

#50

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Page 3: Submitter Information

Q2 **No**

Are you making this submission on behalf of a business or organisation?

Page 4: New Zealand's interests in space

Q7 **General interest in space**

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	Neither agree nor disagree
Responsibility	Strongly agree
Stewardship	Strongly agree
Partnership	Agree

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.

The overarching value should be that space should be used for PEACEFUL PURPOSES ONLY. This fits well with the values of Responsibility and Stewardship. The Partnership value should focus on the stated principles of Te Tiriti o Waitangi rather than collaborating with "international partners on economic, security and other interests".

Page 6: New Zealand's space policy objectives

Q11

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)

Growing an innovative and inclusive space sector	5
Modelling sustainable space and Earth environments	3
Promoting the responsible uses of space internationally	2
Protecting and advancing our national security and economic interests	4
Regulating to ensure space activities are safe and secure	1

Page 7: Growing an innovative and inclusive space sector

Q12

Respondent skipped this question

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?

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

Respondent skipped this question

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

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

Don't know

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

Don't know

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

Q21

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?)

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?

It is completely unclear what these objectives mean in practice. Does this make spying on other countries a Space Policy objective? I don't think this reflects NZ's stated value of using space for peaceful purposes.

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	Strongly agree
Assessing the cumulative impact of space activities on the Earth environment	Strongly agree
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

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?)

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?

There are questions that need to be addressed regarding the sustainability of a space industry and the damage rocket launches do to the environment. According to recent research, (Ryan & Marais et al, 2022) rockets emit gaseous and solid chemicals directly into the upper atmosphere. The black carbon (BC) or soot particles from rockets are almost five hundred times more efficient at warming the atmosphere than all other sources of soot combined. Robert G. Ryan, Eloise A. Marais, Chloe J. Balhatchet, Sebastian D. Eastham

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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	Strongly agree
Clarifying what New Zealand space activities are inconsistent with the national interest	Strongly agree
Promoting and protecting New Zealand's interests through permitting space technologies	Don't know

Q29

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?)

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

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

It is not clear to me what the last policy objective would mean in practice (Promoting and protecting NZ's interests through permitting space technologies).

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?

Aotearoa New Zealand must adhere to its stated "independent foreign policy" and must put NZ's values first. Core values include NZ's nuclear free stance. NZ's top disarmament priority is the elimination of nuclear weapons. In light of this, launching payloads for foreign militaries or intelligence agencies or contractors, particularly nuclear armed states, is clearly contrary to NZ's stated values and disarmament goals. Foreign military payloads should be banned whether or not they include weapons or associated targeting or guidance systems, experimental or otherwise eg Gunsmoke-J.

Space launches from NZ must be for peaceful purposes only.

Q33

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

NZ's core values must be put first and I question whether this is happening in practice. Allowing foreign military payloads to be launched from NZ soil contravenes our independent foreign policy and our core values. Rocket launches from NZ should only be for peaceful purposes.
