Abstract

This research was based on construction of the learning society in the face of global competition for batik craftsmen in small and medium enterprises (SME's) industrial sector of batik in Indonesia. Formation of the learning society was important to do, so that the important work of batik design experienced no piracy and extinct both from the design side as well as craftsmen. With regard to the phenomenon the purpose of the research is finding important the determinant factors in order to shaping the learning society, which becomes the container for batik craftsmen to get recognition of batik designs, as well as the competence of the profession. There were three factors that affect the formation of the learning society for batik craftsmen namely adult learning in an era of competition, the adult’s performance in the era of competition and universal design. In this study, the influence of these three factors that affect the learning society would be observed. The results of this research show that batik craftsmen build their knowledge and skill to form their performance before, construct learning society, while another batik craftsmen used their expertise to form their performance before construct learning society.

Keywords: Learning Society; Adults Learning Character; Universal Design Character; Adults Performance.

1. Introduction

Learning society in global competition era has become a form which expected to have the ability to cope with the rapid changes in the environment [2-3, 16] caused by international trade, widespread utilization of technology and information generates that is increasingly accessible [3]. The phenomena of environmental change will encourage the formation of learning society, so leveraged to economic growth of a country which characterized by global competition to reach the market through the performance of a unique competence that owned by individuals and organizations [27-28]. According to [53], learning society is a device that utilized to anticipate society's developmental needs in the face of environmental changes [13, 21], marked by the emergence of freedom of society to cultivate knowledge freely through a form of education that does not refer to or administered by an institution [22, 48].

The framework of the learning society in an environment that changes quickly has declared by [12, 47], which states that the learning society is directed towards the vehicle in order to increase economic growth (growth), creating competitiveness (competitiveness), as well as expanding employment (employment). Based on the framework of learning society developed by [12, 47], then the learning society to be a vehicle, to develop a learning community as a structured and continuous lifelong education called [3, 27] which characterized by each individual should continue to implement the learning process freely without restrictions in order to face the challenges of competition, as well as the entire party and groups in society is becoming of offender education whether in individual or group work [27, 29, 42].

The main obstacle in constructing the learning society, primarily in the developing country is an effort to set the qualifying results of the learning process [45, 54] because for this community was fond of learning is a form of lifelong learning development is universally [16, 53]. The phenomenon of applying the results of the study became a recognized form, looks on as a group called batik craftsmen. The batik craftsmen are the individual who under-takes the design activities started from making of the pattern to the batik cloth that are ready to be utilized. Batik craftsmen is essentially already having the ability to carry out the activity of design, but do not yet have the recognition as the profession of making batik.

Batik craftsmen generally carry out activities in batik to meet the necessities of life, so this factor becomes the starting point of the occurrence of the hijacking and the acquisition of good design as well as batik resource, so that in the future the batik craftsmen became extinct. This phenomenon should get the attention of the principals in the batik industry, especially the Government and owners of small and medium enterprises (SME's) sector of batik. Profile of batik SME's in Indonesia currently has 50,000 units spread across Indonesia, which is able to absorb the workforce as much as 199,444 people in batik, but only about 72 business units who have had patent batik design or Batik MARK of about 6000 professionals spread across Java and Madura [41, 57]. Batik Mark is certificate that indicating identity of Indonesia-made batik [41], while batik craftsmen who have certificates of the profession as a batik craftsmen aggregating 1.906 people or just 0.95%.

Batik craftsmen especially the Government and owners of small and medium enterprises (SME’s) sector of batik.

The low number of batik artisans who certified, with regard to the characteristics of the activity of making batik should recognize the cultural character of the first [57], a technology that is simple, so time to make batik is especially long, as well as the existence of a presumption that the work is not the only profession batik business side [41]. The other barriers that inhibit batik to get certification is the cost, time, policies as well as the nature of certification because the granting of certification just touch to the standard.
operation procedure of batik activities, has stressed to the characteris-
tics and ways to generate a particular motif of batik.
Pay attention to a number of obstacles faced by batik craftsmen
to empower batik job to be a profession, where the largest number of
batik craftsmen is in their late maturity, hence the need to leverage the
awareness of batik craftsmen to build a learning society that has
characteristics are able to establish co-operation between educa-
tional institutions, government and non-governmental organiza-
tions in order to open up employment, improve competitiveness
and provide social equality to the perpetrators in the batik industry
sector [16, 53]. An important pillar of the note is the performance of
the profession building [6, 28] through the process of lifelong
learning [3], which influenced by the characteristics of the design
[19] batik on based local wisdom in order to face global competi-
tion.

Evocative attempt to build the learning society for batik crafts-
men, then on this research is directed to review the factors to build
the learning society on the design of batik which is influenced by
three factors namely forming a batik-performance design activity
execute helpless competitiveness [5, 8], the adult learning process
in the era of the influ [25] as well as the learning object be char-
acterizing the design in an era of competing [10, 18, 37]. Based on
the statement the focus of this study observed relationship of in-
fluential factors for constructing the learning society in the field of
design for batik craftsmen, which influenced by the performance
characteristics of lifelong learning, and the characteristics of the
design.

The end result of this research are analysis and synthesis of the
influence of factors, that a used to build the learning society in the
field of design for batik craftsmen. This study observed a relation-
ship between design behavior of batik craftsmen, batik craftsmen
learning behavior and performance of batik craftsmen to build the
learning society in the field of design for batik, which spelled out
as follows:
a. analyse the influence behaviours design characteristic of
batik craftsmen, against the formation of the learning society.
b. analyse the influence behaviours design characteristic designs
of batik craftsmen, against learning characteristics of batik
craftsmen.
c. analyse the influence behaviours design characteristic designs
of batik craftsmen, against learning characteristics of batik
craftsmen.
d. analyse the influence batik craftsmen learning characteristics
batik, towards the learning society.
e. analyse the influence batik craftsmen learning characteristic,
towards batik craftsmen performance.
f. analyse the influence of batik craftsmen performance, against
the learning society in the field of design.

2. Literature Review

2.1. The Learning Society

On this research, learning society described as groups of people
who seek to exploit culture as knowledge in order to face the
competition with the aim of improving the competence (compe-
tence in the field of design for batik craftsmen). This definition is
in line with that expressed by [12, 16, 28, 35, 48] where culture is
used as a structure, approaches and technologies in order to create
a unique knowledge which was recognized as a profession or ex-
pertise by an agency, so it shows a typical competitiveness of a
society as well as the society expected, able to manage a growing
knowledge on an ongoing basis to improve the extent of their lives.
On the study, ignorance and poverty did not become a major dis-
cussion as put forth by [22] because is worthy in order to build
motivation in an era of competing, so that society changed from
behaving learning to know and learning to be, shifted to be live
together and learning how to learn as expressed by UNESCO in
[12] as a principle of human learning Excel in 21st century from
the perspective of an adult.

2.2. Lifelong Learning

Lifelong learning has become the heart of the formation of the
learning society, so in [12] developed stated that the learning is the
development of lifelong learning, which are developed according to
the needs of individuals as well as to groups he changes the
environment through a comprehensive and holistic learning. The
definition of lifelong learning along with the development of the
learning society, in its development led to the mastery of the
knowledge to establish professionalism, in order to face the
changes of the social environment and economics [2, 35-36, 51].
Experts in the field of lifelong learning, by this time divided into
two major groups namely (a) The expert on lifelong learning,
which supports that lifelong learning is an attempt to master a
certain competence on environmental change, as well as learning
to live independently with a smart way including [26, 44] and (b)
the expert field of lifelong learning that is structured in an attempt
to form a human being becomes a valuable investment, in the form
of creations that are flexible and capable of being accepted in
different environmental conditions of work including [2, 25, 40].

2.3. Adults Learning

Regard with lifelong learning, in [55] suggests the results of learn-
ing in the 21st century that characterized by increased capacity
independently and continuously in order to complement the pillars
of education as well as on the development of community living
patterns changing into a competition [20], in order to generate a
unique value works [4] by the way, apply and enhance knowledge
and skills, both utilizing the wisdom of local, national, and inter-
national. This thinking changes the structure of public education,
according to the lifelong education of (1946-1970), to lifelong
which was conceived by [11]. Looking at the importance of con-
tinuous learning in the community in order to build the learning
society, then worthy of note as the cutting edge design to produce
excellence, especially in the batik industry that batik craftsmen
generally is adults who already have a responsibility in doing the
design so that characterize the identity of a nation [27, 52] as well
as sociological where batik craftsmen into the backbone [55] in
order to uplift the dignity and the degree of a society in the form
of batik designs carry out, so that it becomes a product superior to
the then noteworthy characteristics of adult learning in the era of
competition namely explorer, reflexive, self-actualizing agent, and
integrators such as expressed by [38].

2.4. Adults Performance

Notice that the keyword on the performance, demonstrated by the
ability of the work then in adults working ability demonstrated by
efforts to address the risk of appearing on the environment and the
good life on the present, nor things to come, in the form of com-
petitive environment, it is in line with the thinking of [4, 15],
while building a toughness through the independence to work by
way of harnessing the potential of knowledge and skills that are in
line with research owned [14] as well as having the vision that
learning as an ongoing process, in an effort to cope with the
changes in the social and economic environment, it is in line with
the thinking and research to [15]. Pay attention to the meaning of
performance, on the research performance of the adult is defined
as the effort faced an environment of competition by way of dig-
ging the potential knowledge, and skills through learning on an
ongoing basis, in order to develop the independence, either an
individual or a group.

2.5. Design Concept

The design principle is the activities related to the planning of a
design, in which the results will be tangible image, next image is
relied upon to form the actual form. With regard to planning activ-
ities according to [33], important to note the elements of the de-
sign are as follows: (a) balance that design elements that set up
every part of the image or the product, so that its parts seem balanced, (b) unity/harmony, design elements that indicate that the whole picture is a unity, as well as meaningful, (c) hierarchy design element capable of carrying observers enjoy the entire form and imagine a colors of the smallest thing to the most important (d) scale/proportion design element shows a comparison of the shape or color of a proportionate, (e) dominance design elements of the show, the designer, who represented interests against the expression of shapes and colors shown, (f) Designer elements Contrast shows the difference in shapes and colors. Design principles expressed by [33], focus more on design as mere products, while it is important to note that the design of the need to look at the needs of the consumer, if the end product want to compete on the market. With regard to the phenomenon of research, in line with that expressed by [37, 56], where there are four design characteristics, which affect the design, based on the needs of the average user is an adult, that the design must accommodate the elements supportive, adaptable, accessible, and safe.

3. Methodology

This research utilizes a quantitative method which consists of six steps, as expressed by [9] namely makes the design research, determine the respondent, determines the number of samples, making the research instrument, making hypotheses, and perform testing data. Numerical calculation to test the relationship between the design of the behavior learning of batik craftsmen and performance of people fond of study, utilized SMART PLS version 3.0 software.

3.1. Research Design

Relationship between batik craftsmen design (X2) as design characteristics, batik craftsmen learning (X1) as adult learning, batik craftsmen performance (Y) as adult performance, and learning society (Z), is modeled described as follows:

![Diagram](image_url)

**Fig 1:** Learning society model in design field for batik craftsmen

3.2. Respondent

The respondent was batik craftsmen in batik Garut town of SME's in West Java Indonesia. Batik craftsmen has been approached in the age of late maturity, as well as typical products batik is made in the town of Garut, made by batik craftsmen live in Garut, a company based in the city of Garut, as well as the design of the batik originated from the city of Garut which totaled 34 batik design.

3.3. Sample

The number of samples of SME's be observation was of a population by as much as 8 contained in the city of Garut, while the number of batik craftsmen that became respondents is as many as 30 people. Determination of the total sample of respondents and SME's batik and amount of batik craftsmen, done using the formula on [46] with an estimated error rate of 5%.

3.4. Hypothesis

Based on the framework of the model presented in Figure 1, then the next step it can formulate the hypothesis, which outlines its efforts to answer the questions of research, with attention to the relationships between the factors of learning, community building, which is outlined as follows:

3.4.1. Batik Craftsman Design Characteristics (X2)

- a. The influence of batik craftsmen design (X2) to adult performance (Y).
- b. The influence of batik craftsmen design (X2) to learning society (Z).
- c. The influence of batik craftsmen design (X2) to adult learning (X1).

3.4.2. The Influence of Batik Craftsman Learning (X1)

- a. The influence of batik craftsmen learning (X1) to learning society (Z).
- b. The influence of batik craftsmen learning (X1) to adult performance (Y).
- c. The influence of batik craftsmen learning (X1) to adult learning (X1).

3.4.3. The Influence of batik craftsmen Performance (Y) to Learning Society (Z)

- a. The influence of batik craftsmen performance (Y) to adult learning (X1).
- b. The influence of batik craftsmen performance (Y) to learning society (Z).
- c. The influence of batik craftsmen performance (Y) to adult performance (Y).

3.4.4. Testing

Testing is done using SMART PLS Version 3, through the stages of testing validity and reliability, as well as estimation of the T test [24], who then conducted the discussion.
4. Results and Analysis

Testing conducted into three stages, starting with model describe the relationships between factors, learning society in fields like batik design. Both stages are done testing the validity and reliability, as well as ending with the determination of the influence between factors with T test.

4.1. Diagram Model

First step before data execute by SMART PLS version 3.0 software was transformed model of construction learning society in design field for batik craftsmen as described in Fig. 1, to be a diagram model which suitable with the software, as described in Fig. 2.

4.2. Validity and Reliability Testing

Based on average variance extracted (AVE) test results obtained from the SMART PLS version 3.0, obtained information that invalid constructs from models each have an AVE score exceeding 0.5 [7, 24], the condition explained that the relationships invalid constructs, have a high correlation, deserves to be used as a model in research. The results are presented in Table 1.

<table>
<thead>
<tr>
<th>Construct</th>
<th>Average Variance Extracted (AVE)</th>
</tr>
</thead>
<tbody>
<tr>
<td>X1</td>
<td>0.548</td>
</tr>
<tr>
<td>X2</td>
<td>0.585</td>
</tr>
<tr>
<td>Y</td>
<td>0.627</td>
</tr>
<tr>
<td>Z</td>
<td>0.627</td>
</tr>
</tbody>
</table>

In this study, the indicators used for measure, a statement of the twenty-five respondents. In order to obtain the reliability of any invalid constructs, using the parameters Cronbach’s and alpha compositing reliability. According to [7, 24], an invalid constructs have the component indicators with high consistency, if has the value score Cronbach’s alpha is greater than 0.6 and composite reliability greater than 0.7. The test results are invalid constructs a model on this research are presented in Table 2.

<table>
<thead>
<tr>
<th>Construct</th>
<th>Cronbach’s Alpha</th>
<th>Composite Reliability</th>
</tr>
</thead>
<tbody>
<tr>
<td>X1</td>
<td>0.874</td>
<td>0.909</td>
</tr>
<tr>
<td>X2</td>
<td>0.837</td>
<td>0.881</td>
</tr>
<tr>
<td>Y</td>
<td>0.902</td>
<td>0.916</td>
</tr>
<tr>
<td>Z</td>
<td>0.699</td>
<td>0.828</td>
</tr>
</tbody>
</table>

4.3. T Statistic

Structural model testing in this research aimed to influence interbank invalid constructs found in research. Influence of testing obtained from the SMART PLS version 3.0 with the parameters presented in Table 3.

<table>
<thead>
<tr>
<th>Path</th>
<th>T Statistics</th>
</tr>
</thead>
<tbody>
<tr>
<td>X1 → Y</td>
<td>2.726</td>
</tr>
<tr>
<td>X1 → Z</td>
<td>0.502</td>
</tr>
<tr>
<td>X2 → X1</td>
<td>22.755</td>
</tr>
<tr>
<td>X2 → Y</td>
<td>2.173</td>
</tr>
<tr>
<td>X2 → Z</td>
<td>1.266</td>
</tr>
<tr>
<td>Y → Z</td>
<td>1.818</td>
</tr>
</tbody>
</table>

On Table 3 presented information regarding test results of T statistics, showing the influence between invalid constructs in the model of learning society in the field of design for batik craftsmen. The results of subsequent statistical T confirmed to hypothesis, which numbered as many as six hypotheses, in order to determine the influence between invalid constructs that became the characteristics of learning batik observations (X1), batik design characteristics (X2), performance of batik (Y), as well as the public fond of learning design field (Z), as presented in Table 4.

<table>
<thead>
<tr>
<th>Hypothesis</th>
<th>Tcom</th>
<th>Tref</th>
<th>Decision</th>
<th>Conclusion</th>
</tr>
</thead>
<tbody>
<tr>
<td>X2 → Z</td>
<td>1.266</td>
<td>1.960</td>
<td>Accepted</td>
<td>Accepted</td>
</tr>
<tr>
<td>X2 → X1</td>
<td>22.76</td>
<td>1.960</td>
<td>Supported</td>
<td>Supported</td>
</tr>
<tr>
<td>X2 → Y</td>
<td>2.173</td>
<td>1.960</td>
<td>Supported</td>
<td>Supported</td>
</tr>
<tr>
<td>X1 → Z</td>
<td>0.502</td>
<td>1.960</td>
<td>Accepted</td>
<td>Unsupported</td>
</tr>
<tr>
<td>X1 → Y</td>
<td>2.726</td>
<td>1.960</td>
<td>Accepted</td>
<td>Supported</td>
</tr>
<tr>
<td>Y → Z</td>
<td>1.818</td>
<td>1.960</td>
<td>Accepted</td>
<td>Unsupported</td>
</tr>
</tbody>
</table>

5. Discussion

The discussion is carried out through three divisions namely the influence of the batik craftsmen design characteristics (X2), influence the batik craftsmen learning (X1), and the influence of batik craftsmen performance to the formation of the learning society in the field of design, with attention to the results of the test T statistics results presented on Table 4.

5.1. The Effect of Batik Craftsmen Design Characteristics (X2)

The T test statistic presented in Table 4, showing that in this study the batik craftsmen design characteristics is the key to building the public fond of learning expressed by [2, 35] does not give a huge effect demonstrated by Tcom < Tref (1.266 < 1.960), generally for batik craftsmen. Batik artisans on this research, not to pay attention to aspects of design characteristics, in order to form the learning society, as a tool used to compete in the global market, the evidenced by the magnitude of the composition of the motivation of batik, obtained from observations in field more to preserve the culture of batik value 48%, while the requirement that the design became a profession only value 24%. Another aspect character design factors not affect, against the formation of the learning society in the field of design, for batik craftsmen is a problem faced by SMEs, dominated by the scarcity of human resources of batik craftsmen according to field observation data as much as 31%. This condition is inverted with [17, 51] which states that human resource is a dominant factor in building the learning society than marketing, place and capital.

The results of the T test statistic in Table 4, signed that the conditions invalid batik craftsmen design characteristics (X2) against batik craftsmen performance (Y), showed Tcom < Tref (22.76 > 1.960), confirmed that the behavior of batik craftsmen utilizing design, gives influence to the formation batik craftsmen performance in the face of the competition era that in line with the research conducted by [26, 56], in which the character designs in
batik after have tended to show the results of batik as a work, de-
serving of appreciation from the other party. These conditions show that batik craftsmen has had motivation to make batik design as a profession, where the motivation to make batik design activities as a profession, according to data from observation field is 24%, and the need for the recognition of batik as a profession, based on the observations in field was 80%, so batik has actually had the awareness to make the character designs that have been owned to get recognition from the community of batik, consumers and governments, in order to face global competition.

On the study of knowledge and skills in an effort to focus on im-
plementing the design into character behavior in batik designing for batik [42], to raise the motivation of getting recognition of batik as a profession in the face of the competition era, so im-
portant for batik craftsmen to adopt adult learning character to face the era of competing [2, 36, 43, 51]. Hypothesis testing using T statistics presented in Table 4, showing that the influence of the batik craftsmen design characteristics statistic against the batik craftsmen learning have a value Thit > Tref (22.76 > 1.960), giving the sense that batik craftsmen has had the awareness to unearth the knowledge and skills of batik design activities, through the process of learning in the working place to get unique batik design character, in accordance with the statement of [2, 36, 51], which suggests that the character designs in adults should be a reference to form the learning process in carrying out the activity of design.

5.2. The Effect of Batik Craftsmen Learning (X1)

In order to see the effects of batik craftsmen learning to learning society in design field for batik craftsmen, T statistics evaluated (Table 4) against model had been built. The test results showed that the batik craftsmen learning do not affect significantly to the learning society in design field for batik craftsmen, from Table 4 was show that the T statistic Tcom under of Tref (1.96 < 0.502), this Value indicates that the learning outcomes of adults in com-
petition era do not give significant impact, against the efforts of the formation of the learning society [49-50].

The influence of batik craftsmen learning to batik craftsmen performance in Table 4 shows that the value of Tcom = 2.726 is greater than the value of Tref = 1.96. The results show that batik craftsmen use of batik learning as a vehicle to establish the moti-
vation of overachievers to get recognition as a profession, batik work, this is in line with the opinion of the [1, 32, 34], which stated that the orientation of adult learning intended to get a certain party of accomplishment. After getting a profession, then the next profession was used as a device to form a learning community, as well as a reference that gives confidence and getting recognition from society, that Batik is a work that gave the assurance in the era of globalization.

5.3. The Effect of Batik Craftsmen Performance (Y)

The results of the test statistic T structure analysis on model, are presented in Table 4 show that batik craftsmen performance no significant effect against the Z learning society in design field for batik craftsmen value of Tcom smaller than the Tref (1.818 < 1.960). These conditions show that batik craftsmen is not showed unequivocally, a good motivations and the recognition of the pro-
fession, there is a measure that can be used to form a learning society, because on learning society batik craftsmen must continu-
ously develop awareness study [2, 30], as well as raising the standard of design activities [39, 50], this condition is clearly visible from the observations in field, that batik craftsmen in batik who has experience of more than 33 years of as much as 20%, which has an average elementary school education as much as 47.5%, and has had the ability to do a batik designer independent-
ly and ask for Batik young novice or experiences. This phenome-
on is consistent with research conducted by [23, 25, 31], which States that the performance of adults are not the only variables that are able to be the device to form a learning community, however they looked at, that the profession is a device that is capable of tilting them globally to compete independently.

6. Conclusion

This research has found that both factors in batik craftsmen design characteristics, batik craftsmen learning, and batik craftsmen performance do not affect directly against the formation of a learning society. Batik craftsmen who already have expertise, in the knowledge and skills regarding unique design of batik Garut, tend to get recognition in the form of the profession to make batik from the global environment, and yet have the awareness to transfer knowledge and skills through a container that is referred to as learning society. Batik beginners tend to dig into the knowledge and skills of batik design pattern, first motivate to get professional recognition to make batik. Batik craftsmen who have expertise and novice, don’t have the awareness to change batik profession to meet the necessities of life, become a profession which is used as a means to compete in the era of global change, including the activity of making batik from fulfilling the needs of life, become a professional instructor special characteristic batik design, capable of providing certainty in individuals, or groups to have a knowledge and skill to make unique batik character.

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