increases student motivation and self-confidence |
| 3 | Mustafa Fidan, Murat Debbag | 2018 | Turkey | Facilitating students to create a Vlog | Qualitative | Vlogs are helpful for personal, professional, social, and technical reasons. |
| 4 | Bics Al Hibra, Luqman Hakim, Tri Sudarwanto | 2019 | Indonesia | Finding out the feasibility of Vlog-based learning media | Research and development | Vlog is declared worthy as a learning medium |
| 5 | Arumnsari, Saly Kurnia Octaviani, Suryanti Galuh Pravitiasari | 2019 | Indonesia | Describe the relationship between learning motivation and language skills using Vlog | Qualitative descriptive | High student motivation to realize results in high speaking skills scores |
| 6 | Sharfina Karamina, Thriwaty Arsal, & YYYFR Sunarjan | 2019 | Indonesia | Analyze the role of the teacher in utilizing vlog-based learning media | Qualitative descriptive | The use of YouTube Vlog-based learning media helps teachers be more innovative and create a pleasant classroom atmosphere for learning |
| 7 | Hana Sakura Putu Arga, Galih Duni Septiyan Rahayu, Ronny Mugara | 2019 | Indonesia | Knowing the effect of the preparation of Vlog-based teaching materials on improving cross-cultural skills | Quasi-experiment | Learning in the experimental class can improve cross-cultural skills |
| 8 | Eka Dian Susanti, Ari Sapto, Dewa Agung Gede Agung | 2020 | Indonesia | Vlog-based ECHA media was developed to increase learning motivation | Research & development | Practical and valid media can increase motivation |
| **Ethnosciences (6 articles)** | | | | | | |
| 9 | Okwara Okwara | 2017 | Nigeria | Know the effect of ethnoscience learning approaches on student achievement and interest | Quasi-experimental | Students who are taught using the ethnoscience learning approach get higher scores |
| 10 | Agnes Amila W, Abdurrahman, Agus Suyatna, I Wayan District, Kartini Herlina | 2018 | Indonesia | Analyze practicality and effectiveness Ethnoscience-based worksheets are in progress student understanding | Quasi-experimental | The experimental class using ethnoscience-based worksheets got an increased conceptual understanding |
| 11 | Danang Triasmoro Adhi, Sudarmin, | 2018 | Indonesia | Develop instructional video based ethnoscience | Research and development | The instructional video developed is very suitable according to BSNP to increase student knowledge |
| No | Writer's name | Year | Author Origin | Purpose | Method | Findings |
|----|---------------|------|---------------|---------|--------|----------|
| 12 | Suharto Linuwih | 2019 | Indonesia     | Know the character profiles innovative and creative thinking of students in designing batik design chemical after applying the integrated project learning model of ethno-STEM | Deskriptive qualitative | The learning model developed can increase students' cognitive knowledge, creativity, innovation, and entrepreneurial character |
| 13 | FA Adesoji, NA Omilani, and OA Francis | 2019 | Nigeria       | Explore the predictive value of teacher variable; cultural value, experience and gender and; the location of the school under assessment chemistry teacher awareness of ethnoscientific practice | Descriptive | Teachers experience, gender, cultural values and the location of the school has contributed significantly to the awareness composite chemistry teacher on the technique of ethnoscience |
| 14 | Eko Risdianto, Meli Junia Dinissjah, Nirwana Muhammad Kristiawan | 2020 | Indonesia     | Find effects critical thinking skills after learning with an ethnoscientific-based learning model direct instruction | Quasi-experimental | Application of Ethnoscientific Learning Model based Direct Instruction influence critical thinking skills and motivation of students |
| 15 | David Magolis and Audra Briggs | 2016 | United States of America | Understand student perspective on SNS privacy through the lens of media literacy to design a media literacy curriculum | Literature Review | Students need media literacy education to help differentiate what information is acceptable |
| 16 | Rila Setyaningsih | 2017 | Indonesia     | Describe and understand the media literacy model based on local wisdom in the community | Exploratory research | Media literacy acts require filters in the form of community local wisdom |
| 17 | Donnell Probst | 2017 | California     | Investigate the possibility use social media literacy education as part of individual education plans | Descriptive | There needs to be an interdisciplinary approach to social media literacy as a social and emotional learning intervention for students with autism spectrum disorders, emotions, and behavior |
| 18 | Rafiu Ayinla Suleiman | 2017 | Ghana         | Test influence of social media on student literacy competency | Quantitative data were analyzed using descriptive statistics | Too much time is spent on social media, and this affects their academic performance |
| 19 | Gianna Cappello | 2017 | Italy          | The role of media technology accelerate expansion in audio-visual literacy, media literacy, media literacy education, digital literacy, literacy information, etc. | Literature Review | Digital technology is increasingly attracting public attention, but a range of risks and concerns must be considered |
| No | Writer's name | Year | Author Origin | Purpose | Method | Findings |
|----|---------------|------|---------------|---------|--------|----------|
| 20 | Joelle Nagle  | 2018 | Canada        | Reviews the latest research on social media | Literature Review | Recent research on the use of Twitter in teacher education shows many benefits of using it as an educational tool |
| 21 | Adebayo John Oluwaseye (CLN) & Morenike Kafayat Oyetola | 2018 | Nigeria | Test information literacy skills as a determinant use of social media among students | Survey research | Most of the respondents get information from Google+, Twitter, Facebook, YouTube |
| 22 | Jin-Sik Choi, Young-Suk Lee, Je-Sun Uh, Chul-Jae Choi | 2018 | Korea | Analyze Media Information Literacy level of international students at the K-university | Survey | The curriculum has to educate computer or internet and media information literacy of all students from "underdeveloped countries." must be made |
| 23 | Chidozie E. Nwafor, Jude O. Ezerekana & Cynthia N. Onyejiaka | 2019 | Nigeria | Know where social media and social media literacy | Qualitative | The need to create literacy about the possible consequences that can come with social media |
| 24 | Khoirul Anwar, Fitri Amalia Shintaswi, Ferani Mulianingsih | 2020 | Indonesia | Know the utilization of media literacy by teacher's college and inhibit learning | Qualitative | Teacher trying to adjust to various media update in progress |
| 25 | Stefania Manca, Stefania Bocconi, Benjamin Gleason | 2020 | Italy | Give the “glocal” approach to investigate social media skills through theoretical lens composites based on New Literacy Studies | Literature Review | Most studies consider global social media skills, while only a few have studied the skills that are specific to a social media platform-specific |

**The Origin of the Researcher**

The origin of the authors was obtained from the nationality of the authors in the publication of the analyzed articles. The origin of this author is investigated to find out the distribution of countries that often research-related topics. After knowing which countries constantly research Vlogs, ethnoscience, and social media literacy, the analysis is carried out quantitatively by calculating the percentage of the country's contribution to the three topics discussed.

Based on the 25 articles analyzed, Indonesia was the country that was ranked first out of nine countries on the topics of Vlog and ethnoscience. Authors from Indonesia have 75% for Vlog topics, 67% for ethnoscience topics, and 18% for social media literacy topics. Meanwhile, the other eight countries are Turkey, France, Nigeria, Canada, the United States of America, Italy, Korea, and Ghana. The percentage of authors from each article topic is illustrated in Figure 2.
Indonesia has a high percentage of authors from each topic because these topics are becoming the latest trend among Indonesian people, especially among researchers. Indonesia was ranked first for ethnoscience and Vlog topics. W et al. (2018), originating from Lampung, is evidence from an Indonesian writer on ethnoscience. Research on the same issue was also conducted by Risdianto et al. (2020), Sudarmin et al. (2020), and Adhi et al. (2018). The variety of local wisdom in Indonesia makes it easy for researchers to dig deeper into the cultures that exist in Indonesia to be appointed as research topics and transformed into scientific science.

Meanwhile, social media literacy in Indonesia has the same percentage as Ghana, Nigeria, Italy, and the United States. This is because social media literacy has not been studied too much. Researchers usually focus more on researching digital literacy or only media literacy, such as research conducted by (Setyaningsih, 2017) and (Anwar et al., 2020). The only difference is that in literacy, Setyaningsih (2017) focuses on social media literacy, whereas Anwar et al. (2020) are still general in media literacy. It is different from Setyaningsih and Anwar, Hibra et al., (2019) in Jombang Indonesia was more interested in finding out the feasibility through the Research and Development method. Sari (2018) in Jambi, Indonesia, also researched the topic of Vlogs to increase motivation and self-confidence; (Arumsari et al., 2019) in Surakarta, Indonesia also conducted Vlog research related to motivation and language skills; (Karamina, 2020) in Semarang, Indonesia utilizing Vlog-based learning media on YouTube; (Susanti et al., 2020) in Malang, Indonesia developed Vlog-based ECHA media to increase learning motivation; and (Arga et al., 2019) in Cimahi, West Java, Indonesia compiled Vlog-based teaching materials. Vlogs on YouTube are becoming a trend among the general public, people are not only interested as Vlog viewers, but many are interested in becoming Vloggers. The trending of Vlogs on YouTube makes Vlogs not only interesting among the general public but also among researchers. Some researchers finally make Vlog a topic in their research.

After Indonesia, Nigeria ranks second on the topic of ethnoscience. The authors who write on ethnoscience topics are 33% from Nigeria. As research conducted by Okwara & Upu (2017) shows, the author comes from Nigeria. The same study on ethnoscience was also driven...
by Adesoji et al. (2019), originating from Nigeria. The only difference is that Okwara & Upu (2017) do it in Benue State, while Adesoji et al. (2019) researched Ibadan, Oyo State. Apart from them, Nigeria also studied social media literacy conducted by Oluwaseye & Oyetola (2018) in Ibadan and Nwafor et al. (2016) in Awka, Nigeria.

Several countries are also interested in researching the topics of Vlog, ethnoscience, and social media literacy. Research conducted by Fidan & Debbag (2018) in Bartin, Turkey, assigns students to create a Vlog; Combe & Codreanu (2016) in France, which focuses on the potential use of Vlogs to develop language speaking skills and intercultural exchange between users. Social media literacy is also becoming a trend in other countries such as (Suleiman, 2017) in Ghana; (Cappello, 2017) in Italy; (Choi et al., 2018) in Korea; (Probst, 2017) in California; (Manca et al., 2021) in Italy and USA; (Magolis & Briggs, 2016) in the Bloomsburg United States; and (Nagle, 2018) in London, Ontario, Canada.

Research Purposes

Research objectives are an expression of the goals achieved in a study (Ridha, 2017). Based on the journal review, the writer reveals various purposes according to the target to be completed. The diversity of research objectives was analyzed to find out the similarities and differences in the research objectives of each analyzed article. In each article, the author's purpose of conducting the research is examined more deeply, and from that goal, we can find out how far the contribution of the topic in learning.

Okwara & Upu (2017) showed that a study on ethnoscience aims to determine the ethnoscience learning approach’s effect on students’ achievement and interest in Basic Science and Technology. In line with Ulfa (2019) which describes the effectiveness of ethnoscience-based Learning Implementation Plans (RPP) to increase student interest and learning outcomes in additive material, and Wulandari et al. (2018), who researched to know the effectiveness of learning membrane transport with ethnoscience on cognitive learning outcomes and entrepreneurial interest in high school students. Studies on ethnoscience averages examine the association between ethnoscience variables and other variables such as W et al. (2018), who analyzed the practicality and effectiveness of ethno-based student worksheets with increased student understanding; Risdianto et al. (2020) ethnoscience with critical thinking skills; Sudarmin et al. (2020) with the character of creative and innovative thinking. Meanwhile, Adhi et al. (2018) develop ethnoscience combined with instructional videos. Development carried out by Adhi et al. (2018) is an entry point for the connection between ethnoscience and video. In line with research Sudarmin et al. (2018), which uses the scientific direct instruction model with ethnoscience learning videos, it turns out to increase students’ interest and critical thinking skills. The variety of videos is very varied, one of which is video-blogging (Vlog). So it is interesting if ethnoscience is juxtaposed with Vlog.

Researchers interested in Vlog's topic, mainly development research, develop Vlog as a learning media product. In line with Hibra et al. (2019), a Vlog created a Vlog to determine the feasibility, student responses, and an overview of learning outcomes after using a Vlog. The same thing was done by Susanti et al. (2020), who developed Vlog-based ECHA media to increase learning motivation. Muzacky & Prasetya (2019) also created a vlog learning media with the ADDIE development method to determine differences in student learning outcomes. It is not uncommon for researchers to pair Vlogs with learning motivation. Many studies aimed
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Research Methods

Method analysis is used to determine the methods used by the author in conducting his research, what methods are often used, and the results when applying these methods to the topics discussed. If the method used by the author is known, we can compare one way with another so that it can be concluded that if using this method, the results will be the same. In addition, from one topic to another, the same techniques used by the author in his research were also analyzed. It could be on the topic of Vlogs utilizing this method, but on ethnoscience, you can also use the same process. Findings like this can later be used as a reference in further research.

In a study conducted by Hibra et al. (2019), Vlog was developed using the 4-D Model, namely Define, Design, Develop, and Disseminate. This 4-D model was also carried out by Adhi et al. (2018) in their research, which developed ethnoscience-based learning videos. In line with research Fitriyani & Wiyatmo (2017) also developed Vlog learning media with a 4-D model with research subjects in class X MIPA at SMA N 2 Ngaglik. In contrast to Susanti et al. (2020) research, along with the Lee & Owens development model with data collection techniques used were observation, interviews, material validation, media validation, questionnaires, and tests. Research conducted by Hibra et al. (2019) with Susanti et al. (2020)
both use the research and development method but differ in their use of the model, namely 4-D and Lee & Owens. Lee & Owens' model is a research and development model that uses five stages in its development, namely analysis, design, development, implementation, and evaluation (Santosa & Agustino, 2020).

Research on Vlogs is also researched qualitatively, as did Fidan & Debbag (2018) and Karamina (2020), who conducted a case study using Vlogs. Combe & Codreanu (2016) also do the same thing: describe and analyze informal communication using Vlogs; he uses a qualitative data analysis method based on Computer-Mediated Discourse Analysis. The difference lies in the Computer-Mediated Discourse Analysis. CMDA is developed by adopting techniques from a discipline that focuses on language, especially verbal interactions, and can require qualitative or quantitative analysis (Zhu et al., 2019). Research using qualitative descriptive was also conducted by Arumsari et al. (2019) by presenting statistical data. However, the respondents were selected using a purposive sampling technique. The research object as the primary data in this study was video blogging made by students per group and a questionnaire about learning motivation. Data collection was carried out by observing the video presentation and questionnaire on learning motivation. Apart from R&D and qualitative studies, Vlog has also been researched experimentally like Arga et al. (2019), which used a quasi-experimental method with a non-equivalent pretest-posttest control group design research design.

Okwara & Upu (2017) also conducted a quasi-experimental, non-randomized, pretest, posttest control group design to determine the effect of learning within the ethnoscience approach in Benu State, Nigeria. W et al. (2018) also used the same method to analyze the effectiveness of ethnoscience-based worksheets and Risdianto et al. (2020) to determine the effect of critical thinking skills with a direct instruction-based ethnoscience learning model. Ethnoscience has also been researched descriptively, as did Adesoji et al. (2019).

Besides being suitable for researching ethnoscience topics, qualitative descriptive methods are also widely used to describe social media literacy. In line with research conducted by Nwafor et al. (2016), Probst (2017), and Anwar et al. (2020). There are also many literature review articles on social media literacy, such as articles from Nagle (2018), Magolis & Briggs (2016), Manca et al. (2020), and Cappello (2017). In the literature review, the difference lies in the model used to inform the publication identification process, a description of the eligibility criteria, identification of information sources, the data collection process, data items, and the synthesis of existing results using the PRISMA standard (Preferred Reporting Items for Systematic Review and Meta-Analysis) and some are using a phenomenological research approach.

Research Findings

The findings are the most crucial part, where the findings explain how important the topics are researched. In this section, it is analyzed to find out the results of each article whether the results will have a positive or negative impact. If most articles explain that the results are good, then these topics deserve further research. The results of this study also present in what areas the issue has an impact.

Based on the articles' results and the author's analysis, it was found that interesting Vlogs were developed and declared feasible as educational learning media. Following the research and development carried out by Hibra et al. (2019), Vlog is reported as a learning medium by
experts in terms of material, the feasibility of media aspects consisting of content and quality objectives, teaching quality, and technical quality, response, and learning outcomes students. Arumsari et al. (2019) also stated that 35% of students strongly agreed with the learning motivation questionnaire, and 40% of students agreed, which characterized the existence of a Vlog showing a positive influence as a learning medium. A good response from students to Vlog is directly proportional to the learning motivation of students. Students who give positive answers to Vlogs also show high learning motivation. As a result of this high learning motivation, Arumsari et al. (2019) also explained that students' value of speaking skills was too high. In line with research conducted by Sari (2018) in Jambi, Indonesia; Combe & Codreanu (2016) in France; and Susanti et al. (2020) in Malang, Indonesia.

In addition to having a positive impact on learning motivation and speaking skills, Vlogs' existence as a learning medium helps teachers be more innovative and create a pleasant classroom learning atmosphere (Karamina, 2020). Moreover, incorporating social, cultural, and norms values into it will make Vlogs a learning medium of interest. Learning with cultural values in it is called ethnoscience integrated learning. Researchers from Nigeria by Okwara & Upu (2017) stated that students who were taught using the ethnoscience learning approach scored higher in posttest average achievement scores than students conducted using conventional teaching methods. Lampung W et al. (2018) found that the experimental class got an N-gain score of 0.60 or was in the moderate improvement category, while the control class got an N-gain score of 0.34 or lower improvement. The higher N-gain value of the experimental study indicates a positive impact on learning with ethnoscience. Ethnoscience learning can improve students' conceptual understanding. Suppose students can understand the concept of the material. In that case, students' thinking skills will also increase, especially critical, creative, innovative, and entrepreneurial character. In line with Sudarmin, Sumarni, & Mursiti (2019), the application of the integrated STEM approach to essential oil ethnoscience gave a positive response. They were able to improve student learning outcomes and experiences.

However, Adesoji et al. (2019) showed that teachers' awareness of ethnoscience practices in their teaching area is below expectations because it offers an average score (60.34). Even though a synergistic learning process with today's developments is very much needed (Reffiane et al., 2020). There needs to be an attitude that can make teachers aware of the importance of culture in learning. Setyaningsih (2017) combines media literacy with local wisdom, and he hopes that local wisdom in the local area is better known with media literacy. Thus, the media's role in learning is no longer essential but has become a necessity. So media literacy, especially social media, needs to be improved again. In line with the research of Anwar et al. (2020) that digital media technology has great potential to support the implementation of learning in responding to today's challenges. Schools need to adjust to the development of their digital media technology. This is because digital technology is increasingly attracting tremendous public attention, contributing to strengthening and strengthening media literacy in schools and other educational settings. However, the risks from the media also need to be considered. Thus, social media literacy is indeed critical to be re-examined.

From the analysis of the 25 articles above, there are exciting findings that need to be further developed in a study. Vlogs that we usually watch on YouTube can be developed into a learning medium, and several studies have stated that the media is suitable for use as a learning medium. In addition, Vlogs also positively impact student development, ranging from increased
learning motivation to skills. Vlogs can also foster a pleasant atmosphere in the classroom and help teachers be more innovative in designing learning activities. If Vlog has collaborated with ethnoscience, it will become a learning media that attract students' attention and the general public. This Vlog with ethnoscience, if uploaded to social media, can be a way of publishing local wisdom and a medium of learning. This can also suppress harmful content on social media by bringing up positive content such as this Vlog with ethnoscience. Therefore, developing Vlogs as learning media with collaboration between ethnoscience and social media literacy is essential.

**Conclusion**

Based on the systematic review conducted, it can be concluded that (1) Indonesia was the country that was ranked first out of nine countries on the topics of Vlog by 75% and ethnoscience topics by 67%, (2) the research aims are on average testing, find and develop these topics with other variables, (3) the research methods used also vary, including descriptive qualitative, quasi-experimental, exploratory, survey, literature review, and R&D, (4) The findings show that these topics are interesting for research because it has a positive effect on learning, increases learning motivation, self-confidence, speaking skills, understanding concepts, and critical thinking skills, innovative, creative to the entrepreneurial character. However, apart from giving positive results, research on these topics also negatively impacts, so it is imperative to do further research. This research is essential because Vlog has not been widely used in learning, so the findings of this research will add to the role of Vlog in learning. Ethnoscience in the form of a Vlog is also interesting because it has a fun and cultural insight. Social media literacy has not been widely studied, so it needs further study. Thus this research will play a role in adding to the importance of Vlog, ethnoscience, and social media literacy in learning science in the era of the industrial revolution 4.0.

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