

## ANNEX: SURVEY QUESTIONNAIRE

### **SURVEY ON PUBLIC PERCEPTION OF GENETICALLY MODIFIED ORGANISMS (GMOS) IN KENYA**

#### **Introduction**

Genetically modified crops have been in commercial cultivation since 1996 when the first crop was approved for cultivation. Kenya rounds off its sixth year of GM cotton cultivation with other crops such as maize and cassava in the pipeline. Despite these technological advancements, the public's view and acceptance of GM technology remain cautious and skeptical. Recognizing that understanding these public attitudes is essential for making informed policy decisions, this study was commissioned to gather information on the level of awareness, and willingness to adopt and use GM technologies with the following specific objectives;

- I. To assess the knowledge and the level of awareness on GMOs.
- II. To assess the level of knowledge on the role of the National Biosafety Authority and the status of agricultural biotechnologies in Kenya.
- III. To determine the sources of information on GMOs and the most effective medium and channels of communication on GMOs.

We kindly request that you take a few minutes of your valued time and fill in this questionnaire by ticking or writing your answers in the spaces provided. The data/information provided will be anonymized and handled with utmost confidentiality. All information and data obtained from this survey will be analyzed for use in decision making. Please answer all questions truthfully.

Thank you for your support.

#### **Part I: Background Information**

a) Age:       Below 18               18-34               35-54               55-65               above 65

b) Gender:  Male               Female               Transgender               No disclosure

c) Religion:  Christian       Muslim       Hindu       Atheist       other .....

d) Place of residence:      County .....      Location/Town .....

e) Occupation:

- Formal Employment.
- Informal Employment
- Student
- Unemployed.....

f) Highest level of education:

- Informal
- Primary
- Secondary school
- College Certificate
- Diploma
- Bachelor's degree
- Postgraduate degree (masters and/or doctoral)

g) Education specialty:

- Sciences
- Arts
- Humanities
- Other: .....

h) Monthly income (Ksh):

- Below 20,000
- 20,000-40,000
- 40,000-60,000
- >60,000

## **Part II: Knowledge and awareness**

Q1. a) Have you heard about National Biosafety Authority?

- Yes
- No

(b) If yes, from which media did you hear about it?

- Radio
- Television
- Newspaper
- Brochures
- Social media tools (i.e., Twitter, Facebook, and YouTube)
- Others .....

Q2. Have you ever heard of GMOs?

- Yes
- No
- Not sure

Q3. (a) Can you identify GMOs by looking at them?

- Yes
- No
- Not sure

(b) If yes, how?

- Size
- Labeling
- Weight
- Texture
- Scent
- Others .....

Q4. (a) Are you aware of any GMOs approved for commercialization in Kenya?

- Yes       No       Not sure

(b) If yes, which GMOs are found in Kenya?

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Q5. Which institutions in Kenya are involved in research of GMOs? Tick all that apply.

- KEPHIS       KALRO       NBA       Universities  
 ICIPE       ILRI       CIMMYT       Am not aware of any  
 Others .....

**Part III: Public perceptions on GMOs**

Q6. (a) Do you support the use of GMOs?

- Strongly support     Support     Neutral     Oppose     Strongly oppose

(b) If strongly support or support, what are your reasons? Tick all that apply.

- Increased yields  
 Pest and disease resistance  
 Disease control in animals  
 Drought tolerance  
 Vaccine development  
 Nutritional enhancement  
 Others .....

(c) If strongly oppose, oppose or Neutral, what are your reasons? Tick all that apply.

- Health concerns  
 Environmental concerns  
 Ethical and religious concerns  
 Trade concerns  
 Others .....

Q7. (a) In January, 2020 Kenya approved open cultivation of GM cotton that is resistant to bollworm pest (Bt cotton). Do you support this decision?

- Strongly support       Support       Neutral  
 Oppose       Strongly oppose

(b) If you strongly support or support, what are your reasons? Tick all that apply.

- Increased yields
- Reduced pesticides usage
- Reduced labor
- Reduced pollution
- Early maturity
- Increased nutrition
- Lower cost of seeds
- Enhanced quality of fiber
- Other .....

(c) If you are neutral, oppose or strongly oppose, what are your reasons? Tick all that apply.

- Health concerns
- Environmental safety
- Socio-economic issues
- Ethical concerns
- Religious beliefs
- Other .....

Q8. Do you support the use of GM technology in drug development such as Hepatitis B vaccine and insulin?

- Strongly support    Support    Neutral    Oppose    Strongly oppose

Q9. Which of these statements regarding the potential benefits of Genetically Modified foods do you agree with? Tick all that apply.

- Farmers will benefit from the use of GM crops
- Reduced use of insecticides
- GM food will make food cheaper in Kenya
- Enhanced nutrition
- High yielding crops
- No use of pesticides
- Early maturity
- Improved flavor and taste
- Increased size
- Others .....

Q10. (a) Do you support the labeling of Genetically Modified food?

- Strongly support    Support    Neutral    Oppose    Strongly oppose

(b) If you strongly support or support, why?

- Traceability
- Consumer choice
- Safety issues
- Others

(c) If you are neutral, oppose or strongly oppose why?

- Increased cost due to labelling
- Trade biasness
- Others

Q11. (a)What is your main source of information on GMOs? Tick all that apply.

- Radio
- Television
- Books
- Newspaper
- Internet and social media
- Relatives and friends
- NBA
- Learning at school
- Agricultural extension officers
- Clergy
- Scientific journals
- Other .....

Q12. Which is your most trusted source of information on GMOs? Tick all that apply.

- Scientists
- Non-governmental organizations
- Politicians
- Clergy
- NBA
- Governmental organization
- Other .....

**Part IV: Other comments**

Q13. In which areas would you recommend the National Biosafety Authority to improve on with regard to regulation of GMO activities in Kenya?

- Public awareness
- Public participation
- Surveillance and monitoring
- Clarity on approval process
- Training and capacity building
- Others .....

Q14. Do you have any other comments or questions on GMOs?

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*Thank you very much for your cooperation!!!*