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Page 4: New Zealand's interests in space

Q7 **General interest in space, Work in the New Zealand space sector**
 What are your interests and relationship to space? Pick as many as apply below:

Q8 **Respondent skipped this question**
 Please note any other interests and relationship to space below that you would like to share.

Page 5: New Zealand's values in space

Q9
 To what extent do you agree or disagree that these values should apply to New Zealand's space activities and engagements?

| | |
|----------------|-----------------------------------|
| Innovation | Strongly agree |
| Responsibility | Strongly agree |
| Stewardship | Strongly agree |
| Partnership | Neither agree nor disagree |

Q10
 Are there any other values, or aspects of kaitiakitanga (guardianship), that you think should apply to New Zealand's space activities and engagements? For example, cultural values regarding space.

Partnership with like-minded foreign nations and institutions is particularly valuable and important. In regard to cultural connections, it is important that the cultural and world views of all interested parties are considered in any policy since space is shared by all states and all cultures.

Page 6: New Zealand's space policy objectives

Q11 **Respondent skipped this question**
 Rank these key policy objectives in order of importance to you: Click and drag to reorder the objectives from 1 (most important) to 5 (least important)

Page 7: Growing an innovative and inclusive space sector

Q12

To what extent do you agree or disagree that these policy objectives will help the New Zealand government to grow an innovative and inclusive space sector?

Promoting New Zealand's natural advantage for conducting space activities, and research and development expertise across the space value chain **Strongly agree**

Partnering within New Zealand and internationally to increase research and development capabilities **Strongly agree**

Identifying opportunities to increase diversity in the space sector **Agree**

Using cutting-edge space technology and space sourced data to support New Zealand's values and interests **Strongly agree**

Q13

Respondent skipped this question

Do you have any comments on these policy objectives? (e.g. any suggested change to how they are framed? Is there anything missing?)

Q14

Are there any other policy objectives that you think would help the New Zealand government to grow an innovative and inclusive space sector?

I think a policy objective to promote the use of home-grown space technology in NZ Government supply chains would be useful. This could be particularly helpful to both enable local companies to create valuable capabilities, but also to improve supply chain resiliency and value for money as compared with overseas prime contractors. Many SMEs would prefer to have the Government / military as a customer, rather than an investor or funder.

Another objective may be to work towards the first Kiwi astronaut.

Q15

Respondent skipped this question

Do you have any questions or comments about what these objectives would mean in practice?

Page 8: Promoting the responsible uses of space internationally

Q16

To what extent do you agree or disagree that these policy objectives will help the New Zealand government to promote the responsible uses of space internationally?

Advocating for effective international rules, norms and standards in space **Strongly agree**

Partnering with like-minded launch states to adopt peaceful, responsible and sustainable space practices **Strongly agree**

Collaborating internationally to increase New Zealand's influence and capabilities in the global space sector **Strongly agree**

Q17

Respondent skipped this question

Do you have any comments on these policy objectives (e.g. any suggested change to how they are framed? Is there anything missing?)

Q18

Respondent skipped this question

Are there any other policy objectives that you think would help the New Zealand government to promote the responsible uses of space internationally?

Q19

Respondent skipped this question

Do you have any questions or comments about what these objectives would mean in practice?

Page 9: Protecting and advancing our national security and economic interests

Q20

To what extent do you agree or disagree that these policy objectives will help the New Zealand government to protect and advance our national security and economic interests?

Use space assets to protect and advance New Zealand's national security and economic interests **Strongly agree**

Manage the broad range of security risks in space to protect New Zealand's space industry **Strongly agree**

Collaborate with international space and security partners to pursue New Zealand's national security and economic interests **Strongly agree**

Q21

Do you have any comments on these policy objectives (e.g. any suggested change to how they are framed? Is there anything missing?)

In regard to security, I believe that NZ should not shy away from the use of space for the peaceful use of space for military applications such as communications, surveillance and early warning systems etc., given that we depend on such systems either directly, or indirectly.

Q22

Respondent skipped this question

Are there any other policy objectives that you think would help the New Zealand government to protect and advance our national security and economic interests?

Q23

Do you have any questions or comments about what these objectives would mean in practice?

I think a policy objective to promote the use of home-grown space technology in military supply chains would be useful. This could be particularly helpful to both enable local companies to create valuable capabilities, but also to improve supply chain resiliency and improve value for money as compared with overseas prime contractors. Many SMEs would prefer to have the Government / military as a customer, rather than an investor or funder.

Page 10: Modelling sustainable space and Earth environments

Q24

To what extent do you agree or disagree that these policy objectives will help the New Zealand government to model sustainable space and Earth environments?

| | |
|--|-----------------------------------|
| Encouraging inclusive, sustainable space collaborations within New Zealand | Agree |
| Assessing the cumulative impact of space activities on the Earth environment | Neither agree nor disagree |
| Assisting with solving sustainability challenges through space data, including to better monitor or understand the Earth's environment | Strongly agree |
| Investing in New Zealand's capability to retain, grow, access and use sustainable space technologies | Strongly agree |

Q25

Do you have any comments on these policy objectives (e.g. any suggested change to how they are framed? Is there anything missing?)

It may be worth clarifying if (b) includes positive impacts – since space data can have a positive impact on the Earth environment.

Q26

Respondent skipped this question

Are there any other policy objectives that you think would help the New Zealand government to model sustainable space and Earth environments?

Q27

Do you have any questions or comments about what these objectives would mean in practice?

While I support these objectives, they may be difficult to achieve in practice, or may have negligible impact, given the small size of our population and limited role in the global space industry. Perhaps some clarification would be helpful on how these activities will lead to a benefit to the environment and / or New Zealand.

Page 11: Regulating to ensure space activities are safe and secure

Q28

To what extent do you agree or disagree that these policy objectives will help the New Zealand government to promote the responsible uses of space internationally?

| | |
|--|-----------------------------------|
| Facilitating the safe and secure use of emerging space technologies from New Zealand | Agree |
| Clarifying what New Zealand space activities are inconsistent with the national interest | Neither agree nor disagree |
| Promoting and protecting New Zealand's interests through permitting space technologies | Agree |

Q29

Do you have any comments on these policy objectives (e.g. any suggested change to how they are framed? Is there anything missing?)

If there is an effort to clarify what space activities are inconsistent with the national interest, then there should also be an effort to clarify which activities are consistent with the national interest. As part of this, I believe it should be made clear that security (and contributing to our international security partnerships) is a key component of the national interest – which may involve the development, launch, operation of use of space-based military assets / data.

Q30

Respondent skipped this question

Are there any other policy objectives that you think would help the New Zealand government to ensure space activities are safe and secure?

Q31

Respondent skipped this question

Do you have any questions or comments about what these objectives would mean in practice?

Page 12: Regulating in line with our national interests

Q32

Are there any comments you would like to make about these criteria that inform consideration of the national interest?

I believe it should be made clear that security (and contributing to our international security partnerships) is a key component of the national interest – which may involve the development, launch, operation of use of space-based military assets / data. This should be explicitly included in the plain language guidelines.

Q33

What questions do you have about how the national interest is considered in practice?

It may be worth considering how much emphasis should be placed on the Responsibility / Safety aspects when compared with other space actors (particularly the USA and Europe). We should make sure that our standards align with theirs in order avoid being hamstrung by overly restrictive local regulations, which would be counterproductive since our activities represent a tiny fraction of those conducted globally.
