



TO: Gigablue – Sapir, Guy, Sharon, and Cherie

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FROM: 9(2)(a) 9(2)(a)

INNOVATION AND DATA FOR CLIMATE CHANGE SOLUTIONS

This memo provides a brief summary of the Ngāi Tahu Climate Change strategy and discussions to date between Te Rūnanga o Ngāi Tahu and Gigablue. It also shows how Gigablue can potentially assist the research needs and outcomes sought by Ngāi Tahu.

HE RAUTAKI MŌ TE HURINGA O TE ĀHUARANGI

Te Rūnanga o Ngāi Tahu (**Te Rūnanga**) has a Climate Change Strategy *He Rautaki mō te Huringa o te Āhuarangi* that outlines an intergenerational vision and seeks to implement ways to meet challenges, make good decisions, and secure the best possible future for its people and takiwā (tribal area). The Strategy sets clear goals: to become carbon neutral, restore taonga species and habitats, and minimize environmental changes that impact Ngāi Tahu identity and wellbeing.

Culturally-centred innovation and actions are a vital part of the Strategy, and it supports new approaches to address climate change impacts. Te Rūnanga has stated that it will work collaboratively with government and partners to address climate impacts and ensure that any actions and responses reflect iwi values and aspirations.

DISCUSSIONS BETWEEN GIGABLUE AND NGĀI TAHU

Ongoing discussions between Gigablue and Te Rūnanga that I have been part of have focused on innovation, research, and monitoring. 9(2)(ba)(i)

Te Rūnanga has stressed that innovation is needed to achieve its strategic outcomes and secure the best possible future for its people. Experimentation, research, monitoring, and data sets assists with understanding emerging technologies and methods as well as the impacts of these activities on a range of environmental, scientific, cultural, and economic indicators.

During Gigablue's scientific research activities in New Zealand, Te Rūnanga has advised that it is particularly interested in the research findings from the activities and ongoing monitoring. This approach supports a future where marine stewardship is led by iwi, informed by both science and mātauranga Māori. With this information and dialogue, Te Rūnanga can develop its best practice standards and informed, principles based approval requirements.

GIGABLUE IN NEW ZEALAND

Gigablue's work in New Zealand directly supports and operationalises the environmental and cultural settings outlined above. By pioneering a Marine Carbon Fixation and Sequestration method, also known as Microalgae Carbon Fixation and Sinking, Gigablue offers a scientifically validated, cost-effective, and scalable solution that aligns with the London Convention and Protocol's precautionary and prevention

principles and supports Ngāi Tahu intergenerational aspirations and expectations. Gigablue activities will supply critical research to build experience, data sets, and best practice and develop innovative marine solutions.

Gigablue has committed to Te Rūnanga that it will act with integrity, transparency, and a duty of care in all its operations within the Ngāi Tahu takiwā and to keep Te Rūnanga informed of activities and progress.

Ngā mihi

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