

#9

**COMPLETE**

**Collector:** Web Link 1 (Web Link)  
**Started:** Sunday, October 30, 2022 1:05:03 PM  
**Last Modified:** Sunday, October 30, 2022 1:30:48 PM  
**Time Spent:** 00:25:45  
**IP Address:** 151.210.174.5

---

Page 3: Submitter Information

**Q1**

Personal Information

Name	<b>Catherine Bircher</b>
Email Address	<b>cat.bircher@gmail.com</b>

---

**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**

**General interest in space**

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

---

**Q8**

**Respondent skipped this question**

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

---

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>Neither agree nor disagree</b>
Responsibility	<b>Strongly agree</b>
Stewardship	<b>Strongly agree</b>
Partnership	<b>Strongly agree</b>

---

**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.

Our involvement in space should weigh the value of the research intended to be done by each launch against the environmental damage done my each launch, and should be aligned with our climate emission commitments.

---

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>4</b>
Modelling sustainable space and Earth environments	<b>3</b>
Promoting the responsible uses of space internationally	<b>1</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>

---

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 disagree</b>
Partnering within New Zealand and internationally to increase research and development capabilities	<b>Strongly disagree</b>
Identifying opportunities to increase diversity in the space sector	<b>Neither agree nor disagree</b>
Using cutting-edge space technology and space sourced data to support New Zealand's values and interests	<b>Agree</b>

---

**Q13**

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

There is no mention of any measurement of the environmental impact of the space sector, or of any alignment of space activities with environmental obligations

---

**Q14**

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

An undertaking that all research or activities conducted in space from New Zealand will freely share their research findings with the world scientific community without monetary or other barriers. and that no activities in this industry will support military research or activities in any way

---

**Q15**

**Respondent skipped this question**

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

---

**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                                    | <b>Strongly agree</b>             |
| Partnering with like-minded launch states to adopt peaceful, responsible and sustainable space practices      | <b>Strongly agree</b>             |
| Collaborating internationally to increase New Zealand's influence and capabilities in the global space sector | <b>Neither agree nor disagree</b> |
- 

**Q17**

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

"Sustainable" is a word that can mean whatever the reader interprets it to mean. The act should define "sustainable" with specific reference to the environmental damage done by space launches and by the return to earth of any materials sent to space.

---

**Q18**

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

- The Outer Space and High-altitude Activities Act 2017 must be amended to:
- Ban space launches with payloads containing any military hardware
  - Prevent the launch of payloads that serve the interests of foreign military and intelligence agencies
- 

**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                              | <b>Strongly disagree</b> |
| Manage the broad range of security risks in space to protect New Zealand's space industry                                   | <b>Strongly disagree</b> |
| Collaborate with international space and security partners to pursue New Zealand's national security and economic interests | <b>Strongly disagree</b> |
-

**Q21**

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

This section is carefully worded to allow the usage of our resources by military and intelligence organisations other than our own government. e.g. the "five eyes" intelligence gathering group.

**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?

It should be explicitly stated in the act that the government will commission further detailed Ecological Risk Assessments of the environmental effects of space activities, particularly rocket launches. It should state that the NZ Government acknowledges that contributing to the militarisation of space goes against the national interest.

It should also be explicitly stated that the NZ Government will never allow any payload to be launched from New Zealand that could facilitate the command and control of nuclear weapons.

**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 **Neither agree nor disagree**

Assisting with solving sustainability challenges through space data, including to better monitor or understand the Earth's environment **Neither agree nor disagree**

Investing in New Zealand's capability to retain, grow, access and use sustainable space technologies **Neither agree nor disagree**

**Q25**

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

There is nothing in the law that requires either the government or private space operators to consult and genuinely listen to tangata whenua - this is a breach of TE Tiriti, which must be addressed in the legislation.

Reducing the environmental effects of space activities, including rocket launches, should be a priority.

**Q26**

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

Every single launch proposal should be evaluated against strict criteria to determine if the benefit to human knowledge outweighs the environmental cost of that launch. All military launch proposals should be explicitly forbidden from using NZ locations and facilities.

---

**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

**Neither agree nor disagree**

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

**Neither agree nor disagree**

---

**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?

What about intended end uses that enable the surveillance or monitoring of personal activities for populations other than New Zealand's in order to control them? That doesn't seem to be addressed?

---

**Q33**

**Respondent skipped this question**

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

---