

#43

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Page 3: Submitter Information

Q1

Personal Information

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Q2**No**

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

Q3**Yes**

Would you like to be kept informed of the outcome of the Space Policy Review?

Q4**Yes**

Are you happy for MBIE to contact you if we have questions about your submission?

Q5**Respondent skipped this question**

Privacy

Q6

Release of Information

I understand that if there is other information in this submission that I do not wish to be released, I will email this to spacepolicyreview@mbie.govt.nz with the subject line "Release of information", together with my reasons for withholding the information and grounds under the Official Information Act 1982, for consideration by MBIE

Page 4: New Zealand's interests in space

Q7

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

General interest in space,
Work in the New Zealand space sector,

Other (please specify):

Two decades international Space Defence experience

Q8

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

Respondent skipped this question

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

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.

Would like to see a more public emphasis on 'Responsibility – Space is a unique domain which is shared by all states' by the NZSA. I see a misunderstanding by the layperson on who 'owns' space and what NZ's role is as a space domain contributor. When it come to partnership is it worth mentioning interoperability amongst the 5 Eye nations as it applies to 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	2
Modelling sustainable space and Earth environments	3
Promoting the responsible uses of space internationally	5
Protecting and advancing our national security and economic interests	1
Regulating to ensure space activities are safe and secure	4

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	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

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

R&D is certainly important to the space industry but its worth noting that any outcomes will likely take up to 20 years to have an impact on society (such is the nature of R&D). The industry is here now operating in NZ and encouraging and developing new applications will have more of an immediate impact. A plan to establish space ops that currently are executed overseas to grow sector diversity would be ideal, for example space traffic management capabilities being completed by LeoLabs. An STM/SSA capability here is certainly achievable with the current focus on sharing data within the SSA world and there's some excellent SSA analysts in NZ right now (Jovan Skuljan & Roberto Armellin etc)

Q14

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

yes, an increase in space data exploitation and analysis would allow greater and broader entry to more NZ space players due to the decreased cost of entry and faster application of data. We are already seeing this applicability in say the maritime domain awareness sector

Q15

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

Increased access to space data for commercial companies and academia would allow greater, faster entry to the sector

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

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

Do many of these policy objectives just restate international space policy in other words? E.g. the peaceful and sustainable obj - is that not the de-orbit (anti-junk) and the anti ASAT policy restated?

Q18

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

Increased data standardisation to allow accessibility to space data more readily

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?)

Use our natural geographical advantage to increase our stake with our international partners. We could have a ground station/tracking station that support anyone performing Ops overhead, that's a significant fraction of LEO space vehicles. If such a ground station offered a secure link it would increase NZ's space domain capabilities within the five eye nations

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?

please see above

Q23

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

A greater NZDF space footprint and more NZ space capability and knowledge kept within NZ. More objectives allowing a pipeline of personnel development between academia, industry and government

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	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

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

accessibility. How to increase the ability of the 'ordinary' NZ person to access space data

Q27

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

Would have to be balanced against national interests

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

Don't know

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

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

Does safe mean improving the safety of space tech or improving the safety of the NZ person using space tech? Or does it mean safer operations? Compliance with OOSHAA drives the first option only. That's not a problem but its worthwhile being clear

Q30

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

As high altitude vehicles will also fall under this policy is it worth having defined organizational hierarchy for HADR ops within NZ? I could see multiple vehicles being operated by different govt orgs being an issue in an emergency

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?

In 2008 Operation Burnt Frost intercepted and destroyed a non-operating spacecraft to prevent a destructive collision in space. In 2022 NASA deployed a kinetic energy intercept DART into an asteroid. To be clear you've just prohibited this in the policy.

Q33

Respondent skipped this question

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