

#49

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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 **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.

As an employee within the New Zealand space sector, I have witnessed first-hand the huge growth in the sector over the last 5-10 years, both in private industry and research.

New Zealand has always had a reputation of "punching above our weight" when it comes to technology and innovation, and we have the opportunity here for the NZ Government to aggressively support the development of the NZ space sector through ambitious goal setting.

This will enable the creation of many more jobs, both in direct "space" companies or research, but also build the surrounding supplier and support base, affecting the wider community. Growing the sector will also bring world-class talent and generous financial investment to New Zealand.

A further area which New Zealand has the potential to capitalise on (which seems considerably untapped) is Tourism, with our dark sky reserves, possible launch tourism and more.

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

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

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	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?)

Growing an innovative and inclusive space sector is of particular importance to me as a woman working in the space sector, and more generally as a woman working in a STEM role.

I am a member of the Women in Space Aotearoa New Zealand (WISANZ) network which was launched in 2021 to expand opportunities for women and gender minorities within the New Zealand space sector. We aim to grow representation in the sector through outreach programmes with high-school and tertiary students, encourage more women to join the sector, and support those already in the sector through networking, mentoring and other similar events.

New Zealand is already at the forefront of technology and achievements within the space sector, with growth of companies such as Rocket Lab, Dawn Aerospace, Kea Aerospace and a number of others. With further innovation, New Zealand has the opportunity to push the boundaries on what is possible, and create meaningful improvements for day-to-day lives of all Kiwi's. But diversity, equity and inclusivity within the sector is key to achieving meaningful innovation – diversity of backgrounds, thoughts, experiences, knowledge and perspectives all help to bring different ideas. This also applies to cultural minorities within the sector such as Māori and Pasifika.

Promotion of awareness and education around the NZ space sector by the Government would bring more investment and make opportunities more widely known. This could be achieved through investment in a "New Zealand mission" which the public could get behind, and have the advantage of addressing multiple policy objectives noted above within a single mission.

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

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

As a general comment on New Zealand's space policy - the sector is cutting-edge and fast moving, so the Government will need to find a way to keep pace with the sector and key players within it, adjusting policy as required moving forward so as to promote innovation and not to stifle growth.

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 | 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 **Agree**

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

Collaborate with international space and security partners to pursue New Zealand's national security and economic interests **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	Neither agree nor disagree
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	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?)

The framing of the objectives does not clearly address sustainability IN space. New Zealand has always been proud of its "clean and green" image and is perfectly placed to lead sustainability initiatives to protect the space environment, for example, through initiatives to actively reduce "space junk".

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

Respondent skipped this question

Do you have any questions or comments about what these objectives would mean 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	Agree
Promoting and protecting New Zealand's interests through permitting space technologies	Strongly agree

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

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?

There has been growing misinformation around the sector in recent months, and I would like to see the Government address this misinformation domestically, such as supplying more detail around how the space sector is benefitting every-day New Zealanders particularly around payloads being approved for launch from New Zealand.

Growing the understanding of the New Zealand public with relation to the space sector and its benefits will also support with the aligning of values and interests. As mentioned in a previous question with regard to innovation and education in the sector, investment in a "New Zealand national mission" could address this understanding.

Q33

Respondent skipped this question

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