

Water scarcity and water management

Escasez hídrica y gestión del agua

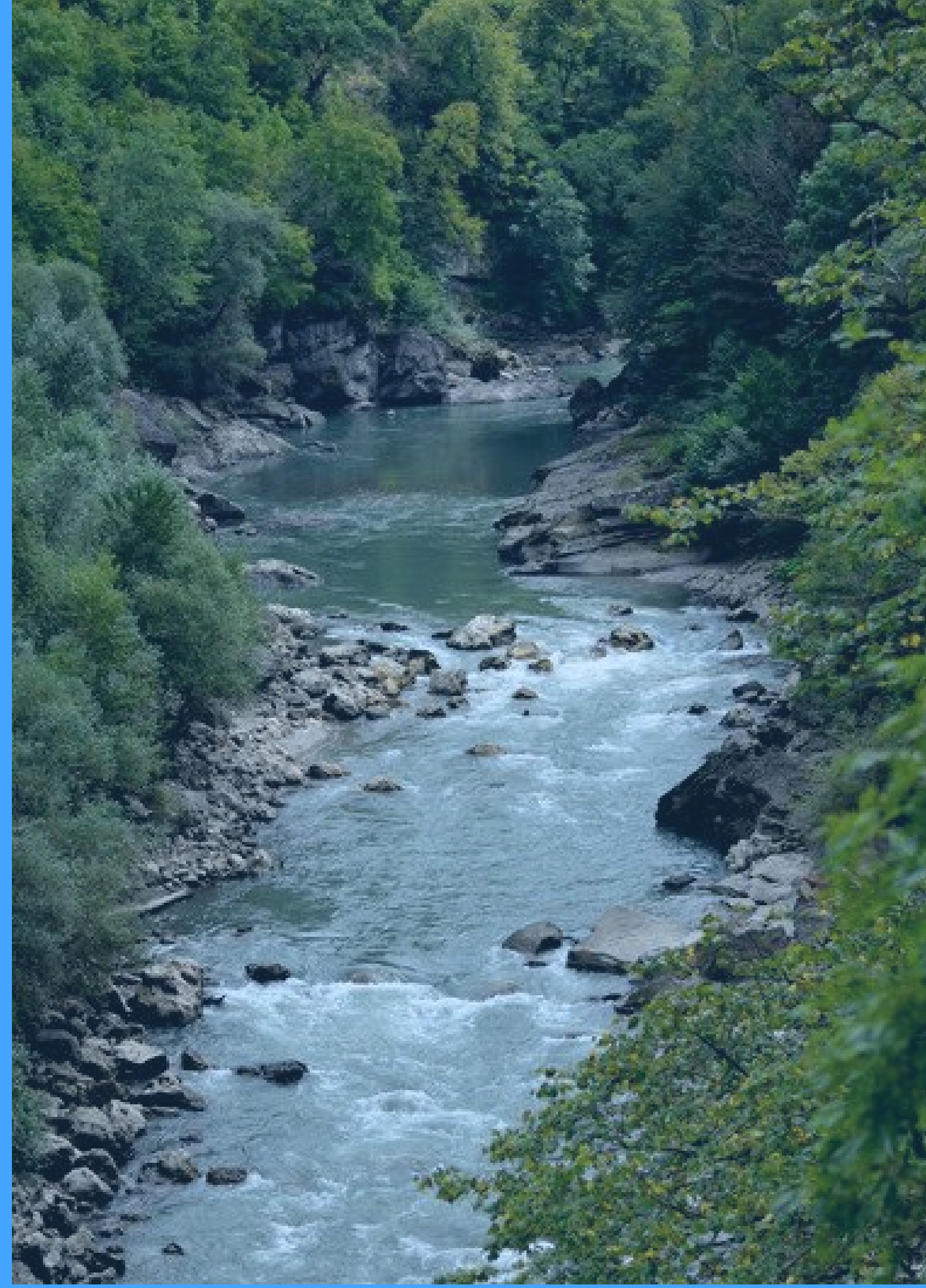
Chris Lijzenga (Kiwi)
Isabella Ciocca (Chilean)
Akuhata Bailey-Winiata (Māori/Kiwi)
Andrea Eyquem (Chiwi)



**"ko wai ko au, ko au ko
wai"
(I am water and water is me)**



Troy Brockbank (Te Rarawa,
Ngati Hine, Ngapuhi) - Water
Engineer





Juan Tralcal Lleuful
(Mapuche) - Geologist

“My father mentioned that if water gets sick, we get sick too because we cohabit in a spiritual life spectrum, the Küme Mongen. If the water is healthy, we are going to be healthy too”

Indigenous perspectives from Aotearoa NZ and Chile



Indigenous world views are holistic, cyclical and interrelated with nature



Water is valued as kin rather than a commodity / resource



Water is the giver of life and a tohu (sign) for the health of the environment



Water shouldn't be managed. Let water flow and nature will prosper



Water Management



Public good → **Economic good**

Don't pay for consumption*

> 80% water rights on private hands
Pay for consumption

Privatized water markets

Three Water Programme
|
+ centralized

← Regional councils
|
local

Entities

> 25 state entities
> 3.000 Water Users Organizations

Many water basins overexploited, over-granted or water being stolen

1/5 kiwis are supplied with drinking water that does not meet standards

Contamination
Health problems

Problems

Water conflicts

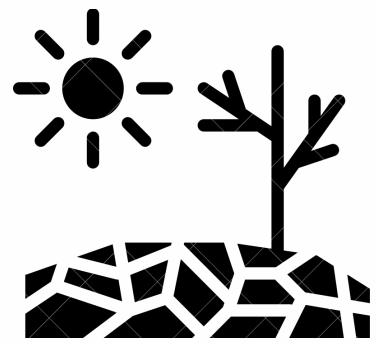
Industry getting a huge proportion of the water rights

Inequalities

Intensive agro-industry leading to higher nitrate levels and other contaminants in waterways

Industrial use of freshwater
Lack of re-using and recycling water

Effects of climate change

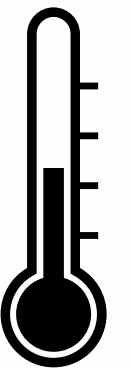


Extreme weather events

Some regions forecast to have more droughts, others forecast for more flooding

Warming water temperatures

Driving algae-blooms, changes to marine ecosystems



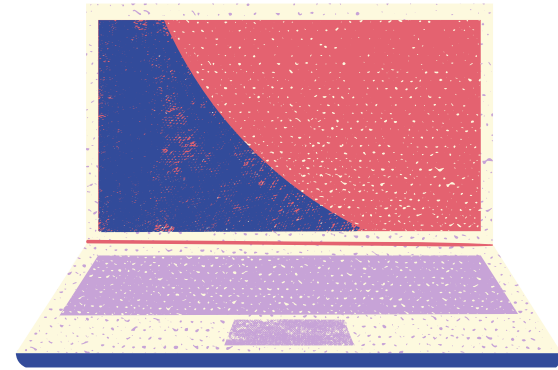


The opportunity

Next steps for our group



Initial release



Publishing on the Asia-Pacific Insights platform



Translation and publishing in a Chilean publication



Finding new and creative formats for the story to live on



Fixing our water crisis — the role of indigenous knowledge



*A comparison between New Zealand and Chile, by **Isabella Ciocca, Akuhata Bailey-Winiata, Andrea Eyquem and Chris Lijzenga***

Water Scarcity Water Management

08.DEC.2021 . 12 MIN READ

- The climate crisis is worsening the inequity of our water management so we have to change how we manage water urgently.
- Indigenous groups across both Chile and New Zealand have always had sustainability at the bedrock of their worldview and practices.
- Chile and NZ both need to change and adapt their water management and climate change mitigation strategies, and both can draw on this indigenous experience.

We must change how we manage water urgently, say a team of young leaders from Chile and Aotearoa, who united under the CAPE Winds of Change programme to explore indigenous solutions to water problems.

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Winds of Change

Winds of Change unites New Zealand and Chilean postgraduate students to explore common climate change issues and sustainable development strategies.

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the
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