

#36

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Page 3: Submitter Information

Q1

Personal Information

Name

Gordon Morris

Email Address



Q2

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

Yes (Please tell us your company/organisation):  
Lynker Analytics

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,**

Other (please specify):

As a practitioner of space-derived data and information, the relationship to space by earth observation and data products is a foundation of understanding the interconnection of the people to the environment, whenua and the moana of Aotearoa. We wish New Zealand's space policy to encourage new and emergent users of space-derived data by applying base skills and to derive data streams and products that address emergent and existing issues.

Q8

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

As a practitioner of space-derived data and information, the relationship to space by earth observation and data products is a foundation of understanding the interconnection of the people to the environment, whenua and the moana of Aotearoa. We wish New Zealand's space policy to encourage new and emergent users of space-derived data by applying base skills and to derive data streams and products that address emergent and existing issues.

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.

We also see that data as a taonga – a treasure that needs protection. There are few widely-known guidelines or standards for ensuring the retention and archiving of space-derived digital data and its derived products in New Zealand-based sites. Policies that encourage the long-term retention of data, analytics, and products will ensure the interpretation and integration of strategic data. We note that access to reliable earth observation data that allows for an intergenerational understanding of issues and practices is often a challenge. Long-term supply of data cannot come from single-use platforms and payloads. Policies that encourage space-borne platforms and sensors with a reliable and sustainable data stream will allow for a far greater understanding in the knowledge of people and place through the development of systems and procedures that can be re-used and re-applied.

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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)

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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?

Partnering within New Zealand and internationally to increase research and development capabilities	<b>Strongly agree</b>
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**Q13**

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

Data sourced from the aerospace and space environment offers unique means to understand the environment and people. Space-borne technologies that capture, process, and analyse data are consistently being developed and refined to both define and answer issues that face Aotearoa New Zealand. However, there is currently no mandate in the use of remote sensing data in of our national policy statements except in novel circumstances (such as the use of aerial imagery and production within the Land Use Carbon Analysis System LUCAS programme of the Ministry for the Environment). Framing New Zealand's space policy objectives which link into our regulatory mechanism will encourage the use of space-derived products and services, and serve to increase the confidence of the data so used.

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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?

The production and use of bulk geospatial data from the space domain is often a hurdle to smaller companies and organisations to undertake, but equally large New Zealand organisations have occasion to outsource this data production to overseas facilities. This can have unintended consequences of not enabling our unique New Zealand oversight on data about our people and places, and potentially limits the entry of rangatahi or emerging organisations in Aotearoa that can supply products and services in an efficient and effective manner. Policy considerations that include New Zealand-launched platforms have core data functions processed in New Zealand will help grow the kaimahi of the space industry and the data products, models, and the infrastructure which supports this.

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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**

Respondent skipped this question

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?

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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**

Respondent skipped this question

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?

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**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?)

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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?

Assisting with solving sustainability challenges through space data, including to better monitor or understand the Earth's environment

**Strongly 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?)

A New Zealand Space Policy that influences the use of data in a whole system within New Zealand will encourage the development of our space industry. This could be undertaken with reference to standards, specifications, and referenced materials. As a net user of data from space, developing New Zealand's policy towards the encouragement of sustainability of earth observation monitoring missions should be of prime importance. This includes vendors supplying reliable and consistent data that can be delivered over multiple years and platforms. A policy that encourages mission designers to provide standardised data streams would allow reliable science to be developed on such data, which in turn will greatly assist confidence in the policy decisions made by NZ. As an example, the long-term programme of the European Space Agency's Copernicus mission has allowed for multiple derived products that enable many products for the public good, and confidence in the use of earth observation data for broad-scale policies such as the use of land cover analysis that supports the EU Common Agricultural Policy. This can be achieved in Aotearoa New Zealand with policies that encourage innovation. We also note with the development of high-fidelity sensors, the expectation of privacy and the use of that data will need policy consideration (or at least within the licencing of the sensor) where that data can be reprocessed to a higher 'resolution' than was originally designed. While this has an impact on other matters such as privacy considerations, we encourage dialogue that will enable a greater understanding of the matter.

**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?

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Page 11: Regulating to ensure space activities are safe and secure

**Q28****Respondent skipped this question**

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?

**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?

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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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