

Assessing the knowledge, attitudes, practices, capacities and incentives of value chain actors on  
biosecurity for the control of African swine fever (ASF) in Uganda  
(Input supplier's tool kit)

This questionnaire is intended for extension staff. Once identified, ask for the relevant person, introduce yourself and the project. The introduction will be as indicated in the inset table below.

### INTRODUCTION

I am [ ] and we are conducting research African swine fever (ASF) disease and the methods farmers and other value chain actors use to prevent or control them. The information you give will be used to improve the control of ASF in Uganda. We are therefore requesting you to give us your attention to go through the questionnaire.

### Enumerator

When filling the questionnaire, check a choice using an 'X', ex. ☒. If you make a mistake, do not try to erase or blot out the box that you have already checked; instead, check the box for the correct answer and circle that box to indicate it is the final correct answer, ex. ☒

### SECTION A: BACKGROUND INFORMATION

1. Questionnaire ID		
2. Date of Survey (DD/MM/YYYY)		
3. Enumerator Name		
4. Time interview started (HH:MM)		
5. Time interview ended (HH:MM)		
6. Actor's category	<input type="checkbox"/> 1 village vet <input type="checkbox"/> 2 paravet <input type="checkbox"/> 3 drug stockist <input type="checkbox"/> 4 feed stockist <input type="checkbox"/> 5 District vet officer <input type="checkbox"/> 6 Meat inspector <input type="checkbox"/> 7 Police officer	
7. Name of respondent		
8. Telephone number		
9. Sex of respondent	<input type="checkbox"/> Male 1 <input type="checkbox"/> Female 2	
10. Age of respondent (years)		
11. Marital status of the respondent	<input type="checkbox"/> 1 Married (monogamous) <input type="checkbox"/> 4 Divorced/separated <input type="checkbox"/> 2 Married (polygamous) <input type="checkbox"/> 5 Single / unmarried <input type="checkbox"/> 3 Widow/Widower <input type="checkbox"/> 6 Other – specify.....	
12. Name of district	<input type="checkbox"/> 1 Masaka <input type="checkbox"/> 2 Lira	
13. Sub-county you are stationed		
14. Parish you are stationed		
15. Village you are stationed		
16. GPS Coordinates	Latitude (N/S):	Longitude (E/W):
17. How long have you been in this work? (years).....		
18. To whom do you provide service more and why? <input type="checkbox"/> 1=Men, <input type="checkbox"/> 2=Women		
a _____		

b	_____
c	_____

## SECTION B: AFRICAN SWINE FEVER DISEASE AND BIOSECURITY

### B.1. Knowledge of ASF (clinical signs and transmission)

19. Have you heard about ASF before? <input type="checkbox"/> YES <input type="checkbox"/> NO If YES (Q20-Q23)		
20. List three clinical signs of ASF you know?		
a	_____	<input type="checkbox"/> 1 right <input type="checkbox"/> 2wrong
b	_____	<input type="checkbox"/> 1 right <input type="checkbox"/> 2wrong
c	_____	<input type="checkbox"/> 1 right <input type="checkbox"/> 2wrong
21. Through which channels ASF can be carried from farm to farm? (maximum of 3 channels)		
a	_____	<input type="checkbox"/> 1 right <input type="checkbox"/> 2wrong
b	_____	<input type="checkbox"/> 1 right <input type="checkbox"/> 2wrong
c	_____	<input type="checkbox"/> 1 right <input type="checkbox"/> 2wrong
22. How is ASF transmitted from pig to pig? (maximum of 5 routes of transmission)		
a	_____	<input type="checkbox"/> 1 right <input type="checkbox"/> 2wrong
b	_____	<input type="checkbox"/> 1 right <input type="checkbox"/> 2wrong
c	_____	<input type="checkbox"/> 1 right <input type="checkbox"/> 2wrong
23. List actions that can stop the spread of the disease in your area (maximum 3 actions)		
a	_____	<input type="checkbox"/> 1 right <input type="checkbox"/> 2wrong
b	_____	<input type="checkbox"/> 1 right <input type="checkbox"/> 2wrong
c	_____	<input type="checkbox"/> 1 right <input type="checkbox"/> 2wrong

### B.2. BIOSECURITY

Knowledge					
24. When I disinfect my tools, I prevent the disease to spread to other farms	<input type="checkbox"/> Strongly agree 1	<input type="checkbox"/> Agree 2	<input type="checkbox"/> Neither agree nor disagree 3	<input type="checkbox"/> Disagree 4	<input type="checkbox"/> Strongly disagree 5
25. Extension staff cannot spread the disease through their shoes when they move from one farm to another	<input type="checkbox"/> Strongly agree 1	<input type="checkbox"/> Agree 2	<input type="checkbox"/> Neither agree nor disagree 3	<input type="checkbox"/> Disagree 4	<input type="checkbox"/> Strongly disagree 5
26. Pig blood and other fluids cannot transmit the disease to other pigs	<input type="checkbox"/> Strongly agree 1	<input type="checkbox"/> Agree 2	<input type="checkbox"/> Neither agree nor disagree 3	<input type="checkbox"/> Disagree 4	<input type="checkbox"/> Strongly disagree 5
Attitudes					
27. It is not staff's problem if there is an outbreak because they don't face losses in their business	<input type="checkbox"/> Strongly agree 1	<input type="checkbox"/> Agree 2	<input type="checkbox"/> Neither agree nor disagree 3	<input type="checkbox"/> Disagree 4	<input type="checkbox"/> Strongly disagree 5

					ree 5
28. Staff will gain more profit during disease outbreaks because the demand for drugs is high	<input type="checkbox"/> Strongly agree 1	<input type="checkbox"/> Agree 2	<input type="checkbox"/> Neither agree nor disagree 3	<input type="checkbox"/> Disagree 4	<input type="checkbox"/> Strongly disagree 5
29. There is no link between our work and disease outbreak occurrence	<input type="checkbox"/> Strongly agree 1	<input type="checkbox"/> Agree 2	<input type="checkbox"/> Neither agree nor disagree 3	<input type="checkbox"/> Disagree 4	<input type="checkbox"/> Strongly disagree 5
<b>Practices</b>					
30. Staff do not stop their activities during disease outbreak season	<input type="checkbox"/> Strongly agree 1	<input type="checkbox"/> Agree 2	<input type="checkbox"/> Neither agree nor disagree 3	<input type="checkbox"/> Disagree 4	<input type="checkbox"/> Strongly disagree 5
31. Staff give advice to farmers during disease outbreak season	<input type="checkbox"/> Strongly agree 1	<input type="checkbox"/> Agree 2	<input type="checkbox"/> Neither agree nor disagree 3	<input type="checkbox"/> Disagree 4	<input type="checkbox"/> Strongly disagree 5
32. How do you move from the farms to your place? <input type="checkbox"/> 1 car <input type="checkbox"/> 2 motorbike <input type="checkbox"/> 3 bicycle <input type="checkbox"/> 5 Other _____					
33. Do you use disinfectant? <input type="checkbox"/> 1 Yes <input type="checkbox"/> 2 No					
34. In case you use disinfectants, list them _____					
35. I disinfect my vehicle	<input type="checkbox"/> Always 1	<input type="checkbox"/> Often 2	<input type="checkbox"/> About half the time 3	<input type="checkbox"/> Seldom 4	<input type="checkbox"/> Never 5
36. Estimate the distance from the location of your base to your clients? (average in Km) _____					

<b>Capacities</b>					
37. I don't make enough money to be able to buy disinfectants to use for my own biosecurity when moving from farm to farm (FOR FEED, DRUG STOCKISTS AND VETS)	<input type="checkbox"/> Strongly agree 1	<input type="checkbox"/> Agree 2	<input type="checkbox"/> Neither agree or disagree 3	<input type="checkbox"/> Disagree 4	<input type="checkbox"/> Strongly disagree 5
37. Government budgets are too small, there is no money to buy disinfectants (FOR DVO, POLICE OFFICER AND MEAT INSPECTOR)	<input type="checkbox"/> Strongly agree 1	<input type="checkbox"/> Agree 2	<input type="checkbox"/> Neither agree or disagree 3	<input type="checkbox"/> Disagree 4	<input type="checkbox"/> Strongly disagree 5
38. I don't have skills to use disinfectant	<input type="checkbox"/> Strongly agree 1	<input type="checkbox"/> Agree 2	<input type="checkbox"/> Neither agree or disagree 3	<input type="checkbox"/> Disagree 4	<input type="checkbox"/> Strongly disagree 5
39. I don't have time to disinfect my work equipment from farm to farm	<input type="checkbox"/> Strongly agree 1	<input type="checkbox"/> Agree 2	<input type="checkbox"/> Neither agree or disagree 3	<input type="checkbox"/> Disagree 4	<input type="checkbox"/> Strongly disagree 5
40. I can get credit to support my business	<input type="checkbox"/> Strongly agree 1	<input type="checkbox"/> Agree 2	<input type="checkbox"/> Neither agree or disagree 3	<input type="checkbox"/> Disagree 4	<input type="checkbox"/> Strongly disagree 5
41. I have too many farms to cover the same day	<input type="checkbox"/> Strongly agree 1	<input type="checkbox"/> Agree 2	<input type="checkbox"/> Neither agree or disagree 3	<input type="checkbox"/> Disagree 4	<input type="checkbox"/> Strongly disagree 5

42. Do you have staff to help in your work? <input type="checkbox"/> Yes 1 <input type="checkbox"/> No 2					
43. If yes, how many staff? _____					
44. How do you move from your station to the farm? <input type="checkbox"/> 1 Car <input type="checkbox"/> 2 motorbike <input type="checkbox"/> 3 bicycle <input type="checkbox"/> 4 walk <input type="checkbox"/> 5 Other _____					
<b>Incentives</b>					
45. More of the pigs I treat will survive if I disinfect my material (FOR VETS ONLY)	<input type="checkbox"/> Strongly agree 1	<input type="checkbox"/> Agree 2	<input type="checkbox"/> Neither agree or disagree 3	<input type="checkbox"/> Disagree 4	<input type="checkbox"/> Strongly disagree 5
46. In my business, women are easier to deal with as compared to men	<input type="checkbox"/> Strongly agree 1	<input type="checkbox"/> Agree 2	<input type="checkbox"/> Neither agree or disagree 3	<input type="checkbox"/> Disagree 4	<input type="checkbox"/> Strongly disagree 5
47. If yes, give reasons? a _____ b _____ c _____					
48. Women farmers take actions quicker than men after advise	<input type="checkbox"/> Strongly agree 1	<input type="checkbox"/> Agree 2	<input type="checkbox"/> Neither agree or disagree 3	<input type="checkbox"/> Disagree 4	<input type="checkbox"/> Strongly disagree 5
49. Why staff like you would be willing to apply biosecurity measures? a _____ b _____ c _____					
50. Why staff like you would NOT be willing to apply biosecurity measures? a _____ b _____ c _____					

### B.3. REPORTING

<b>Knowledge</b>					
51. Do you report disease outbreak in your community? <input type="checkbox"/> 1 Yes <input type="checkbox"/> 2 No					
52. If yes, through which channels? <input type="checkbox"/> call area vet 1 <input type="checkbox"/> call a paravet 2 <input type="checkbox"/> call village vet 3 <input type="checkbox"/> verbal reporting to fellow traders 4 <input type="checkbox"/> verbal reporting to area vet 5 <input type="checkbox"/> verbal reporting to village vet 6 <input type="checkbox"/> write to area vet 7 <input type="checkbox"/> others (specify)8.....					
53. I know who should report an outbreak to the authorities in my community	<input type="checkbox"/> Strongly agree 1	<input type="checkbox"/> Agree 2	<input type="checkbox"/> Neither agree nor disagree 3	<input type="checkbox"/> Disagree 4	<input type="checkbox"/> Strongly disagree 5
<b>Attitude</b>					
54. Reporting a disease outbreak is not my role, it is farmer's responsibility	<input type="checkbox"/> Strongly agree 1	<input type="checkbox"/> Agree 2	<input type="checkbox"/> Neither agree nor disagree 3	<input type="checkbox"/> Disagree 4	<input type="checkbox"/> Strongly disagree 5
55. If households keeping pigs have sick/dying pigs, they don't tell to us about the disease outbreak	<input type="checkbox"/> Strongly agree 1	<input type="checkbox"/> Often 2	<input type="checkbox"/> About half the time 3	<input type="checkbox"/> Seldom 4	<input type="checkbox"/> Never 5
<b>Capacities</b>					
56. I can get information on disease	<input type="checkbox"/> Strongly	<input type="checkbox"/> Agree 2	<input type="checkbox"/> Neither agree	<input type="checkbox"/>	<input type="checkbox"/> Strongly

outbreaks within my area of operation	agree 1		nor disagree 3	Disagree 4	disagree 5
57. It is expensive to report an outbreak	<input type="checkbox"/> Strongly agree 1	<input type="checkbox"/> Agree 2	<input type="checkbox"/> Neither agree nor disagree 3	<input type="checkbox"/> Disagree 4	<input type="checkbox"/> Strongly disagree 5
<b>Incentives</b>					
58. Reporting will stop the disease from spreading to other herds in the neighbourhood	<input type="checkbox"/> Strongly agree 1	<input type="checkbox"/> Agree 2	<input type="checkbox"/> Neither agree nor disagree 3	<input type="checkbox"/> Disagree 4	<input type="checkbox"/> Strongly disagree 5
59. If I report about the outbreak to the authorities, I will lose my clients (FOR VETS ONLY)	<input type="checkbox"/> Strongly agree 1	<input type="checkbox"/> Agree 2	<input type="checkbox"/> Neither agree nor disagree 3	<input type="checkbox"/> Disagree 4	<input type="checkbox"/> Strongly disagree 5
60. If I report about the outbreak to the authorities, my business will suffer (FOR VETS ONLY)	<input type="checkbox"/> Strongly agree 1	<input type="checkbox"/> Agree 2	<input type="checkbox"/> Neither agree nor disagree 3	<input type="checkbox"/> Disagree 4	<input type="checkbox"/> Strongly disagree 5
61. There is no point in reporting outbreak because no one takes action	<input type="checkbox"/> Strongly agree 1	<input type="checkbox"/> Agree 2	<input type="checkbox"/> Neither agree nor disagree 3	<input type="checkbox"/> Disagree 4	<input type="checkbox"/> Strongly disagree 5
62. Why staff like you would be willing to report voluntarily sickness or mortality in pigs in their area of operation to authorities? a _____ b _____ c _____					
63. Why staff like you would NOT be willing to report voluntarily sickness or mortality in pigs in their area of operation to authorities? a _____ b _____ c _____					

## B.4. MOVEMENT CONTROL

<b>Knowledge</b>					
64. I know that I should stop moving from farm to farm during outbreak period	<input type="checkbox"/> Strongly agree 1	<input type="checkbox"/> Agree 2	<input type="checkbox"/> Neither agree nor disagree 3	<input type="checkbox"/> Disagree 4	<input type="checkbox"/> Strongly disagree 5
<b>Attitude</b>					
65. I do not care about movement control because their business is not affected by the disease outbreak	<input type="checkbox"/> Strongly agree 1	<input type="checkbox"/> Agree 2	<input type="checkbox"/> Neither agree nor disagree 3	<input type="checkbox"/> Disagree 4	<input type="checkbox"/> Strongly disagree 5
<b>Incentives</b>					
66. There would be a low demand and low prices for drugs when movement control are imposed (FOR DRUG TOCKISTS ONLY)	<input type="checkbox"/> Very likely 1	<input type="checkbox"/> Likely 2	<input type="checkbox"/> Neither likely of unlikely 3	<input type="checkbox"/> Unlikely 4	<input type="checkbox"/> Very unlikely 5
67. Even if I don't comply with movement control regulations the authorities don't bother me (FOR VETS, DRUG	<input type="checkbox"/> Strongly agree 1	<input type="checkbox"/> Agree 2	<input type="checkbox"/> Neither agree or disagree 3	<input type="checkbox"/> Disagree 4	<input type="checkbox"/> Strongly disagree 5

AND FEED STOCKISTS)					
<b>Capacities</b>					
68. I have other income generating activities that can subsidise me when I stop my business during outbreak (FOR VETS, DRUG AND FEED STOCKISTS)	<input type="checkbox"/> Strongly agree 1	<input type="checkbox"/> Agree 2	<input type="checkbox"/> Neither agree or disagree 3	<input type="checkbox"/> Disagree 4	<input type="checkbox"/> Strongly disagree 5
69. I can't get accurate information when movement restrictions are lifted to resume my business (FOR VETS, DRUG AND FEED STOCKISTS)	<input type="checkbox"/> Strongly agree 1	<input type="checkbox"/> Agree 2	<input type="checkbox"/> Neither agree or disagree 3	<input type="checkbox"/> Disagree 4	<input type="checkbox"/> Strongly disagree 5
70. Why staff like you would be willing to comply with movement controls of pigs and pig's products when there is a disease outbreak? a _____ b _____ c _____					
71. Why staff like you would NOT be willing to comply with movement controls of pigs and pig's products when there is a disease outbreak? a _____ b _____ c _____					

## B.5. SERVICES IMPLEMENTING MOVEMENT CONTROL

<b>Incentives</b>					
72. The authorities like to demonstrate their professional capabilities by implementing movement controls well	<input type="checkbox"/> Very likely 1	<input type="checkbox"/> Likely 2	<input type="checkbox"/> Neither likely of unlikely 3	<input type="checkbox"/> Unlikely 4	<input type="checkbox"/> Very unlikely 5
73. The authorities earn extra allowances when they enforce movement controls in a quarantine zone	<input type="checkbox"/> Very likely 1	<input type="checkbox"/> Likely 2	<input type="checkbox"/> Neither likely of unlikely 3	<input type="checkbox"/> Unlikely 4	<input type="checkbox"/> Very unlikely 5
74. The authorities like to demonstrate their authority through stopping pigs movements in a quarantine zone	<input type="checkbox"/> Very likely 1	<input type="checkbox"/> Likely 2	<input type="checkbox"/> Neither likely of unlikely 3	<input type="checkbox"/> Unlikely 4	<input type="checkbox"/> Very unlikely 5
75. The authorities will not lose their jobs whether or not they enforce movement controls satisfactorily	<input type="checkbox"/> Very likely 1	<input type="checkbox"/> Likely 2	<input type="checkbox"/> Neither likely of unlikely 3	<input type="checkbox"/> Unlikely 4	<input type="checkbox"/> Very unlikely 5
76. The authorities believe that movement controls is effective in stopping the spread of ASF	<input type="checkbox"/> Very likely 1	<input type="checkbox"/> Likely 2	<input type="checkbox"/> Neither likely of unlikely 3	<input type="checkbox"/> Unlikely 4	<input type="checkbox"/> Very unlikely 5
<b>Capacities</b>					
77. The government would not have enough staff to effectively monitor movement of pigs and pigs products in a quarantine	<input type="checkbox"/> Strongly agree 1	<input type="checkbox"/> Agree 2	<input type="checkbox"/> Neither agree or disagree 3	<input type="checkbox"/> Disagree 4	<input type="checkbox"/> Strongly disagree 5

zone					
78. The various government services (VOs, police, etc.) work well together	<input type="checkbox"/> Very likely 1	<input type="checkbox"/> Likely 2	<input type="checkbox"/> Neither likely of unlikely 3	<input type="checkbox"/> Neither likely of unlikely 3	<input type="checkbox"/> Very unlikely 5
79. The government staff don't have enough funding, so would have difficulty deploying their staff in a quarantine zone	<input type="checkbox"/> Very likely 1	<input type="checkbox"/> Likely 2	<input type="checkbox"/> Neither likely of unlikely 3	<input type="checkbox"/> Neither likely of unlikely 3	<input type="checkbox"/> Very unlikely 5
80. The government staff have enough vehicles and equipment to monitor movement control well	<input type="checkbox"/> Very likely 1	<input type="checkbox"/> Likely 2	<input type="checkbox"/> Neither likely of unlikely 3	<input type="checkbox"/> Neither likely of unlikely 3	<input type="checkbox"/> Very unlikely 5
81. Value chain actors (farmers, trader, and butchers) will not support the authorities (veterinary officer and police) to make sure the movement controls were respected	<input type="checkbox"/> Very likely 1	<input type="checkbox"/> Likely 2	<input type="checkbox"/> Neither likely of unlikely 3	<input type="checkbox"/> Neither likely of unlikely 3	<input type="checkbox"/> Very unlikely 5
82. Why government staff would want to do a good job in making sure that movement controls are fully enforced? a _____ b _____ c _____					
83. Why government staff would NOT want to do a good job in making sure that movement controls are fully enforced? a _____ c _____ c _____					

Thank the respondent for his/her time and kind cooperation.

Did the respondent cooperate? ☐ Yes ☐ No

Was the interview interrupted? ☐ Yes ☐ No