

## **Evaluation of agricultural extension agents for the electronic application "useful in food and agriculture" as one of the mobile applications in Qalyubia Governorate**

**Dr. Fatima Ahmed Omar      Dr . Nazek Samir Mahmoud Osman**

Agricultural Extension Research and Rural Development Institute

Agricultural Research Centre

### **Summary**

The research aimed to evaluate the electronic application “useful in food and agriculture” as one of the mobile applications through the following criteria: determining the appropriate degree of the content standard, design standard, and organization standard from the respondents’ point of view, and identifying the advantages of using mobile applications in agricultural extension; as well as identifying obstacles that limit the use of mobile phone applications in agricultural extension from the respondents' point of view.

The research was conducted in Qalyubia Governorate, and the research community was formed from the comprehensive agricultural extension workers at the governorate level, who numbered 59 agricultural guides. The data was collected by personal interview of the respondents using the questionnaire form prepared for this purpose, and the data was processed statistically using the tabular display in numbers, percentage and medium degree. Research data was collected during the month of May 2021.

### **The most important findings of the research were the following:**

- 61.0% of the total degree of suitability for the characteristics of the electronic application "useful in food and agriculture" was moderately suitable
- 66.1% of the degree of appropriateness of the content criterion for the electronic application "useful in food and agriculture" fell in the medium category (20-25 degrees).
- 45.8% of the total degree of suitability of the design criterion for the electronic application "useful in food and agriculture" was moderately suitable
- 40.7% of the degree of appropriateness of the design criterion with regard to the indicative aids found in the electronic application "useful in food and agriculture" fell in the medium category (16-19 degrees).

- 39.0% of the degree of suitability of the design criterion in relation to the links in the electronic application "useful in food and agriculture" fell in the high category (13-15 degrees).
- 55.9% of the degree of appropriateness of the design criterion with regard to the colors found in the electronic application "useful in food and agriculture" fell in the medium category (13-16 degrees).
- 40.7% of the degree of appropriateness of the design criterion with regard to the text of the electronic application "useful in food and agriculture" fell in the middle category (9-11 degrees).
- 64.4% of the degree of appropriateness of the regulation criterion for electronic application "useful in food and agriculture" fell in the middle category (35-45 degrees).
- The most advantages of using mobile applications in extension work, which took the lead, are the possibility of following up on the new in the world of agriculture and agricultural extension at anytime and anywhere, with medium degree of 2.36 and 78.5%.
- The most important obstacles that limit the use of mobile applications in counseling work, which took the lead, are fatigue and visual fatigue due to the use of these devices with a medium degree of 2.8 and 93%.