

Entry for IFLA ASIA _ PACIFIC Landscape Architect Awards_ Category 1.2. Unbuilt Projects (Analysis and Master Planning)

TE WHAKAORATANGA I TE PUHINUI TE PUHINUI REGENERATION STRATEGY

FINAL SUBMISSION | March 2021



Please note - The first page represents the Project Statement in 200 words or less. The text along the top of the page and down the left hand side of each of the remaining pages provide the narrative for the project in 1300 words or less. Annotations, footnotes, and words contained in map key's, and within diagrams have not been included in the word count.

TE WHAKAORATANGA I TE PUHINUI - PROJECT STATEMENT

Te Whakaoratanga i te Puhinui - Te Puhinui Regeneration Strategy is the wider project name for the intergenerational regeneration of the wellbeing of the Puhinui catchment and its people (Te Puhinui). It is a collaborative partnership between indigenous māori authorities, the Auckland Council family, government agencies, community organisations and the culturally rich, unique and diverse communities of Te Puhinui.

Te Puhinui Regeneration Strategy is a flagship project utilizing a living system and whakapapa centred wellbeing approach to design that integrates western ecological and regenerative development concepts with indigenous tikanga (protocols), frameworks and narratives. It sets out core values, a clear purpose and vision, principles, responsibilities and obligations, and identifies strategic initiatives, design guidelines and a programme of works for future projects. These respond directly to the unique character of Te Puhinui, its inherent challenges and opportunities, alongside current issues related to population growth, urban development, ecological degradation, climate adaptation, social deprivation and building capacity and capability.

The Puhinui Regeneration Strategy is ratified through Te Puhinui Regeneration Charter - a potential world first agreement and acknowledgement of the collaboration and mutual respect between all signatories, including indigenous leaders (Te Waiohua), local communities, council and the government towards the regeneration of Te Puhinui.

NGAA TOHU OO TAAMAKI MAKAUROU - BIOREGIONAL CONTEXT

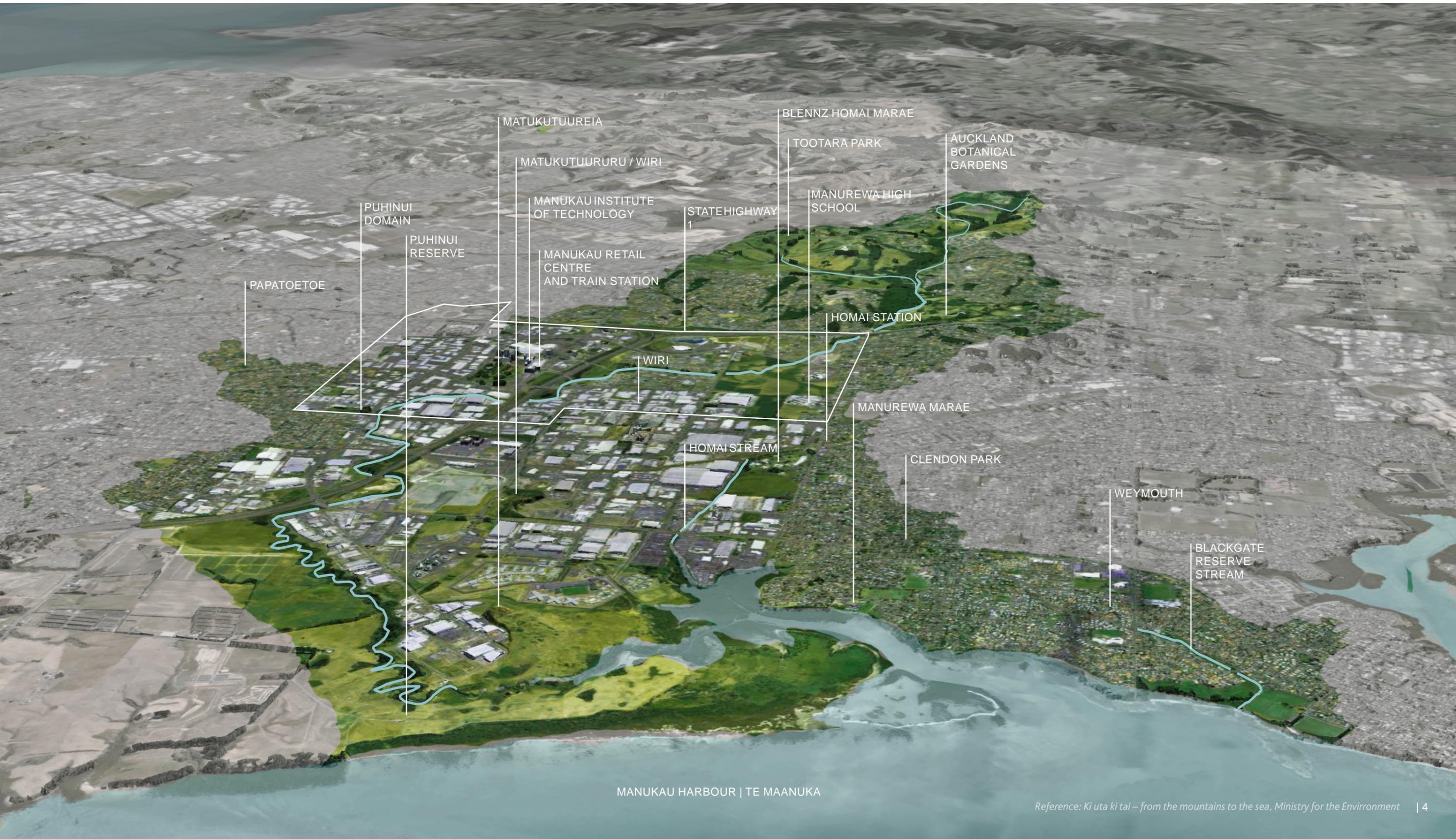
Te Puhinui is a catchment in South Auckland nested within Te Maanuka (Manukau Harbour) with a rich geological, ecological and human history. The main waterway and estuary running through the catchment is called the Puhinui Stream.



MAI I NGAA MAUNGA KI TE MOANA - FROM THE MOUNTAINS TO THE SEA

Te Puhinui covers approximately 2,964 hectares. The Puhinui Stream is 12,500 meters long. Topographically, it is characterised by stepped incised gullies in the upper catchment before flattening out to a broad middle and lower catchment. Manukau Central, the main urban centre of South Auckland, is located in the mid-catchment area. Through colonisation,

industrialisation and urbanisation the catchment has undergone significant change, and in 2010, the stream was rated the dirtiest of all 31 streams that were monitored by the Auckland Regional Council.



TE PUUTAKE - PROJECT PURPOSE

The purpose is to realise the regeneration of the Puhinui catchment and its people (Te Puhinui), in a way that is inclusive, place-sourced, culturally led and community fed so that Te Puhinui and its people can thrive once more.

It aims to align, strengthen, and build on existing relationships and projects within Te Puhinui and the larger Manukau Harbour catchment by providing frameworks and methods which, brought together at the right time, in the right sequence and in the right relationship, will help shift Te Puhinui from its current state to realising its full potential and ultimately achieving Te Ora oo Te Puhinui - a healthy and prosperous Puhinui.



1 Protect and enhance Puhinui stream to improve bank stability and habitat.

2 Protect and enhance riparian corridor to restore the ecological function of the stream.

3 Identify and restore overland flow paths throughout the Puhinui.

4 Reestablish a matrix of dense, multilayered forest patches large enough to support a range of habitats for native wildlife.

5 Reinvigorate, celebrate, and apply Te Waiohua lunar cycles.

6 Acknowledge, record and celebrate the stories of place of mataawaka, Pasifika, Paakehaa, and tau iwi communities

7 Establish a physical and digital hub dedicated to deepening our collective understanding of Te Puhinui.

8 Develop a strategy for public arts, taonga and culture design integration for Te Puhinui.

9 Orientate development towards and connect to the Waters of Te Puhinui

10 Re-imagine and establish streets as places for people of all ages and abilities.

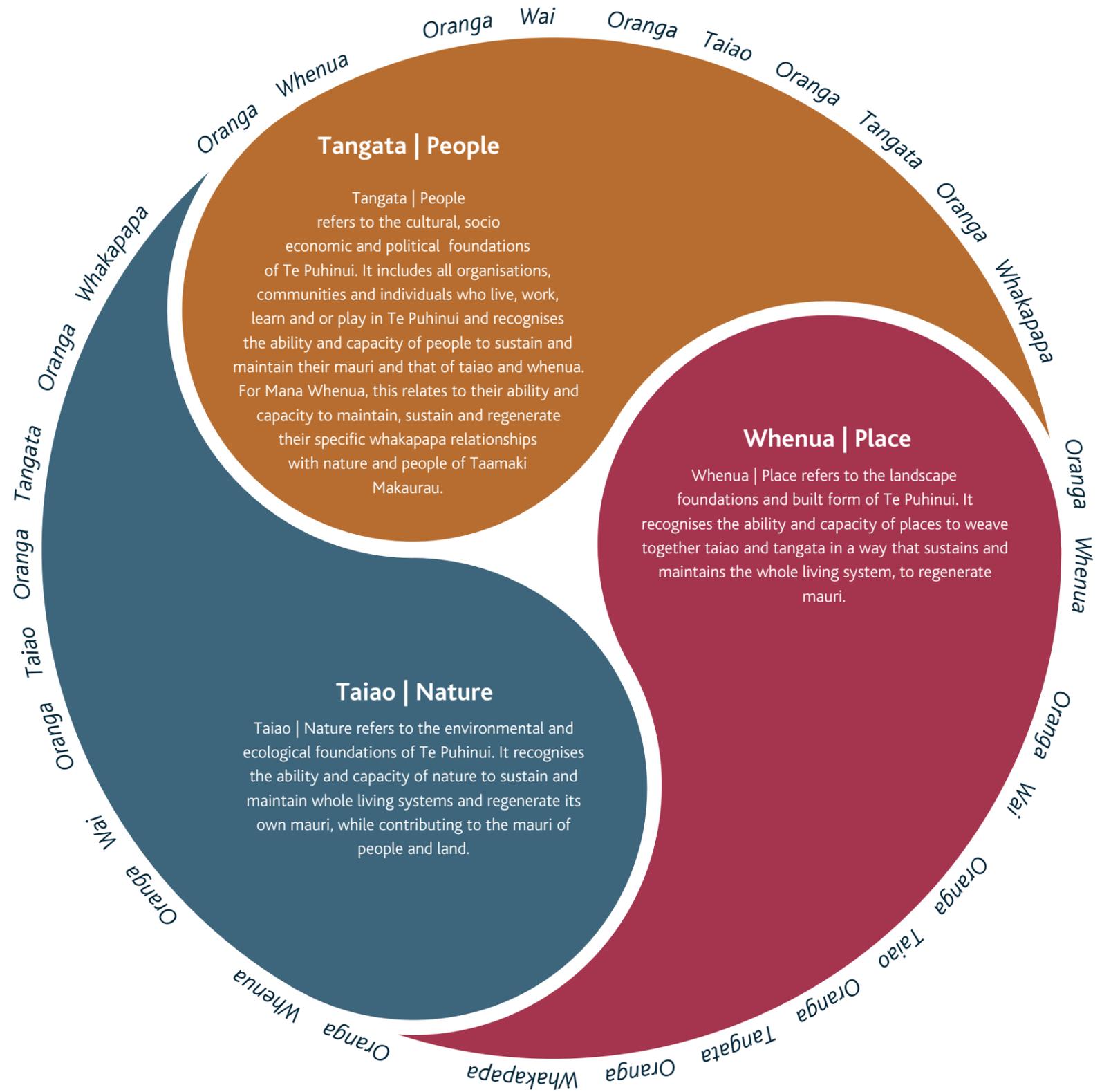
11 Develop a wayfinding and signage strategy for people moving through Te Puhinui.

12 Create a shared walkway along Te Puhinui Stream from maunga / mountains to moana / sea.

TE ORA OO TE PUHINUI - THE WELLBEING OF TE PUHINUI

Te Whai Oranga (in pursuit of holistic wellbeing) is the core outcome sought by Te Puhinui Regeneration Strategy. The strategy recognises that the wellbeing of Te Puhinui is multidimensional and involves the weaving of multiple inter-related threads together.

Nga Aho are the three lashings of Taiao (Nature), Tangata (People) and Whenua (Place) that bind and weave Te Puhinui Regeneration Strategy together.

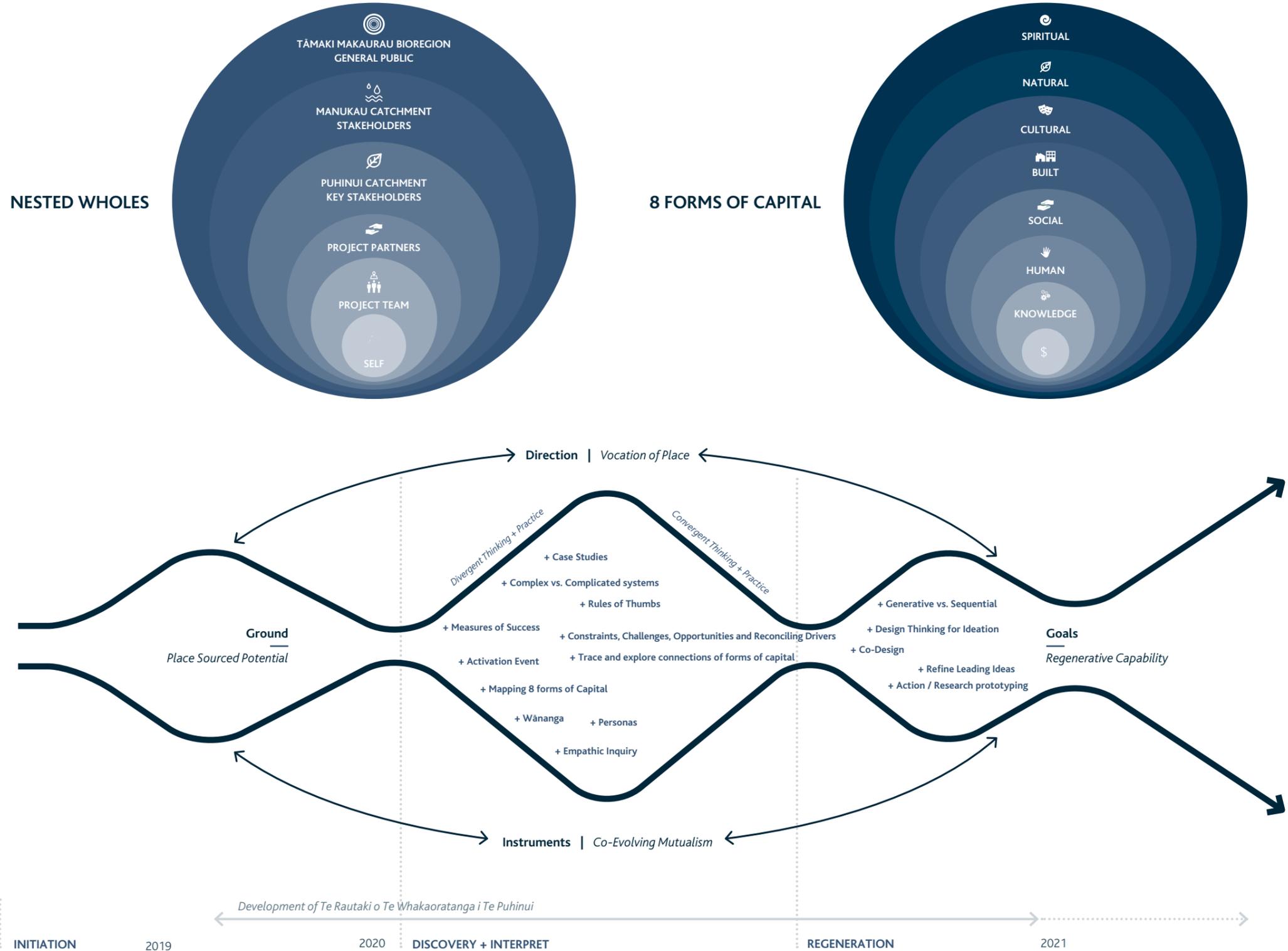


LIVING SYSTEM DESIGN AND WHAKAPAPA CENTERED WELLBEING

Te Puhinui Regeneration Strategy was developed utilizing a living system and whakapapa¹ centred wellbeing approach to design that integrates western ecological and regenerative development concepts and indigenous tikanga (protocols), frameworks and narratives.

Te Puhinui Regeneration Strategy recognises nested wholes, or wholes within wholes, as well as the eight forms of capital as key frameworks to deepen our understanding of the place sourced potential of Te Puhinui and key means and measures of its regeneration.

The overarching design framework guiding Te Puhinui Regeneration Strategy explores the essence of the place and its role in the larger living system and identifies the necessary instruments, methods and tools to develop Te Puhinui's regenerative capacity. This involved using a wide range of tools and techniques to gather and interpret as much qualitative and quantitative, as well as spatial and non spatial knowledge as possible through a sequence of divergent and convergent processes.



1. Whakapapa is a central concept in Māori belief systems, reflecting the interconnectivity of all things and the genealogical descent that binds everything together.

CODESIGN + ENGAGEMENT

The engagement strategy utilized the International Association for Public Participation spectrum of engagement to structure engagement with public sector, private sector and civil society, including indigenous communities as project and treaty partners; the later laying the Kaupapa (foundation) for direction on the spiritual and cultural values that are intrinsic to Te Puhinui. The diagram demonstrates the nested scales of influence and impact as well as degrees of participation.

DEGREES OF PARTICIPATION

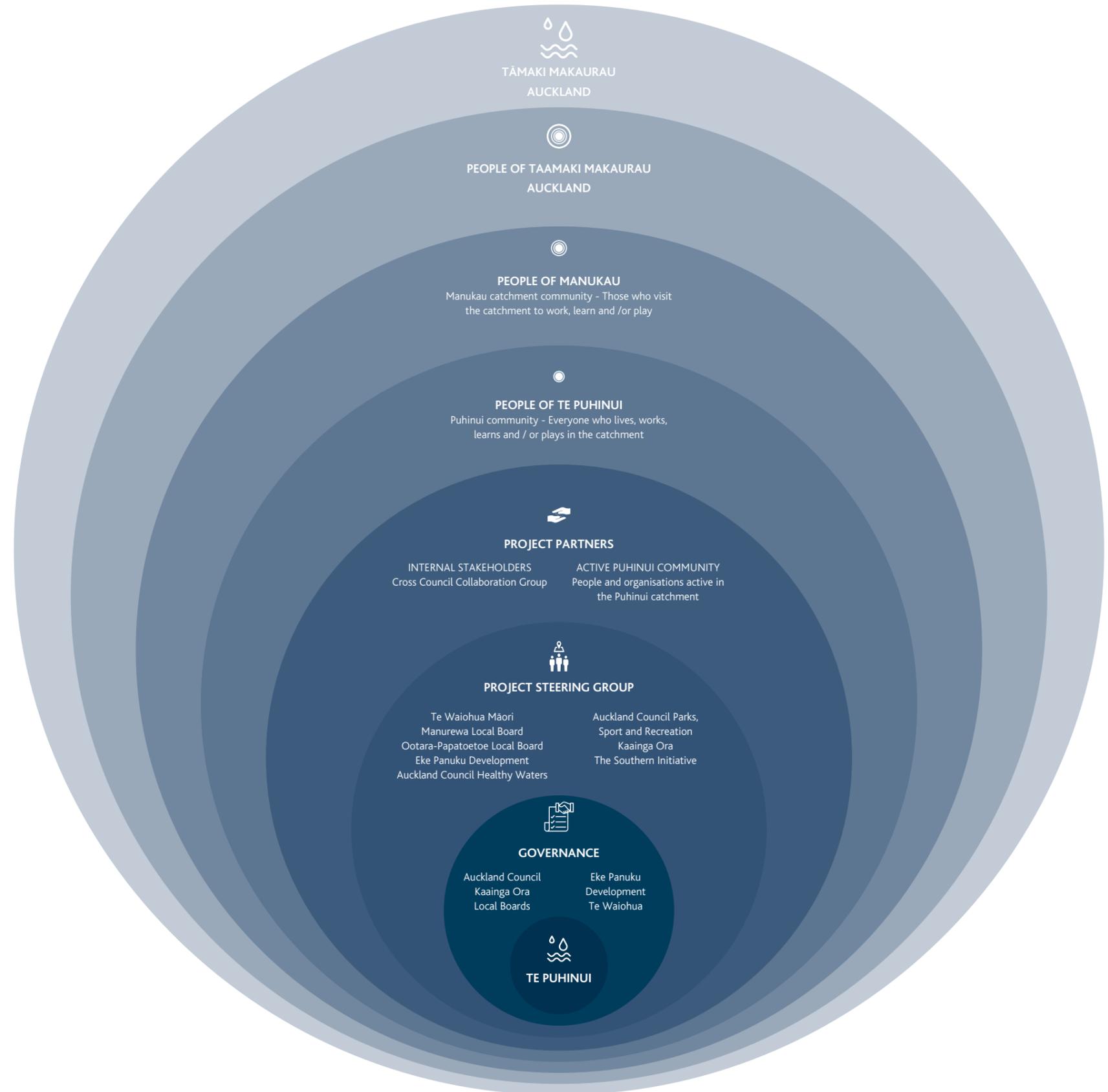
Increasing participation



- Empower**
Final decision making in the hands of this group
- Collaborate**
Partner in each aspect of the process including the development of alternatives and the identification of the preferred solutions.
- Involve**
Work directly with the public throughout the process to ensure that public concerns and aspirations are consistently understood and considered
- Consult**
Obtain public feedback on analysis, alternatives and/or decisions
- Inform**
Provide the public with balanced and objective information to assist them in understanding the problem, alternatives, opportunities and/or solutions.



Decreasing participation



WORKING FROM ESSENCE OF PLACE TOWARDS THE WELLBEING OF TE PUHINUI

Te Puhinui has developed, evolved and transformed from ancient times to the present. The patterns that have been laid down in the past provide foundational and essential information necessary to understanding this place, how it functions, why it is the way it is and how it might change in the future.

Building on an indigenous (Maaori) worldview, the project recognises that interconnected systems change over different time scales - the layers, described here using the lashings of Taiao (Nature), Whenua (Place) and Tangata (People), represent significantly different timescales through which regenerative processes emerge and evolve.

The layers associated with Taiao and Whenua provide a sustainable and stable foundation for the development and ongoing evolution of Tangata. Understanding these historic patterns, laid down from ancient times to more contemporary events, also provide insights, inspiration and direction that we can work with and harness to support its evolution towards a vibrant, healthy and flourishing future state.



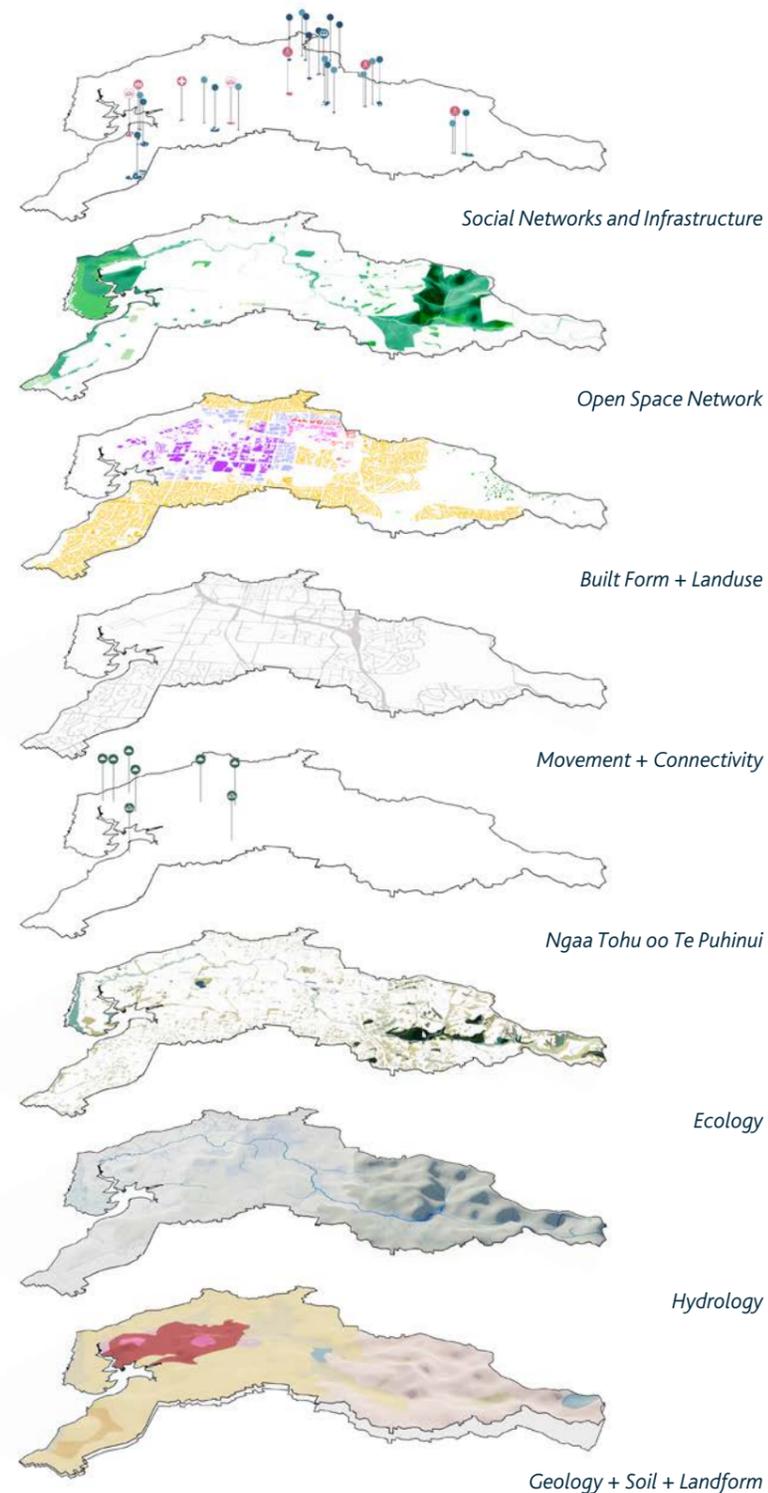
Socio-Economic Foundation



Landscape & Urban Morphology



Environment & Ecological Foundations



NGAA PAE ORANGA OO TE PUHINUI - HORIZONS AND SHIFTING STATES BACK TO WELLBEING

The Puhinui Regeneration Strategy is guided by the stars - Ngaa Pae Oranga describes the state changes and shifting ground of Te Puhinui as it moves towards its potential.

The state changes outline a narrative pathway from the past towards the future which include actions and activities that support the regeneration of Te Puhinui. The strategic initiatives, design guidelines and programme of works all contribute to shifting ground in Te Puhinui from the present state - Te Pae Waatuu, to a more capable, more vibrant and connected, and increasingly place-sourced near future scenario, Te Pae Tata. Te Pae Tata in turn, creates the foundations for further regeneration leading towards Te Pae Tawhiti characterised by Mauri Tuu / Mauri Ora - a transformed state of wellbeing which is self-sustaining and self-regenerating.



TE PUHINUI REGENERATION CHARTER

The Puhinui Regeneration Strategy is ratified through Te Puhinui Regeneration Charter - a potential world first agreement that encapsulates te puutake (purpose), te tirohanga (vision), nga maataapono (values), responsibilities and obligations underpinning the regeneration of Te Puhinui and acknowledges the collaboration and mutual respect between all signatories, including Te Waiohuria Iwi, local communities, council and the government towards the regeneration of Te Puhinui.

TE WHAKAORATANGA I TE PUHINUI

TE PUHINUI REGENERATION CHARTER DRAFT_REV 5

PUUTAKE / PURPOSE

We seek to realise Te Whakaoranga i Te Puhinui in a way that acknowledges, through whakapapa, the interconnectivity of people, place and nature. So that through indigenous, place-based knowledge we learn how to inhabit and evolve our urban environments towards a flourishing future.

TE TIROHANGA / VISION

Te Whakaoranga i Te Puhinui
He waka eke noa
Kia Eke Paanuku, Kia Eke Tangaroa
Haumi e
Hui e
Taiki e

Intergenerational wellbeing of the Puhinui and its peoples
Unity in a shared purpose
With our collective effort,
We will succeed

NGAA AHO / THE THREADS : TAIAO, TANGATA, WHENUA / HEALTHY ENVIRONMENTS, EMPOWERED COMMUNITIES, RESILIENT & INTEGRATED SYSTEMS

RANGATIRATANGA	KAITIAKITANGA	MATAURANGA	MANAAKITANGA	TAURITETANGA	WHANAUNGATANGA	TIAKITANGA
<p>WE BELIEVE: MAATAPONO / VALUES</p> <p>Listening to the voices and according mana, authority and value to the people of Te Puhinui will enable mana whenua and whaanau/community resilience, leadership and oranga/wellbeing.</p>	<p>Te Puhinui is a cherished tupuna/ancestor, teacher and guardian, of whom Mana Whenua are direct descendants. Mana whenua hold fundamental kaitiakitanga obligations and responsibilities on behalf of tupuna and mokopuna.</p>	<p>Whakaoranga/regeneration is achieved through knowledge and understanding of the whakapapa connections between people, place and nature. This requires learning from the past to move into the future.</p>	<p>Wai / water is the source of all life, and through manaakitanga is the primary enabler of whakaoranga / regeneration, contributing to our collective and individual identities and prosperity</p>	<p>Resilience, equity and social and ecological justice is fostered through taurite/balance and harmony of nature, place and people.</p>	<p>Oranga/wellbeing of Te Puhinui requires strong, collaborative and reciprocal relationships between nature, place and people.</p>	<p>We all have a mutual responsibility for the oranga/wellbeing of the nature, place and people of Te Puhinui through generosity, respect and care.</p>
<p>WE COMMIT TO: POU HERENGA/ PRINCIPLES AND RESPONSIBILITIES</p> <p>Giving effect to and fulfilling the mutual Te Tiriti o Waitangi obligations and responsibilities through the partnership between Te Waiohuria Iwi, council and the crown.</p> <p>An empowered communities approach throughout our projects - acknowledging the key role of both rangatira and rangatahi.</p> <p>Raising pride, sense of identity and connection to Te Puhinui to promote common value, understanding and spiritual connection.</p>	<p>Te Waiohuria having a unique role as kaitiaki involving mutual responsibilities and obligations for customary care, protection and development of the nature, place and people of Te Puhinui.</p> <p>Recognising the mana and expressions of self-determination of each iwi of Waiohuria and ensuring that they will play a lead role in the whakaoranga/regeneration of Te Puhinui.</p> <p>Te Waiohuria holding manaakitanga obligations and responsibilities to the wider whaanau, community and manuhiri/visitors.</p>	<p>Pursuing maaturanga - drawing from mana whenua and western knowledge systems and generating new dual knowledge system.</p> <p>Recognising maaramatanga, mana whenua wisdom, and enable intergenerational transfer of customary wisdom and understanding.</p> <p>Embedding resilience and adaptability in our planning and development, acknowledging that this an evolving and dynamic space.</p>	<p>Starting with wai/water and taking a mai i nga maunga ki te moana/whole of catchment approach to regenerating Te Puhinui extending out toward the whole living system of Te Maunuka / the Manukau Harbour.</p> <p>Supporting integral and intact awa and whenua ecosystems and not compromising intergenerational success for short-term gain.</p> <p>Protecting and enhancing the life supporting capacity of Auckland's waters - Te mauri o te wai o Taamaki Makaurau.</p>	<p>Reconnecting and seeking balance and resilience in our ecological, social, cultural and economic systems.</p> <p>Supporting a prosperous community, job creation and economic development through the whakaoranga/regeneration of Te Puhinui.</p> <p>Supporting appropriate and healthy growth, access and recreation, acknowledging that people are part of the living system of Te Puhinui.</p>	<p>Employing whakapapa centred design to enable spiritual, physical, and mental wellbeing between people, place and nature.</p> <p>Mahi tahi / working together to foster and strengthen relationships between Te Waiohuria Iwi, communities, council and the crown and seeking to reduce disparities across the communities of Te Puhinui.</p> <p>Collaborating in design through mutual respect and adaptive decision-making processes that work across disciplines, skill sets, and communities to ensure diversity of thought.</p>	<p>Caring for the nature, place and people of Te Puhinui in order to regenerate the collective mauri / vitality of its ecosystems.</p> <p>Honour and cherish Te Puhinui in our actions and actively support communities role in tiakitanga / stewardship of Te Puhinui.</p> <p>Our approach is anchored deeply in this place - we will listen deeply and learn from Te Puhinui.</p>

SIGNATORIES:

Note - At the time of writing, approvals were being finalised for the signing of the charter by key delivery partners by mid-year.

OVERVIEW OF STRATEGIC INITIATIVES

The strategic initiatives are organised into Ngaa Aho - the three lashings of Taiao (Nature), Tangata (People) and Whenua (Place) that describe discrete but interconnected initiatives that contribute to the regeneration of Te Puhinui. Collectively the strategies provide top down guidance from the strategic governance and decision making level through management; and bottom up, practical actions and ways of working that lead to regenerative outcomes on the ground.



TAIAO | NATURE



Te Wai oo te Puhinui | Waters of Te Puhinui

Sub-Initiatives

- Catchment Wide Stream Restoration
- Catchment Wide Stream Daylighting and Naturalisation
- Permeable Areas and Infiltration
- Reinstate Floodplains
- Strategic Infrastructure Renewal
- Blue Green Industry



Te Ngahere oo Te Puhinui | Te Puhinui Urban Forest

Sub-Initiatives

- Healthy Stream Corridors
- Forest Patches
- Canopy Cover in Urban Areas
- Coastal Forest Enhancement
- Te Puhinui Nursery
- Pest Free Te Puhinui



Te Kaitiakitanga me te Tiakitanga oo Te Puhinui | Te Puhinui Stewardship

Sub-Initiatives

- e Waiohuria Kaitiakitanga
- Te Puhinui Tiakitanga Roopu | Friends of Puhinui
- Te Puhinui Corporate Responsibility Initiative



Te Maaramatanga oo Te Puhinui | Te Puhinui innate wisdom

Sub-Initiatives

- Te Maramataka oo Te Waiohuria | Te Waiohuria Lunar Cycles
- Te Reo Waiohuria Strategy | Te Waiohuria Language Strategy
- Taiao as Kaitiaki | Nature as Guardian and Educator



Te Puungao oo Te Puhinui | Te Puhinui Energy Strategy

Sub-Initiatives

- Warm Healthy Homes
- Te Puhinui Energy Use and Efficiency Strategy
- Te Puhinui Energy Production and Storage
- Low Carbon Transport



TANGATA | PEOPLE



Te Mana Whakahaere oo Te Puhinui | Te Puhinui Governance

Sub-Initiatives

- Te Whakaoratanga i te Puhinui | Puhinui Regeneration Charter
- Steering Group
- Te Puhinui Ancestral Naming Policy
- Te Puhinui Regeneration Agency
- Manukau Harbour Forum
- Policy, Planning and Strategy Alignment
- Living Te Puhinui Regeneration Strategy
- Environmental Compliance
- Manurewa Marae Community Development



Te Puhinui Identity

Sub-Initiatives

- Te Waiohuria Puurakau | Te Waiohuria Iwi Origin Narratives
- Mana Whenua Puukoorero | Mana Whenua Migration and Occupation Narratives
- Haapori Puukoorero | Puhinui Community Narratives
- Te Puhinui is a Tuupuna



Te Puhinui Living Lab

Sub-Initiatives

- Te Arotakinga o Te Puhinui | Te Puhinui Monitoring and Evaluation Framework
- Te Puhinui Hub
- Te Puhinui Co-Labs
- Te Puhinui Citizen Science
- Share Learnings



Te Puhinui Activation, Communication + Engagement Campaign

Sub-Initiatives

- Te Puhinui Empowered Communities Approach
- Te Puhinui Place-Based Education
- Te Puhinui Communications Campaign



Te Puhinui Economic Development

Sub-Initiatives

- Skills, Innovation, Employment and Enterprise Hub
- Indigenous and Social Procurement
- Rangatahi Tuu Kaha | Te Puhinui Youth Development Programme
- Te Puhinui Displacement and Resettlement Manaaki Strategy
- Te Puhinui Community Land Trust
- Te Puhinui Philanthropy



WHENUA | PLACE



Ngaa Tohu oo Te Puhinui | Symbols of Te Puhinui

Sub-Initiatives

- Te Mana oo Ngaa Matukuria
- Te Puhinui Cultural Tohu / Markers
- Te Puhinui Public Arts and Cultural Taonga Integration



Te Puhinui Food Sovereignty

Sub-Initiatives

- Te Puhinui Local Food Strategy
- Te Puhinui Food Commons
- Te Puhinui Mahinga Kai | Food Gathering Sites
- Te Maara Kai o Wirihana | Wirihana Community Gardens



Te Para Kore i Te Puhinui | Te Puhinui Zero Waste Systems

Sub-Initiatives

- Te Puhinui Resource Recovery Centre
- Circular Material Management
- Te Puhinui Local Goods and Services



Restructuring Te Puhinui's Built Environment

Sub-Initiatives

- Orientate towards and connect to the Waters of Te Puhinui
- Human Scale Communities
- Retrofitting the Built Environment
- Safe and Healthy Streets
- Te Puhinui Backyard Initiative
- Te Puhinui Open Space Network



Ngaa Ara aa Te Puhinui | Te Puhinui Pathways

Sub-Initiatives

- Te Puhinui Path
- Te Ara Huupara oo Te Puhinui | Te Puhinui Playscape
- Te Puhinui Fitness Trail
- Te Puhinui Signage and Wayfinding

RELATIONSHIPS BETWEEN STRATEGIC INITIATIVES

Each strategic initiative forms part of the regeneration of Te Puhinui and is connected to other initiatives in different ways. The strength of connection and relationships between the strategies are identified to highlight dependencies, synergies and opportunities to catalyse regeneration and amplify positive impacts.

Strategic initiatives

-  **Taiao | Nature**
-  Te Wai oo te Puhinui | Waters of Te Puhinui
-  Te Ngahere oo Te Puhinui | Te Puhinui Urban Forest
-  Te Kaitiakitanga me te Tiakitanga oo Te Puhinui | Te Puhinui Stewardship
-  Te Maaramatanga oo Te Puhinui | Te Puhinui Innate Wisdom
-  Te Puungao oo Te Puhinui | Te Puhinui Energy Strategy
-  **Tangata | People**
-  Te Mana Whakahaere oo Te Puhinui | Te Puhinui Governance
-  Te Puhinui Identity
-  Te Puhinui Living Lab
-  Te Puhinui Activation, Communication + Engagement Campaign
-  Te Puhinui Economic Development
-  **Whenua | Place**
-  Ngaa Tohu oo Te Puhinui | Symbols of Te Puhinui
-  Te Puhinui Food Sovereignty
-  Te Para Kore i Te Puhinui | Te Puhinui Zero Waste Systems
-  Restructuring Te Puhinui's Built Environment
-  Ngaa Ara aa Te Puhinui | Te Puhinui Pathways



The diagram maps the connections between strategic initiatives. The thickness of the line identifies the strength of the relation.

PROGRAMME OF PHYSICAL WORKS

The programme of works identifies individual projects and strategic initiatives from the Regeneration Strategy along the Puhinui Stream corridor and adjacent land uses within the surrounding neighbourhoods and Manukau City Centre. The programme of works clearly outlines project scope for design and implementation, so that the relevant council

departments, local boards and other development agencies can allocate appropriate resources and funding to implement local projects in a coordinated and integrated manner.



KEY

- Transform Manukau
- Puhinui streams
- Ngaa Ara aa Te Puhinui (off stream section)*
- Open space
- Existing Building Footprint
- Proposed Building Footprint as per Eke Panuku Development Manukau Framework Plan, March 2017

PROJECT AREAS

- 1 Puhinui Domain
- 2 Manukau Walking + Cycling Plan
- 3 Transform Manukau Industry Stream Restoration
- 4 Hayman Park Redevelopment + Stormwater Pond Upgrade
- 5 Wiri Stream Dechannelisation + Pond Upgrade
- 6 Barrowcliff Bridge + Place
- 7 Wiri Playground
- 8 Kerrs Road Crossings
- 9 Wiriwana Development
- 10 Counties Manukau DHB Walkway + Wetland
- 11 Rata Vine Dechannelisation + Park Improvements
- 12 Counties Manukau DHB Development
- 13 Te Maara Kai o Wiriwana | Wiriwana Community Gardens
- 14 Special Housing Area - Pacific Events Centre Drive

STRATEGIC INITIATIVES

Planned projects throughout the catchment reflect and integrate strategic initiatives from Te Puhinui's regeneration strategy. Some of these strategic initiatives have been spatially located on the Programme of Works Plan. Other strategic initiatives that are planned in the area which are less spatially bound such as Te Puhinui Economic Development and Te Puhinui Identity have not been represented on the plan.



*Ngaa Ara aa Te Puhinui | Te Puhinui Pathways runs along the length of the stream

Scale: 1:10 000@A3



PROGRAMME OF PHYSICAL WORKS - ARTIST IMPRESSION - WIRI RESERVE



1 Protect and enhance Puhinui stream to improve bank stability and habitat.

3 Reestablish a matrix of forest patches to support a range of native habitats

5 Develop a long-term catchment wide monitoring and evaluation programme.

7 Re-establish sites throughout Te Puhinui for traditional wild harvest.

9 Develop a catchment wide wayfinding and signage strategy for people moving through Te Puhinui.

11 Wiri Playground and a connecting network of play elements along Te Puhinui stream corridor.

2 Protect and enhance riparian corridor to restore the ecological function of the stream.

4 Reinvigorate and apply Maaori lunar cycles.

6 Identify, maintain, enhance the unique natural, cultural and built heritage.

8 Orientate development towards and connect to the Waters of Te Puhinui

10 Create a shared walkway along Te Puhinui Stream from maunga / mountains to moana / sea.

PROGRAMME OF PHYSICAL WORKS - ARTIST IMPRESSION - RATAVINE



- 1 *Protect and enhance Puhinui stream to improve bank stability and habitat.*
- 2 *Protect and enhance riparian corridor to restore the ecological function of the stream.*

- 3 *Reestablish a matrix of forest patches large enough to support a range of habitats for native wildlife.*
- 4 *Te Waiohua play a lead role in fulfilling fundamental kaitiakitanga obligations on behalf of Te Puhinui.*

- 5 *Establish Te Puhinui as a living outdoor classroom.*
- 6 *Establish partnerships with education providers and local practitioners in Te Puhinui.*

- 7 *Develop and deliver Te Puhinui educational programmes for schools, community and businesses.*
- 8 *Re-establish sites throughout Te Puhinui for traditional wild harvest.*

- 9 *Re-imagine and establish streets as places for people of all ages and abilities.*
- 10 *Orientate towards and connect to the Waters of Te Puhinui.*
- 11 *Increase the density and mix of uses of local neighbourhoods in Te Puhinui.*

- 12 *Create a shared walkway along Te Puhinui Stream from maunga / mountains to moana / sea.*
- 13 *Develop a catchment wide wayfinding and signage for people moving through Te Puhinui.*

DESIGN GUIDELINES - UPPER CATCHMENT

The design guidelines demonstrate how the different strategic initiatives can be brought together to achieve optimal benefits for Taiao (Nature), Tangata (People) and Whenua (Place) in five distinctive neighbourhoods across Te Puhinui - the upper catchment, the lower catchment and three distinct neighbourhoods through the middle catchment - residential, industrial and Manukau City Centre.

LOCATION MAP



KEY

- Existing
- Proposed
- Primary path
- Secondary path
- Access to stream
- Overland flowpath
- New buildings
- Existing building (ret-rofit)
- Bridge
- Playground
- Wetland
- Stream daylighting

Develop a long-term catchment wide monitoring and evaluation programme to create connection, build baseline knowledge and assess impacts and benefits over time.

Align existing central and local government agency policy, planning and strategy documents to Te Whakaoranga i te Puhinui to ensure shared objectives and an integrated approach to regenerating Te Puhinui.

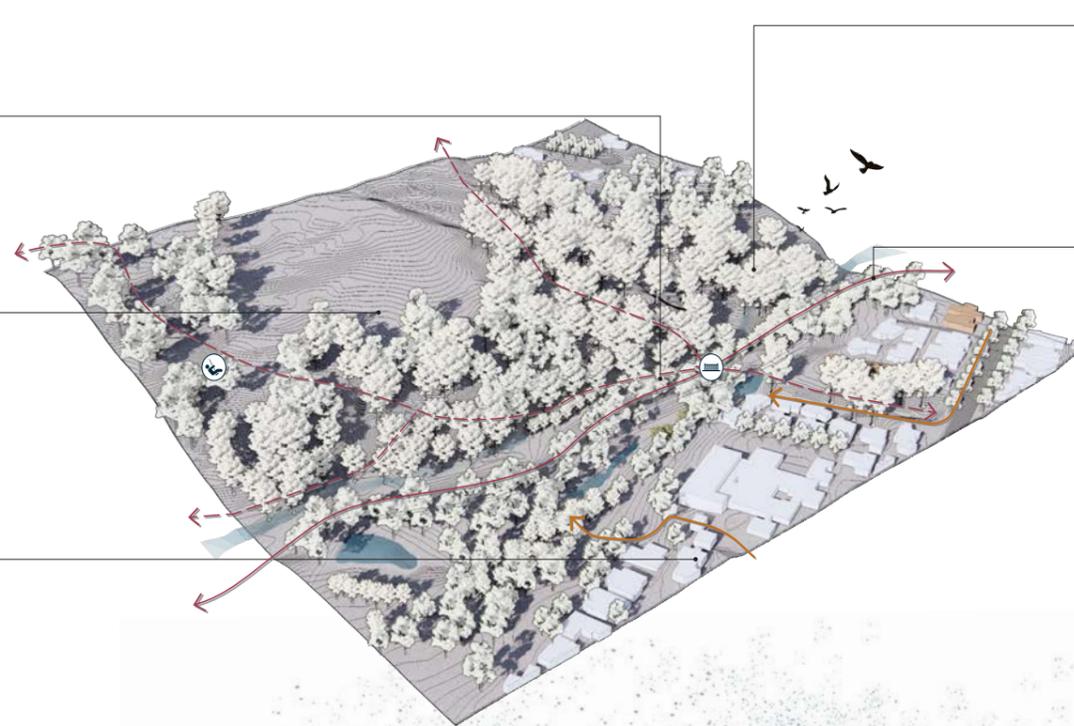
Identify, maintain, enhance and where appropriate, celebrate Puhinui's unique natural, cultural and built heritage, whilst reinforcing physical and metaphysical connections to the awa and Te Puhinui's distinctive identity and community.

Protect and enhance permanent and intermittent streams within the catchment to improve bank stability and habitat.

Develop a strategy to decarbonise the transport of people and goods to, from and within Te Puhinui.

Where possible reinstate and enhance natural drainage patterns to improve ground water recharge, reduce peak stormwater run-off and flood risk and create opportunities for ecological enhancement.

Identify and restore overland flow paths and the natural flow regime of the stream network to improve ground water recharge, reduce peak stormwater run-off and flood risk, and create opportunities for ecological enhancement.



Develop and deliver Te Puhinui educational programmes for schools, community and businesses to improve ownership of local issues and challenges and empower local responses to these.

Create a connected network of play elements along the stream corridor to develop an educational and experiential pathway for people who live, work, learn and play in Te Puhinui, incorporating cultural huupara elements where appropriate.



Recognise and enable opportunities for the special role of Mana Whenua as kaitiaki / guardians and work with existing community groups to build capability and capacity.

Protect and enhance riparian networks to restore the ecological function of the streams, improve landscape connectivity and increase biodiversity in Te Puhinui.

Reinvigorate, celebrate, and apply Te Waiohau lunar cycles in planning, design, operations and delivery of a wide range of activities within Te Puhinui.

Ensure everyone who lives in Te Puhinui lives in a warm, dry and healthy home that reduces the risk of respiratory issues and other preventable health conditions.

DESIGN GUIDELINES MID CATCHMENT | CITY CENTRE

LOCATION MAP



KEY

- Existing
- Proposed
- Primary path
- Secondary path
- Access to stream
- Overland flowpath
- New buildings
- Existing building (ret-rofit)
- Bridge
- Playground
- Wetland
- Stream daylighting
- Living Roof
- Urban Swale
- Parking

Environmental Compliance - Strengthen compliance of environmental issues in Te Puhinui, including but not limited to wastewater management and illegal discharges, in order to cultivate responsibility for all land users and to ensure best practice environmental management is achieved.

Te Puhinui Hub - Establish a physical and digital hub dedicated to deepening our collective understanding of Te Puhinui, and promote local innovation and Te Puhinui as a living outdoor classroom.

Develop a strategy for public arts, taonga and culture design integration for Te Puhinui.

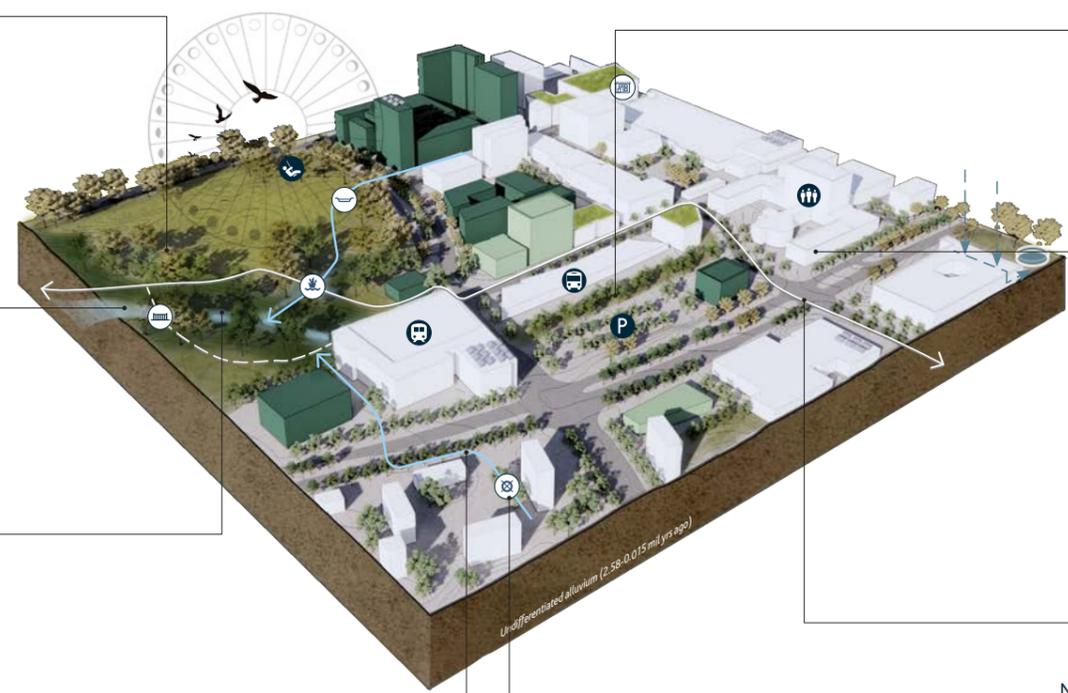
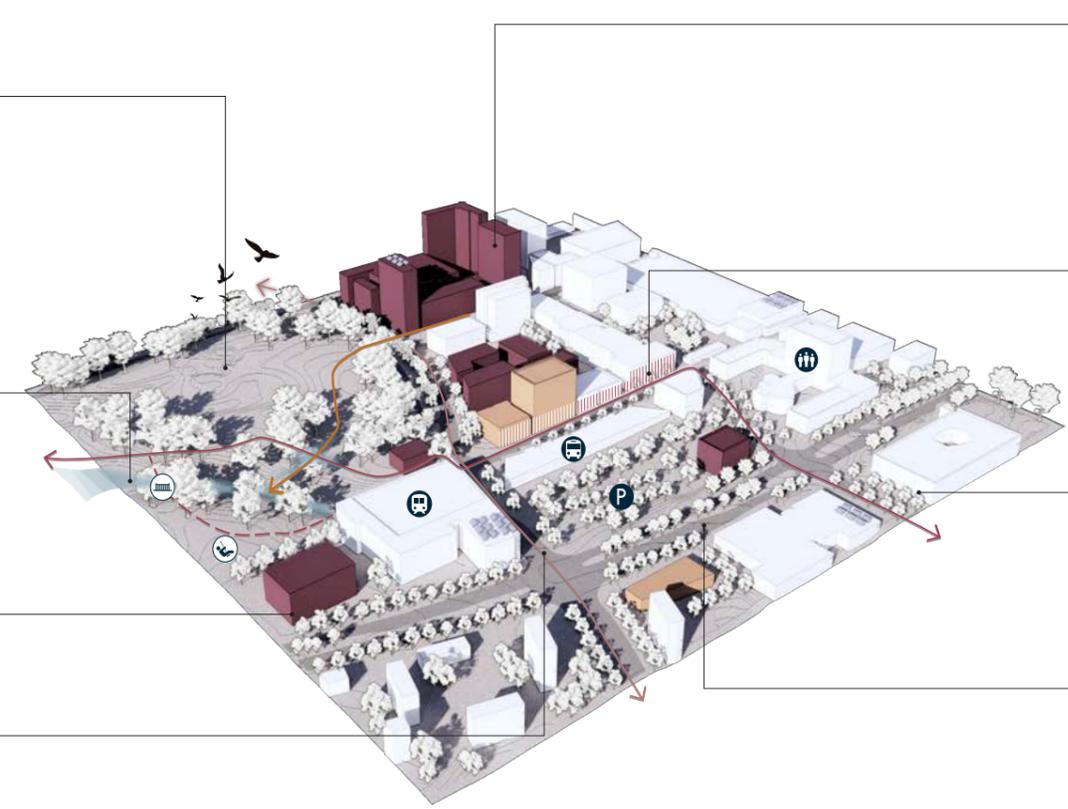
Create a shared walkway along Te Puhinui Stream from Tootara Park in the upper catchment to Puhinui Reserve in the lower catchment to provide a continuous publicly accessible link from maunga / mountains to moana / sea.

Forest Patches - Reestablish a matrix of dense, multilayered forest patches large enough to support a range of habitats for native wildlife that are distributed in a way that creates stepping stones for wildlife moving through the catchment and to improve landscape connectivity and ecological integrity.

Promote, use and proactively teach Te Waiohuria dialect and narratives within Te Puhinui. Reinststate the mana of te reo Waiohuria within the catchment for the enrichment and benefit of Te Puhinui and all its communities.

Assess, prioritise and target upgrades and renewals of existing stream and stormwater assets to increase capacity of the network, improve water quality, enhance ecosystem health, and reduce the fossil carbon intensity of maintenance practices.

As urban development continues, maximise permeable areas and infiltration of stormwater to increase ground water recharge and improve the base flow of streams.



Te Puhinui Co-Labs - Establish partnerships with education providers and local practitioners in Te Puhinui to learn, develop and prototype knowledge and responses which address identified challenges and opportunities within the catchment.

Maintain and systematically retrofit Te Puhinui's built environment to improve the energy and water efficiency of existing buildings and to diversify land uses to contribute toward vibrant walkable communities.

Increase the density and mix of uses of local neighbourhoods so that the people who live, work, play and learn in Te Puhinui have the opportunity to walk to meet all of their daily needs.

Te Puhinui Signage and Wayfinding - Develop a catchment wide wayfinding and signage strategy to provide legibility and continuity for people moving through Te Puhinui.

Integrate a canopy cover of tall woody vegetation into road corridors, private lots and public land to improve amenity, micro climates, air quality, habitat, water quality and reduce stormwater runoff.

Te Puhinui Corporate Responsibility Initiative - Develop a corporate responsibility and business sustainability programme to support businesses, industry, commercial ventures and public institutions and agencies operating in Te Puhinui to take responsibility for their actions and by extension the environmental well-being of Te Puhinui and its people.

Decarbonise Transport - Develop a strategy to decarbonise the transport of people and goods to, from and within Te Puhinui.

Identify and restore overland flow paths and the natural flow regime of the stream network to improve ground water recharge, reduce peak stormwater runoff and flood risk, and create opportunities for ecological enhancement.

DESIGN GUIDELINES LOWER CATCHMENT

Manurewa Marae Community Development - Support Manurewa Marae, the only urban community marae in the catchment, to play a key role in the regeneration of Te Puhinui through the provision of place-based community development initiatives and services.

Indigenous and Social Procurement - Embed a procurement strategy that achieves positive social, economic, environmental and cultural outcomes across Te Puhinui including significantly lifting Maaori social and economic well-being.

Te Puhinui Backyard Initiative - Develop strategies to support homeowners and permanent residents that encourage and promote people turning their backyards into productive landscapes for growing food, water care and providing a sanctuary for wildlife.

Te Maramataka oo Te Waiohua / Te Waiohua Lunar Cycles - Reinvigorate, celebrate, and apply Te Waiohua lunar cycles in planning, design, operations and delivery of a wide range of activities within Te Puhinui.

Protect and enhance the riparian networks to restore the ecological function of the streams, improve landscape connectivity and increase biodiversity in Te Puhinui.

Protect and enhance permanent and intermittent streams within the catchment to improve bank stability and habitat.

Decarbonise Transport - Develop a strategy to decarbonise the transport of people and goods to, from and within Te Puhinui.

Te Puhinui Citizen Science - Develop a long-term catchment wide monitoring and evaluation programme, including water quality in order to create connection, build baseline knowledge and assess impacts and benefits over time.

Manukau Harbour Forum - Support a collaborative response to improve conditions of Te Maanuka/ Manukau Harbour composed of representatives of the nine Auckland local boards on the shores of the border.

Maintain and systematically retrofit Te Puhinui's built environment to improve the energy and water efficiency of existing buildings and to diversify land uses to contribute toward vibrant walkable communities.

Increase the density and mix of uses of local neighbourhoods so that the people who live, work, play and learn in Te Puhinui have the opportunity to walk to meet all of their daily needs.

Create a shared walkway along Te Puhinui Stream from Tootara Park in the upper catchment to Puhinui Reserve in the lower catchment to provide a continuous publicly accessible link from maunga / mountains to moana / sea.

Protect and maintain areas of significant conservation value and reinstate endemic ecosystems to support coastal habitats and wildlife and improve resilience of the coastline against the ongoing effects of coastal inundation and a changing climate.

Warm Healthy Homes - Seek to ensure everyone who lives in Te Puhinui lives in a warm, dry and healthy home that reduces the risk of respiratory issues and other preventable health conditions.

Reinstate Floodplains and Allow for Flooding - Where possible reinstate and enhance natural drainage patterns to improve ground water recharge, reduce peak stormwater runoff and flood risk and create opportunities for ecological enhancement.



LOCATION MAP



KEY

- Existing
- Proposed
- Primary path
- > Secondary path
- Access to stream
- Overland flowpath
- New buildings
- Existing building (ret-rofit)
- Bridge
- Yazoo Stream
- Rare and threatened bird in SEA
- Rare and threatened plants in SEA

NEXT STEPS

The strategy has been designed intentionally to support delivery by a number of agencies over multiple years - its realisation will require all hands on deck.

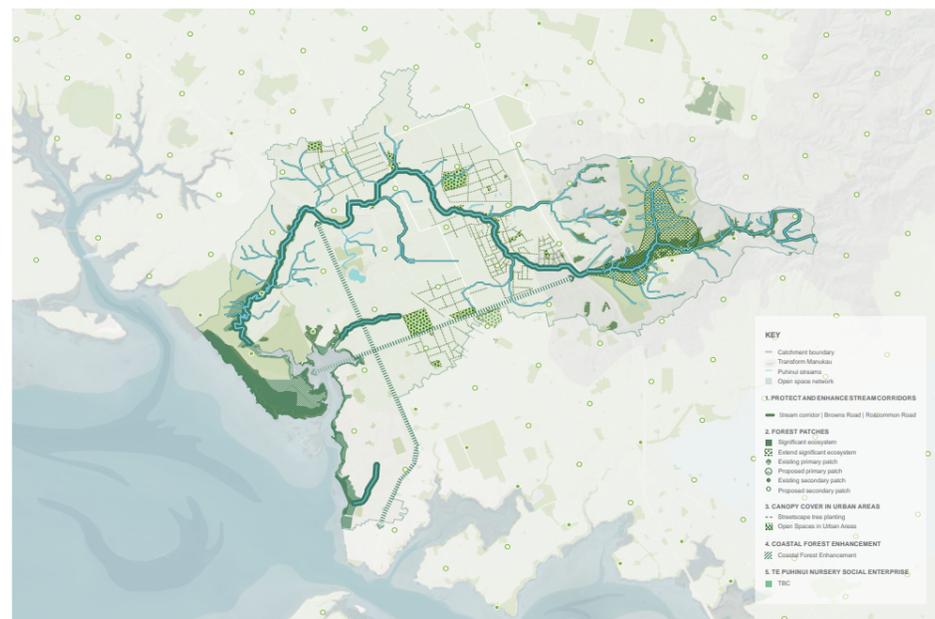
The design process undertaken to date has intentionally built the knowledge and relationships required by key project delivery partners to realise this strategy. As a result, many of the strategic initiatives and capital work programmes are either underway or in planning.

There is already clear evidence of the success of this strategy, as multiple new and existing delivery partners have reached out to the lead team, offering funding and support to realise the collective vision for the catchment.

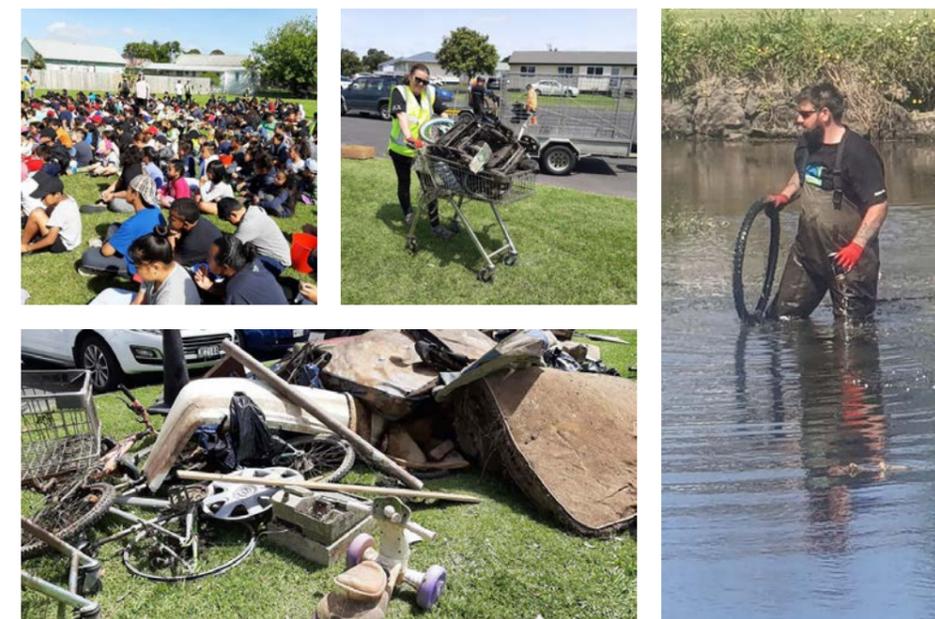
A critical next step to enable the delivery of this strategy is the development of an 'Arotakinga', monitoring and evaluation framework. The framework will ensure that the Puhinui Regeneration Strategy is effective and will allow the project partners to monitor and adapt the strategy over time. This inherently flexible approach will allow the implementation to evolve to accommodate an ever-changing social, economic and environmental context.

Te Puhinui Regeneration Charter is being prepared to be signed - clearly stating the political and community commitment and will to realise 'Te Whakaoratanga i te Puhinui - the regeneration of the Puhinui'.

Te Ngahere oo Te Puhinui | *Te Puhinui Urban Forest Strategic Initiative*



Local Stream clean-up effort extracting waste from the stream



Kotahitanga Day



Community Planting Day in Puhinui Reserve



Innovating Streets Manukau



Wiri Playground



Innovating Streets - Wiri Central co-design workshop

