

# the Role of Marketing Intelligence and Marketing Architecture Based Technology Assist in the Development of Business on the Msmes Maount Bromo Probolinggo in East Java

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## THE ROLE OF MARKETING INTELLIGENCE AND MARKETING ARCHITECTURE BASED TECHNOLOGY ASSIST IN THE DEVELOPMENT OF BUSINESS ON THE MSMES MAOUNT BROMO PROBOLINGGO IN EAST JAVA

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**Abstract.** This research aims to provide a paradigm change business players in order to develop business in the manage with the help of a smart marketing and design technology sophisticated pengolaan governance and business can be developed with good, and can increase community economic welfare levels in the vicinity of micro and small and medium enterprises Mount Bromo Probolinggo East Java, empirically the economy in and around micro and small and medium enterprises probolinggo is still not optimal and the support of the government also has not been maximum attempts to help businesses on micro and small and medium enterprises around Gunung Bromo Probolinggo. Researchers attempting to help to resolve the problems of the economy in and around Mount Bromo by trying to examine the variables related to the smartphone technology-based marketing and technology based marketing design also in order to help the micro and small and medium enterprises can solve problems usahannya that there are still many obstacles. Researchers took samples around 100 people merchants who have micro and small and medium enterprises Business around Mount Bromo and using the methods of quantitative analysis and using the appliance AMOUS SAM analysis and location already determined around Mount Bromo, from a ) is expected to found a positive result against the business development of micro and small and medium enterprises and can help the sales profit level and can improve the level of technology used by entrepreneurs and increase the level of community welfare micro and small and medium enterprises Mount Bromo Probolinggo in East Java.

**Key Word :** *Marketing Intelligence, Marketing Achitecture, Business Development*

### I. INTRODUCTION

Emergence of competition in the world of business is something that cannot be avoided. With the competition, the company - the company is faced with many opportunities and threats both from outside and from within the land. For that each company is required to always understand and understand what is happening in the market and what are the customer desire, and various changes in the business environment that is able to compete with other companies. The company should try to minimise the weakness of its weakness and maximize the strength he possessed. Thus the company is required to be able to select and specify the strategies that can be used to facing competition.

Small and Medium Enterprises (MSMES) holding a very large role in promoting the Indonesian economy. except as one of the alternative new jobs, micro and small and medium enterprises also plays a role in encouraging economic growth rate after the crisis nmoneter 1997 at the big companies have difficulties in developing its business. this time, micro and small and medium enterprises have contributed to large on regional income

and the income of the Indonesian state. Msmes is a form of the small business community that its establishment based on the initiative someone. most people assume that micro and small and medium enterprises menguntungkan only certain parties only. micro and small and medium enterprises have a very important role in reducing the level of unemployment in Indonesia. micro and small and medium enterprises can absorb many of Indonesian workers who are still menganggur. Besides micro and small and medium enterprises have contributed to large on regional income and the income of the Indonesian state. Micro and Small Business grow in Indonesia, when monetary crisis extends to multi-dimensional crisis that befell Indonesia since 1997. This crisis turns to motivate the growth of the small business sector which is growing absorb manpower and further strengthen the innovations in the development of small businesses. This can be seen through the development of micro and small and medium enterprises throughout the year 2011 proved to be able to contribute to the formation of the GDP of 57,60%. Details as follows, 32,02% by Micro, some 10,99% by small businesses and a number of 14,59% by Medium Businesses. The average value of the formation of the GDP by MSMES Rp 24.8 million per business unit. Msmes are able to recruit new labor as much as 2,32 million people, or

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equivalent with 97,8 percent of new jobs created by the micro and small and medium enterprises and big business in 2011. The absorption of new labor is done by the Micro, amount 1.94 million people, including employ himself. Small businesses are able to absorb new labor as much as 292.000 people. (MSMES build the economy, 2013) the number of economic growth in East Java which is quite fantastic reached to 125 hkd per cent at the end of the 2012 didongkrak by MSME sector (micro small and medium enterprises). Even from the PDRB East Java capable of reaching up 1.000 triliun, by 54 per cent obtained from 4.2 million micro and small and medium enterprises and growing in East Java.(MSMES determine the success of the Governor and Vice Governor of East Java,2013) where indicated in the picture below : Picture 1.1 percentage of economic growth of micro and small and medium enterprises East Java.

In addition in 2011 there 783.758 business unit, or rose 5,53 percent compared to the year 2010. From that number, 766.783 business unit or 97,83 percent of whom is a small industry. Meanwhile the number of medium industry as much as 16.182 business unit (2.07 percent) and large industries 793 unit (0.10%).(IKM role in the Economic Development in East Java,2012). In a reliable entrepreneurs of course there are various support to become an entrepreneurs, one of which is a member of the family, as Shinta Widjaja Kamdani in group synthesis. The time is still to come in the company of the family, he supported by the supervisor expatriates who very professional (is nothing

other than his father). Where in running the business which he claimed to be able to do all the case itself and to become independent in doing business, besides that Shinta also received support from the Father through the education of education hard. And the things that make Shinta is able to survive in running the family business. And get many challenges Shinta finally succeeded in managing the group Synthesis in developing its business with does not perform one downloading show. Where it is proved that an entrepreneur has the support from her parents. Image of MSMES are not being tended by the reign of Probolinggo district as follows :

Picture : business players in the Mount Bromo Probolinggo

Information Technology that is developed is currently used not only for the daily transactions of the organization but also to support the competitive advantages especially in making marketing strategy. Information Technology to support the marketing strategy one is business intelligence. Marketing intelligence in marketing strategies used to answer the questions of top management and provide the facts that there is good organization sites internal environment and external environment. Marketing intelligence are the link between the information system and top management. Some of the supporting components of business intelligence among other financial intelligence, management intelligence, marketing intelligence, accounting intelligence, etc. (Aaker, 2007). Then from the research Henard and Szymanski (2001,p.374) namely how





companies in the design and implementation of process products that have excellence and how the influence of successful product of marketing performance to fill needs by reassignment. Different views will be how the orientation of the company on innovation is built through market orientation strategy, to achieve the success of new products can dilihal from the performance of the market as a competitive advantage.

Marketing strategy Intelligence to enter a market is planned to provide goods or services to target new markets and the spread of them there. When importing or exporting services, refers to establish and manage the contract in a foreign country. Only a few companies that have successfully operates in the niche market without ever do expansion to new markets but most businesses achieve increased sales, brand awareness and business stability with entering new markets. Develop a strategy into the market a win-win involve in-depth analysis about some factors, sequentially planned.

In marketing intelligence system is part of the marketing information system and are closely linked to the system of the internal notes of the company and marketing research. Kotler 2012, defines the marketing intelligence system as a set of procedures and resources used by the managers to get daily information about the developments related to the marketing environment. This information can be derived from the company itself, consultants marketing research, advertising bureau, suppliers, customers and even competitors. Market than mothers is part of the marketing information system and are closely linked to the system of the internal notes of the company and marketing research. The information can be derived from the company itself, consultants marketing research, advertising bureau, suppliers, customers and even competitors. Marketing intelligence has many used professionally as a tool for diplomacy by companies that compete. The competition became the basis of the development of marketing intelligence, both national and global. Decrease the efficiency and the inability of the company to get the spider is the indicator to collect a marketing intelligence. This Intelligence Market system company to see the position of the competition in the business of a kind, as well as determining the position of our company compared with other companies that are of a kind. Rersearch Gap according to Chen 2010 Chen and Das 2010 Chung et al 2011 that occurred on the Market intelligence is the assumption that business will be able to easily integrate these activities with the existing business process. There is little recognition that is given to the creative businessmen to overcome difficulties faced by Business every day to manage the sales volume and can improve the information flow into and out of their business. The literature recognizes the importance of the collection of this information for effective business decisions.

Sivaramakrishnan et al 2010 , Marketing Intelligence is considered related to technology-based data collection system used by a business to gather information. The Web 2.0 platform that is described as being very useful in the process of collecting information. The literature highlighted the growth in the desire to have the intelligence business is used as a term that only refers to the data collection through technology. The Benefits of effective business intelligence practices can be seen: Prevent cycles lost better control increase revenues to maintain the client better understand the capacity of the organization and the ability to provide early warning system. Muylle, (2012) in the research said that the marketing arhcitecture in competitive competition requires the banks to better understand the external environment its business in competing with the other banks, besides in this research emphasizes the superiority of information in determining the strategy as the competitive advantage on Perbankan party that have the ability to analyze these factors competition in providing decision making strategies to anticipate compete using a marketing approach architecture in the competition and can improve marketing performance.

Micro and small and medium enterprises in Bromo Probolinggo very poor by fenomenologi that MSMEs there many are not noted by the regional government Probolinggo though many that have not yet been able to develop micro and small and medium enterprises one with the other so that happened penurunnya welfare levels and the economy and the revelation of the unemployment rate around the regency of Bromo Probolinggo, proven many residents who do not work and there is no income every day so that this will need to be assisted with by researchers to facilitate the level of economy, so that the population can develop micro and small and medium enterprises in and around Bromo Probolinggo. So the author want to reveal the problem of the role of Marketing and Marketing Architeture Intellence technology based in helping business development on the micro and small and medium enterprises Mount Bromo Probolinggo in JawaTimur.

#### A. The Benefits of Research

Is useful to provide a paradigm change creative businessmen in order to develop business in the manage with the help of a smart marketing and design technology sophisticated pengolaan governance and business can be developed with good, and can meningkatakan community economic welfare levels in the vicinity of micro and small and medium enterprises Mount Bromo Probolinggo East Java, empirically the economy in and around micro and small and medium enterprises probolinggo is still not optimal and the support of the government also has not been maximum attempts to help businesses on micro and small and medium enterprises around Gunung Bromo Probolinggo. Researchers attempting to help to resolve the problems of the economy in and around Mount Bromo by trying to examine the variables related to the smartphone technology-based marketing and technology-based

marketing design also in order to help the Micro and small and medium enterprises can solve problems business that there are still many obstacles

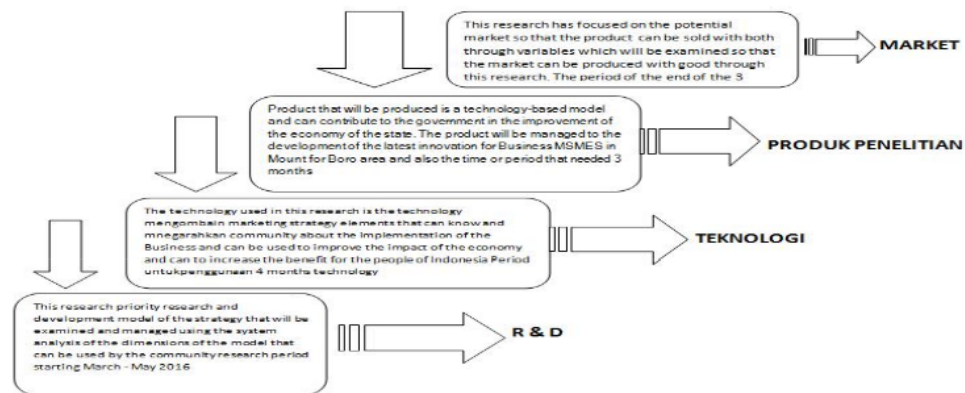
## II. LITERATURE

Marketing Intelligence is acquiring process and analyze the information to understand market potential customers and which still exist), the attitudes and behavior of the market and to access changes in the business environment or in other words marketing intelligence is the ability to understand and analyze and assess the internal and external environment related to the consumers, competition, the market and the industry to support the decision making process (Aaker, 2007). Some of the reasons why the organization requires the system of marketing intelligence is the organization has little contact with customers, organization needs to know the behavior of

### A. Previous research

Grunert, 2000 that marketing intelligence can affect the marketing performance due to the company to get the competitive advantage must have individuals who exhibit competence in marketing intelligence is high in this case is one of the competencies which can support the marketing performance and allows a high level of sales growth as the former dominant marketing performance. Jochen research fries disc, (2006) said that the Marketing Architecture methods that systematically should include marketing strategy achitecture several steps that systematically, namely preparing the system model that is formed by collecting information or designing pemasan model is continuously, evaluation and analysis and disseminate and respond to society as a whole. This is often required by the company to a marketing intelligence is to find a new development and then reporting it to the division of research and development.

The Roadmap Research



Picture : Roap Map Research

consumer needs to know their competitors without spy matainya, management provides sales target to sales, needs to identify new products, to know the market uncertainty in the future so that they can make the previous planning. Now the scope of marketing intelligence one of them is the decision of the segmentation of consumers. Cravens and Piercy (2003:31-32) proposed that Marketing Architecture is the process of market-driven from development strategies that consider environmental changes and the need to offer superior customer value. The focus of the marketing stratejik namely on the performance of the organization. In this case, marketing stratejik connect the organization with the environment and the respect of marketing as a function that has the responsibility of exceed the other functions in the overall business activity (Sucherly, 2004:20). that Marketing Architecture is a strategy to serve the market or market segment that are set as target by the company. The definition of marketing strategy is as follows: "marketing strategy is the marketing logic used by the company with the hope that the business unit can achieve the goal of the company"(Kotler, 2011).

## III. RESEARCH METHOD

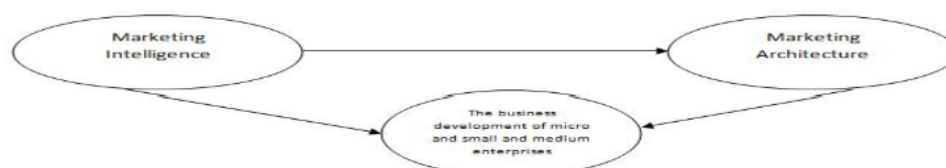
Kerlinger Design (1993 : 532) proposed that research design is the whole process that is needed in the planning and implementation of research in other words research design is the plan and the structure of the research arranged in such a way that the research can get answers to these questions research. (umar, 1999 : 36) said that the design of the research in social research generally is divided into three forms of the exploratory research (explorative research), research diskriptif (descriptive research and research (explanatory eksplanatori reseach). This research is research eksplanatori which means to give the explanation of the relationship of causation between the variables through the testing of the hypothesis as well as doing eksplanasi. Kausal assosiatif research (links) - research that aims to examine the relationship between the variables predictors (variables affect) and dependent variables (variable that influenced) through hypothesis testing. The hypothesis is an answer while against the

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formulation of research problems that need to be examined the truth through statistics test. The statistical tests used in this study is the Structural Equation Modeling (SEM). Shem is a collection of techniques statistik that allows

- 2) Respondents memilii secondary data is the ratio of principally document or record of labor, sales volume, production volume and the growth of the company for four years starting 2012 until the year



testing of a series of relatively complicated relationship simultaneously. (Ferdinand, 2012). With the conceptual framework as follows :

Picture : The conceptual framework

On the purpose of, type, and the nature of the research and the best method to illustrate the existence of the characteristics of the wider population groups with a survey. Research data collection method using the survey is a way to get the report information about the attitude of confidence, opinion, and characteristics of the population (Azis, 1982 ; and Riduwan, 2008: 58). This research survey using the list statement. The list of this statement to get the primary data. The list of the statement used to collect data points as material for further analysis. The list of the statement made by the researcher with the meaning of the aim of the research is reached. Therefore, researchers must determine the unit analysis of this research in advance. The Unit of analysis in this research is the individual in MSMES in East Java Bromo-Probolinggo.

### B. Research Target

Population are the primary object of the research is planned. This is in accordance with the opinion of Sunyoto (2008 : 6), population are all the value that is produced from the measurement of the quantitatively as well as qualitatively from certain characteristics of a collection of objects that is complete and clearly that want to be learned. Ridwan & Kuncoro,( 2008 : 37) said that the population is a region generalisations that consists of objects subject to the quantity and certain characteristics specified by the researchers to learn and then drawn the conclusion. In this research the population of the object of this research is all the owner of MSMES in Bromo Probolinggo-Jawa East who numbered 150 businesspeople on SMBS in Mount Bromo -Probolinggo the reason he chooses the owner as respondents because of SMBS in Mount Bromo in East Java is as well as the person responsible for all the company activities MSMES. Now the population criteria SMB company owner of Mount Bromo Probolinggo as follows :

- 1) The owner of MSMES in Mount Bromo Probolinggo Become respondents is that already has usahannya more than 1 years and never lead more than 3 years also

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- 3) The owner of MSMES industry know the details or the scope of MSMES accurately and clearly and understand the contents of a list of questions given by the researchers

### C. The technique of Data Collection

Before You find the results of research or manage data, important steps in quantitative research is to determine the technique of data collection. Sugiyono (2013:194) presents there are three data collection based on the technique that is the interview, questionnaires (kuisoner), and observation. In this research using the research method among others : preliminary Survey with done on the SMB company that has been determined and by doing wawacara directly with third-party management related on the SMB companies in East Java Probolinggo Bromo to get overview with the situation of the companies in each of the cities in East Java and all may. Then they did field research. Field research done by distributing questionnaires at the direction of the company owner of industry **micro and small and medium enterprises Mount Bromo** in each village as respondents so that researchers can learn more problems empirically. The researchers further do interview methods and researchers in doing literature study methods to obtain data teoritis with how to read and study the book of bukuyang related to issues that are examined. The description as follows :

- 1) Researchers make observations

In using the observation that the most effective way is to furnish it with the format or as an instrument of observation atks; consideration then format that is arranged contains items about genesis or the behavior that is described. From experienced researchers obtained an indication that record the data of observation is not just a record, but also held the consideration and then make the assessment to the scale on stilts Fundamentalism attention to the reaction of the audience television, not only record the child, but also assess the reaction is very less, or not in accordance with what He wills (Arikunto, 2006: 229). Then the observation is not limited to people, but also on the object of the other natural objects. From the implementation process of data collection, observation can



be differentiated into participant observation (observations participate) and non-participant observation. The observation participate (participant observation), in this observation, researchers involved with the daily activities of the people that are being observed or used as a source of research data. Structured observation is the observation that has been designed in a systematic, about what will be observed when and where. Researchers do questionnaire (questionnaires) on respondents. The questionnaire is the data collection technique is done with how to give a set of questions or written statement to the respondents to too complex. The questionnaire is the data collection technique is done with how to provide a set of questions or written statement to the respondents to too complex. The questionnaire is the data collection technique is efficient when the researcher knows for certain variables that will be measured and know what can be expected from respondents (Iskandar, 2008: 77)

- 2) Do research on the owner of micro and small and medium enterprises

Wawancara Interview used as a data collection technique when researchers want to study introduction to find problems that must be examined and also when researchers want to know these things from respondents that more depth and the number of little respondennya/ small. Sutrisno Hadi (1986) proposed that the assumption that need to be held by the researchers in using interview techniques and also of the questionnaire is as follows:

1. That the subject (respondents) was the most know about himself.
2. That what is revealed by the subject to researchers is true and can be trusted.
3. That the interpretation of the subject of the questions raised by researchers to him is the same with what is meant by the researchers

#### IV. ANALYSIS TECHNIQUES OF DATA

analysis techniques that will be used in this research is to wear analysis of Shem. The data has been analyzed using SEM (Structural Equation Modeling) AMOS program (Arbuckle, 1997: 18; and Ferdinand, 2002: 48) to give a clear picture of the relationship between the change of research. Structural Equation Model of Amos is used to obtain indicators model that fit. The reason for using the method of Structural Equation Modeling (SEM) is because this multivariat technique that combines aspects of multiple regression (examines the relationship between dependence and analysis of factors to mengestimasi series dependency relations that are related to each other simultaneously (Hair et. al., 1999, p. 621). Modeling Language research through Shem allows a researcher can answer questions research that is regressive and dimensional (namely measure what dimensions of a concept). When a researcher face research question in the form of the identification of the dimensions

of the concept or a dimension- construct. Usually done in the analysis of factors) and at the same time researchers want to measure the influence or the level of the relationship between the factors that have been identified the dimensions of the dimensions of Shem will is alternative answers are worthy of being considered. Therefore it can be said that basically the Shem is a combination between factor analysis and multiple regression analysis (Ferdinand, 2002, p. 7). Benchmark used in the test of each hypothesis one to five is the value of CR (Critical Ratio) on the regression Weights with minimum score of two absolutely. Muller (1996: 23) and Ferdinand (2002: 34)

#### A. Research Results and Discussion

In research during one year well known that the phenomenal micro and small and medium enterprises in Mountain Village Boromo Probolinggo not direpon by local government whereas micro and small and medium enterprises in and around Mount Bromo still relatively few vendors that sellers in the area. Researchers see a concern once in the Sunday vowed in the area and many once the unemployment rate that there and in terms of its economy is still not clearly seen, many micro and small and medium enterprises in the village Bromo-Probolinggo close your merchandise because many in terms of the economy. After that researchers are trying to help to complete the business at kemacetan micro and small and medium enterprises him by trying to apply the marketing variables and Markketing intellengence Architecture which can be mempendiksi of micro and small and medium enterprises who originally bangrut and income level is rarely acquired, so the researchers to develop models of marketing intellengence and marketing architecture start using information teknology support that incredible deeply citizens and the community for sumbangsi together. With the existence of Marketing than mothers paradigm pattern is generally have already started to range and start to develop with menedukasi every citizen who have micro and small and medium enterprises in areas such as providing training to educate technology system that is in micro and small and medium enterprises and use the means that existing technology-based and the influence of Marketing Architecture that can help the entrepreneurs micro and small and medium enterprises that because of this second dimension can help the tradesmen were brought or micro and small and medium enterprises in improve with how to strengthen our brand and strengthen penetrasi market and until about marketing strategy in micro and small and medium enterprises with the calculation of the statistics and measurement tools so that they can develop its economy. From the results of Shem Stastistik that than mothers who can be influential Marketing is dominant against the business development of micro and small and medium enterprises in Mount Bromo Probolinggo, supported research (Ranchod, 2004) said that the measure of business development is measured with various diemnsi one of them is the technology-based marketing can improve the development of any business or small and medium

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businesses, without pasarpun technology-based marketing is not in accordance with the existing target.

### B. The conclusion and suggestions

In supporting business development in micro and small and medium enterprises must fourthly we did not remove from the business learning process that we experience every day. In menjujurn business development we need to take into account the technology-based marketing and design based in order to monitoring the business development arranged for this. Especially in any segementasi we must pay attention to the dimensions of dismensi that supports the development of business, deeply the entrepreneurs especially in micro and small and medium enterprises Mount Bromo can learn about the existence of a balance between marketing intellengence and marketing architecture in order to increase the level of its sales and improve business performance in size micro and small and medium enterprises. Even though the Marketing Intellenge that very influence on the business development of micro and small and medium enterprises Marketing Architecture also need to be noted more sustainable.

### V. SUGGESTIONS

The researcher recommends that can pay attention to the development of MSMES in Mount Bromo Probolinggo for can help the government perkapital revenue and government policies is expected to help the development of MSMES in Mount Bromo Probolinggo is a quite extraordinary assets besides as the center of tourism in East Java. And the surrounding communities must change the paradigm that can grow their business development in MSMES Mount Bromo Probolinggo.

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