**109109647: Social licence to control pests – Gene Drive**

**Questionnaire Version A**

## **­­­­­­­­­­­­­SCREENING QUESTIONS**

Thanks for agreeing to do this survey. Firstly we have a few questions to ensure we’re surveying a wide range of people.

**DP: IF QUOTA FULL CLOSE AFTER S7**

**ASK ALL**

**NUMERIC – SCREEN OUT UNDER 18S**

**S1** Please type your age in the box below.

+ Do not wish to answer

**SR**

**S2** What is your gender?

|  |  |  |
| --- | --- | --- |
|  | Male | 1 |
|  | Female | 2 |
|  | Gender diverse | 3 |

**SR**

**S3** Where do you live?

|  |  |  |
| --- | --- | --- |
|  | Northland | 1 |
|  | Auckland | 2 |
|  | Waikato | 3 |
|  | Bay of Plenty | 4 |
|  | Gisborne | 5 |
|  | Hawke's Bay | 6 |
|  | Taranaki | 7 |
|  | Manawatu-Wanganui | 8 |
|  | Wellington | 9 |
|  | Tasman | 10 |
|  | Nelson | 11 |
|  | Marlborough | 12 |
|  | West Coast | 13 |
|  | Christchurch | 14 |
|  | Other Canterbury | 15 |
|  | Otago | 16 |
|  | Southland | 17 |

**MR**

**S4** Which of these ethnic groups best describe(s) you?

*You can choose more than one.*

|  |  |  |
| --- | --- | --- |
|  | New Zealand European | 1 |
|  | New Zealand Maori | 2 |
|  | Samoan | 3 |
|  | Cook Island Maori | 4 |
|  | Tongan | 5 |
|  | Niuean | 6 |
|  | Other Pacific Island (please type in) | 7 |
|  | Chinese | 8 |
|  | Indian | 9 |
|  | Other Asian (please type in) | 10 |
|  | Other European (please type in) | 11 |
|  | Other ethnic group (please type in) | 12 |

**ASK ALL**

**SR**

**S7** Please indicate your general attitude towards pest control in the form of poison bait spread by aircraft

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | It should never be used under any circumstances | It should only be used as a last resort | I am uncomfortable with this method but will accept it as long as appropriate controls are in place | I am comfortable with this method as long as appropriate controls are in place | I have no concerns at all about this method | Don’t know |
|  | 1 | 2 | 3 | 4 | 5 | 6 |

## **SECTION A: GENE DRIVE TPB SURVEY**

SHOW ALL

DP: PLEASE PLACE THREE SECOND DELAY TO ENSURE RESPONDENTS READ SCREEN

TXTA1

We now have some questions on a possible new technique to control pests such as rats. The technique is called **gene drive**.

In the future, gene drive could be developed to rid New Zealand of rats. Gene drive is where an animal’s DNA is edited in the lab. These animals can only produce male offspring. The lab animals are then released into the environment and when they breed with wild animals, the number of females declines. With fewer females to breed with, the entire population size falls over time.

**ASK ALL**

**SR**

A1\_a We would like to know how you feel about the use of gene drive to control rats. If you would like to re-read the explanation of gene drive, please click back to the following screen.

‘Overall, I think gene drive to control rats is…’?

|  |  |
| --- | --- |
| Extremely harmful | 1 |
| Harmful | 2 |
| Somewhat harmful | 3 |
| Neither harmful nor beneficial | 4 |
| Somewhat beneficial | 5 |
| Beneficial | 6 |
| Extremely beneficial | 7 |

**ASK ALL**

**DYNAMIC GRID**

A2 How much do you agree or disagree with the following?

ROWS - RANDOMISE

|  |  |  |
| --- | --- | --- |
|  | I think it’s important to reduce the number of rats in New Zealand | 1 |
|  | The use of gene drive would protect New Zealand’s native wildlife by reducing the number of rats | 2 |
|  | Reducing rat numbers via gene drive would protect humans from diseases spread by rats | 3 |
|  | Using gene drive to control rat numbers would result in less chemicals being used | 4 |
|  | Gene drive would be a humane way to rid New Zealand of rats | 5 |
|  | Gene drive would be going against the natural way of life | 6 |
|  | I am concerned that the use of gene drive in rats could lead to mutations in other animals | 7 |
|  | I am concerned that there are unknown consequences to using gene drive to control rats | 8 |
|  | I am concerned that the use of gene drive in rats could lead to mutations and produce super rats | 9 |
|  | I am concerned that gene drive in rats could have unforeseen effects that are harmful to humans | 10 |

COLUMNS SR

|  |  |  |
| --- | --- | --- |
|  | Strongly disagree | 1 |
|  | Disagree | 2 |
|  | Somewhat disagree | 3 |
|  | Neither agree nor disagree | 4 |
|  | Somewhat agree | 5 |
|  | Agree | 6 |
|  | Strongly agree | 7 |

ASK ALL

**SR**

A3 How much do you oppose or support the use of gene drive to control rats?

|  |  |
| --- | --- |
| Strongly oppose | 1 |
| Oppose | 2 |
| Somewhat oppose | 3 |
| Neither oppose nor support | 4 |
| Somewhat support | 5 |
| Support | 6 |
| Strongly support | 7 |

**ASK ALL**

**DYNAMIC GRID**

A4 How much do you agree or disagree with the following?

ROWS - RANDOMISE

|  |  |  |
| --- | --- | --- |
|  | I expect that people in my household would support the use of gene drive to control rats | 1 |
|  | I expect that people like me would support the use of gene drive to control rats | 2 |
|  | I expect that people who are important to me would support the use of gene drive to control rats | 3 |

COLUMNS SR

|  |  |  |
| --- | --- | --- |
|  | Strongly disagree | 1 |
|  | Disagree | 2 |
|  | Somewhat disagree | 3 |
|  | Neither agree nor disagree | 4 |
|  | Somewhat agree | 5 |
|  | Agree | 6 |
|  | Strongly agree | 7 |

**ASK ALL**

**SR**

A5 How much do you agree or disagree with the following statement:

‘I would support the use of gene drive to control rats’

|  |  |
| --- | --- |
| Strongly disagree | 1 |
| Disagree | 2 |
| Somewhat disagree | 3 |
| Neither agree nor disagree | 4 |
| Somewhat agree | 5 |
| Agree | 6 |
| Strongly agree | 7 |

**ASK ALL**

**DYNAMIC GRID**

A6 Please rate how much you think the following groups or organisations would approve or disapprove of the use of gene drive to control rats

ROWS - RANDOMISE

|  |  |  |
| --- | --- | --- |
|  | The Department of Conservation (DOC) | 1 |
|  | Scientists | 2 |
|  | Farmers | 3 |
|  | Forest and Bird (the independent environmental organisation) | 4 |
|  | Environmentalists | 5 |
|  | Animal rights groups | 6 |
|  | The Government | 7 |

COLUMNS SR

|  |  |  |
| --- | --- | --- |
|  | Strongly disapprove | 1 |
|  | Disapprove | 2 |
|  | Somewhat disapprove | 3 |
|  | Neither approve nor disapprove | 4 |
|  | Somewhat approve | 5 |
|  | Approve | 6 |
|  | Strongly approve | 7 |

**ASK ALL**

A1\_b Overall, I think gene drive to control rats is…

COLUMNS SR

|  |  |  |
| --- | --- | --- |
|  | Extremely bad | 1 |
|  | Bad | 2 |
|  | Somewhat bad | 3 |
|  | Neither bad nor good | 4 |
|  | Somewhat good | 5 |
|  | Good | 6 |
|  | Extremely good | 7 |

**ASK ALL**

**DYNAMIC GRID**

A7 How important or not are the opinions of the following groups or organisations to you?

*Please answer on a scale of 1 to 7 where 1 = not at all important, and 7 = extremely important.*

ROWS - RANDOMISE

|  |  |  |
| --- | --- | --- |
|  | The Department of Conservation | 1 |
|  | Scientists | 2 |
|  | Farmers | 3 |
|  | Forest and Bird (the independent environmental organisation) | 4 |
|  | Environmentalists | 5 |
|  | Animal rights groups | 6 |
|  | The Government | 7 |

COLUMNS SR

|  |  |  |
| --- | --- | --- |
|  | 1 = Not at all important | 1 |
|  | 2 | 2 |
|  | 3 | 3 |
|  | 4 | 4 |
|  | 5 | 5 |
|  | 6 | 6 |
|  | 7 = Extremely important | 7 |

**ASK ALL**

A1\_c Overall, I think gene drive to control rats is…

COLUMNS SR

|  |  |  |
| --- | --- | --- |
|  | Extremely worthless | 1 |
|  | Worthless | 2 |
|  | Somewhat worthless | 3 |
|  | Neither worthless nor valuable | 4 |
|  | Somewhat valuable | 5 |
|  | Valuable | 6 |
|  | Extremely valuable | 7 |

**ASK ALL**

**DYNAMIC GRID**

A8 How would each of the following impact your views on gene drive? Would it make you feel more positive or more negative?

ROWS - RANDOMISE

|  |  |  |
| --- | --- | --- |
|  | If the Government supported it | 1 |
|  | If universities supported it | 2 |
|  | If businesses supported it | 3 |
|  | If iwi or hapū supported it | 4 |
|  | If scientific evidence can prove it works | 5 |
|  | If there is open and honest information about the pros and cons of gene drive | 6 |
|  | If there were strict controls only to be used for conservation | 7 |
|  | If I had a say / was consulted in its use | 8 |

COLUMNS SR

|  |  |  |
| --- | --- | --- |
|  | Much more positive | 1 |
|  | More positive | 2 |
|  | Slightly more positive | 3 |
|  | It wouldn’t make a difference to me | 4 |
|  | Slightly more negative | 5 |
|  | More negative | 6 |
|  | Much more negative | 7 |

**ASK ALL**

**SR**

A9 How likely, or unlikely, are you to support the use of gene drive to control rats?

|  |  |
| --- | --- |
| Extremely unlikely | 1 |
| Unlikely | 2 |
| Somewhat unlikely | 3 |
| Neutral | 4 |
| Somewhat likely | 5 |
| Likely | 6 |
| Extremely likely | 7 |

**ASK ALL**

**DYNAMIC GRID**

A10 What best describes your attitude towards the following pest control methods?

ROWS - RANDOMISE

|  |  |  |
| --- | --- | --- |
|  | Using gene drive to control rats | 1 |

COLUMNS SR

|  |  |  |
| --- | --- | --- |
|  | It should never be used under any circumstances | 1 |
|  | It should only be used as a last resort | 2 |
|  | I am uncomfortable with this, but will accept it as long as appropriate controls are in place | 3 |
|  | I am comfortable with this, as long as appropriate controls are in place | 4 |
|  | I have no concerns at all about this method | 5 |
|  | Don’t know | 6 |

**ASK ALL**

A1\_d Overall, I think gene drive to control rats is…

COLUMNS SR

|  |  |  |
| --- | --- | --- |
|  | Extremely safe | 1 |
|  | Safe | 2 |
|  | Somewhat safe | 3 |
|  | Neither safe nor risky | 4 |
|  | Somewhat risky | 5 |
|  | Risky | 6 |
|  | Extremely risky | 7 |

**109109647: Social licence to control pests – Aerial Distribution**

**Questionnaire Version B**

## **­­­­­­­­­­­­­SCREENING QUESTIONS**

Thanks for agreeing to do this survey. Firstly we have a few questions to ensure we’re surveying a wide range of people.

**DP: IF QUOTA FULL CLOSE AFTER S7**

**ASK ALL**

**NUMERIC – SCREEN OUT UNDER 18S**

**S1** Please type your age in the box below.

+ Do not wish to answer

**SR**

**S2** What is your gender?

|  |  |  |
| --- | --- | --- |
|  | Male | 1 |
|  | Female | 2 |
|  | Gender diverse | 3 |

**SR**

**S3** Where do you live?

|  |  |  |
| --- | --- | --- |
|  | Northland | 1 |
|  | Auckland | 2 |
|  | Waikato | 3 |
|  | Bay of Plenty | 4 |
|  | Gisborne | 5 |
|  | Hawke's Bay | 6 |
|  | Taranaki | 7 |
|  | Manawatu-Wanganui | 8 |
|  | Wellington | 9 |
|  | Tasman | 10 |
|  | Nelson | 11 |
|  | Marlborough | 12 |
|  | West Coast | 13 |
|  | Christchurch | 14 |
|  | Other Canterbury | 15 |
|  | Otago | 16 |
|  | Southland | 17 |

**MR**

**S4** Which of these ethnic groups best describe(s) you?

*You can choose more than one.*

|  |  |  |
| --- | --- | --- |
|  | New Zealand European | 1 |
|  | New Zealand Maori | 2 |
|  | Samoan | 3 |
|  | Cook Island Maori | 4 |
|  | Tongan | 5 |
|  | Niuean | 6 |
|  | Other Pacific Island (please type in) | 7 |
|  | Chinese | 8 |
|  | Indian | 9 |
|  | Other Asian (please type in) | 10 |
|  | Other European (please type in) | 11 |
|  | Other ethnic group (please type in) | 12 |

**ASK ALL**

**SR**

**S7** Please indicate your general attitude towards pest control in the form of poison bait spread by aircraft

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | It should never be used under any circumstances | It should only be used as a last resort | I am uncomfortable with this method but will accept it as long as appropriate controls are in place | I am comfortable with this method as long as appropriate controls are in place | I have no concerns at all about this method | Don’t know |
|  | 1 | 2 | 3 | 4 | 5 | 6 |

## **SECTION B: AERIAL DISTRIBUTION TPB SURVEY**

SHOW ALL

DP: PLEASE PLACE THREE SECOND DELAY TO ENSURE RESPONDENTS READ SCREEN

TXTA1

We now have some questions on a possible new technique to control pests such as rats.

In the future, a new toxin that is species specific could be developed. This means it would only kill pests such as rat but would not kill other animals. The toxin would be distributed from the air. This is also known as aerial distribution. The toxin would be an alternative to 1080.

This technique is called **aerial distribution of a new pest specific toxin.**

**ASK ALL**

**SR**

B1 We would like to know how you feel about the use of aerial distribution of a new pest specific toxin to control rats.

If you would like to re-read the explanation of this technique, please click back to the following screen.

‘Overall, I think the aerial distribution of a new pest specific toxin to control rats is…’?

|  |  |
| --- | --- |
| Extremely harmful | 1 |
| Harmful | 2 |
| Somewhat harmful | 3 |
| Neither harmful nor beneficial | 4 |
| Somewhat beneficial | 5 |
| Beneficial | 6 |
| Extremely beneficial | 7 |

**ASK ALL**

**DYNAMIC GRID**

B2 How much do you agree or disagree with the following statements?

ROWS - RANDOMISE

|  |  |  |
| --- | --- | --- |
|  | I believe using a pest specific toxin to kill rats would be cost effective | 1 |
|  | I am concerned that a pest specific toxin would harm our waterways | 2 |
|  | I am concerned that a pest specific toxin would be harmful / an irritant to people | 3 |
|  | I believe it is impossible to make a pest specific toxin that would not harm our native wildlife | 4 |
|  | I worry that the aerial spraying of a pest specific toxin could affect areas outside the target zones | 5 |
|  | I believe a pest specific toxin that is distributed by aircraft can eradicate rats from a large area effectively | 6 |

COLUMNS SR

|  |  |  |
| --- | --- | --- |
|  | Strongly disagree | 1 |
|  | Disagree | 2 |
|  | Somewhat disagree | 3 |
|  | Neither agree nor disagree | 4 |
|  | Somewhat agree | 5 |
|  | Agree | 6 |
|  | Strongly agree | 7 |

ASK ALL

**SR**

B3 How much do you oppose or support the use of the aerial distribution of a new pest specific toxin to control rats?

|  |  |
| --- | --- |
| Strongly oppose | 1 |
| Oppose | 2 |
| Somewhat oppose | 3 |
| Neither oppose nor support | 4 |
| Somewhat support | 5 |
| Support | 6 |
| Strongly support | 7 |

**ASK ALL**

**DYNAMIC GRID**

B4 How much do you agree or disagree with the following?

ROWS - RANDOMISE

|  |  |  |
| --- | --- | --- |
|  | I expect that people in my household would support the use of aerial distribution of a new pest specific toxin to control rats | 1 |
|  | I expect that people like me would support the use of aerial distribution of a new pest specific toxin to control rats | 2 |
|  | I would expect that people who are important to me would support the use of aerial distribution of a new pest specific toxin to control rats | 3 |

COLUMNS SR

|  |  |  |
| --- | --- | --- |
|  | Strongly disagree | 1 |
|  | Disagree | 2 |
|  | Somewhat disagree | 3 |
|  | Neither agree nor disagree | 4 |
|  | Somewhat agree | 5 |
|  | Agree | 6 |
|  | Strongly agree | 7 |

**ASK ALL**

**SR**

B5 How much do you agree or disagree with the following statement:

‘I would support the use of aerial distribution of a pest specific toxin to control rats’

|  |  |
| --- | --- |
| Strongly disagree | 1 |
| Disagree | 2 |
| Somewhat disagree | 3 |
| Neither agree nor disagree | 4 |
| Somewhat agree | 5 |
| Agree | 6 |
| Strongly agree | 7 |

**ASK ALL**

**DYNAMIC GRID**

B6 Please rate how much you think the following groups or organisations would approve or disapprove of the use of aerial distribution of a new pest specific toxin to control rats

ROWS - RANDOMISE

|  |  |  |
| --- | --- | --- |
|  | The Department of Conservation | 1 |
|  | Scientists | 2 |
|  | Farmers | 3 |
|  | Forest and Bird (the independent environmental organisation) | 4 |
|  | Environmentalists | 5 |
|  | Animal rights groups | 6 |
|  | The Government | 7 |

COLUMNS SR

|  |  |  |
| --- | --- | --- |
|  | Strongly disapprove | 1 |
|  | Disapprove | 2 |
|  | Somewhat disapprove | 3 |
|  | Neither approve nor disapprove | 4 |
|  | Somewhat approve | 5 |
|  | Approve | 6 |
|  | Strongly approve | 7 |

**ASK ALL**

B1\_b Overall, I think the aerial distribution of a new pest specific toxin to control rats is…

COLUMNS SR

|  |  |  |
| --- | --- | --- |
|  | Extremely bad | 1 |
|  | Bad | 2 |
|  | Somewhat bad | 3 |
|  | Neither bad nor good | 4 |
|  | Somewhat good | 5 |
|  | Good | 6 |
|  | Extremely good | 7 |

**ASK ALL**

**DYNAMIC GRID**

B7 How important or not are the opinions of the following groups or organisations to you?

*Please answer on a scale of 1 to 7 where 1 = not at all important, and 7 = extremely important.*

ROWS - RANDOMISE

|  |  |  |
| --- | --- | --- |
|  | The Department of Conservation | 1 |
|  | Scientists | 2 |
|  | Farmers | 3 |
|  | Forest and Bird (the independent environmental organisation) | 4 |
|  | Environmentalists | 5 |
|  | Animal rights groups | 6 |
|  | The Government | 7 |

COLUMNS SR

|  |  |  |
| --- | --- | --- |
|  | 1 = Not at all important | 1 |
|  | 2 | 2 |
|  | 3 | 3 |
|  | 4 | 4 |
|  | 5 | 5 |
|  | 6 | 6 |
|  | 7 = Extremely important | 7 |

**ASK ALL**

B1\_c Overall, I think the aerial distribution of a new pest specific toxin to control rats is…

COLUMNS SR

|  |  |  |
| --- | --- | --- |
|  | Extremely worthless | 1 |
|  | Worthless | 2 |
|  | Somewhat worthless | 3 |
|  | Neither worthless nor valuable | 4 |
|  | Somewhat valuable | 5 |
|  | Valuable | 6 |
|  | Extremely valuable | 7 |

**ASK ALL**

**DYNAMIC GRID**

B8 How would each of the following impact your views on a pest specific toxin to control rats? Would it make you feel more positive or more negative?

ROWS - RANDOMISE

|  |  |  |
| --- | --- | --- |
|  | If relevant groups have a chance to comment on its use | 1 |
|  | If there is scientific evidence to validate its use | 2 |
|  | If there is information presented about its long-term impact on the environment | 3 |

COLUMNS SR

|  |  |  |
| --- | --- | --- |
|  | Much more positive | 1 |
|  | More positive | 2 |
|  | Slightly more positive | 3 |
|  | It wouldn’t make a difference to me | 4 |
|  | Slightly more negative | 5 |
|  | More negative | 6 |
|  | Much more negative | 7 |

**ASK ALL**

**SR**

B9 How likely, or unlikely, are you to support the use of aerial distribution of a pest specific toxin to control rats?

|  |  |
| --- | --- |
| Extremely unlikely | 1 |
| Unlikely | 2 |
| Somewhat unlikely | 3 |
| Neutral | 4 |
| Somewhat likely | 5 |
| Likely | 6 |
| Extremely likely | 7 |

**ASK ALL**

**DYNAMIC GRID**

B10 What best describes your attitude towards the following pest control methods?

ROWS - RANDOMISE

|  |  |  |
| --- | --- | --- |
|  | Using aerial distribution of a pest specific toxin to control rats | 1 |

COLUMNS SR

|  |  |  |
| --- | --- | --- |
|  | It should never be used under any circumstances | 1 |
|  | It should only be used as a last resort | 2 |
|  | I am uncomfortable with this, but will accept it so long as appropriate controls are in place | 3 |
|  | I am comfortable with this, so long as appropriate controls are in place | 4 |
|  | I have no concerns at all about this method | 5 |
|  | Don’t know | 6 |

**ASK ALL**

B1\_d Overall, I think the aerial distribution of a new pest specific toxin to control rats would is…

COLUMNS SR

|  |  |  |
| --- | --- | --- |
|  | Extremely safe | 1 |
|  | Safe | 2 |
|  | Somewhat safe | 3 |
|  | Neither safe nor risky | 4 |
|  | Somewhat risky | 5 |
|  | Risky | 6 |
|  | Extremely risky | 7 |