

#56

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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,
Academic involvement on space issues**

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.

Director of the Space Institute at the University of Auckland. We carry out applied research and provide facilities (Assembly Integration and Testing) to support companies operating in the space sector and beyond, as well as courses in Aerospace Engineering.

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
Promoting the responsible uses of space internationally	2

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	Agree
Partnering within New Zealand and internationally to increase research and development capabilities	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	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?)

"Promoting New Zealand's natural advantage for conducting space activities" and promoting "research and development expertise across the space value chain" are in my opinion quite different and should be separated as two different objectives.

As the county already has a capability to launch satellites, which only a few other counties have, this should be leveraged by a policy objective to develop a capability to design, build and operate the satellites themselves. This would create an end-to-end capability that would enable an optimization across the whole space value chain.

In addition, there should be an effort to advance the sector as a more balanced and diverse ecosystem, supporting different companies/institutions (which play different roles) thus reducing the dependence and reliance on a single player to develop the whole sector.

Q14

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

There should be an objective to create mechanisms that encourage partnership in projects between research/academic institutions and companies

There should be an objective to support R & D focussed on the development of space technologies & applications with market potential, commercial or public good purpose.

It is great to support international partnerships, but the world is changing very rapidly and unpredictably. Therefore, it is of paramount importance that we also develop and retain local/sovereign capability and it would be good to have this somehow captured in the objectives.

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 **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 **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

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

International collaborations are indeed crucial to "Protect and advance our national security and economic interests". However, the last few years have shown that the world is a rapidly and unpredictably changing place. Therefore, it is of paramount importance that we also develop and retain some local/sovereign capability, thus reducing our dependency. This seems to be missing from the current policy.

Q22

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?

Following from the point above, one policy objective really should be to develop and maintain some key local/sovereign capability in the space sector.

As we are one of the few countries in the world with a capability to actually launch satellites, this should be leveraged creating competence to develop (design, build and operate) the satellites themselves and establish an end-to-end capability. This would be valuable both from a commercial perspective, as it would enable an optimization across the whole space value chain, and strategically as it would decrease our current reliance on foreign countries.

Q23

Respondent skipped this question

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

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 **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 **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**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 **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 **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

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?
