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Page 3: Submitter Information

Q1

Personal Information

Name **Eric Dahlstrom and Emeline Paat-Dahlstrom**
Email Address

Q2

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

Yes (Please tell us your company/organisation):
SpaceBase Limited

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,
Academic involvement on space issues

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

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)

Modelling sustainable space and Earth environments **1**

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 **Strongly agree**

Identifying opportunities to increase diversity in the space sector **Strongly agree**

Using cutting-edge space technology and space sourced data to support New Zealand's values and interests **Strongly agree**

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?)

Q14

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

We have addressed other sections of this survey before. We will take the opportunity in this section to add more general comments.

Us a “whole government” approach

New Zealand can use the small size of government as an advantage. The New Zealand government has the ability to be more nimble and agile in the response to new situations. But all parts of the New Zealand government should work together to achieve specific goals. We have heard stories from New Zealand entrepreneurs who receive support from one part of the government, but are blocked or slowed by other parts of the government. Specific examples concern the activities of aviation flight test regulation and radio frequency regulation. If all parts of the New Zealand government were encouraged to be quick and responsive, this could be a major advantage for New Zealand.

Delegate decision making to working levels of government to allow quick responses

When New Zealand space policies are put in place, we hope each level of the New Zealand government will be empowered to act in response to the policies. The best advantage of the New Zealand government is the agility and responsiveness of the government. The responsiveness and speed of the government has already been noticed at an international level and is attracting new companies and investment. Empowering government employees would take advantage of this reputation for responsiveness.

Take a leading role in global space policy, including lunar policies

It is natural for New Zealand space policy to focus on areas of immediate concern, due to current or near-term activities. But New Zealand also has an opportunity to be more forward looking with space policy, and to use space policy as an opportunity to attract future activities. It is important for New Zealand to have a voice on the future uses of space, including sustainable use of cislunar space, and the appropriate development of space resources. New Zealand is already seen as a model for management of space debris. There is potential for New Zealand to play a leading role in international space policy.

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 **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**

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

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

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?)

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?

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	Strongly 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

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

Adopt "Sustainable Space" as a New Zealand brand

While several other countries (e.g., Portugal) are starting to describe this as a goal, New Zealand is actually accomplishing elements of sustainable space. This includes reducing the environmental impact of launches and the manufacture of spacecraft and launch vehicles, mitigating the effects of space debris, green propulsion for on-orbit spacecraft, and space projects (such as MethaneSat) focusing on helping Earth's environment.

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	Strongly agree
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	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?)

Clarify and communicate the criteria for approval of military payloads

From other public comments about New Zealand space policy, one area of public concern is the launch of US military payloads by RocketLab. We believe the current policy is the correct one, with a confidential technical review within the New Zealand government of the proposed payload as to whether it meets the national interests of New Zealand, and avoids conflicts, such as: "Payloads with the intended end use of harming, interfering with, or destroying other spacecraft, or space systems on Earth." or "Payloads with the intended end use of supporting or enabling specific defence, security or intelligence operations that are contrary to government policy."

These statements and policies are appropriate. But further detail may be helpful in gaining public trust. For example, there is a difference between a spacecraft testing equipment for the US military, and a spacecraft playing an operational role in military conflict. We feel that the New Zealand government is acting appropriately in handling these issues, but we are concerned that the public continues to express concerns about how the New Zealand government handles these issues.

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?