

AGRICULTURAL TRANSFORMATION PROCESS:
PROSPECTS AND CHALLENGES



Proceedings of the 24th Unnual National Conference of Farm Management Ussociation of Nigeria



Adamawa State University, Faculty of Agriculture P.M.B. 25, Mubi, Nigeria.

11th - 14th October, 2010

## ENTREPRENEURSHIP DEVELOPMENT AND NIGERIAN AGRICULTURAL TRANSFORMATION PROCESS: PROSPECTS AND CHALLENGES

Proceedings of the 24<sup>th</sup> National
Conference of Farm Management
Association of Nigeria
Faculty of agriculture
Adamawa State University, Mubi, Nigeria

11th - 14th October, 2010

## Editors:

Neils, J.S; Khobe, D., Ja'afar-Furo, M.R., Futuless, K.N.

October, 2010

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ISBN: 9782607-002

### Correct Citation:

Neils, J.S; Khobe, D., Ja'afar-Furo, M.R. and Futuless, K.N. (2010). Entrepreneurship Development and Nigerian Agricultural of the 24<sup>th</sup> National Conference of Farm Management Association of Nigeria, Faculty of Agriculture, Adamawa State University, Mubi, Nigeria, 11<sup>th</sup> – 14<sup>th</sup> October, 2010. 312pp.

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DETERMINANTS OF INFORMATIN AND COMMUNICATION TECHNOLOGY (ICT) USE IN THE MARKETING ACTIVITIES OF POULTRY FARMS IN EPE LOCAL GOVERNMENT AREA OF LAGOS STATE, NIGERIA.

NDANITSA, M.A., UMAR, I.S., OLALEYE, R.S., ABUBAKAR, S. B, MOHAMMED, U.S., SADIQ, S. TYABO, I. AND OLAWUMI, A.P.

#### **ABSTRACT**

The study focuses on the determinants of the rate of adoption of ICT in poultry business in the study The study locases of the study was to determine the rate of ICT compliance in marketing of poultry area. The objective of the study was to determine the rate of ICT compliance in marketing of poultry products A random sampling technique was used to select a total of 60 respondents from the study area (15 wards in Epe L.G.A of Lagos State). Data were obtained through administration of structured guestionnaires and interview schedule. Data were analyzed using descriptive statistics and Tobit regression model. The result of the analysis reveals that poultry farmers in the area have been using regression model.

ICT compliance in running their business. The result of the analysis also shows that education has a positive correlation with the rate of adoption of ICT, while age has a negative correlation. Findings from the study also revealed that print media and mobile telephones are the instrument of ICT compliance. It was however, evident that certain infrastructural facilities like power supply are inefficient, and recommendation were made for the increase awareness on the use of ICT through extension education be provided in order to ensure effective utilization of ICT for poultry business in the area Key Words: determinants, information, communication technology, poultry farms

#### INTRODUCTION

Poultry is a collective term for all avian species (domesticated birds) nutritionally and economically useful to man (Okoli, 2006). The most important poultry species remains the domestic fowl commonly called chickens, not only because of its universal availability but also because it provides important highly relished human foods. The other domestic avian species classed under poultry include, Turkey, Duck, Guinea Fowl, Goose and Pigeon.

According to Ostrander (2008), poultry farming (Production and Marketing) is a commercial raising of chickens, turkeys, ducks and geese for meat and eggs. Ostrander (2008), further explained that poultry industry expanded during the World War II because of shortage of beef and pork, which require longer time to develop. Despite the increase in the sub-sector, Gona (2009) stressed that Nigeria is among the least consumers of animal protein in the World. More so, Ndanitsa (2005) reported that Nigeria is endowed with abundant human and material resources but cannot sufficiently feed her people (food insecurity). This has been proven by the decreasing percentage contribution of agriculture to the Gross Domestic Product (G.D.P.) of the country (Youdeovei, 1996). Many scholars believe that there is a gap between research and farmers who are involved in production and marketing of produce Idachaba (2000) observed that a wide gap still exist between the potential of released improved seed varieties and animal breeds and farmers' yields. However, there is evidence that the media contribute to agricultural development (Koutsouris, 2006). This is because communication is critical to finding solution to problems of food production through facilitating research - farmer linkage through ICT usage. ICT is commonly used to embrace, a multitude of media including telephone, television, video, telex voice information systems and fax as well as those requiring the use of the personal computers filled with a modern or supply technologies that

communication. processing facilitate transmission of information by electronic means ranging from radio and television to telephone (fixed or mobile) and the internet (Warren, 2001: CTA, 2003; Omotayo, 2005).

ICT is known to be cost effective and enjoys the advantage of economies of scale reaching larger targeted audience. Mobile phones have had tremendous diffusion rate in Africa and has brought access to telecommunication to new groups to help increase their bargaining power and control over external events. For instance, according to Mumero (2007) in Tanzania, the arrival of mobile phones, under the five mile project of the Agric-Marketing Development Programme (AMSDP), has virtually transformed agricultural business through the way producers access vital market information. ICTs also make extension systems and structures more efficient through better management information and scarce resources (Kiplangs et al.,

ICT has become a very important feature in contemporary times because it transforms all human activities dependent on information including rural development and food security (Arokoyo, 2005).

The concept of Agricultural Marketing Network (AGMARKNET) is primarily based on the use of Information And Communication Technology (ICT) model or system to provide access to information at reasonable cost to dwindling Considering the farmers. ineffectiveness of the extension service due to poor funding by the government or other relevant authorities, ICT cannot be timelier than now. In addition, AGMARKNET is a web system technology which has to do with the networking of agricultural produce goods, research and technological development of markets through a portal system. This will facilitate the development of e-commerce model in the country. This has been achieved in countries like India, China, United States of America, Britain, France etc.

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Arokoyo (2005) reported that ICTs are mportant for networking among and between the important to the Research - E tension - Linkage - Systems (Daniel Link key stake included a Linkage - Systems (REFILS).

Farmer - Inputs - Linkage - Systems (REFILS).

The information on market prices provides

The information on process increases in the provides. famers with a 10-20 percent increase in profit.

In view of the rapidly growing population and low protein intake especially in rural areas, challenges to increase meat production in Nigeria has actually led to increase in poultry production. Furthermore, there has to be sustainability of the poultry industry and this requires modern information technology, improved poultry research and its market structures. Of all this, market infrastructure remains the most important as it is the link between production centers and final marketing strategies, Poor consumers. inadequate market infrastructure information and inaccessibility of information about market situation and new innovations are however reducing the economic potential of poultry production in Nigeria. Sonaiya (1990) noted that development, documentation and dissemination of information and appropriate methods of data collection, collation, storage and application on the farm are essential. Here, ICT become relevant as it is able to provide necessary contributions to obtain and process information.

The purpose of the study was to examine the use of ICT in marketing of poultry products while the specific objective was to determine the rate of ICT compliance in the marketing activities of poultry farms.

#### Methodology

The Study Area: The study area is Epe locality which is the headquarters of Epe Local Government Area of Lagos State, Nigeria. Epe LGA has a population figure of 111,464 people. The main occupation of the people is fishing and poultry farming.

Sampling Techniques: A random sampling technique was used in selecting 60 respondents form 15 wards within the Local Government Area

Data Collection Method: Primary data were collected through the use of questionnaires and interviews schedule.

Data Analysis and Measurement of Variables: To determine, the rate of ICT compliance by poultry farmers, respondents were asked questions characteristics and level of capital investments in on the enterprise. Descriptive statistics and tobit regression model was used to determine which of the explanatory variables are significant in the adoption of ICT by the poultry farmers. Model Specification:  $Y = F(X_1, X_2, X_3, X_4, X_5, X_6).$ 

Where Y = Rate of ICT compliance: obtained from the data collected from the field, and

X<sub>1</sub> = Age of Respondent: Measured in years, in which of Respondent Measured in be which people have been found to be amendable to new innovation Married or Single discrete dis

Single, divorced or widowed. It was expected

to have additional family labour in the poultry

X<sub>3</sub> - ■ Educational level of the poultry farmer, measured in years. Its effects are mostly felt in the acquisition of new concept used in marketing activities of the poultry farming.

X<sub>4</sub> = Years of poultry farming experience measured in years. This can refer to knowledge and skill gained overtime.

X<sub>5</sub> = Capital Investment: Measured in Naira (N). Poultry enterprises is relatively expensive

X<sub>6</sub> = Annual Profit of the respondent Also measured in Naira (N). This show that an increase in poultry control turn over has bridge the gab between other enterprises.

#### Results and Discussion

Table 1 shows the result obtained from the regression; the dependent variable and the explanatory variables, the four functional forms were tested and the double log - equation was found to provide the best fit. It has an R2 value of 0.986. This means that the socio-economic factors namely age of the poultry farmer (X1). Marital status (X2) Educational level (X3), Years of farming experience  $(X_4),$ Investment (X<sub>5</sub>) and Annual profit realized (X<sub>6</sub>) all play a significant role in the adoption of ICT by the farmer as they account for 98.6 per cent of the rate of compliance. However, most of them utilize print media and internet exploration for the ICT compliance in the area, as well as the use of mobile phones.

However, the coefficient of respondents level of education (X3) was found to be positive and significant at 10 percent. This sign confirms that more educated farmers will have a higher tendency to ICT compliance. On the other hand, age of the respondent (X1) though is significant at 5%, it however has a negative sign. It means that the older the farmer the less likely it will be for him to adopt ICT for better marketing strategies. Conclusion

Based on the findings of the study, the following conclusions are drawn. Most poultry farmers utilize ICT for their marketing strategies to earn higher profits. However, extension education should be provided to most poultry farmers since it has a positive impact on the adoption rate of ICT in the area. Nevertheless, major problem associated with ICT usage were infrastructural facilities and management capacity. Policy makers interested in the usage and encouragement of the use of ICT for poultry business should implement policies aimed at ameliorating the problems of irregular supply of power, inadequate credit facility and to ensure effective utilization of ICT for poultry business.

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