

#19

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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 **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	Strongly agree
Responsibility	Agree
Stewardship	Agree
Partnership	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.

We believe that sustainability is a key value which should apply to New Zealand's space activities and engagements, as it is promoting kaitiakitanga.

Dawn's green propulsion systems, which are integrated on many satellites, currently in space, use non-toxic materials, and minimize pollution from propulsion dramatically. Dawn is not only benefiting the local sector with its sustainable space technology, but is contributing to the sustainability of space activities on a global level. Promoting the long-term sustainability (LTS) of space activities is a highly important goal of UN OOSA and COPOUS, and is integrated into the LTS Guidelines, together with more recent international regulatory and diplomatic efforts to promote environmental protection on Earth and in space.

While traditional launch technology uses harmful and dangerous materials, and the launch activity itself is highly polluting with emissions on Earth, airspace and outer space (most vehicles still create space debris which can stay in space for decades). Dawn's Mk spaceplane which will launch payloads to outer space will operate with minimal pollution of Earth, airspaces and outer space environments. These environments are all subject to kaitiakitanga, meaning we are their guardians, and should protect them, for our sake, and for the sake of any other flora and fauna living with us in it . In that sense, we believe that giving incentives to practicing kaitiakitanga in the space sector would allow the sector to align with and fulfil Maori values and traditions, which strengthens the value of partnership.

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	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	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?)

We hold that innovation must be linked to sustainability. R&D grants to promote innovation in the local space sector, or internationally via cooperation with other nations, should take into account the end result of such innovation, and respect both Earth's and the space environments.

Q14

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

More local high education programmes which are focused on space will allow increase in local talent and achieving growth in the local space sector.

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 | 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?)

Q18

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

Initiating, enhancing and supporting international working groups dedicated to creating new standards which promote the responsible uses of space internationally. The efforts made in COPUOS are important, however, since COPUOS works on "vote by consensus", instruments such as the Artemis Accords, are created by states on a multilateral basis. In that sense, initiating international working groups outside of COPUOS may better fulfil the objectives above, and create new international standards which at least some space faring nations will adhere to. We hold that while important, efforts focused solely on UN COPUOS may not be sufficient to promote the above objectives.

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	Agree
Manage the broad range of security risks in space to protect New Zealand's space industry	Agree
Collaborate with international space and security partners to pursue New Zealand's national security and economic interests	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	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?)

We fully support these policy objectives and work for their fulfilment in our daily activities. Further, and in confidence: 9(-2Xb)(ii) (...) this paragraph is Confidential as this is a sensitive trade secret.

We hold, in line with the objectives above, that industry investment in developing sustainable and environmental space technologies, should be encouraged and backed by a governmental investment or incentives. Incentives can be in the form of regulatory and risk management favourable conditions, tax incentives, R&D grants, visa and immigration arrangements for talent from abroad, and more.

We further hold that the Government has an important role in promoting these policy objectives in international fora such as UN COPUOS, in order to create international standards which better promote sustainability in the global space sector.

Q26

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

Engagement with the general public to explain in what ways space may help us create sustainable practices across different fields, as well as creating high education programs with focus on space and sustainability would be beneficial for the fulfilment of the above objectives.

Q27

Respondent skipped this question

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

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?)

This answer is Confidential as it contains a sensitive trade secret: 9(2Xb)(ii) (...)

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?
