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**COMPLETE**

**Collector:** Web Link 1 (Web Link)  
**Started:** Monday, September 12, 2022 1:54:37 PM  
**Last Modified:** Monday, September 12, 2022 3:17:16 PM  
**Time Spent:** 01:22:39  
**IP Address:** 122.58.122.101

Page 3: Submitter Information

**Q1**

Personal Information

Name	Patrick Cummuskey
Email Address	patrick.cummuskey@gmail.com

**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](mailto: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,**

Other (please specify):

Interest in the applicability of space sector developments on other sectors

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**Q8**

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

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**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	<b>Strongly agree</b>
Responsibility	<b>Strongly agree</b>
Stewardship	<b>Strongly agree</b>
Partnership	<b>Strongly agree</b>

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**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.

Future space exploration and colonisation brings with it the prospect to provide a level of expansion and freedoms that are at present constrained by power groups with self-serving interests. While recognising the fair right for those who put in the effort and take the risks to venture into space to recoup a level of reward for their investment, we should endeavour to ensure that early explorers do not gain an inexhaustible right over new off-world territory and resources. We cannot allow space to become corrupted by the excesses of capitalism and controlled by the interests of the few.

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

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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	<b>Strongly agree</b>
Partnering within New Zealand and internationally to increase research and development capabilities	<b>Strongly agree</b>
Identifying opportunities to increase diversity in the space sector	<b>Strongly agree</b>
Using cutting-edge space technology and space sourced data to support New Zealand's values and interests	<b>Strongly agree</b>

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**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?)

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**Q14**

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

'Realising opportunities for the broader NZ populace to engage in our efforts in the space sector.' I believe there would be substantial benefit to be had in developing a youth-to-senior citizen range of engagement opportunities for members of our populace to be part of our work in the space sector. The crowd sourcing of challenges through 'citizen science' engagement pathways that cover the humanities as well as engineering and science could help to provide meaning to a lot of people of all ages. In the event that off-world manned exploration and colonisation becomes a feasible prospect, this sort of engagement might serve us well to have prepared our populace for the realities of life beyond Earth. There are also likely to be many Earth-related benefits (social, scientific & economic) to be realised from greater engagement with the sector by a broader section of the populace.

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**Q15**

Respondent skipped this question

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

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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**

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**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?)

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**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?

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**Q19**

Respondent skipped this question

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

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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**

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**Q21**

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

Anticipating that there will be those who believe that space should be restricted to peaceful applications, while it would be great for that to be the case, it seems unlikely to play out that way. As NZ is unlikely to be able to act as an autonomous entity, especially with regard to space exploration, the geopolitical reality of needing to align with certain other entities over others and the defence related implications of that needs to be realised. Therefore it would seem necessary to ensure we allow for some level of controlled utilisation of space sector activities to support broader defence objectives.

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**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?

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**Q23**

**Respondent skipped this question**

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

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**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	<b>Strongly agree</b>
Assessing the cumulative impact of space activities on the Earth environment	<b>Strongly agree</b>
Assisting with solving sustainability challenges through space data, including to better monitor or understand the Earth's environment	<b>Strongly agree</b>
Investing in New Zealand's capability to retain, grow, access and use sustainable space technologies	<b>Strongly agree</b>

**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?

I think it would be of significant benefit to start thoroughly mapping out potential roadmaps for our activities in space and the implications. This might include the likes of manned exploration and colonisation, asteroid mining, and even the possibility of eventual contact with alien organisms (sentient or otherwise).

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	<b>Strongly agree</b>
Clarifying what New Zealand space activities are inconsistent with the national interest	<b>Strongly agree</b>
Promoting and protecting New Zealand's interests through permitting space technologies	<b>Strongly agree</b>

**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?)

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**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?

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**Q31**

Respondent skipped this question

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

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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?

When considering safety, although we should endeavour to reduce the risk to life as much as practically possible, as we are likely aiming to push the bounds of human exploration and colonisation beyond what has ever been done before, an acceptance for an increased level of risk needs to be considered. We cannot blind ourselves to the reality that we as a species we are likely to lose explorers in this quest, but that their efforts may help to save many more who would perish on earth through the depletion of the environment, geopolitical conflicts, and other strains our planet is under at present.

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**Q33**

Respondent skipped this question

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

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