

# Hydrogen as a key enabler of a sustainable economy for Murihiku/Southland

**Murihiku Regeneration leading the way for future generations**



Photo: Sunset over  
NZAS Aluminium Smelter, Tiwai Point



# Murihiku Regeneration

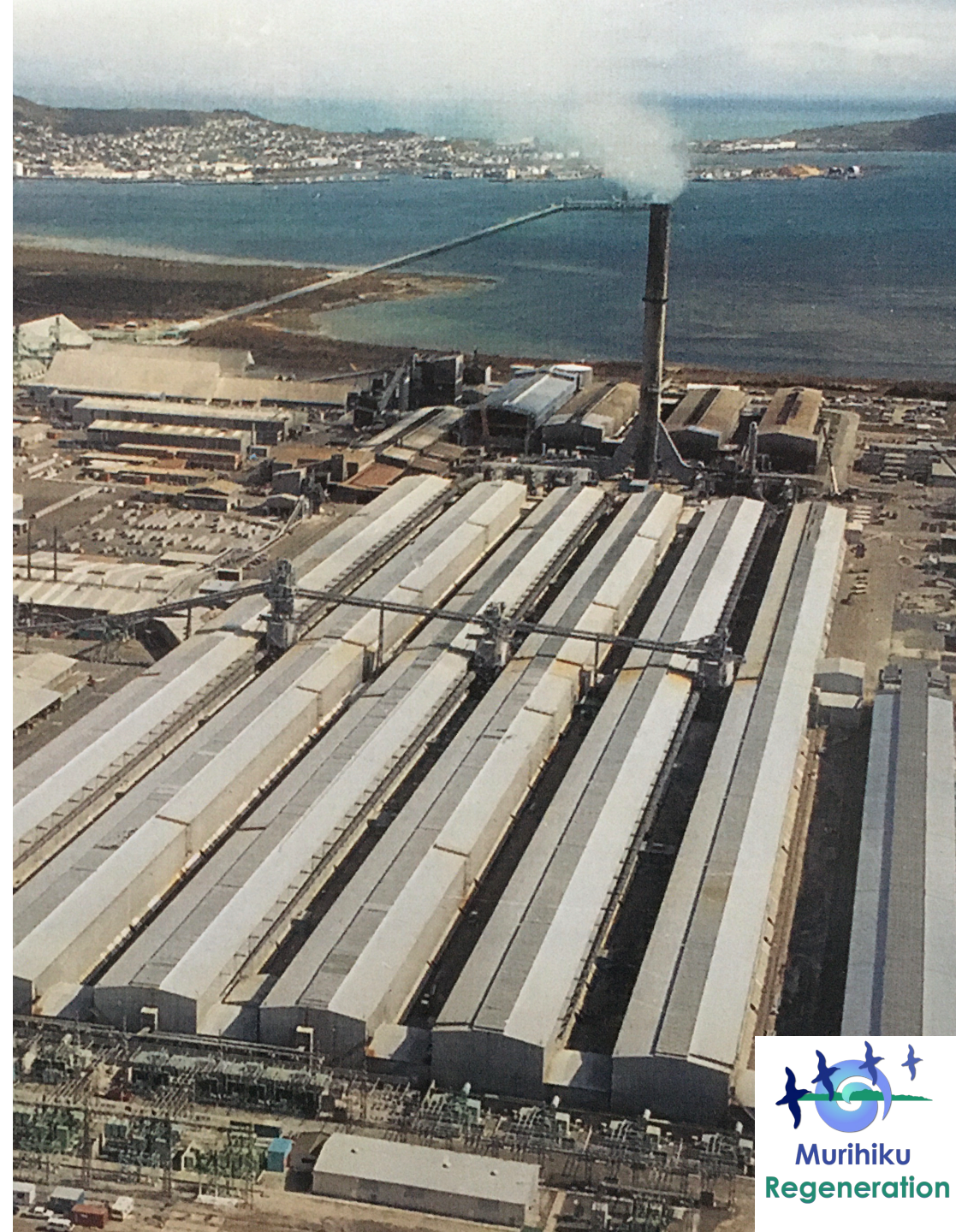
- Established by Hokonui Rūnanga
- Represents Southern Māori (Hapū)
- Is about the regeneration of Murihiku/Southland to support future generations
- Is working for local and national interests
- Is open to *partnering* with research institutions – nationally and internationally



# Tiwai Aluminium Smelter – catalyst for change

Murihiku Regeneration was triggered by the closure announcement of the Aluminium Smelter at Tiwai, and associated *community impact*

***Objective:*** to ensure that the social and economic upheaval that occurred during the economic restructuring of the 1980s/90s *is not repeated*





# Vision

Murihiku Papatipu Rūnanga - are individually strong, collectively enabled and driving Rūnanga and regional aspirations that will sustain community lifestyles in a thriving, healthy environment *for all our generations to come*

**Four pou:**

social

cultural

**Leadership  
and  
Integration**

economic

environment





# Empowering our people

Goal: Murihiku as a place for independent, innovative and connected learning for its people

Murihiku Regeneration is realising this goal through its **Social Regeneration**, **Research Science and Innovation**, and **Education** programmes



# Our patch/rohe



Manapōuri  
Power Station



Queenstown  
Pop. 48,300

Te Anau  
Pop. 2,700



Dunedin  
Pop. 133,000

Gore  
Pop. 13,000



Invercargill City  
Pop. 57,000



Bluff Port

Rakiura/Stewart Island  
Pop. 440



Population statistics - 2021





# Energy supply

Current and future potential:



Current hydro



Future hydro



Current onshore wind



Future onshore wind



Future offshore wind



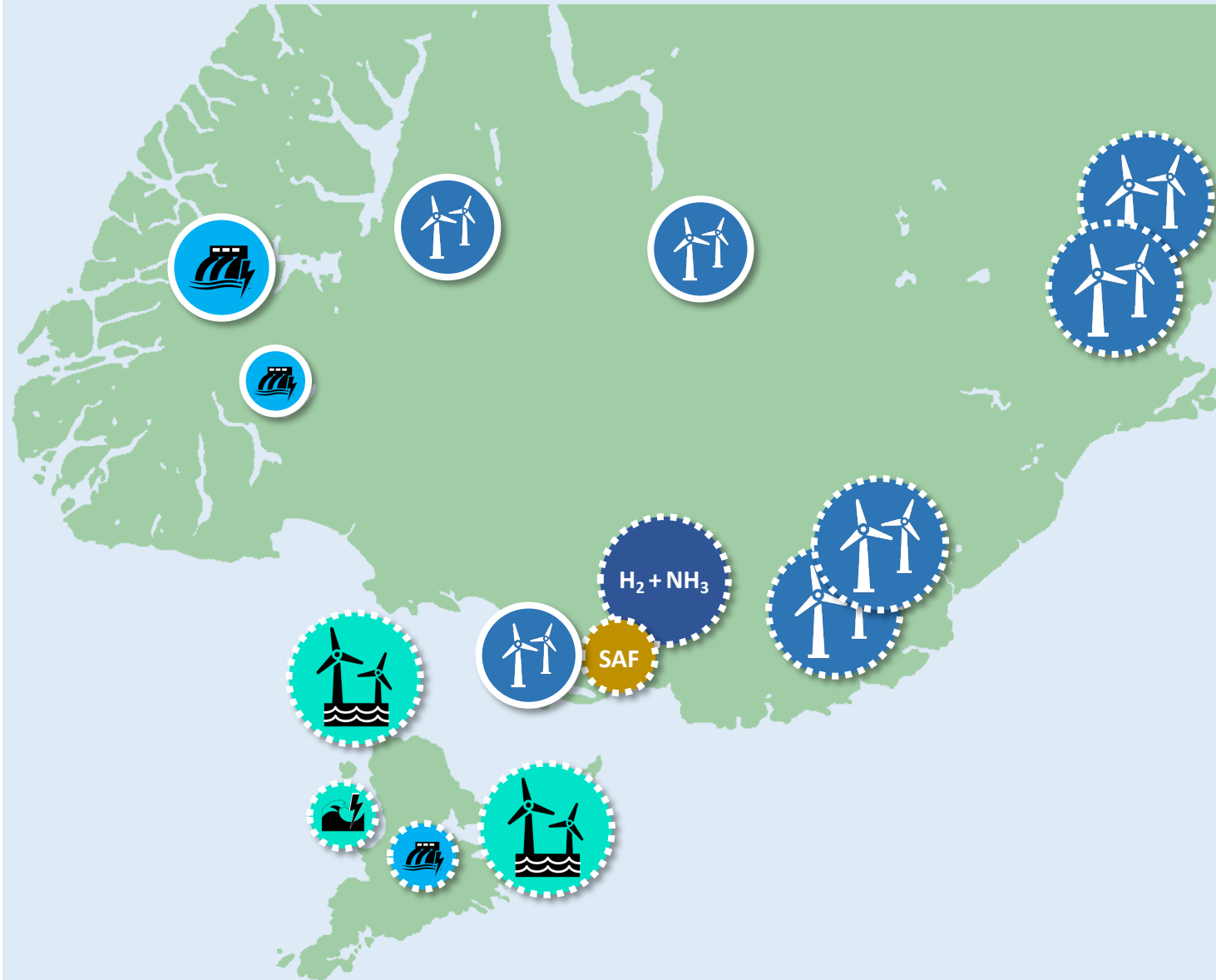
Future tidal/wave



Future green  
 $\text{H}_2 + \text{NH}_3$



Future synthetic  
aviation fuel (SAF)





# Energy demand

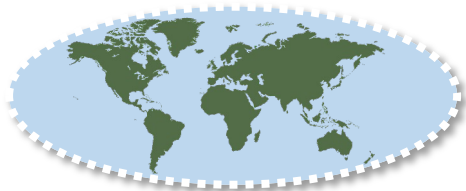
Current and future potential:



Current aluminium



Current aquaculture



Global energy demand export potential



Future green aluminium + steel



Future aquaculture



Future green hydrogen



Future green ammonia



Future hydrogen fueling distribution points



Decarbonising Rakiura/Stewart Island







# Partnering for future opportunities

## Woodside:

- Hydrogen and ammonia plant development
- Investigating Murihiku-based production project
- Looking to achieve Final Investment Decision (FID) in 2024



# Green Energy economy and *change* in our context

## Change:

- Occurs within our social/cultural context
- Is not a simply a process of changing energy systems
- This must be about our collective benefit as people of Murihiku
- *How do we bring our people with us?*



# Murihiku Regeneration is leading the way for our people: *2 workstreams*

## Social Regeneration Plan

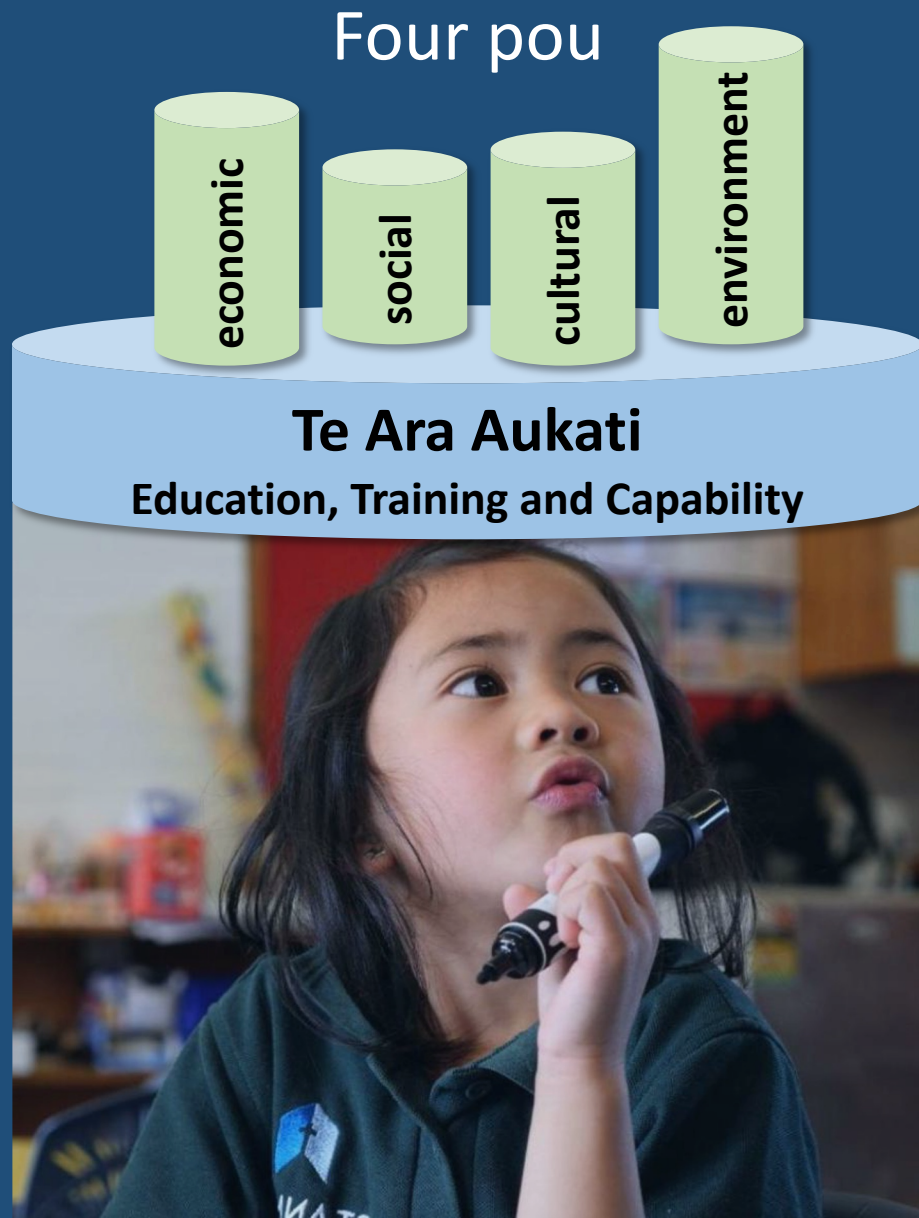
To provide a social / cultural / environmental regenerative kaupapa for Murihiku/Southland

This provides a foundation and 'roadmap' for all our work programmes

## Te Ara Aukati Kore (pathways without barriers) education and training programme

Building *inter-generational* capability through:

1. Kia Tū - Pathway planning
2. Anamata Māia - Skills hub
3. He Ao Hou - New Futures Murihiku



# Te Ara Aukati

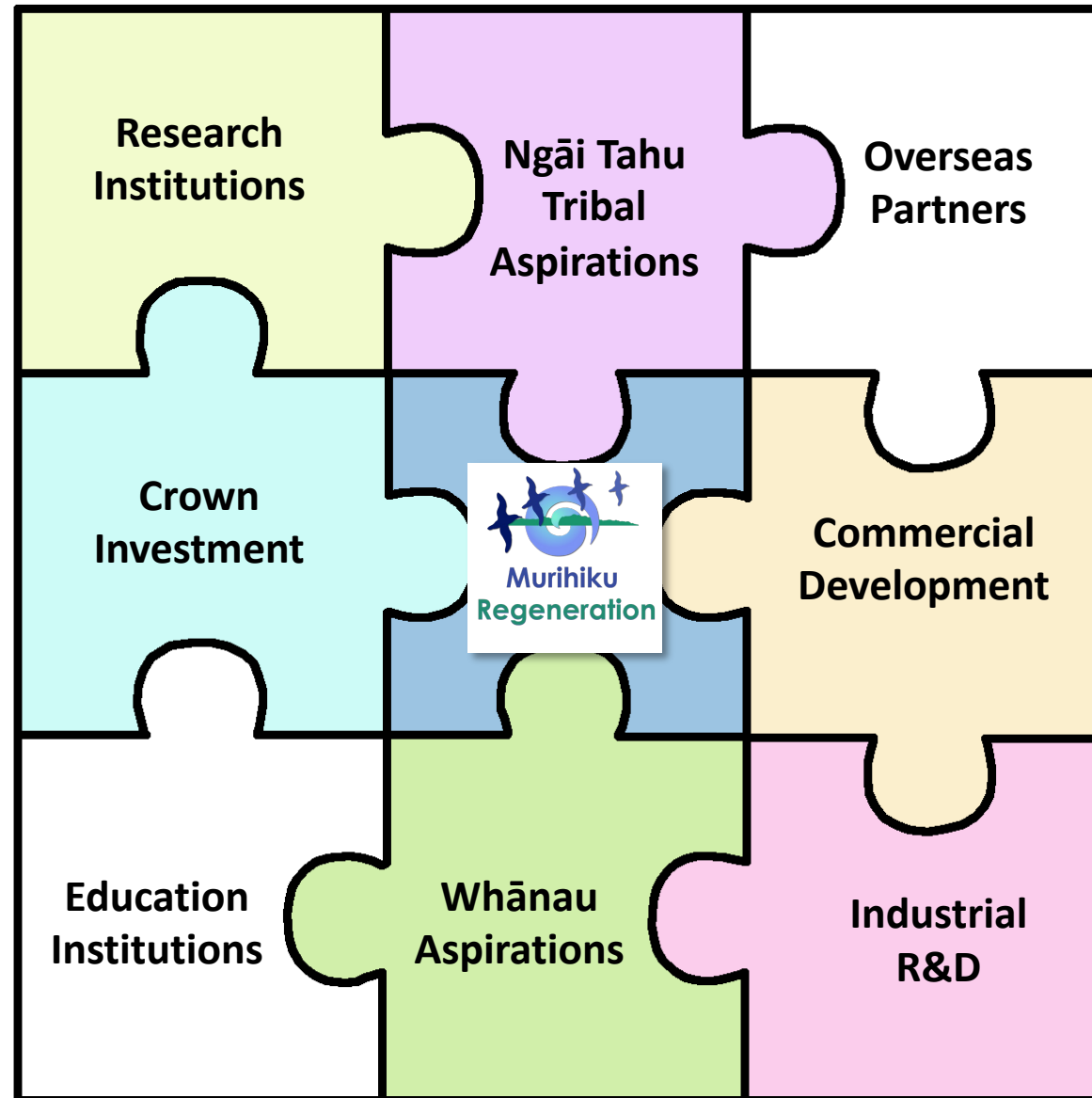
(pathways without barriers)

Education, training and capability

- Underpins the four pou
- Designed to ensure ***local people*** build the capability needed for emergent labour market and broader social and cultural life opportunities in the region



# Regional development – pulling together the vision



# Partnership with Iwi

## Is about:

- Wanting to work together in an equitable and collaborative manner
- Meaningful engagement

## Is not about:

- Pre-defined and pre-determined intentions/programme plans
- A 'tick the box' exercise to meet consultation criteria

# Partnerships with Murihiku Regeneration

Murihiku Regeneration will work with a range of national and global institutions in the Green Energy space:

- For the inter-generational betterment of our people
- For opportunities for our rangatahi on the world stage
- For the national interest



***Tū tahi ki te Kei***

Let's all stand together in the stern of our waka

***Murihiku Tītī a Kai, Tītī a Manawa***

Murihiku, a land of resource, a people steadfast

***Tauarutia ka aho ratarata***

Follow our Southern Lights