







Hāpaitia te ara tika, pūmau ai te rangatiratanga mo ngā uri whakatipu.

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Designing communities fit for the future

A vision for our future region

Further urban design and related guidance

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1.0 What this toolkit does

The *Urban Design Toolkit* delivers on a range of important benefits, including social wellbeing, environmental health, economic vibrancy, community connection and climate resilience. This responds to the challenge of climate change and a resource-constrained future, where we need to design our urban areas to be more resilient and sustainable while creating the foundations for strong communities.

Good urban design will be critical to reducing transport emissions in the region through reducing our reliance on private vehicles as it can make our communities more walkable – so that people are able to access most of the things and services they need without needing to own a car. A better designed region can also reduce the burden of infrastructure costs on our communities by using our existing networks more efficiently.

Part 2 of the Toolkit provides process guidance and possible interventions for developing sustainable future communities. It focuses on the application of six place pillars, or key principles for urban design, which provide a holistic framework of the key qualities that contribute to the creation of more liveable and sustainable communities and that make a place a community.

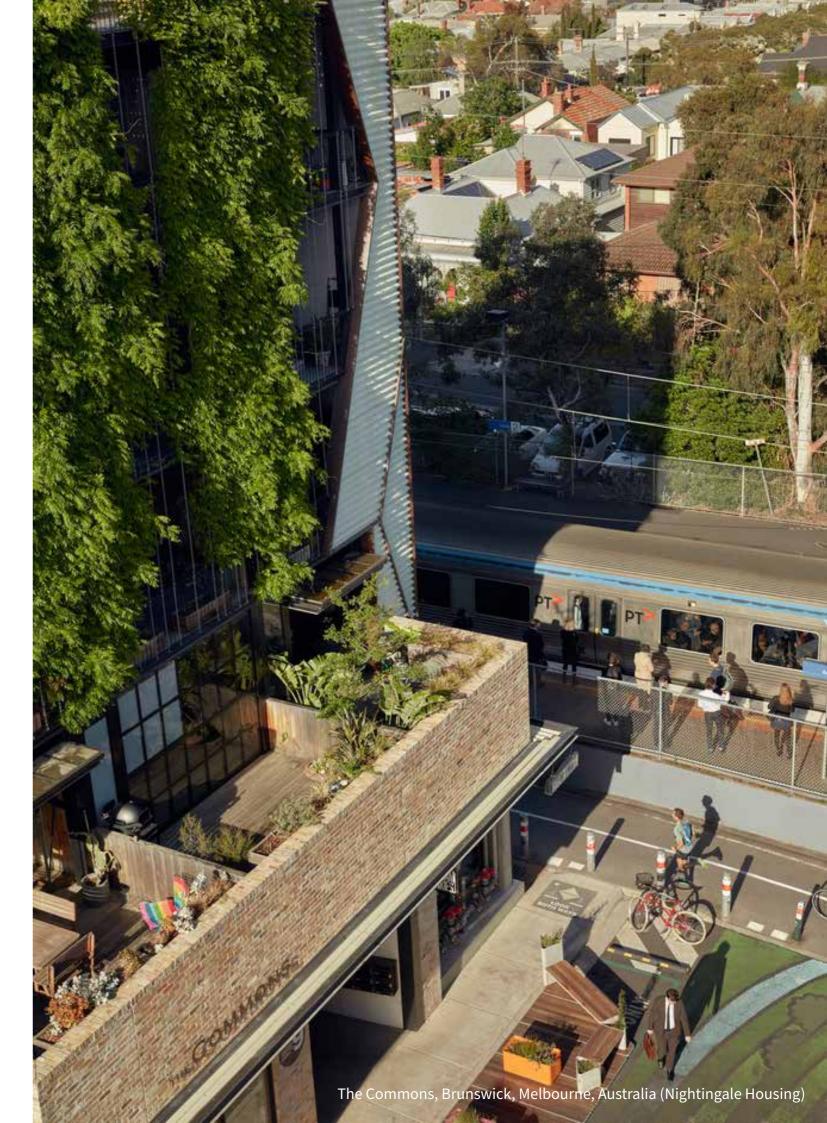
Part 3 offers a range of international and national exemplars that inspire sustainable urban design at different scales within the Wellington Region.

The *Urban Design Toolkit*:

- Supports reduced transport emissions by demonstrating an urban design vision for the region
- Provides an accessible toolbox for non-experts to help support communities, local government, iwi and hapū, developers and other stakeholders to influence better outcomes for their community
- Demonstrates best practice that can be applied to a range of contexts
- Supports regional and district policies such as the Regional Policy
 Statement and district plans with practical guidance

Ka-tipu, toitū te whenua.







2.0 Designing communities fit for the future

Our regional communities of the future will be shaped by a range of dynamics, including population growth and associated infrastructure needs, climate impacts, and energy and resource constraints. While we cannot accurately project the future, we can be sure that it will not be the same as the immediate past. What is certain is that our urban areas, where about 87 percent of New Zealanders live, will need to make reduced resource and energy demands and be more integrated with ecological systems to be resilient and future-fit.

Future communities will require future-focused and ecologically sound design and decision-making, laying the groundwork for intergenerational waiora/wellbeing, thriving local economies, urban connectivity and human and environmental resilience.

This section outlines where development should take place, before describing what good development looks like. This is achieved by applying the six place pillars to four urban development scenarios at different scales: single site, neighbourhood/ street, community precinct and local centre.





Where development should go

The elements of good site selection

Identifying strategic locations for development is essential for creating future communities that are resilient and sustainable. See the diagram below for some key considerations for developers and territorial authorities when evaluating and selecting future development sites.

Mana Whenua Relationships Understanding **Appropriate Development Location** cultural significance of site Strong connections Proximity to to employment **Planning Context** amenity, social hubs and community infrastructure Supportive planning rules for development Whakawhanaungatanga Development Proximity to (building relationships) supports open space and with Mana Whenua strategic recreation intensification networks Resilience to natural Avoidance of significant hazards including climate natural environments change (e.g. site location Engage early with Mana not subject to flooding, landslides and coastal Whenua and the community inundation) and consider to discuss appropriate potential seismic impacts development locations **Adequate Infrastructure Qualities of Site** Capacity Potential to enhance Capacity across a existing ecosystems and variety of transport provide community methods connection to nature Suitable site for Infrastructure Development avoids

6 The Urban Design Toolkit | GREATER WELLINGTON 7

capacity,

particularly

three waters

construction and

building platforms,

accessible gradients

development of

streets with

waterbodies and

indigenous

vegetation

areas of significant

Guiding Place Pillars

Key principles for integrated urban design

We have developed these place pillars informed by regional, national and international policy, planning and design practice. They provide the foundational elements for the creation of more liveable, equitable and sustainable communities, while addressing climate, resilience and affordability issues.



1_NGĀ HAERENGA:Journeys of Place



2_PITO MATA: Resilient Place



3_PUNA WAIORA: *Vibrant Local Economies*



4_ ORANGA TAIAO: *Nature in Place*



5_KĀINGA TIPU:Healthy People and Communities



6_PA TAURIKURA:Expressive Place,
Character and
Identity

Future communities are designed around walkability (being able to access most of the things in everyday life by walking, cycling or a short trip by public transport). This allows people to connect to the places, people, localities, events and communities that are important to them and helps create vibrant, people-friendly neighbourhoods.

Our neighbourhoods, towns and cities of the future will need to be resilient in the face of a changing climate and utilise less energy and resources. Sustainable urban design will help deliver on the reduction of resource and energy use and greenhouse gas emissions, as well as the enhancement and care of nature through watersensitive urban design and regenerative design.

Promoting mixed-use development (e.g., retail, business and light industrial mixed and combined with residential) supports a diversity of activities within a compact area, supporting a vibrant and diverse local economy and socially connected community.

Future urban communities are designed in a way that protects, restores and enhances the natural environment. This will enable people to reconnect with nature in the places they live and work, and create more resilience in our urban spaces. For example, cooling and water-regulating functions of trees, water regulating functions of wetlands and biodiversity enhancing effect of green corridors.

At the heart of making a well-functioning society are communities in which people's social, cultural and economic needs are met.

Good urban design can help create public safety, a sense of connection to place and community cohesion. It can also meaningfully contribute to affordability and quality of life.

Each place is unique and has its own character and features. Celebrating place is a way of acknowledging these special aspects that make one place distinct from the next. Sense of place is supported by quality built environment, architecture, streetscape, public realm and open-space as well as important relationships to nature.

What future-fit communities look like

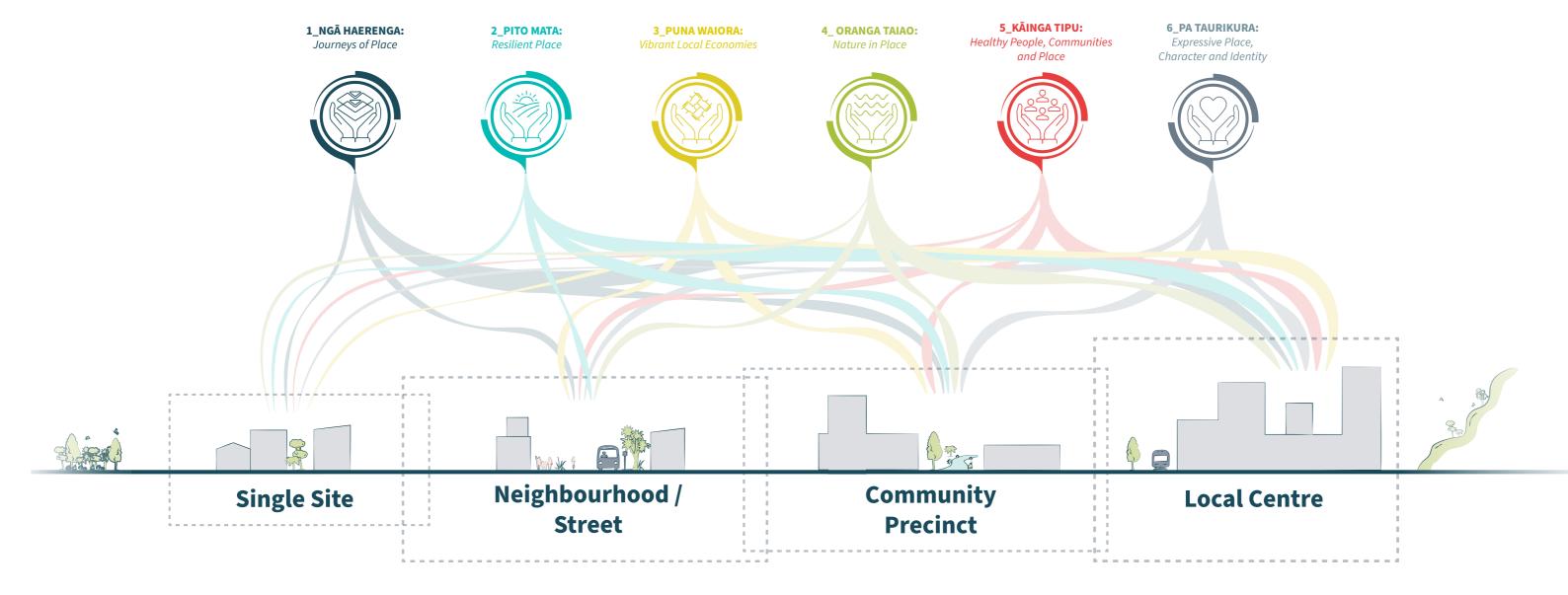
Single Site // Neighbourhood Street // Community Precinct // Local Centre

The Toolkit presents four urban development scenarios to envision the possibilities of future place: a single site, a neighbourhood / street, a community precinct and finally a local centre.

These show ways we can renew and improve existing urban environments at a range of scales.

The diagram below shows how the place pillars inform the design of future communities,

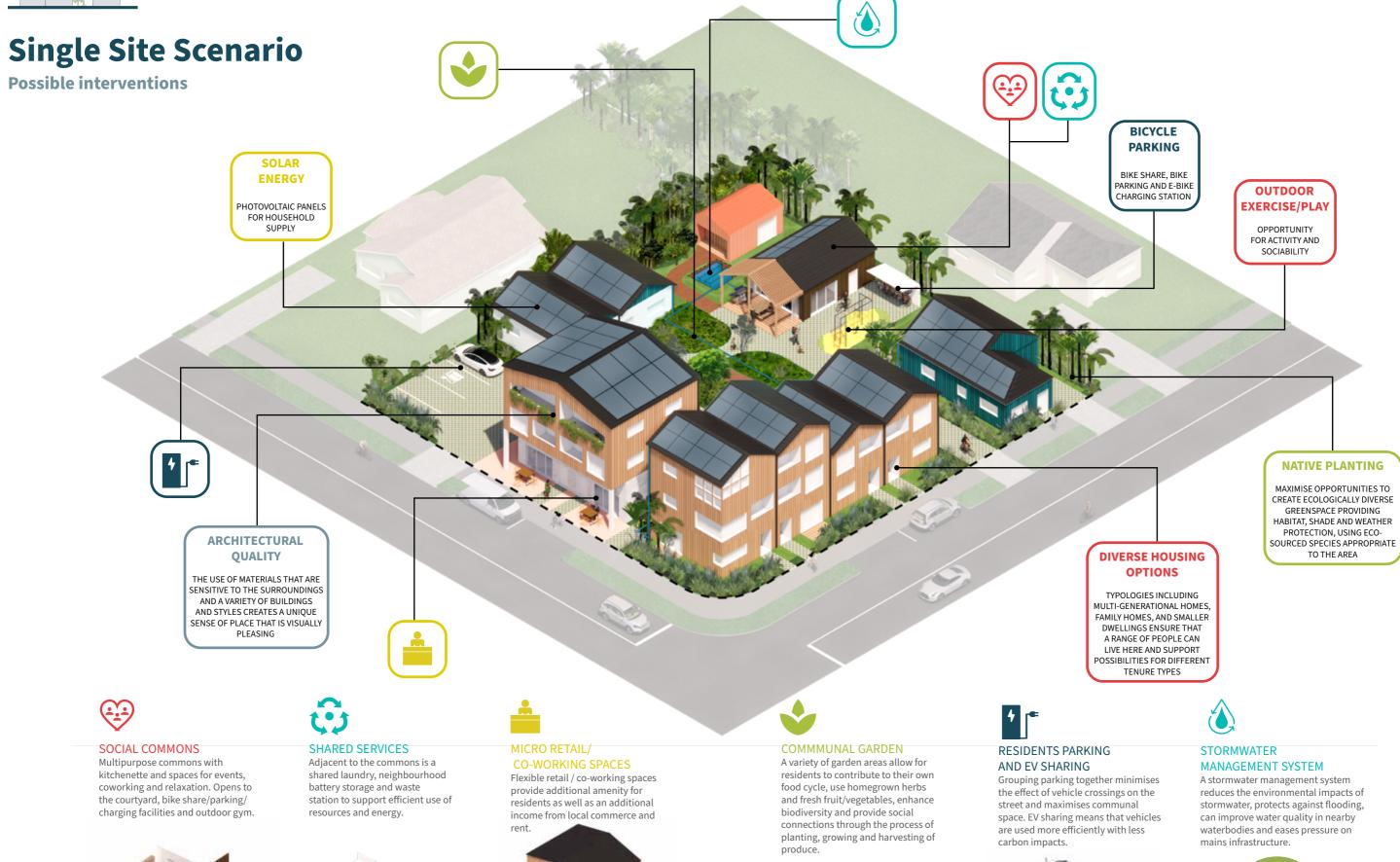
to help ensure that they are resilient, and they protect and enhance nature and provide for social connection and cultural and economic vibrancy.











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Single Site Scenario

Possible interventions



1_Ngā haerenga: *Journeys of Place*



2_Pito Mata:Resilient Place



3_Puna Waiora: Vibrant Local Economies



4_ Oranga Taiao: *Nature in Place*



5_Kāinga Tipu:Healthy People and
Communities



6_Pa Taurikura: *Expressive Place, Character and Identity*

- **01_Bike share facilties** to promote active transport for local trips and to provide health and social benefits
- **02_Attractive pathways and connections to neighbours / local amenities,** encouraging accessibility, walkability and participation
- 03_Carpooling/sharing facilities to minimise private car ownership, reduce vehicles on the road and provide affordable, convenient ways of utilising a common collection of vehicles
- **04_Universally accessible design,** supporting inclusivity and equitable movement with ease and circulation designed for all people

- O1_Prioritisation of natural, renewable and low-carbon materials for building and construction to lower the environmental impact and carbon footprint of construction
- **02_Energy efficient design**including triple glazing,
 insulation, solar orientation and
 balanced ventilation
- **03_Centralised heating/cooling facilites** to maximise energy efficiency
- **04_Grey water reuse** for garden irrigation, toilet flushing and laundry
- **05_Shared composting facitilies**to reduce organic waste going
 to landfill and increase garden
 yields
- o6_Water-sensitive urban design, such as swales, rain gardens and use of permeable surfaces and natural processes to reduce runoff, improve water quality and provide greenspace
- **07_Renewable energy generation,** including solar panels for heating purposes, collective energy storage for surplus

- 01_Bookable multi-purpose space to encourage residents to participate and share in a variety of hobbies / activities / events / local services
- **02_Common resources** comprised of gardens, harvesting and preserving kai, shared vehicles and bikes and shared facilities
- **03_Dual residential/retail or co-working spaces** to
 provide micro-enterprises / an
 additional income or amenity
 for residents without the need
 to travel
- **04_Site recycling station** for households to reduce waste and encourage a collective behaviourial shift

- O1_Restoring original planting,
 planting and growing native
 and local species of plants,
 to maximise indigenous
 biodiversity and seasonal
 benefits for flora and fauna
- **02_Green infrastructure,** including green roofs and green walls to improve habitats, biodiversity, temperature regulation, carbon sequestration, natural watercyles and downstream water quality
- **03_Productive vegetation** that provides food and also benefits bird and insect populations

- **01_Common plaza** for socialising and gathering together
- **02_Shared multipurpose room** for community gatherings, occasions and celebrations
- 03_Diversity of housing options/ typologies to grow social and cultural diversity, and support affordability
- **04_Spaces for excercise and outdoor activity** including the use of shared equipment and facitilies
- **05_Amenities that integrate cultural practices** such as
 mara kai [food production] and
 wānanga [education]
- O6_Integration of crime prevention through environmental design such as the use of lighting, sightlines and activity to create safe environments

- O1_Well-considered relationship
 to neighbourhood that is
 sensitive to existing and future
 environments, including
 heights, setbacks, outlook,
 privacy and materials
- **02_Enhancement of streetscapes**and public spaces through
 design principles such as street-facing windows and minimising
 full-height front fencing
- **03_Celebration and preservation of existing qualities of place,** such as architectural and environmental qualities, including trees, to enhance aspects of place
- **04_Quality architectural form** that is harmonious and creates an unique, attractive environment complementary to its natural and built context



Single Site Scenario

Examples of sustainable urban design







Resilient Place

Vibrant Local Economies



4_ Oranga Taiao: Nature in Place



Healthy People,

Place

Expressive Place, Communities and Character and Identity

PLACE PILLARS

Merelbeke is a development that is centred around spacious grounds and facilites designed to create an active and sustainable life for families. The social commons demonstrates this ethos, with diverse and open facilites that interact with a nearby garden and courtyard.







facility that features a flexible commercial space on the ground floor that can be utilised for retail, hospitality or co-working. This area is integrated with the dwellings and communal spaces in the building so that they function as a whole and amenity benefits are maximised.

UKO Glebe is a coliving

The main common area at 26 Aroha, a Mt Albert cohousing development, is integrated with shared services such as laundry facilities, solar energy generation and waste disposal. This ensures that basic services are used most efficiently and are accessible to all residents.

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The Bryggervangen "Climate District" project involves integrating stormwater retention with communal green spaces on the site. This sees a combination of raingardens, tanks and piping systems minimise flood risks and enures that stormwater efficiency is maximised along with the health of greenspaces.



Toiora High Street features townhouses centred around a large communal garden with consolidated on-site parking. Some common parking is provided, including EV chargers. The shared residents facilities also include multi-use room, meeting room, office, guest accomodation, workshop and garden shed.







Cohaus is a community of people living in a twenty-unit housing development in Grey Lynn. A shared central garden is the focus of the development including fruiting trees, vegetables and native species, a common room, storage spaces, laundry and bike parking.



Single Site Scenario

Aotearoa Placemaking

COHAUS, GREY LYNN, AUCKLAND

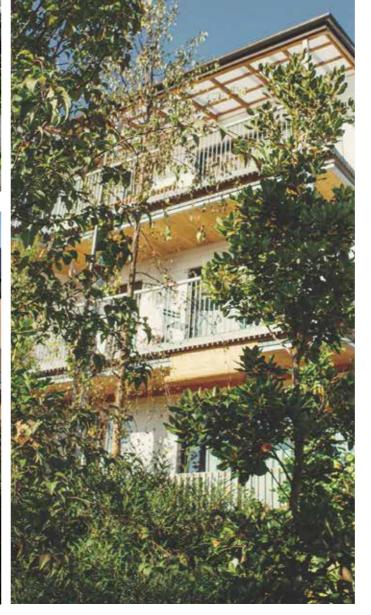
Cohaus is a medium-density residential development in Grey Lynn, Auckland, comprised of 20 dwellings ranging from apartments to terraced townhouses. It is an cohesive community on a single site that is well-integrated with the surrounding environment.













1_Ngā haerenga: *Journeys of Place*



2_Pito Mata:



3_Puna Waiora: Vibrant Local Economies



4_ Oranga Taiao:Nature in Place



5_Kāinga Tipu:Healthy People,
Communities and
Place



6_Pa Taurikura: Expressive Place, Character and Identity

Cohaus includes on-site bike-storage and a shared electric car system, maximising convience and minimising private vehicle use.

Maximised solar gain through building and landscape design and and stormwater management through water sensitive urban design.

An on-site studio provides a communal working environment for residents.

The living environments centre around a common garden area that has shared productive gardens and an orchard.

Co-haus encourages social participation through its shared spaces, creating a cohesive community.

The architectural form is sensitive to the surrounding suburban environment. The development kept an existing villa that was on the site, incorporating this home into the development.



Single Site Scenario Who lives here?





"I thought moving to a lowmaintenance place would finally get my husband to relax, but nope! Turns out he's signed up to lead the community garden! Guess I won't be seeing him around much!" - Maggie





"I still don't quite understand how solar panels work, but they seem to be bringing down the monthly power bill, so I can't complain! Plus, the house always feels nice and warm with lots of sunshine coming in." - Bill

"The street art is always changing. It is like having your own daily dose of culture outside your door! Though, there's this new sculpture down the road that's got me scratching my head." - Bill



OUR DAILY TIMELINE











9am

The Turner's spend a few mornings in the week volunteering at the local library, where they can chat with the locals and find some good books.

<u>12pm</u>

They enjoy having lunch in the shared green space to watch the hustle and bustle of the community around

1pm

Bill heads off to the community garden. He wants to do some weeding and grab some fresh vegetables to prepare later for dinner.

4pm

At least once a week, the Turner's bus into the city to visit their grandkids for

8pm

When they arrive home, the Turner's enjoy a gentle stroll around the neighbourhood to unwind and recap the day together often stopping to say quick hellos to



Single Site ScenarioWho lives here?

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INTERGENERATIONAL FAMILY



'Talofa, we are the **Fiaola** Family: Grandma and

"Living next to a playground is like having a built-in babysitter! Keeping an eye on the kids? Easy peasy. Getting them to leave? Mission: Impossible!" - Sina





"When we have events as a whānau, it can be tough to get there by bike or bus. That's why having the option to hop into a car is unmatched! And bonus points for not having to feed it any fuel!" - Malo



"I thought downsizing meant our social life would shrink, but booking the shared commons has been a game changer! Now we can still host family gatherings, just with a strict 'no sleepover' policy otherwise we would have the whole village staying!" - Grandma Fiaola

OUR DAILY TIMELINE











<u>7am</u>

The Family enjoy having breakfast together in the morning before the day kicks off.

<u>7:30am</u>

Sina bikes to her job at the High School while the Grandparent's walk the kids to the school bus stop. Malo books a ride share to get to work

3:30pm

Grandma and Grandpa Fiaola meet the kids at the school bus stop and walk home together. The kids go play at the neighbourhood playground which the Grandparents can view through the lounge window.

<u>6:30pm</u>

The Family walk to the social commons area where they are put on a movie for some friends and the

8:30pm

The Family wander home through the shared green space and settle down for



Single Site Scenario Who lives here?



"Tu meke! I feel like I basically know the whole block! It is quite nice having familiar faces around, plus I definitely get some juicy gossip from some of my neighbours!" - Aroha





"Looking out my window and seeing natives growing is so cool. There are even some rākau rongoā (medicinal plants) planted which Mum has been teaching me about!" - Aroha

"I had to read up on how it was possible to harvest and reuse rain and greywater. Mīharo! What a cool initiative! It's like turning leftovers into something with purpose again!" - Aroha





HER DAILY TIMELINE











<u>7:45am</u>

Aroha walks through the shared green space, filled with native plantings, on her way to the bus stop for

4pm

Once home from school, Aroha heads to the shared common space where she helps run a kids club. Today, Aroha has planned some eco-awareness activities for

<u>6pm</u>

She quickly pops down from her family's apartment to grab some butter for her Mum from the local dairy. Luckily, it is located on the ground floor of her

<u>7:30pm</u>

She meets her new local friends in the shared green space where they sit and chat at their favorite picnic

<u>9pm</u>

Aroha quickly does some homework beside her bedroom window, looking over the shared green space.



Single Site Scenario

Meeting key needs







Resilient Place

3_Puna Waiora: Vibrant Local Economies



4_ Oranga Taiao: Nature in Place Healthy People, Communities and



Expressive Place, Character and Identity

PLACE PILLARS



SOCIAL INTERACTION OPPORTUNITIES

Helping out in the community garden, lending a hand at the local library, and just enjoying eating lunch in the shared garden has helped The Turners (retired couple) connect with many of their neighbours within their block.

The Fiaola Family spend a lot of time in the shared exercise area and playground. They love the social commons area, and often host movie nights, so the neighbourhood families can come to relax and mingle alongside! Aroha is on a friendly first-name basis with all her neighbours and the local shopkeepers, as she often sees them as she goes about her day! It helps her feel safe being able to recognise the people around her and be acknowledged.



PLACE CONNECTIONS

The Turners feel like their block is so vibrant and attractive. They know they are home when they wander the block and see beautiful murals that various neighbours have helped to make and artistic sculptures scattered throughout the place.

The Fiaola Family often uses the shared commons to host family gatherings and play music together and dance. Neighbourhood kids usually like to join in to Sasa and Fa'ataupati learn more about the Samoan culture.

Aroha has a deep connection to nature she learnt this from her koro (grandfather) as he loved ngahere (forests). This connection is why she loves that her home is surrounded by native greenery, as it is a reminder of her koro.



SUSTAINABLE PRACTICES

The Turners were intrigued by the energy efficient design of the block and how the block could generate its own renewable energy. They think the new technologies and innovations at home are wonderful. They are yet to feel cold in their home and rarely have to use the heat pump!

The Fiaola Family loves using the small fleet of electric vehicles available to the residents of their block. It means they can run errands and drop kids off at playdates without the car maintenance headaches.

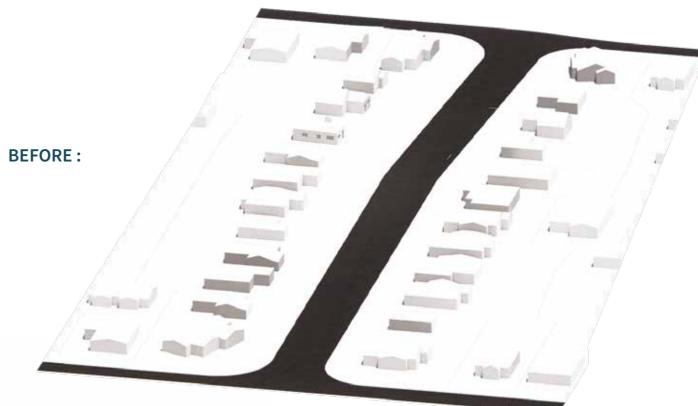
Aroha was excited to learn that her neighbourhood has houses that capture rain and greywater, and that it is then reused in places like the garden, toilet and laundry!



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Neighbourhood / Street Scenario

Redeveloping a local neighbourhood and streetscape



Approximate Site Size: 2ha-5ha









Small mixed-used buildings provide for amenity through the provision of commercial and community land uses and communal open space.





PUBLIC SPACES THAT INTEGRATE STORMWATER MANAGMENT

Integrating stormwater management with public space design helps create a sense of place, benefits well-being, and improves climate resilience.





LOCAL AMENITY **INFRASTRUCTURE**

Including recreational structures, community libraries and street seating helps to ensure the comfort, joy and accessibility of streets and enhances their inclusivity, liveability





ART AND SCULPTURE TRAIL

Integrating an art and sculpture trail into the streetscape provides for local expression and creativity while also contributing to the unique stories and identity of a street or neighbourhood.





BERM PLANTING WITH COMMUNITY GARDENS

Gardens can be created in berm space and can include vegetable beds, wilded planting and food production facilities such as beehives.





CYCLE LANES

AND CYCLE SHARING

Cycleways and cycle sharing and parking infrastructure allow for active transport to be easily used for trips of varying distances and can also provide a fun, recreational social and physical health benefit.





Possible interventions



1_Ngā haerenga: *Journeys of Place*



2_Pito Mata:Resilient Place



3_Puna Waiora: Vibrant Local Economies



4_ Oranga Taiao: *Nature in Place*



5_Kāinga Tipu: *Healthy People and Communities*



6_Pa Taurikura: *Expressive Place, Character and Identity*

- **01_Traffic calming measures**, such as angled slow points and varied paving materials, to protect pedestrians
- **02_Local amenity** in the form of retail, hospitality and other local shops that enables shorter trips and use of active transport
- **03_Design of public transport with local amenity** such as having
 bus stops near community hubs
 to enhance connectivity for
 longer distances
- **04_Planted streets** that make walking and cycling more enjoyable, provide shade and temperature regulation, protect pedestrians from vehicles and encourage safer vehicle speeds
- **05_Cycle lanes** to promote safer transport outcomes and make cycling more attractive to residents and visitors of all ages
- **06_Carpooling and bike sharing facilities** to reduce private
 vehicle use
- 07_Universally accessible design to support equitable access to mobility for all within the streetscape

- 01_Prioritisation of active transportation to reduce carbon emissions
- 02_Electric car charging
- o3_Stormwater management
 through the introduction
 of swales, raingardens and
 detention ponds reduces
 runoff and contamination of
 waterways. Rain tanks enable
 the reuse of water in houses and
 gardens
- **04_Community compost garden**to reduce landfill organic waste
 and increase garden yields
- **05_Energy efficient design** to reduce energy demand
- **06_Neighbourhood electricity generation and storage**including district energy
 systems, shared batteries
 and solar panels, to support
 resilience

- **01_Public spaces designed for markets and events** that provide local commercial opportunities
- **02_Micro amenity** through commerical and mixed land uses that provide employment and economic stimulation
- **03_Dual residential/retail or coworking spaces** to provide an additional income or amenity for residents
- **04_Bookable multi-purpose buildings** nested in
 developments and public
 spaces to encourage residents to
 participate and share in a variety
 of hobbies/activities/events/
 local services

- **01_Retaining existing vegetation**and tree canopies to enhance
 resilience and urban biodiversity
- **02_Water sensitive design**including maximising permeable surfaces to improve stormwater and biodiversity impacts
- **03_Planting that is appropriate to the local context** to maximise indigenous biodiversity benefits and improve the quality of the urban environment
- **04_Ecological networks and habitat corridors** that connect streets, neighbourhoods and cities
- **05_Berm planting with vegetation and community gardens** (e.g.,
 mara kai) and interventions
 such as insect hotels to provide
 amenity in addition to ecological
 value

- 01_Diversity of housing options and typologies to ensure social and cultural diversity, affordability and liveability for residents
- **02_Movement and activity equipment** for residents
 integrated into the streetscape
 to connect with each other and
 enhance their physical health
- **03_Public and common spaces** to provide flexible and temporary areas for collaboration and cultural sharing
- **04_Spaces for neighbourhood art installations**, including
 street sculptures and murals, to
 enhance opportunities for local
 expression

- **01_Urban design** that responds to and complements the surrounding environment, including through material use, landscaping and architectural form
- **02_Enhancing the quality of public spaces** through considered use of building setbacks, street-front glazing, building orientation and minimising fencing through planting
- 03_Preservation of particular street features and native and street trees to enhance existing character
- **04_Varied architectural form** that creates a visually interesting and diverse environment



Examples of sustainable urban design



Benthemplein combines public space with stormwater management: Recreation areas are integrated into a stormwater system so that after heavy rainfall they operate as detention ponds. Flows into these areas also have a sculptural component through water features.



Nightingale 1 is a mixed-used development with apartments above ground floor commercial tenancies. This integrates with a public realm seating area that extends into the streetscape. Also included is a communal roofgarden on the top floor.

The City Life Box was designed to bring plant life into the street scape. The architectural intervention allowed members of the public to either passively or actively engage with planter boxes through sitting and resting or gardening and cultivating the vegetables and flowers.









2_Pito Mata: Resilient Place



3_Puna Waiora: Vibrant Local Economies



Nature in Place



5_Kāinga Tipu: Healthy People, Communities and Place



Expressive Place, Character and Identity

PLACE PILLARS



The retrofitting of a suburban Parisian street with protected cycle lanes creates a hierarchy of movement that enhances the experience of cyclists and pedestrians. This is achieved through reconfiguring a wide roadway with adequate space for cyclists and berm planting for protection from vehicles.



Long Bay is a new suburb on Auckland's North Shore where recreational amenity infrastructure helps to unify elements of the streetscape, such as planting, and destinations of the wider suburb. The Didsbury Art Trail connects Hobonsville Point's vibrant commercial areas with its many parks and providing an opportunity for many local artists to feature and share their work. Pictured is "Tree Cosy", by Alison Milne, which adds an expressive element to a treelined streetscape.



Long Bay (2022) North Shore, Auckland



Aotearoa Placemaking

TE PUNAWAI PAPAKĀINGA, WAINUIOMATA

Mana Whenua Taranaki Whānui ki Te Upoko o Te Ika have led this papakāinga development, which provides for the potential of over 180 units. It shows how a new community can be created through dwelling and street design.



Upgrades to the streetscape make it a safe and welcoming environment for pedestrians.

Journeys of Place



Building systems have been utilised to reduce operating costs and maximise the efficiency of the construction process.

2_Pito Mata:



Māra kai (communal productive gardens) provide a focal point for the community.

4_ Oranga Taiao:



5_Kāinga Tipu: Healthy People,



6_Pa Taurikura: Expressive Place,

A range of different typologies have been provided, including affordable and kaumatua (elder) housing. Development incoporates an existing kohanga reo (kindergarten).

The design of the homes and streetscapes have bespoke features, colour pallettes and design elements that link and connect back to the story of place and to the whakapapa of the family living in the home.





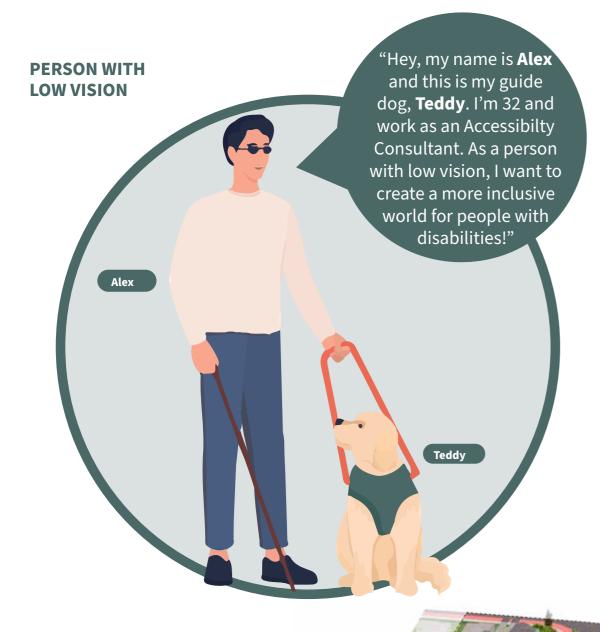








Who lives here?



"I feel like I can be independent on this street. The design means that I can walk on the sidewalk without the worry of getting crashed into and can easily get around my neighbourhood." - Alex





"With my visual impairment, having a transport system I can trust makes all the difference. The bus stop is near my apartment and is well marked, making it easy to get to and use." - Alex

"I swear, I've got the best security in the neighbourhood - my friendly, interested neighbours! It makes me feel so much safer knowing they are around day-to-day and see everything" - Alex



OUR DAILY TIMELINE











<u>6:30am</u>

Alex heads down the lift to the green space around his apartment for Teddy

<u>7:30am</u>

Alex and Teddy walk to the bus stop to commute to work. He uses pedestrian crossings and tactile indicators on the footpath to guide him.

<u>5pm</u>

The bus drops Alex and Teddy A friend picks Alex up and off after work. They head to the local grocer beside the bus stop where they get food

<u>6:30pm</u>

they head to the local pub to join their quiz team for the weekly pub quiz.

8pm

Once home, Alex takes Teddy for a quick walk around the neighbourhood, enjoying the wide paths separated from the cyclists/ scooters and pedestrian crossings.



Who lives here?



"I had a close encounter with a reversing car once, and ever since then, I am on high alert walking down the street. Luckily, my street's got fewer surprise vehicle exits!" - Sarah





"Mum sometimes lets me play on the playground at night because she says it will tire me out before bed. I once played on the playground till 10pm before Mum made me go to bed!" - Emma

"I thought moving away from my wider family would be really challenging as they supported me a lot. However, I am connecting with many other families in the area, and my neighbours have even offered a helping hand with childcare!" -Sarah



OUR DAILY TIMELINE











<u>7:45am</u>

Sarah and Emma jump on their bikes and use the protected cycle lanes to travel to the local primary school, where Sarah drops Emma off for the day.

<u>8:30am</u>

Sarah then bikes home and walks to the local childcare centre on her street where she has picked up some relief work.

2:45pm

Sarah bikes to Emma's school for school pick up. As they bike home, they take notice of the new street art being placed down their street

<u>5:30pm</u>

Sarah and Emma make a picnic dinner which they go eat at a table in the shared space. They make friends with another family who live across the road that have similar aged children and exchange phone numbers.

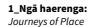
<u>6:30pm</u>

Sarah and Emma have a play around on the public gym equipment along the exercise trail on their street. They then head home to settle down for the night.



Meeting key needs







Resilient Place

3_Puna Waiora: Vibrant Local Economies



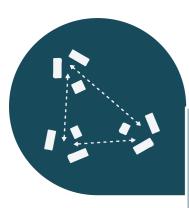
Nature in Place

4_ Oranga Taiao: Healthy People, Communities and



Expressive Place, Character and Identity

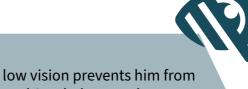
PLACE PILLARS



ACCESSIBLE SPACES

Though Alex has low vision, the street has been built to accommodate his needs. There are level entrances, a lift in his building, tactile indicators at crossings, green space to toilet Teddy, and cyclist free sidewalks. The list goes

Sarah appreciates the spacious sidewalks and fewer vehicle access points intersecting them. She also finds crossing the street easier because the street has traffic calming measures that help dirvers to slow down and prioritise pedestrians.



Alex's low vision prevents him from driving, and Sarah does not have a car, but luckily, shops nearby provide easy access to food, and bus stops connect them to key areas of Wellington.



SENSE OF SAFETY

Sarah likes that there is clear sight to the greenspace as the vegetation is kept low and open fencing is used. She feels like she can easily view out over the area, and similarly appreciates the neighbourly eyes on the street.

Alex's neighbour always keeps him in the loop with updates from the community noticeboard. It's nice knowing his neighbours check-in and think about him.

The streetscape, greenspace and playground are properly lit up at night, meaning the residents feel safe to be outside for a walk around in the evenings.





COMMUNITY ACTIVITY, SUPPORT AND PARTICIPATION

Sarah feels like she has her own personal support network surrounding her. With familiar faces and frequent smiles in her neighbourhood, and her workplace just down the road, she feels very supported.

Alex has taken on a role in tending to the community garden. Through this, he's made numerous connections and some kind souls even offer to take Teddy for a stroll when he wants to relax.

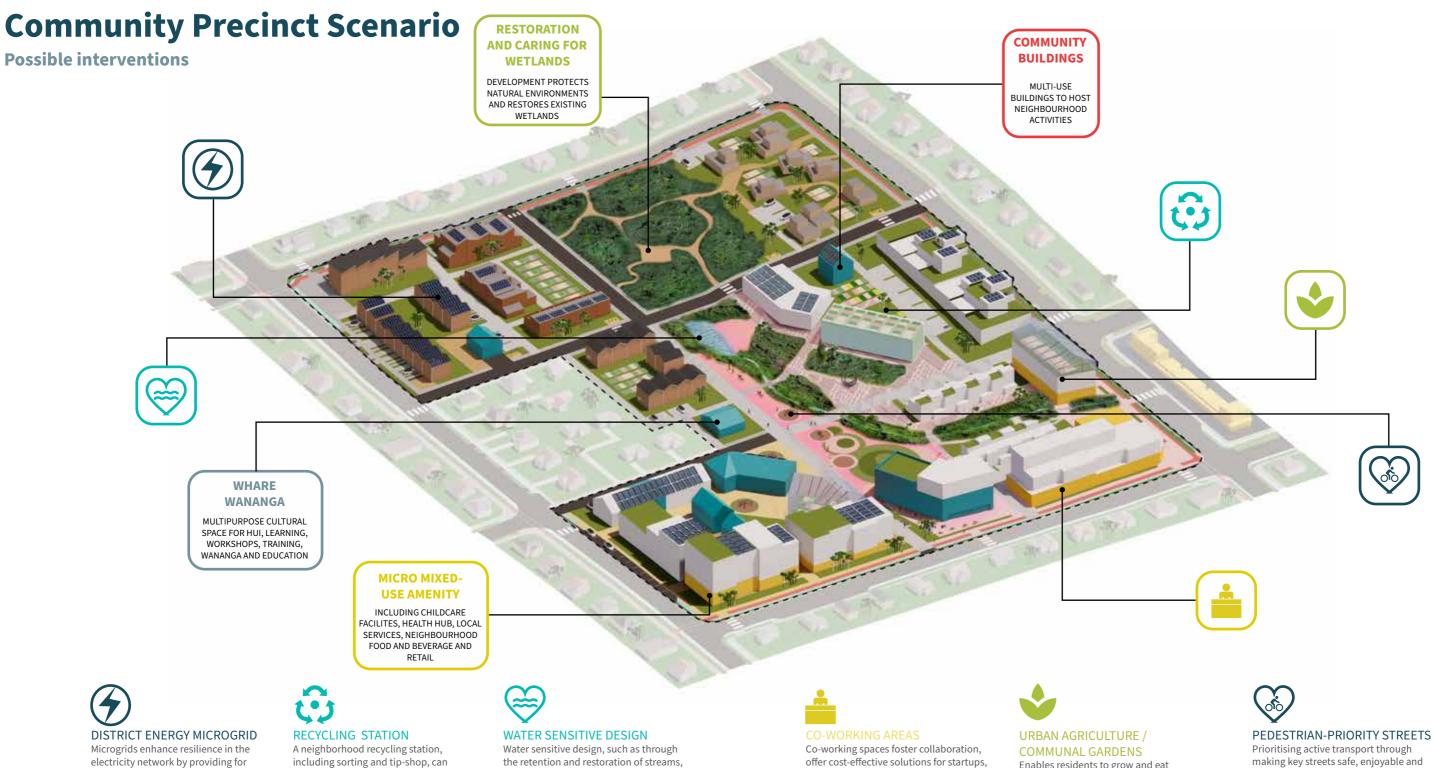


Emma and Sarah love eating dinner in the shared green space. They have made a lot of local friends by doing this.









flexibility in supply, particularly for shared uses such as e-bike and electric car chargers, that mitigate low-lake levels and associated periods of higher demand, reducing the need for generation from fossil fuels and lowering



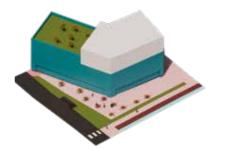
including sorting and tip-shop, can integrate with wider waste-management systems by supporting the efficient management of waste as well as reducing truck movements



ponds, and wetlands, and the creation of swales and raingardens, helps to regulate water flows and increase resilience, in addition to improving indigenous biodiversity and amenity



and create a supportive community. This helps to address the reality of dynamic working locations and embeds workers in the local community.



Enables residents to grow and eat fresh vegetables and fruit, providing opportunities to learn new skills, and connect with others.



efficient for cyclists and pedestrians. This includes the use of planting, cycle lanes, wide footpaths, lighting, retail and hospitality and limiting private vehicle speeds and movement.





Possible interventions



1_Ngā haerenga: *Journeys of Place*



2_Pito Mata:Resilient Place



3_Puna Waiora: *Vibrant Local Economies*



4_ Oranga Taiao: *Nature in Place*



5_Kāinga Tipu:Healthy People and
Communities



6_Pa Taurikura: *Expressive Place, Character and Identity*

- **01_Pedestrian-priority streets**through planting, cycle lanes,
 wide footpaths, lighting, active
 land uses and limiting private
- **02_Compact neighbourhoods** that encourage the use of active transport

vehicle speeds and movement

- **03_Integrating public transport with the public realm**,
 including local amenity and
 public spaces, to enhance
 connectivity for longer distances
 and reduce car dependency
- **04_Connectivity through the neighbourhood** by use of paths
 and parks that allows for active
 transport
- **05_Public bike parking and sharing facilites** that are
 integrated with land uses and
 public transport
- **06_Carpooling and EV rental** to provide transport flexibility and choice for residents
- **07_Universally accessible design**to support equitable access
 to mobility for all within the
 streetscape

- **01_Neighbourhood-level water sensitive design** including
 stream naturalisation and
 restoration and the restoration
 of wetland ecosytems to
 mitigate flood risks
- **02_Prioritisation of active transportation** to reduce carbon emissions
- **03_Neighbourhood-wide stormwater management** to
 be used to reduce runoff and the
 quality of water bodies
- **04_Neighbourhood electricity generation and storage**,
 including district energy
 systems, shared batteries
 and solar panels, to support
 resilience
- **05_Neighbourhood recycling station** that integrates with wider waste-management system
- 06_Electric car charging

- **01_Mixed-use communities,**including small-scale services,
 sustainable retail and food
 supply, to promote local
 commerce and amenity
- **02_Vibrant ground floor uses** to stimulate the local economy, provide local employment and activate the streetscape
- **03_Public spaces designed for markets and events** that
 provide opportunities for
 commercial activities to be
 integrated with public spaces
- **04_Flexible collaboration and coworking spaces** to provide an additional income or amenity for residents

- **01_Retaining existing vegetation**and tree canopies to enhance
 resilience and urban biodiversity
- 02_Restoration of aquatic,
 coastal, wetland and
 riparian ecosystems for their
 biodiversity, cultural and
 spiritual importance through
 site works programmes for
 nature improvements and
 replanting
- 03_Planting that is appropriate to the local context to maximise indigenous biodiversity benefits and improve the quality of the urban environment
- **04_Ecological networks and habitat corridors** that connect streets, neighbourhoods and cities

- **01_Diversity of housing options/ typologies** to foster a vibrant, inclusive neighbourhood
- **02_Public and common spaces** to provide flexible and temporary areas for collaboration and cultural sharing
- **03_Pocket parks** that are vibrant, safe and promote connection between people, including māra hūpara (playgrounds)
- **04_A network of community gardens** for residents to work
 together, provide kai and gain a
 sense of belonging
- **05_Provision of childcare and social services** to improve
 neighbourhood amenity and
 outcomes for families and
 tamariki
- O6_Spaces for art installations, including sculpture walks and a range of public art, including murals, to enhance opportunities for local expression
- **07_Public spaces for exercise**for residents to connect and enhance their physical health

- **01_Urban design** that creates a distinct neighbourhood, including through material use, landscaping and architectural form
- **02_A street and open space network** that creates a sense
 of place through enabling
 connectivity to public spaces
 and privacy to residences
- **03_Vibrant public spaces** through environment and peoplefocused street and plaza design, providing flexible and temporary areas for collaboration and cultural sharing
- **04_Designed landscapes** that help people connect to sites of cultural, historical and natural significance
- **05_Varied architectural form** that creates a visually interesting and diverse environment

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Examples of sustainable urban design



The solar settlement spans 11,000m² with 59 homes and 9 penthouses. With innovative & sustainable living, these energy-efficient residences generate surplus energy. Operating with efficient car-sharing, it annually produces 420,000 kWh of solar power, saving 200,000 litres of oil and 500 tonnes of CO₂.



Västra Hamnen excels in watersensitive design, fostering a sustainable urban landscape.
Utilizing green roofs, permeable surfaces, and vegetation, it efficiently manages stormwater, with canals and ponds purifying rainwater. Well-planned parks act as natural reservoirs, averting floods and nurturing an ecobalanced cityscape.



Todmorden, England

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Todmorden's urban farming
"Incredible Edible" initiative
transformed the town, cultivating
public spaces for growing food.
Residents planted fruits, vegetables,
and herbs, fostering self-sufficiency,
community engagement, and local
food education, rethinking urban
spaces and promoting a more
sustainable community.



1_Ngā haerenga:Journeys of Place

2_Pito Mata:

Resilient Place



3_Puna Waiora:Vibrant Local
Economies



4_ Oranga Taiao: *Nature in Place*



5_Kāinga Tipu: 6_PaHealthy People, Expre
Communities and Chard
Place



PLACE PILLARS

The B:Hive project provides a dynamic co-working space that sparks collaboration, innovation, and cost-effective solutions for businesses. It cultivates a supportive community, reduces isolation, and boosts productivity, making it an ideal hub for professionals seeking an engaging workspace.



B:Hive Co-work Auckland, New Zealand

Iana takata

Mana takata and manaakitaka (a people-centred design focus) has created a streetscape environment that celebrates and tells stories of local community and Mana Whenua. This includes character paving, seating, public art and pou (Te Kāika and Mahika Kai). The civic streetscape encourages play and curiousity, and welcomes people to sit, rest, explore and socialise in place.



Superkilen Park in Copenhagen's Nørrebro district celebrates diversity with an innovative design merging 60+ cultures. It's a hub for socializing, leisure, and cultural appreciation, revitalizing the area, drawing global visitors, sports and showcasing how urban spaces can energize communities while embracing diversity and creativity.





Aotearoa Placemaking

PĀ REO, TE WĀNANGA O RAUKAWA, ŌTAKI

Pā Reo is the new campus for Te Wānanga o Raukawa. Since 1981, the Wānanga has offered education, training and cultural learning with a Māori culture and values lens. Pā Reo is an example of creating a sense of place with a resilient, long-term aspiration for building sustainable community precincts.

> The campus creates a revitalised entranceway and pedestrian paths that connect to Ōtaki Town Centre.

It is designed and built to become a fully certified Living Building, one of only 30 in the world. The design

The project is a a modern wananga environment that supports the efforts of higher learning devoted to the

is resilient to stormwater and flooding.

world of Mātauranga Māori.



1_Ngā haerenga: Journeys of Place



2_Pito Mata:



Vibrant Local



4_ Oranga Taiao:

Rongoā planting, alongside fruiting and other edible species, are planted around the wananga. Existing vegetation was protected and enhanced.



5_Kāinga Tipu: Healthy People, Communities and



Expressive Place,

courts and collective study areas, promote a sense of community for wananga faculty and alumni.

The provision of diverse facilities, such as basketball















Who lives here?



"With all these new apartments sprouting up, business is booming! I might need to expand my staff! Who knows, maybe my next employee will be a new resident!" - Wiremu





"I love having a good yarn at the local fish and chip shop or grocer, though it can be a struggle when I'm in a hurry!" - Matt

"Surprisingly, we've become evening stroll enthusiasts. It's like we're on a mission to uncover the latest street art masterpiece every night. Plus, it's a bonus that we're getting fitter!" - Matt



OUR DAILY TIMELINE



<u>8am</u>

Rather than bussing into town for work, Matt decides to work from the co-working space down the road from their home. He enjoys this space as he can bounce ideas off people from all different

<u>8:30am</u>

Wiremu makes the short walk to his store where he begins opening for the day.

<u>12pm</u>

Matt and Wiremu meet for lunch in the park and sit by the waterway that runs through their block.

6:30pm

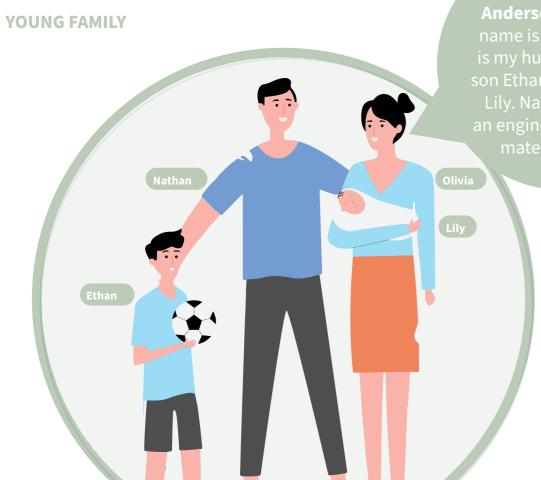
They attend a local farmers market being held at the community centre where Wiremu makes friends with a potential new supplier of honey for his store.

7:30pm

On their walk home from the farmers market, they wander past some of the community artworks, one of which Matt helped create.



Who lives here?



Anderson Family! My name is Oliva, and this is my husband Nathan, son Ethan, and daughter Lily. Nathan works as an engineer and I am on maternity leave."

"I'm all about keeping it local! I love being so close to markets, cafes and small shops. I means I can support the local businesses near me!" - Nathan





"I'm practically a biking ninja now! I've mastered jumping over tree roots in the ngahere like a pro, and sometimes Dad even takes me and my buddies on biking adventures!" - Ethan

"I feel like I used to live in my car, stuck in traffic or wandering the aisles of the grocery store. But now that I can stroll to the local grocer, I'm saving heaps of time, and it's not a big deal if I forget something." - Olivia



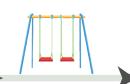
OUR DAILY TIMELINE











<u>7am</u>

Before the kids wake, Olivia heads to yoga hosted at the community

8:30am

Nathan begins his bike to work, and Olivia walks Ethan to school while pushing Lily in the pram.

<u>1pm</u>

Olivia meets the local mother's group at the community centre with Lily. She makes plans with another mother for their families to meet in the local park for a BBQ dinner that night

<u>5:30pm</u>

The Family jump on their bikes and detour through the bushlands not far from their house to get to the local park for their BBQ dinner.

6pm

The Families use the public BBQ facilities under a pavilion to cook while the kids play in the park.



Meeting key needs







Resilient Place

3_Puna Waiora:Vibrant Local
Economies



4_ Oranga Taiao:Nature in Place



5_Kāinga Tipu:Healthy People,
Communities and
Place **6_Pa Taurikura:**Expressive Place,
Character and Identity

PLACE PILLARS



ECONOMIC AND EMPLOYMENT OPPORTUNITIES

As a local business owner, Wiremu has noticed that with the increase in residential population, the daily foot traffic counts are excellent with, customers streaming through his business's door.

On Matt's walk to the co-working space near his home, he notices more shops popping up as more people are beginning to see the value in the local amenity neighbourhood and invest in the growing area.







HEALTH AND FITNESS BENEFITS

Being able to ditch the car and walk and bike places has done wonders for Olivia's state of mind. Who knew a little stroll could make such a big difference to her sense of well-being and life in general?

Being close to the local shops and amenities

has significantly enhanced Olivia's convenience

After their busy days, Matt and Wiremu often feel like a little stroll around their lively neighbourhood, enjoying the vibrant atmosphere and inadvertently steps-per-day up whilst getting fitter.

The Andersons love hopping on their bikes to cruise along the cycle lanes or pedal through the ngahere. It's their favourite way to soak up the fresh air, release energy, and stay in tip-top shape!





PROXIMITY TO AMENITIES

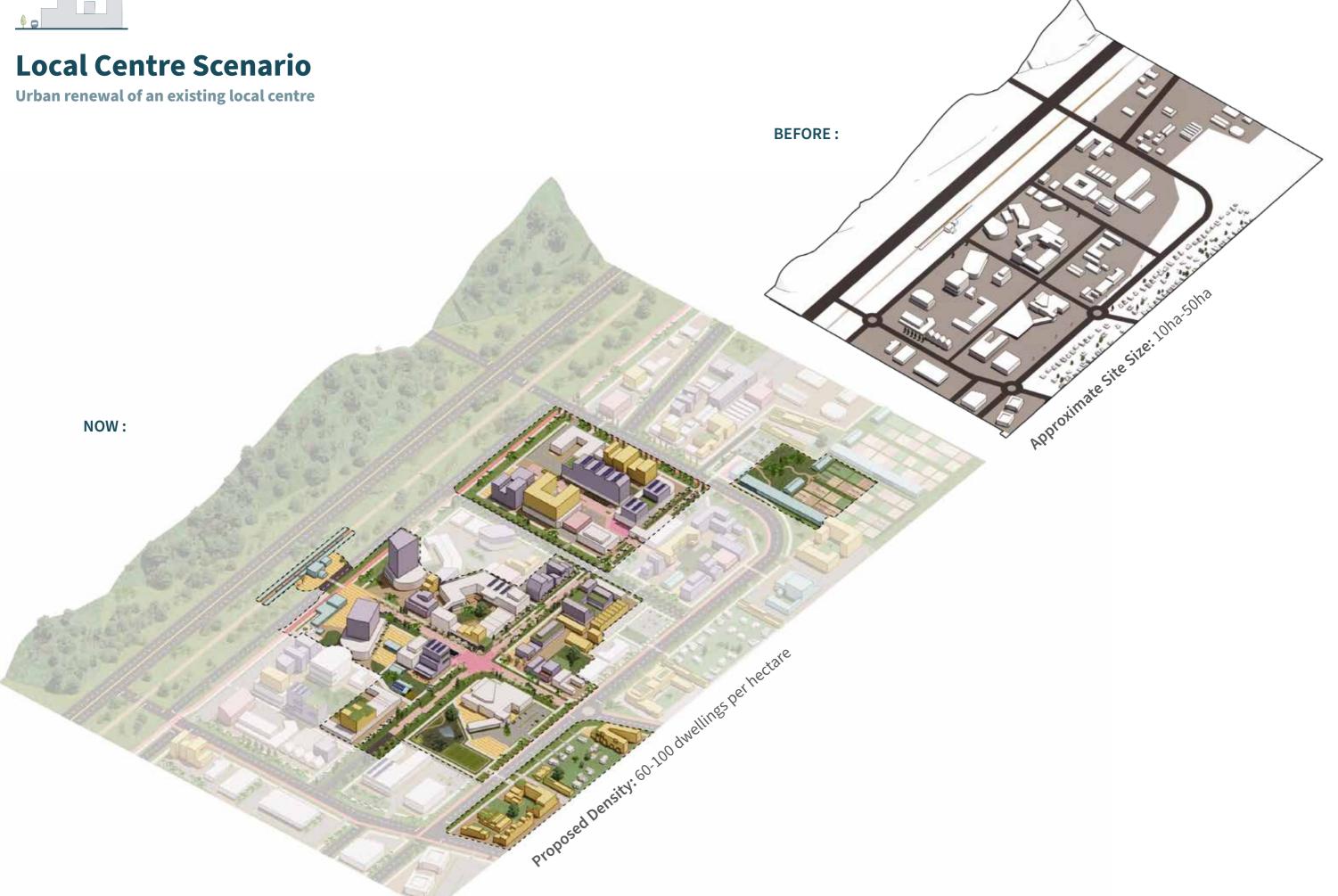
and relaxation in life.

The Andersons, and Matt and Wiremu, find that residing near amenities has helped them cut down on travel expenses. They've also heard that homes near shops are easier to resell.

Going to the local shops often leads to great conversations with Matt's neighbours and the staff, as it seems like everyone gravitates there.









Local Centre Scenario

Perspective views







GREEN STREET/SPINE

URBAN NEIGHBOURHOOD LIFE

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NEIGHBOURHOOD **CHARACTER AND Local Centre Scenario IDENTITY BUILDING LEGEND** EACH BLOCK HAS A SENSE **Possible interventions** OF NEIGHBOURHOOD EXISTING CONNECTED TO QUALITY **RENEWABLE** COMMERCIAL PUBLIC REALM AND OPEN **ADAPTIVE RE-USE** SPACES **ENERGY SOURCES** RESIDENTIAL **AND URBAN RENEWAL** MIXED-USE SOLAR PANELS GENERATE RETROFITTING INTEGRATED MIXED-RENEWABLE ENERGY FOR USE BUILDINGS INTO EXISTING IMMEDIATE NEIGHBOURHOOD URBAN FABRIC ENABLES THE DIVERSIFICATION OF THE LOCAL CENTRE AND THE CREATION OF NEW COMMUNITIES ALONGSIDE IMPROVED BUILDING TECHNOLOGIES **PUBLIC ART AND PLACEMAKING** PUBLIC ART IS A FEATURE OF **URBAN MARAE** THE CENTRE ENCOURAGING CREATIVITY AND INTERACTION. URBAN MARAE BUILT, **NGĀKAU HEART** ART MAY EXPRESS MANA WHENUA REATING PLACES FOR HAPORI PŪRĀKAU [MYTH] AND COMMUNITY **OF PLACE** MĀORI, MANA WHENUA CULTURE AND STORIES ENHANCING AND LOCAL COMMUNITY TO THE CONNECTIONS TO PLACE, EXPRESS CULTURE, PRACTICE **BIOPHILIC** AN URBAN HEART CREATES A FOCAL CHARACTER AND CULTURE OF THE TIKANGA AND GATHER POINT AND CENTRAL CIVIC PUBLIC **DESIGN** TOGETHER REALM AREA TO GATHER AND CELEBRATE LOCAL IDENTITY, PEOPLE REWILDED URBAN AND PLACE STREETS AND ROOF GARDENS AND VERTICAL



MOBILITY HUB

Encouraging a variety of modes of transportation such as public transport and micro-mobility (e-scooters and e-bikes). Integration of active transport, a mix of land uses and the railway station with the hub maximises use. This ensures mobility across short and long-distances without reliance on car ownership.





GARDENS AND GREEN FACADES

COMPACT AND MIX USE NEIGHBOURHOODS

Densification of neighbourhoods with a mix of retail, commercial, office, and residential buildings complemented by a series of plazas, pocket parks and



WATER SENSITIVE STREETS

Include native plantings, tree canopy coverage, swales, rain gardens and permeable materials for stormwater regulation, cooling and biodiversity benefits. Also provides traffic calming and amenity outcomes.





DIVERSITY IN HOUSING

Encourages diversity in neighbourhood culture and allows for more socio-economic inclusion. This provides housing choice, and meets the needs of diverse residents and household types such as professionals, singles, young families, retirees and people with disabilities.





COMMUNITY ALLOTMENTS

Help mitigate the cost of food, provide fresh produce, and contribute to a sense of community. Access to shared facilities that can function as marketplaces also enables markets selling produce and goods.





CULTURAL AND INNOVATION CENTRE

A cultural and innovation centre with parklands adjoining the heart of place provides a social and civic amenity for the wider area and region as well as a key anchor and destination for the local centre.





Local Centre Scenario

AND OUTDOOR AREAS

Phases of urban renewal







2_Pito Mata:

3_Puna Waiora: Resilient Place Vibrant Local Economies



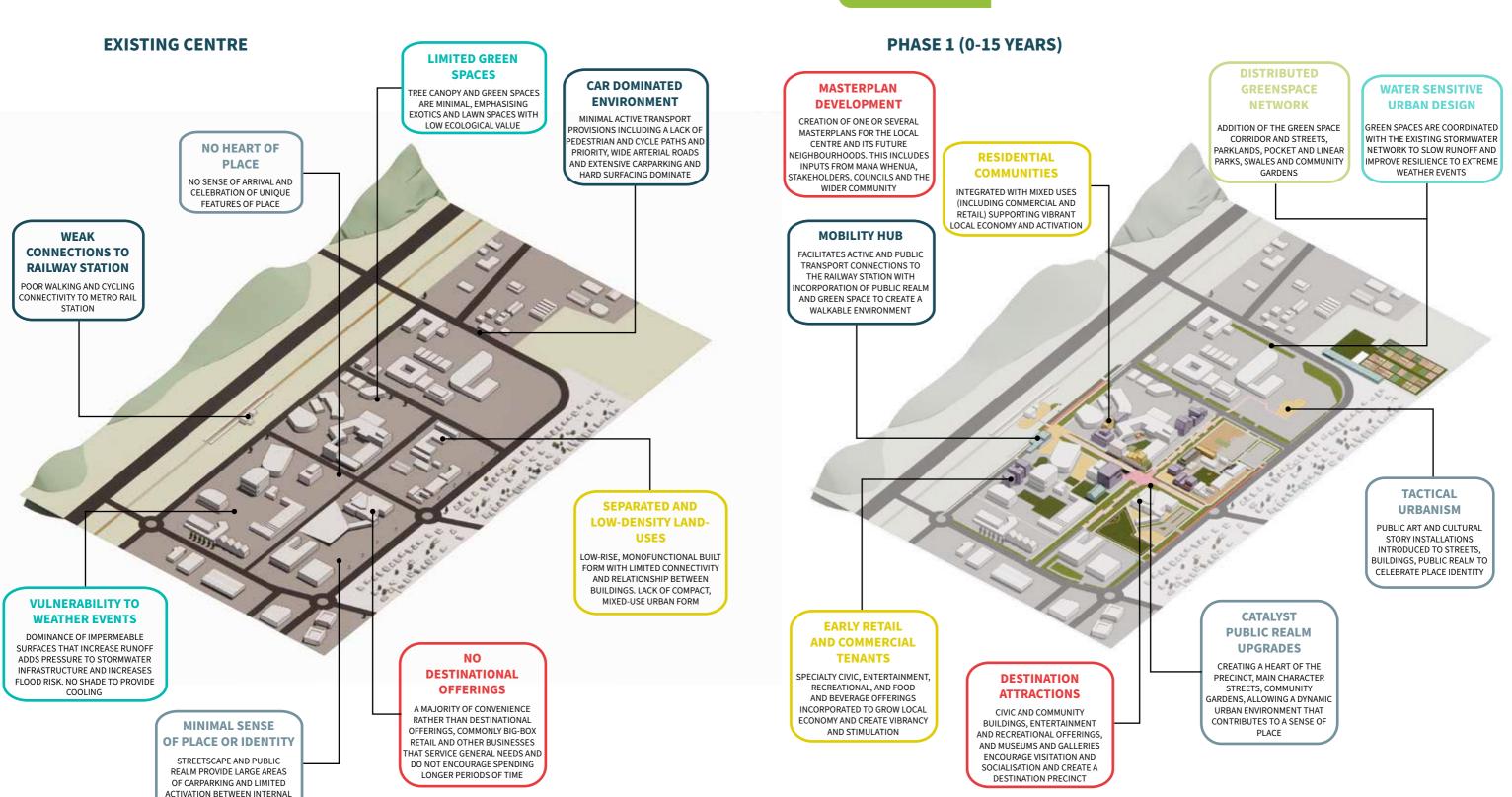
4_ Oranga Taiao: Nature in Place



Place

5_Kāinga Tipu: 6_Pa Taurikura: Healthy People, Expressive Place. Character and Identity

PLACE PILLARS





Phases of urban renewal

PHASE 2 (15-25 YEARS)







2_Pito Mata:Resilient Place



3_Puna Waiora: Vibrant Local Economies



4_ Oranga Taiao: *Nature in Place*



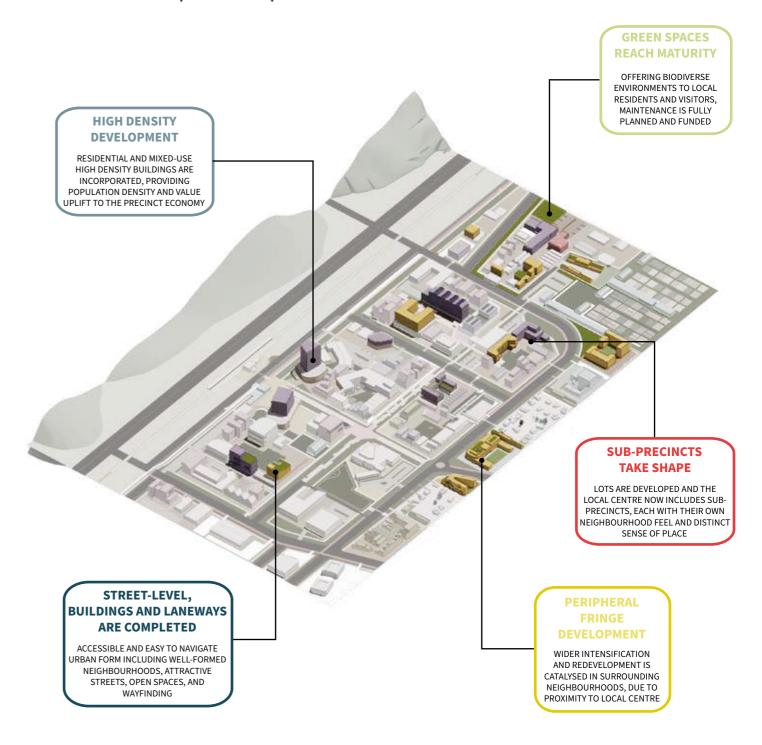
Healthy People,

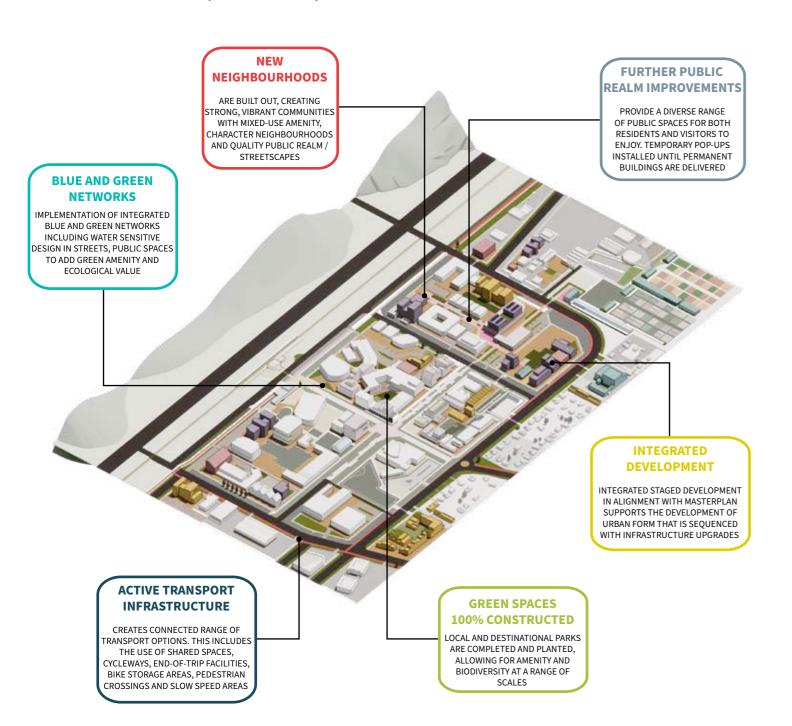
Place

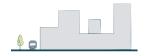
6_Pa Taurikura:Expressive Place,
Character and Identity

PLACE PILLARS

PHASE 3 (25+ YEARS)







Possible interventions



1_Ngā haerenga: Journeys of Place



2_Pito Mata: Resilient Place



3_Puna Waiora: Vibrant Local Economies



4_ Oranga Taiao: Nature in Place



5_Kāinga Tipu: Healthy People, Communities and Place



6_Pa Taurikura: Expressive Place. Character and Identity

- 01_Transit-oriented development to enhance connectivity and reduce car dependency
- 02_Integrated transport facilities and hubs that are coordinated with land uses and provide intermodal connectivity to allow a range of trips to be taken comfortably and easily
- 03 Alignment of movement networks with density and landuses to create connectivity across a compact local centre and through individual neighbourhoods that allow for active transport
- 04_Pedestrian-priority streets through planting, cycle lanes, wide footpaths, lighting, active land uses and limiting private vehicle speeds and movement
- **05_EV rental and bike share** to provide short-term transport flexibility and choice for residents
- 06_Universally accessible design to support equitable access to mobility for all within the streetscape

- 01 Prioritisation of active and public transportation to reduce carbon emissions and congestion
- 02_Catchment-level water sensitive design, including catchment-based approaches to stormwater management and habitat creation to reduce flood risks
- 03_Stormwater management system to be used in larger public spaces and also by individual businesses and households at the neighbourhood level to reduce the environmental impacts of stormwater, protect against flooding, improve water quality in nearby waterbodies, and ease pressure on infrastructure
- 04_Neighbourhood electricity generation and storage, including district energy systems, shared batteries and solar panels, to support resilience

- 01_A mix of land uses across **scales**, including integrating essential amenities into individual communities, with larger elements, such as supermarkets, museums and schools serving the entire local
- 02_Vibrant retail to stimulate the local economy, provide local employment and activate the streetscape
- 03_A range of working spaces, including large offices, light industrial workshops and studios, and smaller collaboration spaces to create a strong economy that reduces commute times
- 04_Local waste facilities including recycling facilties, tip-shops and links with wider waste systems to promote efficient management and reuse of waste

- 01_Retaining existing vegetation and tree canopies to enhance resilience and urban biodiversity
- 02_Planting that is appropriate to the local context to maximise indigenous biodiversity benefits and improve the quality of the urban environment
- 03 Integration of green infrastructure with built form, such as through biophilic design to reduce construction impacts and enhance biodiversity, providing a connection to nature throughout the local centre
- 04_Ecological networks and habitat corridors implemented in streets and parks that connect the local centre to other areas and habitats
- 05 Restoration of aquatic, coastal, wetland and riparian ecosystems for their biodiversity, cultural and spiritual importance through site works programmes for nature improvements and replanting

- 01_Diversity of housing options/ **typologies** to foster a vibrant, inclusive neighbourhood
- 02_Pocket parks and streets that are active, safe and promote connection, including māra hūpara (playgrounds)
- 03_Integration of schools, childcare and social services into the urban fabric to improve neighbourhood amenity and outcomes for families and tamariki
- 04_Spaces for art installations, including sculpture walks and a range of public art, including murals, to enhance opportunities for local expression
- 05 A network of community gardens that provide a range of food and link to community and retail infrastructure, allowing residents to work together, provide kai and gain a sense of belonging
- 06_Public spaces for excercise for residents to connect and enhance their physical health

- 01_A dense and vibrant urban **form** through use of mixed design principles to enhance local choice and support greater interactivity, and urban connectivity
- 02_An interconnected network of public realm areas providing each neighbourhood with its own special public spaces for recreation and gathering
- 03_A day and night place activation scheme to enliven streetscapes and public spaces through eventing, public art installations and tactical urbanism initiatives
- **04_Designed landscapes** that help people connect to sites of cultural, historical and natural significance, as well as provide a sense of place for the local centre
- **05 Varied architectural form that** creates visually interesting and diverse environments providing an identity for the area

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Local Centre Scenario

Examples of sustainable urban design



BuurtHubs (mobility hubs) are facilites where shared electric modes of transport (cycles, scooters or cars) are available to local residents. BuurtHubs have been contributing to reducing car reliance and ownership by offering free alternatives in green transportation.



This project aims to create a vibrant and innovative urban space with diverse businesses and a mixture of community, cultural and recreational spaces. Inclusive of afforable housing and student housing as well as new retail destinations, this project is also aiming to improve connectivity for pedestrians.

Kulturhuset Bergsjön is a cultural facility that includes a library, theatres and a citizens office. The building is embedded with the open space adjacent to the site and the use of green infrastructure contributes to a cohesive whole. The design is designed to be highly accessible

for a diverse population.









2_Pito Mata: Resilient Place



3_Puna Waiora:Vibrant Local
Economies



4_ Oranga Taiao:

Nature in Place

5_Kāinga Tipu: Healthy People, Communities and Place



6_Pa Taurikura:Expressive Place,
Character and Identity

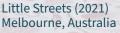
PLACE PILLARS

Putney Vale is managed by hundreds of local residents. These gardens serve the community by encouraging physical activity, providing open space, and bringing a sense of accomplishment in growing your own food. The gardens are popular with a waiting list that can last several years.



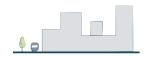
Little Streets project is making Melbourne CBD easier for people to walk, shop and dine through the use of indigenous vegetation. This will play a key role in stormwater management, cultural inclusivity and to create a sense of place with each street having its own design developed by a local company.







Hobsonville Point is a medium-density masterplanned community that includes a range of townhouses, apartments and detached dwellings. These achieve a high urban quality due to a wide range of architectural expression within distinct guidelines. A mix of tenures are also accounted for.



Who lives here?

STUDENT FLAT

Aria, and Sophie. We are all university students with busy schedules, juggling part-time jobs and our social lives."

"Hey, I'm Jake, and these are my flatmates Raj,

"Compared to our friends' stories of flatting, we feel incredibly fortunate with our centrally located, modern townhouse. It's warm and lowmaintenance, but we are also aware we are living closer to others and consider this." - Raj





"With our chaotic schedules and mismatched destinations, having reliable transport options was essential. So having the mobility hub nearby is perfect!" - Jake

"Living in a diverse neighbourhood is a blast! We're practically honorary members of another student flat down the road, and our neighbours even bring over biscuits sometimes." -Sophie



OUR DAILY TIMELINE











<u>6am</u>

Sophie walks down to the local café where she begins her morning shift before her university classes start.

<u>8am</u>

The other flatmates begin to wake up, prepare breakfast, and get ready for the day. Raj heads out for a run around the city.

1pm

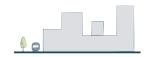
Jake, Raj and Aria walk to the nearby mobility hub where they each head their separate ways. Aria hires an e-scooter and scooters to work, while Jake and Raj catch a bus to niversity.

4pm

After the flat's busy days, Raj takes over the kitchen and cooks a delicious dinner for everyone. He uses vegetablés picked from the nearby community garden to help lower costs.

8pm

While Raj and Sophie begin to wind down for the night, Aria and Jake walk back to the mobility hub, where they catch a bus into town. Jake heads to a pub to perform with his band, and Aria heads to a friends to finish an assignment due the next day.



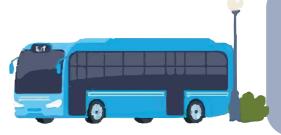
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Local Centre Scenario



"I was surprised to find it easy to sleep during the day in such a built-up area. However, when the kids turn the playground into a concert venue, my dreams have a very urban soundtrack. All part of the fun." - Emily





"I used to dread hopping behind the wheel after a hectic shift. Now, I just kick back on the train or bus and begin to unwind with my music." - Emily

"I never thought I'd be the proud owner of my own little studio apartment! Sure, it's snug, but it's the perfect fit for my lifestyle!" -Emily



HER DAILY TIMELINE











<u>4pm</u>

Emily wakes up after a night shift. She has one more night shift before her days off, which makes her excited.

<u>6pm</u>

Before work, Emily meets a friend for dinner at a local restaurant that she met in her apartment block.

<u>9pm</u>

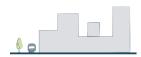
Emily goes to the mobility hub and catches a bus to the hospital.

<u>6:30am</u>

Emily travels home on the bus after a hectic shift. She feels exhausted.

7am

She walks from the bus stop to home as birds chirp and the sun rises. She stops at the local cafe and grabs a snack before bed.



Meeting key needs



1_Ngā haerenga:Journeys of Place



2_Pito Mata: 3_Puna Waiora:
Resilient Place Vibrant Local
Economies



4_ Oranga Taiao: *Nature in Place*

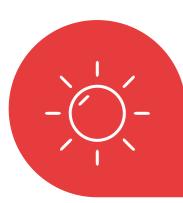


Healthy People,

Communities and

6_Pa Taurikura:Expressive Place,
Character and Identity

PLACE PILLARS



COMFORTABLE LIFESTYLE

The Flat adores their cozy, innovative, modern abode. They appreciate its design style and the orientation for ample sunlight, which keeps the home warm and slashes their heating bills.

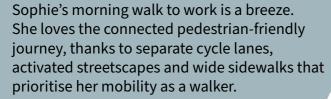
The Flat and Emily enjoy not having too much extra to manage on the domestic front, not having a yard to maintain. It gives them more time for the things they enjoy.



With Emily working shift work, she appreciates the well-lit streets when arriving at night, as well as the triple glazing and soundproofing her modern home offers her when she needs to sleep during the day.



MOBILITY CONVENIENCE



The Flat and Emily adore living near the mobility hub. With access to buses, trains, e-scooters, e-bikes, and electric cars, they have endless transport options to go wherever they please!

The Flat always has a blast e-biking into town for a fun night. They're grateful for the dedicated cycling lanes that make their journey smoother and safer.



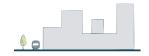
DIVERSITY IN HOUSING TYPES

Having a wide range of housing types and sizes in the area has allowed Emily to buy her own little studio apartment! And later on if she wants to stay in the centre she knows she can find something for her next phase of life too. She loves being a homeowner.

The Flat was taken aback to discover a spacious terraced house to accommodate them all! They had doubted townhouses would have big enough bedrooms but were pleasantly surprised with the design layouts.

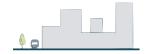


Emily and the Flat have a diverse mix of neighbours thanks to the variety of housing types available, creating a vibrant community.



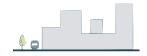
Mixed-use laneway





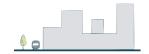
Urban neighbourhood life





Urban agriculture





Green street / spine





3.0 A vision of our future region

The section provides inspiring examples of what can be achieved in terms of sustainable placemaking at a range of scales. These case studies are both international and local and exemplify compact, mixed-use urban places, connected and responsive to natural environments.

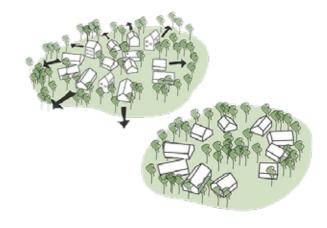
The case studies are at different scales (rural, suburban, local centre and urban centre) and have local place references for us to envision what these could look like if situated in the Wellington Region. The relationship between these different scales of urban form are shown in the drawing below.





Rural

Natural, agricultural and productive landscapes and communities.























Our rural environments are where food and fibre are produced, but they also provide urbandwellers with opportunities to experience nature in scenic reserves and regional parks as well as other outdoor activities. Their rural characteristics often mean they are places of strong community and local identity.









ŌTAKI

FEATHERSTON

MARTINBOROUGH

Helsinge Garden City

LocationAreaYearStatusHelsinge - Denmark65 ha2016-presentIn progress



The Helsinge Garden City project is an ambitious and innovative urban development initiative that seeks to create a model of sustainable, livable, and community-oriented urban living. Located in the picturesque region of Helsinge,

Denmark, this project represents a bold step towards reimagining urban planning and design with a focus on environmental sustainability, quality of life, and social cohesion.



Sustainable design

The project places a strong emphasis on sustainable design principles. It incorporates green building practices, renewable energy sources, and eco-friendly infrastructure. A central focus is to reduce the carbon footprint of the city through smart urban planning.

Green spaces

One of the standout features of the Helsinge Garden City is its abundance of green spaces. The city is designed to seamlessly integrate parks, gardens, and natural areas into its layout. This not only provides residents with access to recreational spaces but also helps maintain a healthy urban

ecosystem.

Mixed land uses

The city is designed to promote mixed land uses, with residential areas, commercial spaces, and cultural hubs



coexisting in harmony. This design encourages a vibrant and walkable urban environment, reducing the need for excessive car use and promoting a sense of community.

Accessibility

The Helsinge Garden City project prioritizes accessibility for all residents. There are well-planned public transportation networks, bicycle lanes, and pedestrian-friendly streets. This promotes an inclusive and equitable urban environment.

Community engagement

The project emphasizes community engagement in its planning and development. Residents are actively involved in decision-making processes, ensuring that the city meets their needs and preferences.

Smart technology

The Helsinge Garden City integrates smart technology to improve efficiency and enhance the quality of life for its residents. This includes smart energy management, waste disposal, and transportation systems.

Cultural and recreational facilities

The city boasts a range of cultural and recreational facilities, including theaters, art galleries, sports complexes, and community centers. These amenities contribute to a rich cultural life and promote wellbeing among the residents.

Affordable housing

The project includes a variety of housing options





to accommodate different income levels, ensuring that the city remains inclusive and economically diverse.

Education and healthcare

Educational institutions and healthcare facilities are integrated into the urban fabric, making it convenient for residents to access quality services.

Natural integration

The Helsinge Garden City





project is mindful of its natural surroundings, preserving and enhancing the existing ecosystem. It embraces the beauty of the region and ensures minimal disruption to the environment.

The Helsinge Garden City project sets a remarkable example of how urban planning can be approached with a holistic and sustainable mindset. Its commitment to green spaces, community engagement, and sustainable living makes it a model for future urban developments, demonstrating that it's possible to create cities that are not only functional but also harmonious with the environment and designed for the well-being of their residents.

Kereva Living Lab and Neighbourhood

LocationAreaYearStatusKerava - Finland80 ha2019 - 2024Complete

Switzer Friend

The City of Kerava requested the design of an urban framework and circularity toolkit. Their vision was to turn an overlooked 80-hectare area into a lively neighborhood, an exhibition

hub, and a dynamic Living Lab, all in one.

This space will initially undergo a remarkable transformation as the venue for the 2024 annual Housing Fair, a prestigious national event that showcases the latest groundbreaking concepts, designs, and advancements in the housing sector. Subsequent to the Housing Fair, this area will

evolve into a thriving community for around 2,000 residents, pioneering a neighborhood dedicated to the continuous exploration, testing, and implementation of circular economy principles.

From greenfield to a Living Lab

Nestled between an eastern motorway and a western railway, the original site showcases a







picturesque blend of farmland, a flourishing forest, and the meandering Keravanjoki River. Drawing inspiration from these natural treasures, it proposes three distinctive spatial visions for the masterplan: a serene forested living experience, an embrace of rural farm life, and the nurturing of communal living within clustered neighborhoods.

In the northern region, reforestation of greenfields has been undertaken, forging a truly unique setting where sustainable apartments, detached homes, and townhouses could thrive. At the heart of the site, the



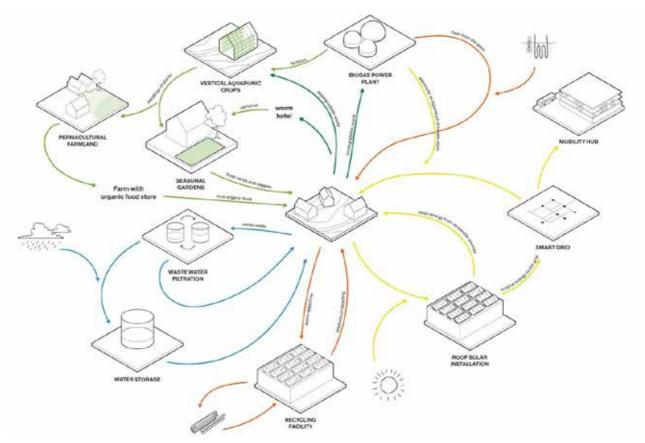
central section transformed into a fertile canvas for dwellings, greenhouses, lively food markets, and essential childcare facilities. The southernmost area underwent a remarkable transformation into a collection of neighborhood clusters, each sharing vibrant playgrounds, tranquil gardens, and welcoming communal spaces.

Each of these districts boasts generous open spaces where Living Lab experiments and pilot projects focused on the circular economy can take root and flourish. Meandering pedestrian and cycling paths



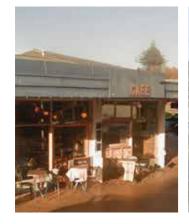
seamlessly interconnect these homes, facilities, and the vibrant community they encompass.

In addition to the urban framework, a comprehensive circular economy toolbox was provided, equipping the City of Kerava with the necessary resources to ensure the neighborhood authentically embodies circular principles. Beyond the Housing Fair, the central park will evolve into a recreational sanctuary for the entire city to enjoy and cherish.



Suburban

Living in residential neighbourhoods, is so much more than just houses.















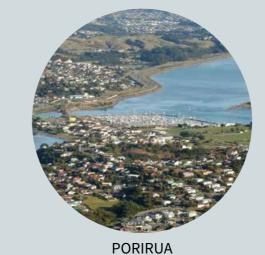






Suburban neighbourhoods are what make up most of Aotearoa's urban fabric, consisting largely of residential streets with dwellings ranging from detached homes to terraced homes/ townhouse and apartments. These places have the opportunity to be enhanced with better urban design that produces more mixed amenity, higher quality green spaces, and an improved public realm for cultural and social activities.









UPPER HUTT

Toiora Co-housing

LocationAreaYearStatusDunedin - New Zealand5,000 m²2019 - 2021Complete



standard homes, from one to five bedrooms, and their own private outdoor area. Part of the former school buildings has also been modified to accommodate a large communal community centre with a dining area, offices and meeting rooms.

The buildings are in a L shape distribution that shelters a large common garden and acts as a barrier for the main streets. A benefit of designing and building row houses is thermal efficiency, with reduced heat loss due to the shared walls.

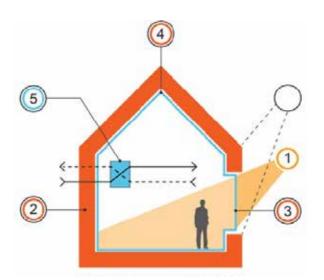
The group of owners known as Toiora High Street CoHousing Community purchased a 5,000 m² site that was the former High Street Primary School in November 2018.

This project is New Zealand's first certified passive house cohousing development. With 21 certified Passive House "Classic"









Passive House principles

- (1) Solar orientation
- (2) High insulation
- (3) High performance windows
- (4) Air tight enclosure
- (5) Balanced ventilation with heat recovery



Communal veggie garden

- Enviromental cleanup
- Fresh nutritious food
- Food security
- Social health & community cohesion
- Community meeting & event space
- Neighborhood beautification & community pride
- Anxiety & stress reduction
- Physical health improvement
- Environmental awareness
- Learning opportunities
- Inter-generational collaboration



Bicycle storage

- Increased sense of safety
- Protection from weather conditions



EV chargers

- Convenience of charging
- Increased property value
- Cost savings
- Future-proofing
- Community building
- **Environmental benefits**

Beekkwartier Sustainable Neighbourhood

Location Year Status

Roosendaal, Netherlands

2019 - Ongoing

Under Construction



Beekkwartier is a sustainable neighbourhood that connects over 100 homes to a new ecological district in Roosendaal.

The neighbourhood design reinforces social inclusion through green pathways that unite the neighbourhood's three blocks and allows the residents to enjoy nature.
With diverse housing typologies,

the blocks can accommodate a wide range of people. The residents can choose their living condition: in a bustling city-like block closer to the city centre, or private and quiet areas closer to the new park.

Deliberate distinctions emerge between open and enclosed environments, tall and low structures, arid and aquatic regions. Simultaneously, expansive, porous surfaces designed for water retention seamlessly unite these discrete zones, both in appearance and physical connection. Furthermore, vegetated elements are included in public spaces, squares, gardens, and communal courtyards.

The Court block, located nearest to the city, exudes an unmistakably urban vibe. It comprises multiple apartment buildings arranged around a sizable courtyard and a communal area. Moving on to the garden block, this serves as an intermediary zone that seamlessly connects groundlevel residences via a shared garden. This particular block is distinguished by a spacious communal deck, which serves as a hub for residents to come together. Lastly, the Park block takes on a more traditional character, consisting of separate family homes, each with its private entrance and immediate outdoor area.





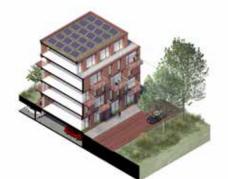


Sustainable principles









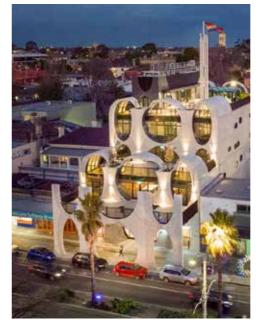
Local Centre

Mixed-density communities

















Local Centres are the places that serve our suburbs and offer secondary centres to the main centres of business, employment and commerce. Our Local Centres can be vibrant, mixed-use places that also include residential living. It is important to consider the advantages of densifying Neighbourhood Centres to accomodate more living units, and subsequently activate our local centres throughout both the day and night.









PARAPARAUMU



LOWER HUTT

Nærheden Sustainable Community

LocationAreaYearStatusCopenhagen - Denmark63 ha2019 - OngoingUnder Construction



The Nærheden project in Denmark is a notable and innovative urban development initiative. Located in the town of Hedehusene, just 20 kilometers west of Copenhagen, Nærheden represents a remarkable example of how modern urban developments can prioritize sustainability community, and quality of life.

Location and background

Nærheden is strategically located in the Greater Copenhagen area, one of Denmark's most vibrant regions. The project was conceived to address the growing demand for housing in the region, driven by the city's economic and cultural vitality. The





location is also advantageous due to its proximity to public transportation, major highways, and the natural beauty of the surrounding countryside.

Sustainable design

Sustainability is at the heart of the Nærheden project. The development features an array of eco-friendly design elements, including energy-efficient buildings, green infrastructure, and renewable energy sources. Its buildings are constructed using sustainable materials, and advanced energy-saving technologies are incorporated to reduce the ecological footprint of the community.

106



Diversity of housing

Nærheden offers a wide range of housing options, catering to various lifestyles and demographics. The housing options include apartments, townhouses, and single-family homes. This diversity allows for a mix of residents, fostering a sense of inclusivity and community.

Innovative architecture

Architectural innovation is another standout feature of the Nærheden project. The development showcases modern Scandinavian design principles, blending functionality with aesthetics. The buildings are aesthetically pleasing and designed with a focus on space utilization, making them both comfortable and efficient.

Community and social interaction

Nærheden prioritizes community and social interaction in its design. The layout promotes walkability and cycling, reducing the dependence on cars. The presence of communal spaces, parks, and recreational areas encourages residents to interact and engage with one another, fostering a strong sense of community.

Sustainable mobility

The project emphasizes sustainable transportation. It is well-connected to public transportation networks, making it easy for residents to commute to Copenhagen or other nearby areas. Additionally, cycling and pedestrian paths are integrated into the community, further



reducing the need for cars and promoting a healthier lifestyle.

Cultural and educational amenities

Nærheden offers cultural and educational amenities that enrich the lives of its residents. These include schools, daycare centers, and community centers. These facilities not only provide essential services but also contribute to the sense of community and belonging.

Global influence

The Nærheden project has garnered international attention as a model for sustainable urban development. It serves as an inspiring example of how to create communities that prioritize ecological responsibility and resident well-being. The project demonstrates that it is possible

to build vibrant, modern, and sustainable urban communities that enhance the quality of life for residents while minimising their environmental impact.





Västra Hamnen Bo01 Living Community

LocationAreaYearStatusMalmö - Sweden25 ha2001Complete



The Västra Hamnen masterplan in Malmö is a prime example of innovative urban development and sustainable urban living. Located in the city of Malmö, Sweden, Västra Hamnen, which translates to "Western Harbor", has become a symbol of urban

transformation and a model for environmentally conscious and socially inclusive city planning. The masterplan was conceived as a response to the changing demands of urban living and the need to reduce the ecological footprint of urban areas.







Key features of the Västra Hamnen masterplan include:

Sustainability

At the heart of the Västra
Hamnen masterplan is a
commitment to sustainability.
The entire development was
designed with a focus on
reducing environmental impact.
This includes energy-efficient
buildings, renewable energy
sources, and an extensive
public transportation network.
The district also integrates
sustainable water management

systems and green spaces, contributing to a healthier and more environmentally conscious urban environment. The neighborhood incorporates green building practices, energy-efficient technologies, and a focus on reducing the carbon footprint of its residents.

Mixed-use development

Västra Hamnen is a true mixeduse urban area, featuring a blend of residential, commercial, and recreational spaces. This mix of functions encourages a diverse and vibrant community, where residents can live, work, and play within the same neighborhood. This approach fosters a sense of belonging and reduces the need for long commutes.

Innovative architecture

Västra Hamnen is known for its modern and innovative architecture. The most iconic structure in the district is the Turning Torso, designed by the renowned architect Santiago Calatrava. This twisting skyscraper is not only a symbol of the area but also a testament to the innovative design principles that underpin the development.

Waterfront living

Situated along the coast of the Öresund strait, Västra Hamnen offers residents the unique opportunity to live by the water. The area features a beautiful seaside promenade and recreational areas that make it a popular destination for both residents and visitors.

Accessibility

The Västra Hamnen masterplan prioritizes accessibility. The development is well-connected to the rest of Malmö through efficient public transportation, pedestrian-friendly pathways, and cycling routes. This emphasis on sustainable mobility contributes to a reduction in car dependency.

Social inclusion

The Västra Hamnen development promotes social inclusion by providing a range of housing options, from affordable





apartments to high-end condominiums. This diversity encourages a socioeconomically mixed community, fostering a sense of togetherness and reducing social segregation.





Urban Centre















Urban Centres are the epitome of the hustle and bustle of city-living. Designed well, urban centres can provide vibrancy and dynamism. They offer a multiplicity of exchange and experience. Urban character is achieved through creating a walkable, compact environment where there is diverse architectural quality and spaces for people from all walks of life.

FOSTERING ACCESS OVER OWNERSHIP









CENTRAL WELLINGTON

Vallastaden

Location

Area TBA m² Year 2019 - 2022 Status Complete

Linkoping - Sweden

Foreign

Foreign

Foreign

Foreign

Laftin

Compliant

The Vallastaden project in Linköping, Sweden, is a remarkable and innovative urban development initiative that has garnered international attention for its forward-thinking approach to housing and urban planning. This project represents

a prime example of how modern cities are reimagining urban living to address the changing needs and aspirations of their residents.



Location and background

Vallastaden is situated on the eastern outskirts of Linköping, a thriving and dynamic city in the heart of Sweden. The project was conceived as a response to the city's rapid growth and the need for more housing. Linköping is known for its strong economy, thriving tech industry, and vibrant cultural scene, making it an attractive place for people to live and work.

Sustainable design

One of the most striking aspects of the Vallastaden project is its focus on sustainability. The architects and planners aimed to create a sustainable, eco-friendly community from the ground up. The development features energy-efficient buildings, green spaces, and pedestrian-friendly streets. Each house is designed with sustainable materials and energy-efficient systems, contributing to reduced





energy consumption and lower environmental impact.

Diversity of housing

Vallastaden stands out for its diverse range of housing options. Rather than following a one-size-fits-all approach, the project offers a mix of housing types, including apartments, townhouses, and single-family homes. This diversity accommodates a wide range of demographics, from young professionals and families to retirees, promoting a sense of inclusivity and community.

Innovative architecture

The architecture of Vallastaden is both contemporary and innovative. The project invited various architects to design unique and eye-catching structures. As a result, each building is distinct in its design, creating a visually stimulating environment that showcases modern Swedish architectural prowess.

Community and social interaction

Vallastaden prioritizes community and social interaction, which is reflected in its design. The layout promotes walking and cycling, reducing the need for cars. The presence of public squares, parks, and communal areas encourages residents to interact and build a sense of belonging. This focus on community contributes to a higher quality of life for Vallastaden's residents.

Flexibility and social interaction

The Vallastaden project is designed to be flexible and adaptable. As societal needs and demographics change, the housing units can be modified

to accommodate evolving requirements. This adaptability is key to ensuring the long-term viability and relevance of the development.

Cultural significance

Vallastaden has not only garnered attention for its urban planning and design but also for the cultural events and festivals it hosts. It has become a cultural hub for Linköping, with regular art exhibitions, performances, and other events that enrich the lives of its residents.

Global influence

The Vallastaden project has drawn the interest of urban planners and developers worldwide. It serves as a model for sustainable, community-focused urban development, inspiring similar projects in other countries.





The Urban Village Project - SPACE10

Location Copenhagen - Denmark

2015-2023

Status Complete



Space10 is an innovative and forward-thinking project, it is not a single, specific project but rather a unique initiative by IKEA's innovation lab. Space10 is designed to explore and develop ideas, concepts, and solutions to address some of the world's

most pressing challenges, particularly those related to urban living, sustainability, and the future of our cities.

Here's an overview of Space10 and its objectives:





Origin and purpose

Space10 was established in 2015 by IKEA in Copenhagen, Denmark, as an external innovation lab. The lab operates independently and is tasked with exploring emerging trends, technologies, and



ideas to anticipate and tackle future challenges related to urbanisation and sustainability.

Research and prototyping

Space10 focuses on conducting research and prototyping innovative solutions. They often collaborate with experts, researchers, designers, and creative thinkers to develop concepts that address urban living, such as smart cities, sustainable architecture, and the future of food.

Collaboration

Collaboration is at the heart of Space 10's approach. They work with a wide range of partners, including universities, startups, and non-profit organizations, to create a diverse and dynamic network of innovators.

Areas of exploration

Some of the key areas of exploration within Space10 include sustainable architecture, urban farming, renewable energy, and more. They have created prototypes for everything from modular urban farming systems to sustainable housing concepts.



Space10 actively engages with the public through exhibitions, workshops, talks, and opensource projects. This outreach is aimed at fostering dialogue and involving a broader community in discussing and developing innovative solutions.

Publications

Space 10 has produced a range of publications, including reports and cookbooks, to share their findings and insights with a global audience. These publications often provide valuable information and inspiration for those interested in sustainable living and urban development.

Sustainable living labs

The lab often creates "living labs" to test and showcase their concepts. These labs are physical spaces where they can experiment with their ideas and gather feedback from the community.









4.0 Further urban design and related guidance

Residential communities

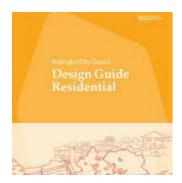


National medium density design guide Ngā tohutohu hoahoa ā-motu mō te wharenoho mātoru-waenga

Ministry for the Environment 2022

This guide is targeted at the design and development of medium-density housing in Aotearoa New Zealand, particularly small-scale property owners or those with limited experience in more complex residential developments. It is a useful document for understanding how development could progress under the Medium Density Residential Standards, a component of the National Policy Statement on Urban Development.

https://environment.govt.nz/assets/publications/ national-medium-density-guide.pdf



Residential Design Guide

Wellington City Council 2022 The intent of the Residential Design Guide is to facilitate new residential development that is well-designed and contributes to a well-functioning urban environment. It is aimed primarily at developers and professionals, with technical contents that speaks to district plan requirements. In particular, it is used by Wellington City Council in assessing development proposals.

https://docs.isoplan.co.nz/figures/ wellingtonProposed/1216/Residential%20 Design%20Guide.pdf



Medium

EBOSS and Guy Marriage 2022

This book and online resource is a source of technical and background information for developers and professionals in New Zealand. It includes detailed guidance for designing and building medium density housing, with a particular focus on the desired architectural outcomes. It also provides analysis of the challenges facing medium density housing in New Zealand and four local case studies.

https://www.mediumdensity.nz/



Transport, streets and urban form



Aotearoa urban street planning and design guide

New Zealand Transport Agency 2022 (created) 2024 (amended) This guide sets out the policy context and criteria for planning, designing and evaluating streets for the New Zealand Transport Agency. It is a practical tool to support good outcomes by linking high-level spatial planning and network planning, with planning and design for street space in urban centres and neighbourhoods.

https://www.nzta.govt.nz/about-us/about-nz-transport-agency-waka-kotahi/environmental-and-social-responsibility/urban-street-guide/



People, Places and Movement – an integrated public transport and urban form design guide

New Zealand Transport Agency 2024 (anticipated)

This soon-to-be-released guide will focus on creating safe, attractive, and accessible urban spaces and places that enable walking, cycling, and shared modes around key public transport hubs. It will help planners, designers, engineers, and architects integrate public transport and urban form to provide better travel options, improve safety, and support lower carbon emissions as our towns and cities grow.

https://www.nzta.govt.nz/roads-and-rail/urban-design-guidance/people-places-and-movement-an-integrated-public-transport-and-urban-form-design-guide-draft/

Water sensitive design



Practising integrated urban and water planning: framework and principles

Cooperative Research Centre for Water Sensitive Cities Aimed at Australian cities, this framework highlights five key activities for integrating urban and water planning, illustrated with case examples. The framework seeks to guide practitioners, particularly those involved in urban development or water services, in designing collaborative, context-sensitive and integrated approaches to urban and water planning. This includes underlying planning and participation processes as well as specific design outcomes.

https://watersensitivecities.org.au/content/ practising-integrated-urban-and-water-planningframework-and-principles/



Water Sensitive Design for Stormwater: Treatment Device Design Guideline

Wellington Water 2019

This guideline communicates Wellington Water's requirements for the design of stormwater treatment devices. This comprises technical information relating to the optimal water sensitive design outcomes, from concept to detailed design. This is applied in a range of contexts, including constructed wetland elements, swales, bioretention systems and permeable (porous) paving.

https://www.wellingtonwater.co.nz/assets/ WSD-for-Stormwater-Treatment-Device-Design-Guideline-December-2019.pdf

