

#60

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Collector: Web Link 2 (Web Link)
Started: Tuesday, November 01, 2022 11:12:45 AM
Last Modified: Tuesday, November 01, 2022 11:28:12 AM
Time Spent: 00:15:27
IP Address: 121.99.242.176

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 **Work in the New Zealand space sector**

What are your interests and relationship to space? Pick as many as apply below:

Q8
Please note any other interests and relationship to space below that you would like to share.

This response is a personal submission only. I have associations with the following organisations: • Rocket Lab • Space Industry Association of Australia

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	Strongly agree

Q10 **Respondent skipped this question**

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.

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

Q13

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

Further to the "Identifying opportunities to increase diversity in the space sector" objective, I think the industry would benefit from some critical analysis on what policies and programs have been conducted over the last 3 decades and their outcomes. Women in STEM has been a particular focus for governments globally for 3 decades, and the needle has barely moved, specifically in mechanical and aerospace engineering. Before identifying opportunities and associated actions, the government should conduct a review of both NZ government funded programs as well as global exemplars that have demonstrated effectiveness. The statement should be broadened to "identifying opportunities and actions...". Secondly, diversity is a narrow definition and should be referred to more broadly as "diversity, equity and inclusion". Without equity and inclusion, diversity measures will not have long term effectiveness. The word inclusion is used in the section title but needs to be reiterated in the diversity objective.

Q14

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

Any mechanisms to identify minority owned businesses and provide them with opportunities would be beneficial to combine the inclusivity and innovation goals.

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

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

Respondent skipped this question

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

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

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

It is unclear what the definition of "inclusive" refers to in objective 3.b.1. It is unclear what objective 3.b.2. intends to achieve. It appears to be an action to assess the global impact however the paper references the NZ EEZ only. It could be clarified by indicating whether the government is concerned specifically about impact on the NZ environment or whether the concern is about the impact on the environment at large. Objective 3.b.4 should identify what "global issues" are of particular concern to the government.

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?

As per Q10, it is unclear what 3.b.2 would look like in practice.

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 **Strongly 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?)

Objective 3.e.2 - the definition of "national interest" lies across multiple government departments and industries, so the owner of this definition should be identified.

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 unclear how objective 3.e.1 would be implemented, and how the government would weigh the potential benefits (e.g. internet coverage in regions) against any potential negative consequences (e.g. astronomy interference). It is unclear how objective 3.e.3. would be implemented given NZ owns a relatively small share of the world's space debris.

Page 12: Regulating in line with our national interests

Q32

Respondent skipped this question

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

Q33

Respondent skipped this question

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