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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.

I work as an engineer at Rocket Lab but I am also on the board for Aerospace Auckland and committee for Women in Space Aotearoa New Zealand.

Growing up in New Zealand, I never thought a career in the space industry was a possibility – I thought it was something that only Americans could do. I graduated from the University of Auckland and started work as an engineer in Australia where salaries were higher than anything I could get in New Zealand. But a few years into this, I heard a rocket company was launching customer payloads from New Zealand soil. I was absolutely in awe and suddenly realised working in such a fascinating sector was actually an option for someone like me. The establishment of a space sector in New Zealand, of which Rocket Lab has been largely responsible for, has defined the trajectory of my career. It gave me the confidence to leave my previous career path and pursue further study with the knowledge that I could return home to New Zealand to work in the space sector. I took a lower salary for the opportunity to work on something as innovative and exciting as rocket launch. There is no doubt in my mind that companies like Rocket Lab are helping to combat the brain drain New Zealand has historically experienced. Not only has it brought New Zealanders like myself back from overseas but it has also attracted highly skilled international talent to live/work in our beautiful country. The NZ Government should be doing all it can to grow high tech sectors such as the space industry to retain and attract talent here.

There are not many countries in the world that are lucky enough to launch rockets from their backyard and it is something I am immensely proud of as a New Zealander. For me, it continues the trend of our small country punching above our own weight on the global stage and gives me the same feeling winning as New Zealand winning a gold medal at the Olympics. My Australian friends are envious of the sector we have built here and there have been numerous Australians move over to work at Rocket Lab. Many of my American and European classmate from my masters degrees have also considered moving to New Zealand to work for Rocket Lab. The fact that I get to spend my day contributing to space missions from my home country is all I could ever dream of. My hope is that the whole of NZ can be as proud of its space sector as we are of our dairy or wine sectors.

## 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>

**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.

Kaitiakitanga relates to caring for your environment but also the community in which you live and work in. I believe the New Zealand space strategy should focus more on building the relationship between the general public and space through awareness, education and outreach strategies. We also should consider how we can be good guardians of this sector and ensure it continues to grow sustainability so future generations can enjoy engaging with it, either through their careers or as community members.

## Page 6: New Zealand's space policy objectives

**Q11**

**Respondent skipped this question**

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)

## 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>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>

**Q13**

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

I think we should working on establishing close collaboration between industry, academia and government to grow this sector together. It is important that we understand the issues and concerns across various areas of the sector and figure out what they need to grow. I know groups such as Aerospace Auckland and Women in Space Aotearoa New Zealand would be more than happy to engage in discussions to help the space sector in Aotearoa continue to grow. Both groups are very focused on building diversity and inclusion within the sector. In particular, I don't think it is enough to just "identify opportunities" to increase diversity. We must also actually take action, sooner rather than later, to ensure our workforce is diverse and inclusive. I would like to see some concrete actions and commitment such as "undertake a workforce study" to benchmark current status of the sector and then perform this again in 5 year's time to see whether our actions are making a difference.

**Q14**

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

It would be awesome if the New Zealand government set an ambitious goal for the whole sector to work towards. I was so proud to be part of sending a mission to the Moon from New Zealand, but it didn't really feel like an entire "New Zealand mission". Having a uniquely "kiwi" mission which works towards the goals of the space strategy would be a fantastic way to bring the public along on the journey and help build a more inclusive space sector.

**Q15**

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

What is our "natural advantage" in conducting space activities? I think this is a meaningless objective without defining what advantages we are meant to be promoting.

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	<b>Strongly agree</b>
Partnering with like-minded launch states to adopt peaceful, responsible and sustainable space practices	<b>Agree</b>
Collaborating internationally to increase New Zealand's influence and capabilities in the global space sector	<b>Agree</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?)

What do we really mean by “like-minded”?

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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

**Neither agree nor disagree**

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

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**Neither agree nor disagree**

**Q21**

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

There needs to be clarify what missions are or are not in our national security or economic interest.

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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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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 **Strongly 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 **Strongly agree**

Investing in New Zealand's capability to retain, grow, access and use sustainable space technologies **Agree**

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**Q25**

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

How do we plan to assess the cumulative impact of the space industry? I think it is important to measure this in a comparable way to other industries by looking at a whole lifecycle assessment, not just one portion of the value stream.

I think it is also fair to try quantify how space activities we are engaging in also benefit the Earth environment.

The goal of going to space is often to improve life on Earth so it's important to show this side as well.

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**Q26**

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

I think we are missing an opportunity here to talk about space debris and the role we can play in mitigating this issue.

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**Q27**

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

What form of investing will the government be doing when it comes to sustainable space technologies? Will this be by application or will the government be deciding a technology they want to spend money on? Or is it just investing time or personnel?

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**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 **Neither agree nor disagree**

Promoting and protecting New Zealand's interests through permitting space technologies **Agree**

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**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**

**Respondent skipped this question**

Are there any comments you would like to make about these criteria that inform consideration of the national interest?

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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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