

Finding happiness through architecture

An investigation into architecture's opportunities for fostering happiness in a culturally diverse mid-sized city in Aotearoa, New Zealand.

A thesis submitted to the Victoria University of Wellington in partial fulfilment of the requirements for the degree of Master of Architecture (Professional).
Te Herenga Waka - Victoria University of Wellington

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I would like to thank my supervisor, Jacqueline, for your guidance, wisdom and for pushing me to learn more about who I want to be as an architectural designer.

Thank you to my family. Finlay, for your endless support throughout my studies and for always filling weekends with plenty of joy. Pappa and Mamma, for giving me the most amazing travel experiences, supporting my creative projects, and for always taking care of me. Yasmin and Guido for zoom chats, online rummikub games and, as always, making holiday gatherings something to look forward to.

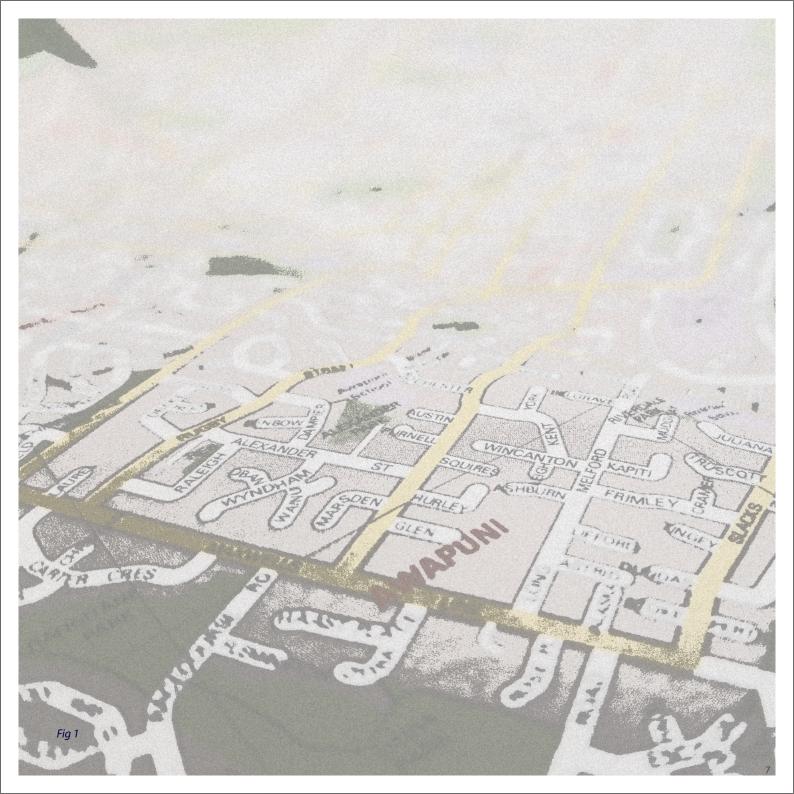
Thank you to my friends at university who have helped make every day cheerful. Thank you to my life-long friends outside of university for your encouragement and making university breaks even more enjoyable.

You are truly the best.

MOTIVATION

The inspiration for this thesis topic emerged from my own experience of immigrating to New Zealand from the Netherlands when I was a child. As my second home, finding my place in a new physical and social context has made me question the difficulties that others face in a scene of unfamiliarity. As a now fluent English speaker with a 'Kiwi' accent, I find that I sometimes become forcibly detached from my cultural origins in social contexts in New Zealand.

My travels across multiple countries have given me insight into the rich diversity that exists in the world. Many of New Zealand's residents are from these culturally rich places yet I have found that there is a lack of evidence of cultural diversity in architecture here. New Zealand is a relatively isolated country, and many New Zealanders do not have the opportunity to travel overseas often or even at all. I question, as someone that seeks enrichment from other cultures, how can we all learn from each other's cultural backgrounds without necessarily travelling abroad?

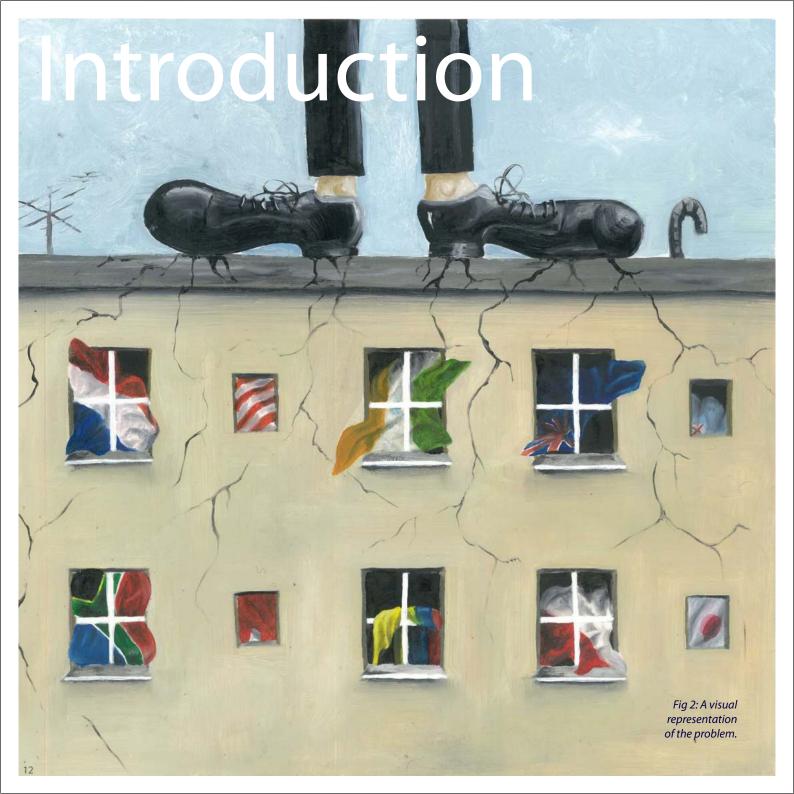


Abstract

Cultural diversity has consequences for happiness. However, there is currently a gap in knowledge about how architecture can foster happiness in the context of New Zealand. New Zealand's mid-sized cities are becoming increasingly culturally diverse, but happiness is shrinking. This is especially evident in Palmerston North, where the colonial-style city square fails to convey an identity that residents can relate to. This research investigates how a multi-programmatic market located at the centre of Palmerston North can improve the population's happiness, reflect and celebrate cultural diversity, and encourage sharing between cultures. The 'research through design' process involves qualitative data and analogue design tools. It is found that cities require centres that reflect and unite their populations. Architecture can achieve this by providing flexible and adaptable spaces, counteracting colonial aesthetics, incorporating expressive forms and engaging a human scale through the invigoration of the senses. Overall, the thesis serves as an example of how architecture can improve the happiness of culturally diverse populations.

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Problem statement:

Cities are failing to embody culturally diverse populations in the built environment, resulting in consequences for residents' happiness.

Globalisation and ease of travel have increased cultural diversity in New Zealand. As different cultures have migrated and grown within New Zealand, cities built on British colonial principles are now struggling to reflect cultural diversity in their architecture. While Western culture has defined New Zealand's colonial architecture for quite some time, Western values are in conflict with other cultures which are centred around the extended family and collectivist ideals. Interrelated with these contrasting cultures, there are often misunderstandings about how world views differ.

This is relevant to New Zealand because it is not a country of one culture. 27.4% of the population is born overseas, and there are more than 178 ethnicities (Stats NZ, 2018a). This diversity is linked with income inequalities that the built environment exacerbates. For example, access to high-quality public parks favours high-income neighbourhoods. The ultimate consequence of this is that "multicultural communities tend to be less trusting and less happy" (Trevor Phillips, 2006). Nowhere is this more relevant than in the city.

The wellbeing and happiness of city populations has become a popular topic in the last 20 years which, as described, is related to cultural diversity. Happiness has huge value for individuals because it improves health, increases life expectancy, work performance, pro-social behaviours, resilience, and strengthens social relationships (Ed Diener, 2019). Furthermore, happy people "help society. They help those around them to also lead high-quality lives" (Ed Diener, 2019). It is in the interest of everyone for the built environment to induce happiness.

New Zealand is struggling with happiness. One in five people experience depression at some point in their lives (Mental Health Aotearoa Insight 2020, 2020), and overall mental health is worsening (Wellbeing Statistics: 2021, 2022). Mid-sized cities are struggling with happiness as they battle to retain professionals and market themselves as interesting places to live (Kiernan, 2014). The effects on mental health are expected to continue as cultural diversity intensifies unless cities learn to adjust to population growth and changing demographics.

The built environment is, or should be, a reflection of its society. Wellbeing is linked to the built environment because "We look to our buildings to hold us, like a kind of psychological mould, to a helpful vision of ourselves." (De Botton, 2006, p. 107). The role of architecture is to accommodate New Zealand's increasingly diverse cultural values to ultimately produce happier populations. This thesis therefore asks:

How can architecture improve the happiness of a culturally diverse population?



Fig 3: Depression in New Zealand.

"Where 'we' are today globally is a situation in which every 'we' discovers that it is in part a 'they': that the lines between 'us' and 'them' are continuously redefined through the global realities of immigration" (Benhabib, 1995, p. 244)

RESEARCH AIMS

- To develop an architecture that can increase the happiness of city residents.
- To accommodate, celebrate and reflect a city's cultural diversity.
- To encourage the sharing of knowledge to foster trust and understanding between cultures.

Fig 4 (opposite):
A visual
representation
of the aims.



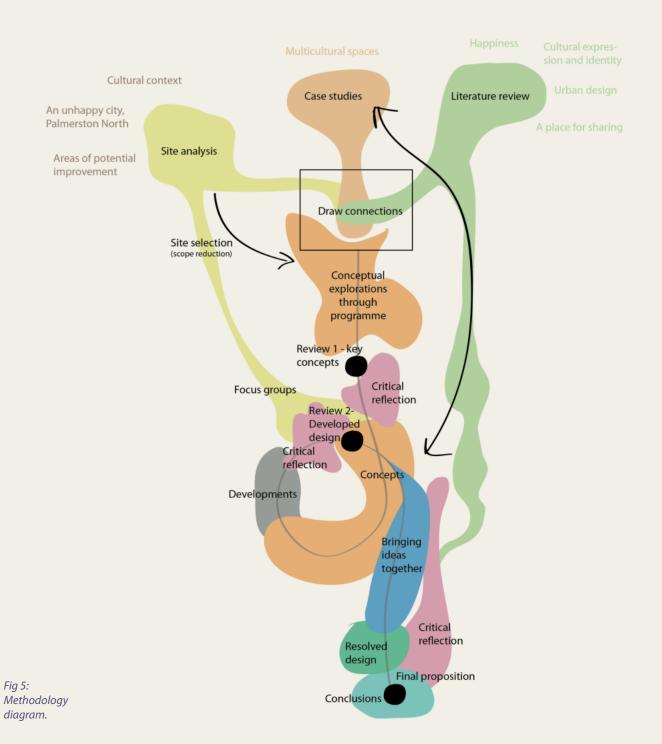
METHOD

The research firstly examines the theories and ideas contained in the literature and looks to real-life examples of how this thesis' aims can be addressed through architecture. It then follows an iterative 'research through design' process that freely explores design ideas, influenced by survey research of different cultures.

The design process starts with a large-scale lens that shifts to the small scale. This is intended to interrogate the architecture's relationship to the site's context and the human body. Included in the process are focus groups to help understand the wishes and values of various cultural groups.

The tools of investigation are principally analogue, including drawing, painting and model making. This is in line with phenomenology, where the act of physically making is thought to achieve a deeper connection between the designer and design (Pallasmaa, 2009). The integration of art acknowledges the intangible qualities that architecture shares with art. It allows concepts and ideas to be explored in ways that words or technical representations could not and, because "art becomes a median to express a thought, identity, culture, and society" (Saluja, 2020), is extremely relevant to the nature of the thesis topic.

The project's scope begins at a city scale to understand the physical and social context. After the analysis of a seemingly unhappy city, the scope is reduced through the selection of a smaller site within the city centre.



Theoretical context

The literature is reviewed to understand the known approaches to tackling the question: how can architecture improve the happiness for a culturally-diverse population? An overview of key theorists who are influential within the field is followed by three sections that each correspond to the aims of this thesis, namely designing for happiness, expression of identity and a place for sharing.

Theorists

This project looks to the works of Charles Montgomery, Jan Gehl, Ray Oldenburg, Leonie Sandercock, Charles Landry, and Geert Hofstede for guidance. Montgomery and Gehl discuss how the city is experienced and how it should be built for better relationships with its inhabitants (Gehl, 2013a; Montgomery, 2013). Along with Oldenburg, who coined the term "third place" (1999), their theories are key for creating meaningful urban experiences that improve happiness. Sandercock specialises in the wellbeing of people multicultural populations. She highlights the complications that multiculturalism causes for urban environments and ultimately calls for diversity could be embraced (2003). Sandercock looks toward Landry for a creative approach to design to create liveliness and express local culture (Landry, 2008). Lastly, Hofstede's cultural dimensions are accessed to better understand differences in spatial use between collectivist and individualist cultural entities. The theorists' insights will be combined to address topics of happiness and cultural diversity.

1. Designing for happiness (amongst cultural diversity)

- Building on liveable cities and ethnic distribution

[Aim: To develop an architecture that can increase the happiness of city residents]

Happiness is a complex emotion that is influenced by many factors including those of the built environment. Happiness can be most simply understood as consisting of belonging, trust and life satisfaction (Figure 6) (Helliwell & Barrington-Leigh, 2010; Montgomery, 2013). Belonging and trust are particularly important within an increasingly culturally diverse context because urban spaces rarely foster comfortable environments that are inclusive of all cultures. The literature emphasises that belonging and trust can be realised through people-centric spaces.

Liveable cities:

Fostering happiness in cities requires a return to human-scale urban design (Gehl, 2013a).

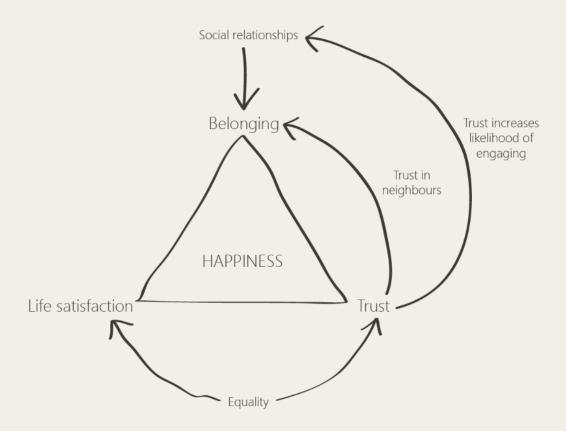


Fig 6: The happiness triangle.

Since the 1960's, cities have increasingly strayed from the human scale due to the domination of cars and population increases, resulting in ever more privatised lifestyles (Gehl, 2013b). Gehl suggests returning to the human scale and revisiting the original composition of a city, being defined by a market space, meeting spaces and connection spaces (2013a). Most importantly, cities were always intended for people, and it is ultimately the people that define the success of a public space.

Public spaces should be designed using the 5 km/h rule as this can create a lively, safe, healthy, and more sustainable city (Gehl, 2013b). An environment built for walking speeds demands a detailed urban environment with enough visual interest to entertain the eye, ultimately creating attractive and interesting urban spaces. Visually complex environments also support active transport like walking and cycling, which has further health and mental wellness benefits.

Furthermore, to succeed in high usage of public space, cities require "a tempting invitation" (Gehl, 2013b, p. 17). A space can seem most inviting when it offers vibrancy and comfortable places to retreat (Montgomery, 2013). Spaces should also be made to feel safe, using lighting, sight lines and passive surveillance offered by pedestrian activity (Macmillan et al., 2020). Better city spaces using these techniques will have more use, regardless of culture (Gehl, 2013a).

Cultural distribution for a place to belong:

The distribution of cultures within a city affects how one finds their sense of belonging (Wessendorf, 2019). A relevant topic of debate in this area is the 'ethnic enclave'.

Richard Sennet fears ethnic enclaves cause isolation and segregation from the wider city, prohibiting the learning and practice of social interaction between cultures (2021). Neighbourhoods that are dominated by a culture that is not one's own can negatively impact their sense of belonging (Wessendorf, 2019).

However, contrary to Sennet's view, ethnic enclaves are also seen to foster a community and help ease one's journey to belonging (van Leeuwen, 2014). Environments with likeminded people aid the formation of emotional connections (Yuval-Davis, 2006) and trusting relationships (Putnam, 2007). Where one has no clear connection to a geographic cultural community, immigrants find it easier to belong in neighbourhoods that are characterised by visual diversity, often at the city centre (Wessendorf, 2019), where the fear of appearing different or being seen as "the other" (Sandercock, 2003, p. 4) is reduced. This highlights the need for city centres to accommodate and express diversity.

2. Expression of identity (through the public market)

- Building on *identity/place branding* and *phenomenology*

[Aim: To accommodate, celebrate and reflect a city's cultural diversity.]

Expressing cultural identities in the built environment is important for acknowledging city residents and for upholding a positive reputation (Landry, 2013; National Research Bureau, 2016). Place branding is a strategy for promoting city reputations (Baker, 2007), but some cities need to address identity at a deeper level, doing more than simply creating catchy slogans (Landry, 2013). As Landry points out, identity "is less about branding and more about building immediate associations" (2013, p. 14). For architecture, this can include iconic buildings that provide physical and experiential references to a city's unique assets which residents, especially, can be proud of.

The market for expressing cultural diversity and identity:

The primary architectural programme of a market can underpin expressions of identity and cultural diversity. A food market is commonly seen as a multicultural space and a canvas for cultural celebration (Rhys-Taylor, 2013). Markets are significant to the earliest city concepts and a place for trade remains a key component of cities today (Gehl, 2013b).

A market can become a "portrait" (Rhys-Taylor, 2013, p. 398) of a city's demographics. A market that embraces cultural foods and crafts is an asset (Landry, 2008) that can address diversity directly and offer moments for sharing, learning and celebrating. Market environments are inherently spaces where intercultural interaction occurs, especially if they are affordable and financially accessible (Rhys-Taylor, 2013). However, the cultural exchange is not meaningful when it becomes a form of cultural tourism where wealth gaps are ignored or even amplified (hooks, 1992). This highlights the need for market architecture to be primarily for local benefits.

The sensorial experience and phenomenology:

Intercultural interactions are enhanced when the senses are engaged (Sandercock, 2003). A market space lends itself to a sensorial experience because it engages what Gehl describes as the 'close senses', which include smell, touch and taste (2013a). These are the most significant senses for interactions with people (Gehl, 2013a) and allow "regular users [to] develop an embodied familiarity ... around which important forms of dialogue and exchange can occur" (Rhys-Taylor, 2013, p. 404). Additionally, food has the power to evoke memories and the comfort of 'home', which can be especially powerful for homesick immigrants (Rhys-Taylor, 2013).

Additional to social encounters, "[people] interact with the architectural form through these senses" (Li, 2019, p. 192). Phenomenology is inherently a suitable basis for designing sensorial experiences. It concerns the experiential qualities of architecture and space, often involving the senses.

A design process based on phenomenology often utilises the hand in drawing and model-making. This produces a high level of contact between the designer and architecture and "ultimately the object becomes an extension and part of the designer's body" (Pallasmaa, 2009, p. 97). This approach can capture immaterial qualities and emotions that are important to human experiences.

For architectural spaces, phenomenology can involve the manipulation of light, shadow, material and space. Architecture can play with perceptions of open-ness through ceiling heights, reflecting or absorbing sounds, using textured materials, and masking or enhancing particular smells (Spence, 2020). The combination of these can produce a holistic sensorial experience.

3. A place for sharing

- Building on a "third place" (Oldenburg, 1999) of intercultural interaction, participatory processes, and environmental psychology

[Aim: To encourage the sharing of knowledge to foster trust and understanding between cultures.]]

Differences between cultures and their values can affect trust between cultures. Hofstede's studies on cultural dimensions provides a useful model that suggests how cultures' ways of life differ. Cultures tend to exhibit more strongly either collectivist or individualist characteristics. Collectivist groups typically value the group over the individual, whereas individualist groups value the wellbeing of themselves or their immediate family. This results in different understandings of happiness and preferences for the use of space.

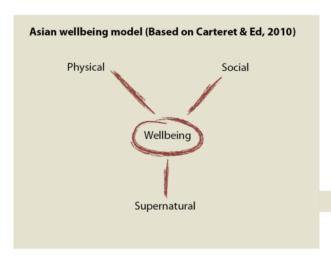
New Zealand's main four ethnic groups are Māori, Pasifika, European, and Asian. Their positions on the collectivism/individualism scale (based on Hofstede Insights, n.d.; Lim, 2015) are shown in Figure 7. Connections are drawn between wellbeing models in Figure 8. Collectivist cultures have a holistic approach to mental wellbeing and tend to value lay knowledge, whereas individualist cultures tend to rely on professional knowledge (Altweck et al., 2015; Tata & Leong, 1994; Yeh, n.d.). Importantly, all four models include social conditions.

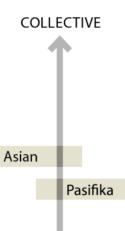
This means architecture must cater for some very contrasting ideals. The common understanding that social relationships are important for wellbeing suggests social spaces where people come together is essential. Collectivist cultures use space in a shared manner with limited personal spaces such as private bedrooms (Penn, 2019) and fewer fences (McManus, 2014). On the other hand, individualist groups prefer spaces with privacy (Pędich, 2018). A challenge for a culturally inclusive architecture therefore lies in incorporating spaces that appeal to both collectivist and individualist groups.

A "third place" (Oldenburg, 1999) for intercultural interaction:

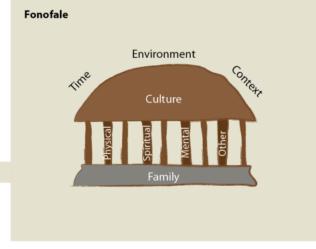
Social interaction between cultures can overcome the barriers created by different world views when genuine interest and curiosity is provoked. Architecture can build on Oldenburg's "third place" theory to encourage frequent intercultural interactions that allow people to learn about different world views. This can increase tolerance and trust between cultures (Sandercock,

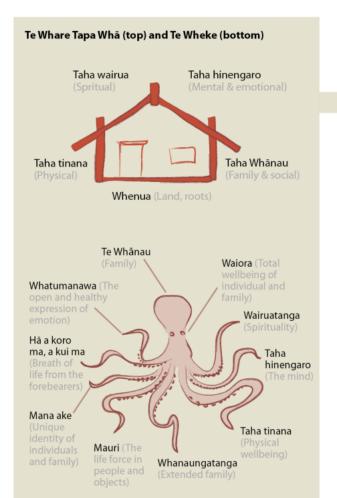
Fig 7 (opposite): Individualist and collectivist cultures in New Zealand and their respective wellbeing models.

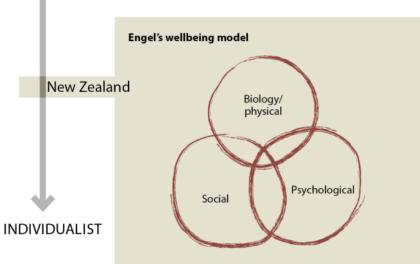




Māori







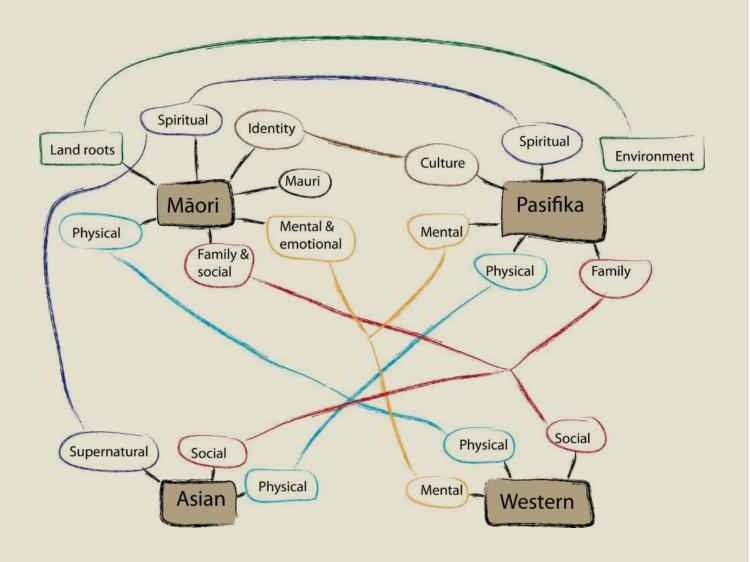


Fig 8: Relationships between wellbeing models.

2003). However, aligned with Hofstede's theory, public space is often territorialised by specific groups, which challenges the initiation of intercultural interactions.

Architecture can foster intercultural exchange by offering diverse programmes that attract a range of cultures. Multiple activity options can appeal to both collectivist and individualist groups and often involves food, events and music (Amin, 2002).

Spaces can also encourage intercultural interaction using comfortable social distances that match the function of space, in line with environmental psychology. The four communication distances – 0-45 cm is intimate, 45-120 cm is personal, 1.2-3.7 m is social and more than 3.7 m is public (Gehl, 2013b) – should all be engaged in urban environments. Small spaces have the advantage of appearing full, conveying a sense of the importance and desirability of the space (Gehl, 2013a). This can result in an overall higher usage of space and more chance of intercultural interactions.

Conclusion:

The literature has revealed that architecture can improve the happiness of a culturally-diverse population by incorporating:

- 1. A design process that utilises the hands as a tool, through drawing and model-making.
- 2. Participatory design and active making.
- 3. A central place that expresses diversity, that all the city's residents can find a sense of belonging to.
- 4. Human-centric and human scale urban spaces.
- 5. A "third place" (Oldenburg, 1999) that encourages intercultural interactions where people share and form trust.
- 6. A market as the potential primary programme of an architecture that expresses a city's identity, using a sensory experience by building on phenomenology.

These points form the objectives of this research.

Precedents

The following case studies are examined to further understand how this thesis' aims can be achieved.

Recap of the aims:



To develop an architecture that can increase the happiness of city residents.



To accommodate, celebrate and reflect a city's cultural diversity.



To encourage the sharing of knowledge to foster trust and understanding between cultures.

SUPERKILEN PARK

Details:

Architect/designer: Bjarke Ingels Group Location: Copenhagen, Denmark

Year: 2012

Superkilen Park has transformed an underutilised segment of land in one of Copenhagen's most diverse neighbourhoods into a scene of art. It is filled with objects from all over the globe, aiming to "reflect the true nature of the local neighbourhood – rather than perpetuating a petrified image of homogenous Denmark" (Bjarke Ingels Group, n.d.). A manipulation of land into organic forms helps to emphasise this contrast.

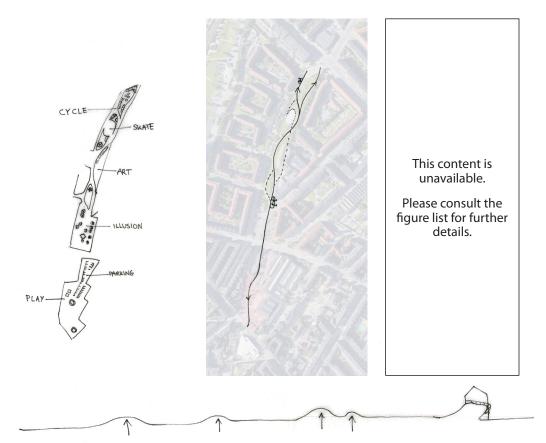


Fig 9: Superkilen Park analysis in plan and section.

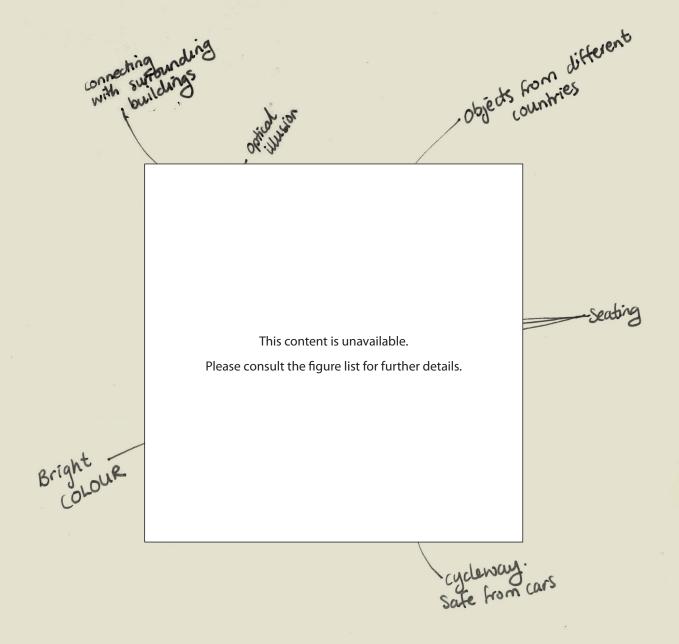


Fig 10: Superkilen Park.

Relevance:



An underutilised space that previously detracted from neighbourhood reputation has been turned into a vibrant social space.

The park includes a cycleway, providing everyday moments of joy for commuters. The path is a that incentivises people to cycle, which has mental wellbeing benefits.

Car access is limited to make the park safe for pedestrians and cyclists.

Superkilen evokes people's imagination through colour, illusions and a play with scale to create an impressive experience. This makes the park memorable and fun.



References of people's cultures/heritage are integrated in a creative manner to depict a scene of celebration.

The accessibility and safety from cars attract a range of people, e.g., families, commuters, residents.



An extensive participatory design process was used to collect the diverse objects.

SANTA CATERINA MARKET





Details:

Architect/designer: Miralles Tagliabue EMBT

Location: Barcelona, Spain

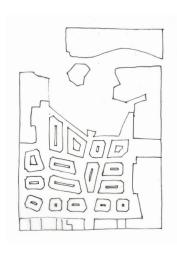
Year: 2005

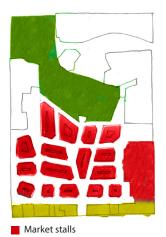
The Santa Caterina Market is all about the roof. It brings about a sense of movement, creates spaces of compression and expansion, and the space underneath is versatile.

Fig 11 (top left): Santa Caterina in section.

Fig 13 (top right): Santa Caterina nestled among buildings.

Fig 14(bottom): Santa Caterina plan analysis.





Courtyard

Shops/cafe

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COLOUPFUL

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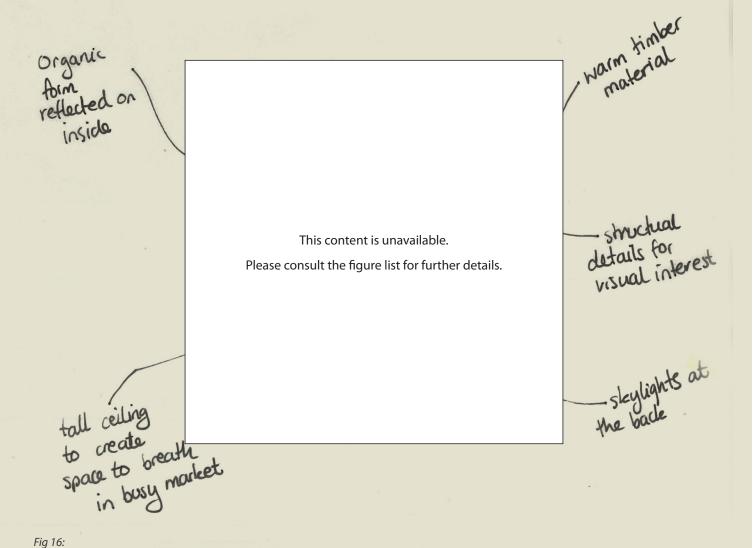
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organic.
older orchitecture

dose to

Pedestrian space

Fig 15: Santa Caterina Market



Structural details inside Santa Caterina



The market is a people-focused environment with human-scale elements and intimate spaces. Whilst the most colourful part of the roof is hidden from pedestrians, details on the ceiling keep the eye entertained. The programme invigorates other senses too.

Use of colour and imagery makes views interesting for surrounding apartment buildings.

It combines the old and the new and compliments Barcelona's iconic architecture by Gaudi. This reinforces Barcelona's identity.



Cultures are expressed through the building's function as a market but also through the organic and colourful roof.

The roof is a symbol of a tablecloth. This symbol is universally shared and speaks of celebration, sharing and food.

MAR	Y S	TR	EE	T
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Details:

Architect/designer: Thames Coromandel District Council

Location: Thames, New Zealand

Year: 2021

Mary Street, in the centre of Thames, was transformed from a regular car-orientated street to a pedestrian hub. Its aim was "to create a town heart ... that will generate activity and foot traffic" (Thames Coromandel District Council, 2022).

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Fig 17: Mary Street concept collage.

lights for nightlife

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Human

-shading device

grass (not grass (not rivites)

Playful furniture, movicable



There are many human-scale elements with places to sit. Artificial grass adds vibrancy and texture underfoot.

Colour and visual interest keeps the eye entertained.

The space is multifunctional with opportunities for performances and events. Movable elements allow the space to be reorganised.

The street contains a community space that can be booked for free.



Local artists painted planter boxes and murals to reflect the identities of Thames' residents.



The street is adaptable, allowing the public to influence it over time and reducing the feeling of the council forcing change.

The project highlights that urban improvements can involve small interventions, and that the public can be key contributors to this.

FOLKEHUSET ABSALON

Details:

Architect/designer: ArcgencY Architects, Tal R, Allan Lyth MAA, Marianne Tuxen

Location: Copenhagen

Year: 2015

Folkehuset is a multi-programmatic community centre in Copenhagen. It can host international breakfasts, lunches and dinners, as well as exercise classes, creative activities and art exhibitions. This provides attractions for a diverse range of people and promotes social interaction.

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Fig 19 (left): Colourful interiors.

Fig 20 (right): Homely seating area.

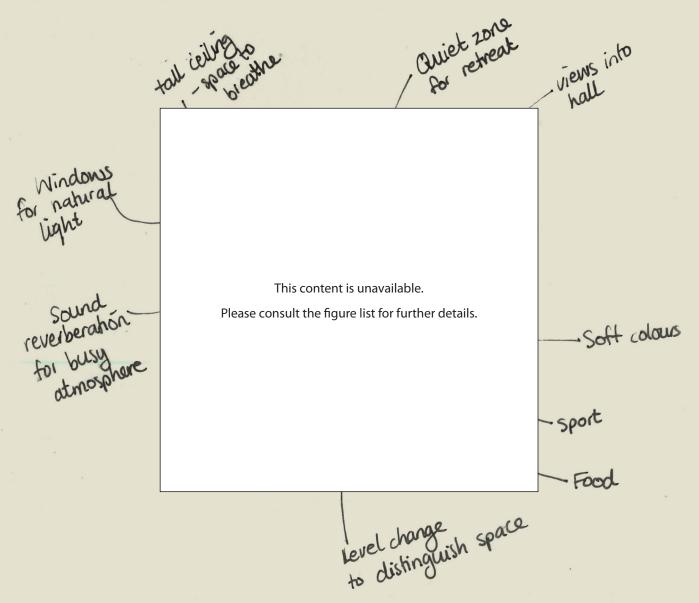


Fig 21: Folkehuset Absalon hall.



The design reflects the qualities of a livings room to become a comfortable place to belong. This is achieved through homely furniture, asymmetric lighting arrangements and daily activities that everybody is welcome to participate in.

Bright colours produce a cheerful space. The pastel tones are easy on the eyes.



The international cuisine and colourful interior speak of diversity.

The multi-programmatic approach, from food/dining, to exercise classes, painting/life drawing, appeals to a range of people.

The use of colours allows visitors to blend into a visually diverse environment, reducing immigrant's fears of standing out.



The adaptability of the hall, such as through movable furniture and durable flooring, facilitates a variety of collaborative community-led events.

BAXENDALE STUDIO

Baxendale Studio is an architecture firm in the United Kingdom that believes in the power of the community-led projects. Their projects often involve temporary architecture built by communities themselves that offer insight into future possibilities and inspire a desire for change.

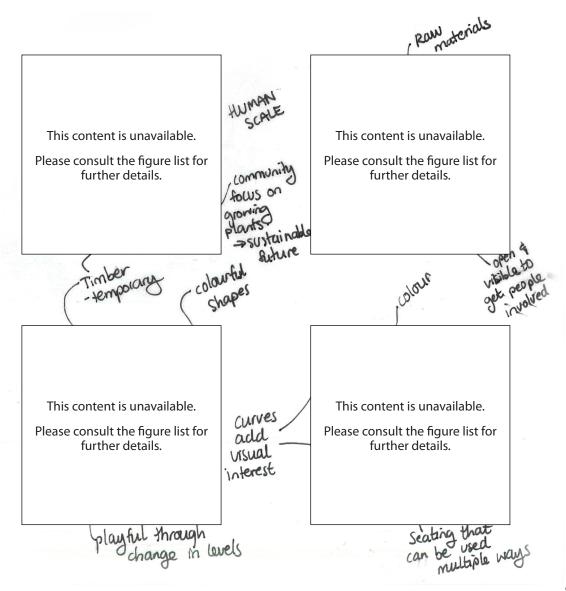


Fig 22 (top left): Community project.

Fig 23 (top right): The Portland project.

Fig 24 (bottom left): Venice Biennale playground.

Fig 25 (bottom right): Skatepark in Bentham.



Communities are actively engaged so that the public holds a sense of ownership, and thus belonging, to the architecture.

Projects are facilitated by professionals but active making encourages the sharing of lay knowledge amongst community members and with professionals.

The temporary essence suggests opportunity for change and development based on community needs/wants in the future. It is treated as a prototype so that a new architecture is not intimidating.

CONCLUSION

Case studies have shown that impressive and intriguing spaces can entice visitors to explore a building up close. Colour, texture and form can create bold and memorable experiences that evoke happiness and reference cultural celebration. Details add visual interest, which is important for engaging the human scale and intimate spaces within buildings can be deformalised using mis-matched furniture, interactive objects, and soft materials.

Numerous case studies transformed underutilised urban spaces into lively hubs. Employing multiple programmes encourages social interaction and interesting architecture produces an invitation. Revitalisation can increase an area's vibrancy and improve city or neighbourhood reputations.

Architecture can include aspects of active making, involve local artists or incorporate movable elements that can be adjusted for events or future desires. This fosters a sense of power, pride and belonging for the public.

Site

New Zealand has a historically complex cultural make-up that encompasses indigenous Māori culture, British colonisation and recent increases in other cultures due to globalisation. 27.4 % of New Zealand's population were born overseas (Stats NZ, 2018b) and people identify with more than 179 ethnicities (Stats NZ, 2019).

This project focuses on the second-tier city of Palmerston North – an arguably unhappy city.







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Fig 28:
Palmerston
North has a
backdrop of
the Tararua
Ranges.
Housing
developments
suffer from
urban sprawl.

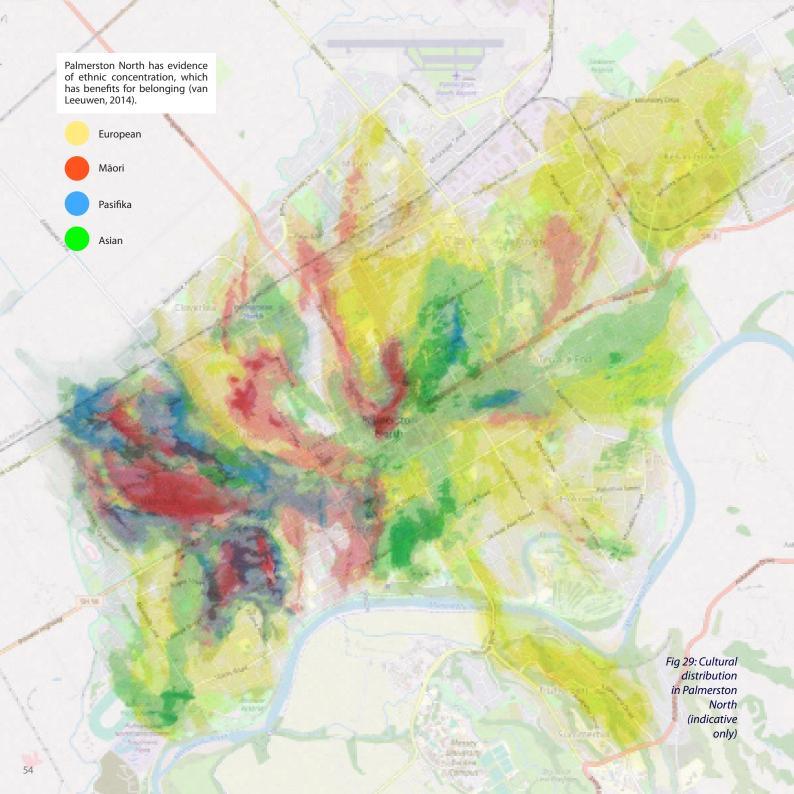
AN INTRODUCTION TO PALMERSTON NORTH

Palmerston North is a typical mid-sized, inland, diverse city that struggles with happiness (Happiness of New Zealand, 2012). The region suffers from high suicide rates (Chief Coroner & Ministry of Health, 2021), low levels of social support, high levels of deprivation, higher mortality rates (Health Equity Data Report, 2018), and more reported loneliness than the rest of New Zealand (Wellbeing Statistics: 2021, 2022). With one of the highest levels of cultural diversity per capita in the country (Naylor, 2012), Palmerston North is an important site where cultural diversity has significant consequences for people's happiness.

Palmerston North is expected to become increasingly diverse- (Health Equity Data Report, 2018), making cultural diversity highly relevant for its future. As one of New Zealand's key refugee centres, the city is has the responsibility to provide a home for those who had no choice but to leave their original home behind (Refugees Coming to New Zealand, 2021).

Palmerston North's built environment does not recognise the city's cultural diversity. This is evident throughout the city due to an overabundance of state-housing styles in neighbourhoods and territorialised inner-city streets with high-end shops, cafés and colonial architecture. In spite of its wealth of potentially exciting diverse cultures (Figure 29), Palmerston North's centre is described as "pretty bland" and "a bit of a hole" (residents cited in National Research Bureau, 2016). It has often been the city's perception from outsiders that has defined Palmerston North's image rather than residents themselves.

The development of Palmerston North's fringe suburbs is resulting in urban spawl and does little to express the identities of its residents. There is an orientation towards cars, which are then accommodated in oversized parking lots in the city centre, producing unwalkable distances and unpleasant streets. High car-usages produces a privatised way of life, reducing opportunities of social interaction between residents and cultures. This is especially problematic because Palmerston North is lacking a space where all residents can come together. These issues have ultimately contributed to Palmerston North's poor reputation.



"It's not a place that you say 'Yeah! Come visit Palmy, it's really cool'. No one says that - ever."

(Resident cited in National Research Bureau, 2016, p. 21)

Palmerston North lacks "distinctiveness, diversity [and] vitality" (Landry, 2013, p. 25), and Landry points to the dangers of suppressing the city's diversity because people want greater acknowledgement (2013). A lack of expressed identity is highlighted in photographs of the city (Figure 31); it is difficult to grasp the places' identities. Behind neighbourhoods' facades, however, lies a rich cultural diversity that is often unique to each suburb. Lacking evidence of cultural diversity is especially evident in the city's square. This is despite a desire for more cultural celebration (How Important Is Culture?, 2009).

Eighty two percent of New Zealanders "say they are at least quite interested in culture and cultural activities" (How Important Is Culture?, 2009, p. 17) but only 38% say that "culture and cultural activities have a high profile in NZ" (How Important Is Culture?, 2009, p. 5). New Zealanders also consider they have a stronger identity as a country rather than as individual communities (How Important Is Culture?, 2009), which supports the need to focus on identity at the city scale.

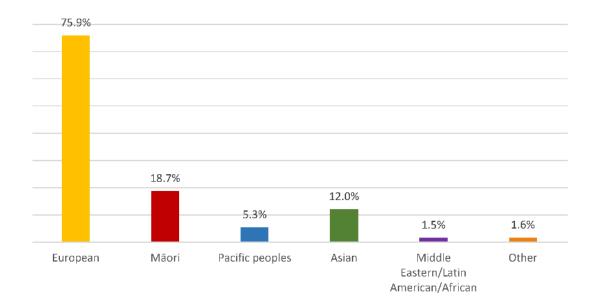


Fig 30 (left): Ethnicities in Palmerston North.

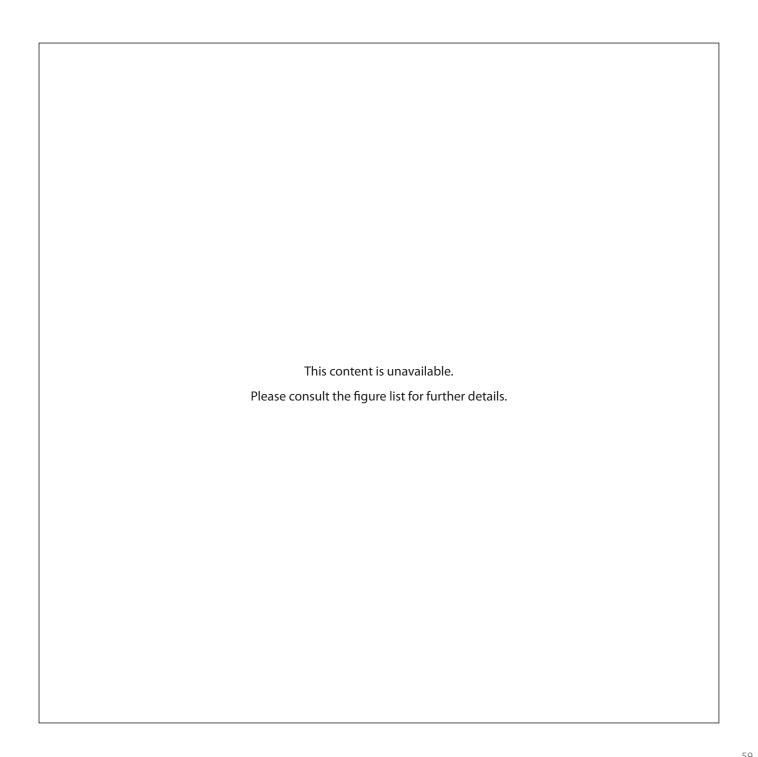
Fig 31 (opposite): Lacking cultural expression in Palmerston North.

Awapuni	Kelvin Grove	Milson		
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This content is unavailable. Please consult the figure list for further details. European Māori Pacific Asian Othe	This content is unavailable. Please consult the figure list for further details. r European Māori Pacific Asian Other	This content is unavailable. Please consult the figure list for further details. European Māori Pacific Asian Other		
70.3% 25.3% 9.2% 10.6% 2.8% Westbrook/Highbury	78.8% 10.9% 2.3% 13.9% 4.2% Terrace End	83.3% 14% 3.4% 8.5% 2.19 City Centre (The Square)		
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European Māori Pacific Asian Othe 67.8% 33.1% 13.0% 6.6% 1.9%				

There is a disparity between what the Palmerston North City Council does for the city and what the people want. Urban developments, such as new road layouts, are often opposed by the public because it seems like 'authority' is creating permanent change without considering the public, as evidenced by social media (Figure 33). Opportunities for residents to voice their desires are limited, resulting in dwindling trust for governing bodies and a lack of desire from residents to engage in design processes. Furthermore, a lack of trust entrenches a resistance to urban changes.

The council building is overpowering. It portrays a sense of dominance and authority through its brutalist style and towering form over the central square (Figure 32). "Cities have the capability of providing something for everybody, only because, and only when, they are created by everybody" (Jacobs, 1961, p. 238), which is especially important when reflecting culturally diverse populations. The council building is missing an opportunity to incorporate spaces where the public council can design together.

Fig 32 (opposite): The dominating PNCC building.









PALMERSTON NORTH OVERVIEW

they have the seat at the 'head of the table'.

framed with the valued Manawatū River towards the southeast, and a railway with industrial areas towards the northwest. Overall, suburbs vary in visible wealth, values and community spirit.

Kelvin Grove is packed with new cookie-cutter houses for those in search of privatising fences and lush green football fields.

Milson's wide streets render the area with little character.

Highbury is battling with poverty but has a big heart created by Māori and Pasifika groups.

Hokowhitu is a 'pretty' neighbourhood where many houses are presented with delicate flowers. Southern Hokowhitu appeared to have a higher presence of Pacific ethnicities and is scattered with old couches.

Awapuni has a community spirit led by its community garden, next to tennis courts where Saturday afternoon tennis keeps the retired entertained.

······· Summer Hill overlooks the city, elevated by their wealth and position of power. It could be said

Palmerston North is arranged on a grid, centred around The Square. The city's edges are







Fig 36: An expression of culture on a porch in Hokowhitu.



Fig 37: Playground at Crewe Crescent.



Fig 38: Signs of community spirit in Highbury.



Fig 39: Front lawn in Hokowhitu.

Agriculture

Cultures Traditions, rituals, cultural expressions, stories and food are recognised in the annual festival of cultures but not during the rest of the year.

Palmerston North's surroundings has rich soils for agriculture and farming.

Palmerston North's residents love the laid-back lifestyle, work-life balance and ease of getting around the city. However, this does pose risk to lack of ambition and change.

Lifestyle

What are Palmerston North's attributes?

Manawatū River

The river is an important asset as it is the only blue space of the city.

Landscape

Ruahine and Tararua Ranges offer bushwalks and an escape from the city. Wharite Peak is a well-known viewpoint and often visible from within the city.

> Fig 40: Palmerston North's attributes.

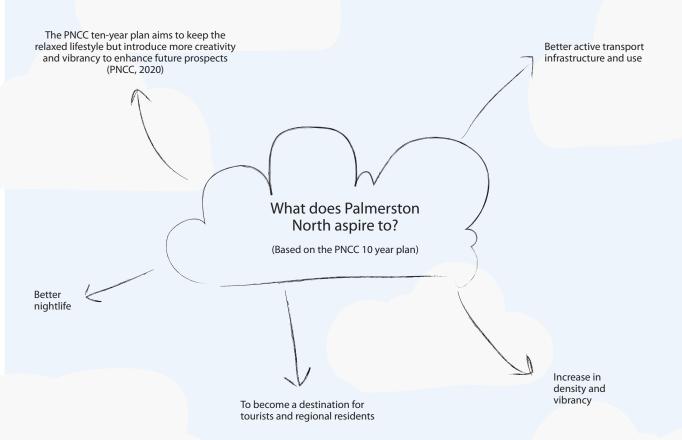


Fig 41: Palmerston North's aspirations.

F1 (Students Group) Cultural events in square, concerts, Holi festivar, income Advertise better on Facebook, 'what's going on in our city thretien as any M2 (Young Singles/Couples Group) Hetter student discounts.

Better advertisement of activities/things to do - walks, parks, petting 200, etc. Really needs a skid pad or something to stop people from doing burno. Provide up to date messages, such as new policies, new facilities, or public services available. More emphasis on community activities and groups. More free parking in town. Provide up-to-date messages, such as new policies, new facilities, or public services available.

Advertise or promote more about public services on campus - such as Te Manawa, library, etc. M3 (Young Singles/Couples Group) Fix skatepark. Build free skid pad for tray racers so no more congested roads or antisoc FZ (Students Group) Communication between the University and the Council - use the University to reach students. Try make more jobs for everyone. Communication between the University and the Council - use the university to reach students.

A student input, have a presentation day at Massey to get students involved - get their suggestions and tell them more should what the Council dose. Bus tours to sightseeing. M4 (Young Singles/Couples Group) Music clothing shop (board shorts 90's style ripped jeans, etc). A what's-on Facebook page or app; have events, shops, places to eat, exhibition, etc. Another swimming place and have winter stuff in there like spas, etc. F3 (Students Group) More music events.

Free entertainment at the park or square, a concert or more where you can bring a picnic and More music studios (like The Stomach aka Creative Sounds). F1 (Young Singles/Couples Group) Fixing the red lights that never change around CBD and Rangitikel St. Improve the Regent - needs to be dressed up (eg. carpets, etc). Events at Te Manawa being promoted. Homelessness is an issue. Not just moved off the streets but given help and something to drink. F2 (Young Singles/Couples Group) F4 (Students Group) More activities to do when it comes to school holidays. Outdoor movies. Not waste money on unnecessary roadworks. Outdoor concerts. Make strentlights brighter, making people more secure when walking at nigh Palmerston North city runs - timed each week. Free rubbish. An app to show what is on-More frequent public rubbish disposal, ie, outside dairy's, etc. More freedom camping spots. YOUNG FAMILY GROUP F3 (Young Singles/Couples Group) INB one person did not complete a wish list) Make it safer to walk around at night. M1 (Young Family Group) heaper rubbish bags. More awareness of the Council to the public perhaps younger people. Cyclist friendly, road rules and designs What do the people dore communication of proposed ideas or projects. Water meter, water saving intiglive Footpath more Friendly to wheels. want? F4 (Young Singles/Couples Group) waste recycling more flexible. Waste recycling more nexible.

More activities arrangement for styleents and newcomers.

More involvement with people type in the city. rinking culture - security step up. (National Research Bureau, 2016) heaper parking/longer time frame. Give the 'homeless/beggars' options of things to do. M2 (Young Family Group) Free events to bring people together More apportunities for things to do in Palmy. Cover Central Energy stadium. Cover Central Energy Stactium.

Look at opening and on south side of Palmy for development, only areas with crianca/nature than the party of the palmy for development. Look at opening land on south side of Palmy for development.

M3 (Young Family Group)

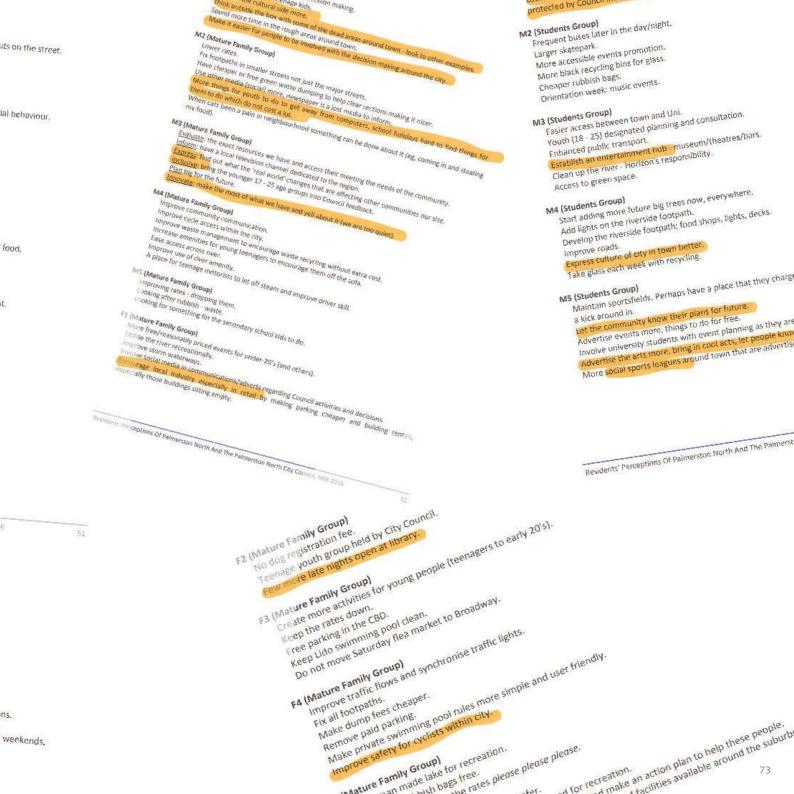
Rubbish disposal.

The Square

Public Consultation on projects, when the Palmerston North And The Palmerston North Council, NRR 2016

Footpaths. Residents' Perceptions Of Palmerston North And The Palmerston North City Council, NRB 201 48 F5 (Young Family Group) More rubbish bins Fix footpaths. F1 (Young Family Group) Shade at playgrounds. Clean Manawatu rivers. The water quality of the river. Cheaper bins/bags. Footpaths," More planting in 'poor areas' Nicer playgrounds in poor oreas F6 (Young Family Group) More diverse cultural events Fix footpaths. Revamo n Shade at more playgrounds. F7 (Young Family Group) Fig 42: Palmerston Beautiful river with attractions on it. North's residents' wish hat have overflowed with household nubbish. Better cycling lanes in city centre/intersection More skateparks. Public toilets on every playfield, and open on Playgrounds/areas for pre-teens. F4 (Young Family Group) park, bigger pools and more playing Clean up the river. Even footpaths

More gardene



CONCLUSION

Palmerston North lacks architecture that fosters wellbeing as it continues to develop with urban sprawl, ignore the human scale, neglect residents' identities and retains a poor reputation. The built environment poorly conveys the city's cultural diversity which has a negative effect on residents' happiness. In line with resident's desires, Palmerston North needs a more vibrant city where cultures and contrasting ways of life can be shared. Palmerston North offers the ideal testbed for this thesis.

Scope

The scope of this research is reduced to Palmerston North's central square. This is where urban happiness, cultural expression and as sense of sharing is significantly lacking. It also provides an accessible central location, providing the highest potential for a happier population.

In line with the literature, this thesis will focus on an urban-scale multi-programmatic market design. It aims to address issues of happiness for culturally diverse populations by focusing on the human experience, cultural expression and encouraging sharing through architecture. The result of this thesis is an architectural design that provides a conceptual guide for designing culturally inclusive architecture in the context of New Zealand.

The project uses a multicultural lens because an increasingly multicultural population cannot remain ignored if New Zealand's cities are to become happier. However, it should be acknowledged that New Zealand is officially a bicultural country, and Māori still face injustices caused by colonization. This thesis does not wish to deny the need for Māori-focused design, but instead speculates what a celebration of all cultures would look like.

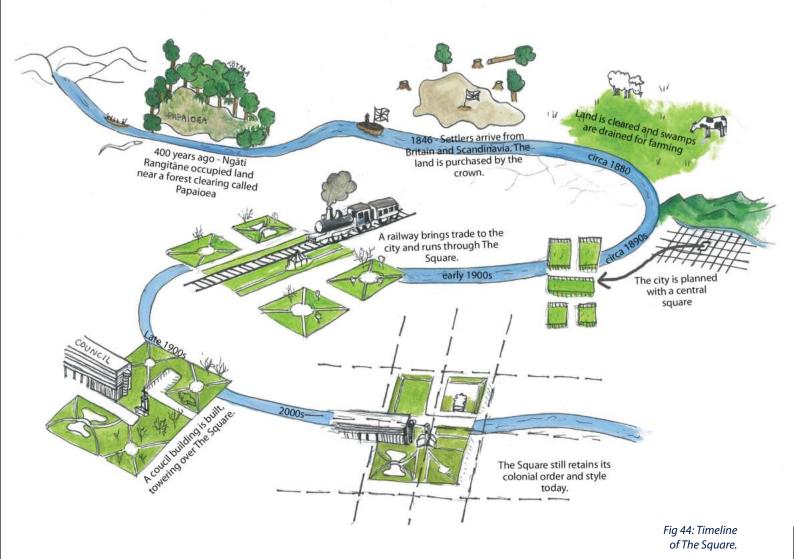
The Square



HISTORY

From the natural to the ordered.





This content is unavailable. This content is unavailable. Please consult the figure list for further details. Please consult the figure list for further details. Fig 46: The Square circa 1893, planted with exotic Fig 45: The trees. *Square 1878.* This content is unavailable. Please consult the figure list for further details. Fig 47: The Square circa

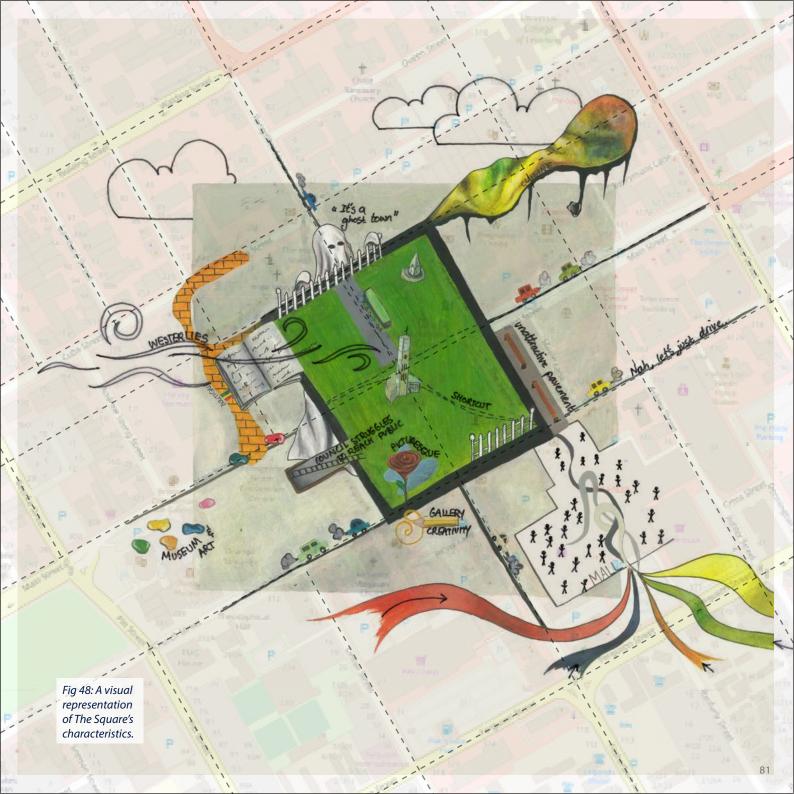
1906-1907.

The Square's design follows a traditional colonial approach. This is evident from the war statues, the giant clocktower and the picturesque duck pond surrounded by roses. Green grass covers most of the area yet appears only as a feast for the eyes because it becomes too soggy to sit on. The Square is sometimes used for public events like the festival of cultures, which are successful but only for their given day.

Opportunities surround The Square, like cultural restaurants, shops, cafes, a mall, art galleries and a library. Currently their relationship to the Square is poorly executed with unclear entrances and degrading facades. These opportunities could become key points of connection for a proposed multicultural hub.

"The inner city is a ghost town. Most people only visit the Plaza. You could fire a shot gun down Broadway on a weekday afternoon and not hit anyone."

(Resident cited in Palmerston North Annual Residents' Survey 2020/2021, 2021, p. 11)

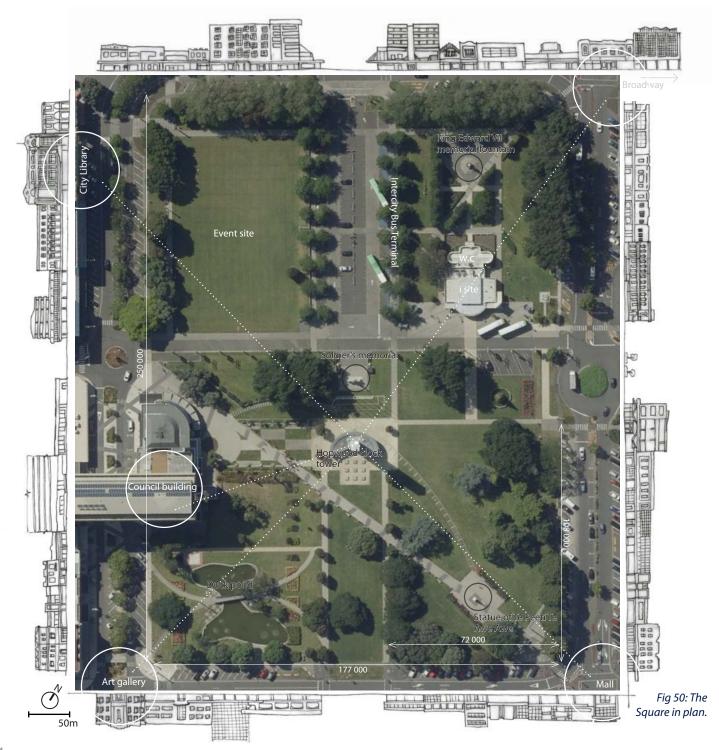


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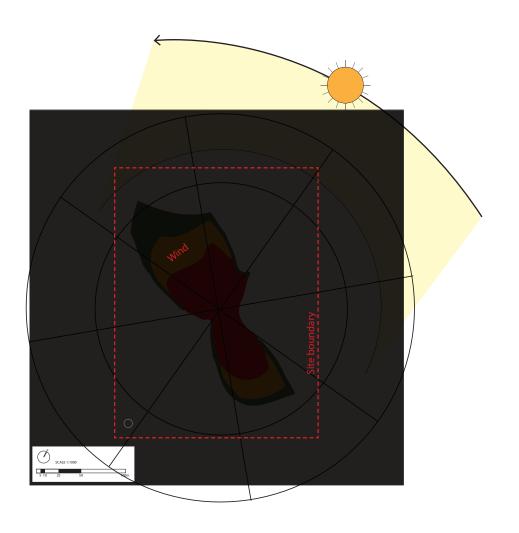


Fig 51: Site conditions.

BUILDING OCCUPATION TYPES

Buildings that surround The Square mostly consist of shops. The council building is dominant on the site and inner-city residences are sparse.

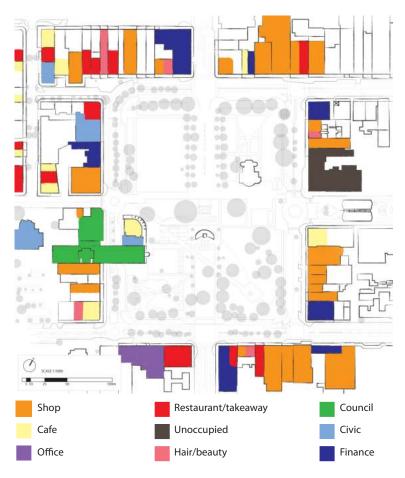


Fig 52: Buildings' function.





























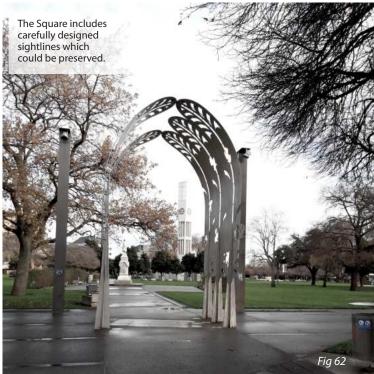










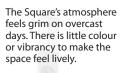






This view from the city library should be enticing people to explore The Square after their library visit.







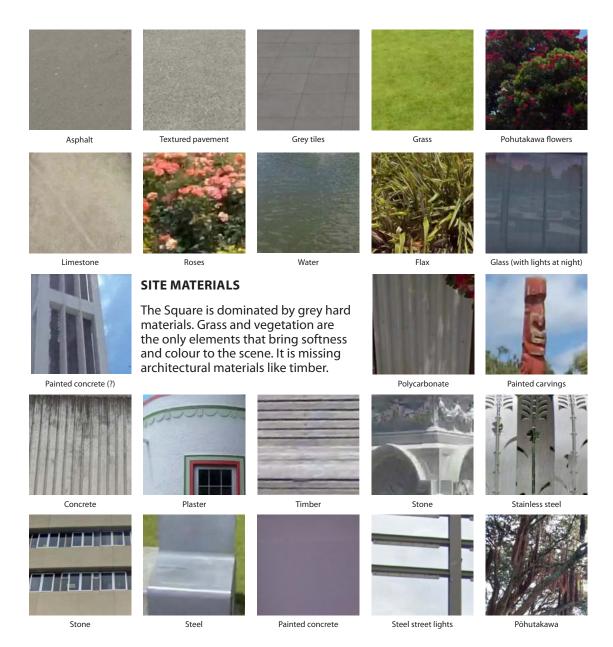
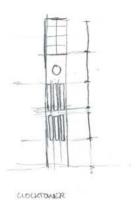
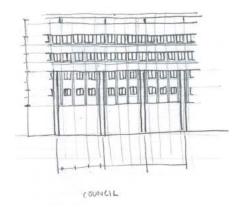
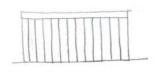


Fig 63: Site materials.







CLOCKTOWER BASE



COLONIAL SITE ELEMENTS

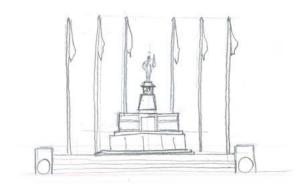




1-SITE TOILETS

Fig 64: Colonial elements dominate The Square. They are based on symmetry and order.







SITE VISIT EXPERIENCE AND REFLECTIONS

The following observations and ideas are based on site visits to The Square:

- Shelter could encourage people to use the site on rainy days.
- The Square has many mature trees that were carefully planted many years ago. While most are exotic, there are also some natives such as pōhutukawa that should be retained where possible or relocated.
- New architecture should work to reduce the dominance of the central colonial-style war memorial and clocktower.
- With knowledge about the meaning behind Te Marae o Hine, as a space for peace between all cultures, it feels sacred. Any architecture should appear to touch lightly on the ground to acknowledge the site's historic and cultural significance.
- New architecture should contrast the site's homogenous materials, forms and styles in a playful manner. This could include using colour, timber or curves.
- The park is empty at night, as is the rest of the city due to poor nightlife, resulting in an unsafe feeling.

CONCLUSION AND CRITICAL REFLECTION

City centres have been a fundamental part of cities since their very earliest formations. However, The Square is battling for attention in a time when considerable focus is placed on housing developments at the city's edges. The resulting urban sprawl and reluctance to transform The Square into a city centre that is relevant to today's population is ultimately causing The Square to lose its purpose.

The Square is currently an open space that is missing an opportunity to fulfil its role to be a "third place" (Oldenburg, 1999) for the city's diverse residents and fails to portray an identity that can improve the city's reputation. The Square requires a transformation that will bring people together by introducing programme that will attracts residents. Importantly, rather than lingering in the past, it should reflect Palmerston North's current diverse population.

A NOTE ON PARTICIPATORY DESIGN

Participatory processes had been planned, however, due to the timeframe of this project and COVID-19 restraints, focus groups with a variety of cultures could not go ahead. Recruiting participants was unsuccessful apart from the Pasifika community because there was a reluctance of the public to engage and the research did not have enough time to build trusting relationships with cultural communities to overcome ethical issues, particularly that the outcome of this research has no direct benefit to participants. It also became apparent that there is no clear process for cultural community engagement. This surfaced questions about how researchers, architects, and governing bodies can ensure there is equal participation when only a select few, or type of, people are proactively engaging.

The Pasifika focus group was helpful for reinforcing collective ideals that are important to Pasifika cultures. Some key findings include their value of performance, sharing food, sport and retaining strong social relationships. For the design of this project, spaces for gatherings where these activities can occur will be incorporated.

Big moves

This section explores how The Square can be improved by adopting programme.

Design goals	100
Connecting with cultural neighbourhoods	101
Primary programme for The Square	104
International market typologies	106
Market types	114
Expanding on programme	116
Sensorial and spatial qualities of programme	118
Ideal spatial relationships	120
Critical reflection	136

DESIGN GOALS

The design intentions of Figure 66 are identified opportunities in and around The Square.

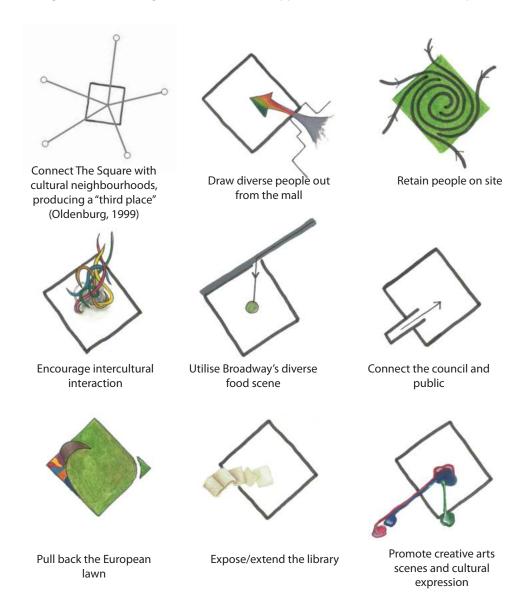


Fig 66: Design goals.

CONNECTING WITH CULTURAL NEIGHBOURHOODS

To address the first goal, connecting with cultural neighbourhoods, accessibility to The Square is important. Palmerston North is currently dominated by the use of cars, making up 76.8% of people's transport to work (Place Summaries - Palmerston North City, 2018), which negatively affects people's happiness (Taylor et al., 2006).

The Square could benefit from free public transport such as those identified in Figure 67, and well-connected cycle lanes. When connected to Palmerston North's neighbourhoods (Figure 68), residents can more easily access The Square amenities in and around the site. This could ultimately increase the city centre's use and vibrancy.



Community-painted buses: Community involvement in decorating buses could strengthen neighbourhood identity and allow others to learn about that community as the bus travels to The Square.



City bikes: Offer physical exercise that is beneficial for happiness, and is more sustainable than vehicular options. Palmerston North would require safer cycle lanes.



Train-style bus: Reference the city and The Square's history as a train route.



Sight-seeing bus: Encourage people to notice the city. However, these buses could seem too 'touristy' and not suitable for regular use.

Fig 67: Transport options.

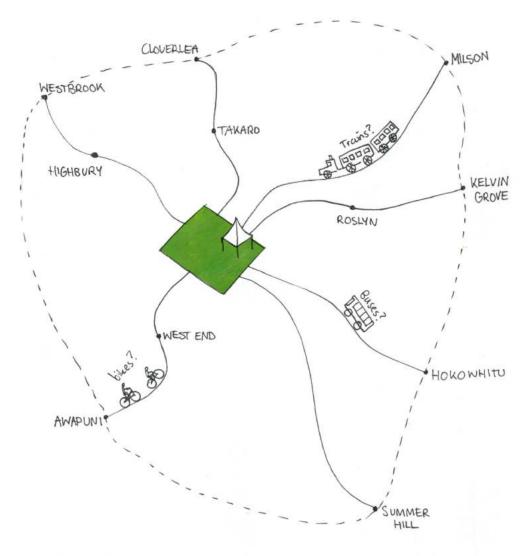


Fig 68: Connecting neighbourhoods to The Square.

Integrating more public transport creates opportunities for community-led projects during the design of bus stops, which celebrates neighbourhoods' identities. The result could be a spectacular display of unique expressions of culture throughout the entire city like the international bus stops in Figure 69. The scope of this project, however, is limited to the city centre. These transport ideas will not be explored as detailed designs, but connections to bus stops will be considered. This content is unavailable. Please consult the figure list for further details.

Fig 69: Unique bus stops that express identity.

PRIMARY PROGRAMME FOR THE SQUARE: A MARKET

The Square is to become a hub that invites people from all over the city. It is proposed that a The Square is to become a hub that invites people from all over the city. A market will form the primary programme because food is fundamental to many cultures and provides opportunities to taste new flavours. Currently, there is only one small weekly produce market in an eastern suburb. A central market will provide residents with easier access to culturally significant food as residents often struggle to find specific ingredients.

A theme of food also relates to Palmerston North's agricultural assets and to Māori legends that recall the region being named 'Te Taperenui o Whatongā', meaning 'the great district (or food basket) of Whātonga' (Māori History, 2019). Palmerston North's identity for food is currently not apparent in the city's architecture so a market can enhance the city's identity and ultimately its reputation.



INTERNATIONAL MARKET TYPOLOGIES

To understand the characteristics of markets that Palmerston North's diverse population are familiar with, the following images study typical market typologies from around the world (Figures 71 to 77).

The comparison between market typologies shows the following differences:

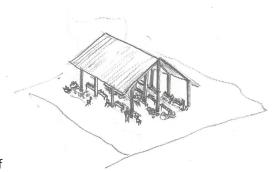
- Produce is displayed differently throughout the world, such as on the ground, in baskets, on tables, and hanging on walls. The Square's market should therefore provide flexibility for vendors to display items/produce how they prefer.
- International markets have a range of indoor and outdoor settings. The Square should include opportunities for both but should consider more shelter suit Palmerston North's climate.

Aspects which international markets have in common should be incorporated into The Square's market. These include:

- Lots of colour and texture. This adds visual interest and suits the human scale.
- Closely packed stalls which produce intimate settings.
- Stalls which sell unique local products, conveying the identity of place.
- A sense of temporality, where stalls can be totally removed or change vendor from one day to the next.

PASIFIKA:

- Open air
- Simple shelter
- Food on ground and tables
- · Chairs for vendors at each stall
- Meats and fish separated from the rest of the market



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Fig 71: Pasifika markets.

CHINA:

- Stalls on streets in front of shops
- Wet and dry markets
- · Linear form
- Food on tables



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Fig 72: Chinese markets.

INDIA

- Food on ground, on blankets or in baskets
- Vibrant colours of food
- Shelters made from tarpaulins



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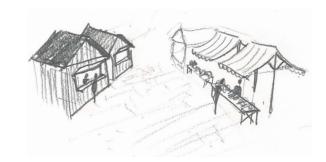
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Fig 73: Indian markets.

WESTERN EUROPE

- Linear form
- Temporary, using tents
- · Special markets for Christmas
- Food/items displayed on tables



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Fig 74: Western European markets.

EASTERN EUROPE

- Bazaars are common, and internal spaces are like alleyways
- Small, intimate and at the human scale
- Walls used to hang things



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Fig 75: Eastern European markets.

AFRICA

- In public open spaces amongst trees
- Food and items displayed on ground, crates and in baskets
- Temporary shelters constructed with blankets and parasols



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Fig 76: African markets.

SOUTH AMERICA

- A variety of market types, indoor and outdoor
- Shelters with umbrellas and light fabric for shade





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Fig 77: South American markets.

MARKET TYPES

As seen in images of international market typologies, market stalls can also range in scale and degree of permanence. The types of market depicted in Figure 78 could all be included in The Square.

Fig 78 (opposite): Matkets range in scale and permanence.



Permanent



Truck



Mobile/wearable







Container



Street canopy



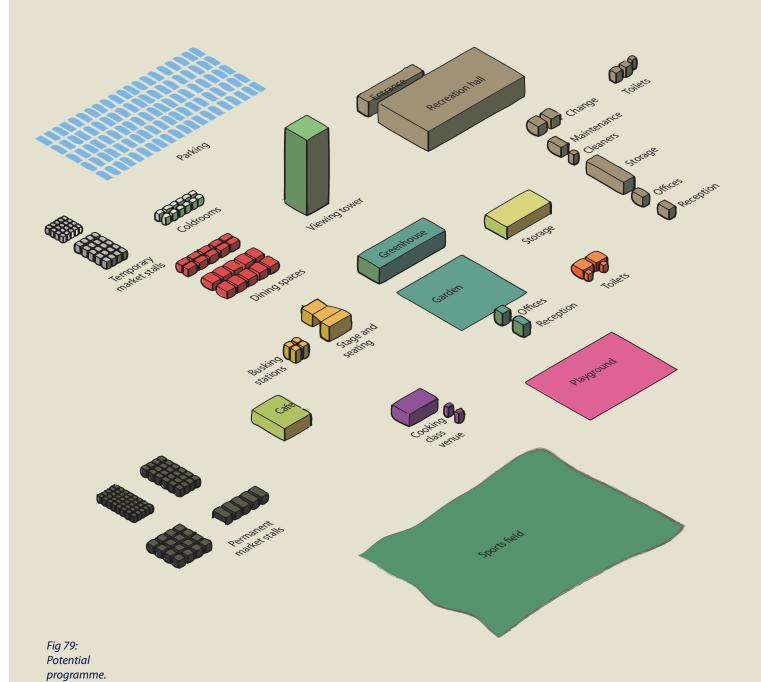




On ground

EXPANDING ON PROGRAMME

In addition to a market, a range of activities can help attract both collectivist and individualist cultures. Offering an "invitation" (Gehl, 2013b) can begin with programme. For example, Pasifika cultures enjoy gathering to watch a rugby game or performing traditional dances, so sports and performance spaces will appeal to them. Cross-programmatic techniques offer familiar and new activities, which could introduce people to important aspects of another culture too. Potential programmes, identified in Figure 79, are intended to attract diverse cultures and allow cultures to be celebrated in many ways (e.g. through food, sport, performance etc.).



SENSORIAL AND SPATIAL QUALITIES OF PROGRAMME

Before spatial arrangements are considered, ideal spatial qualities are investigated. As suggested by Rhys-Taylor, the greatest intercultural experiences are created through bodily senses (2013). The design of the market should engage all the senses. Figure 80 explores the senses and these are then related to the market's potential programme in Figure 81.

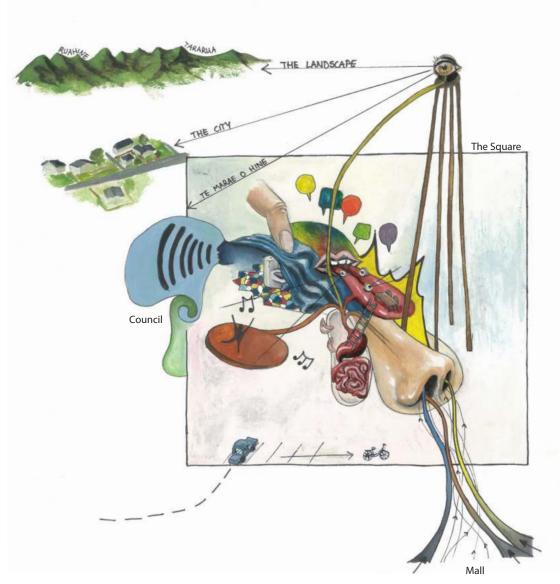
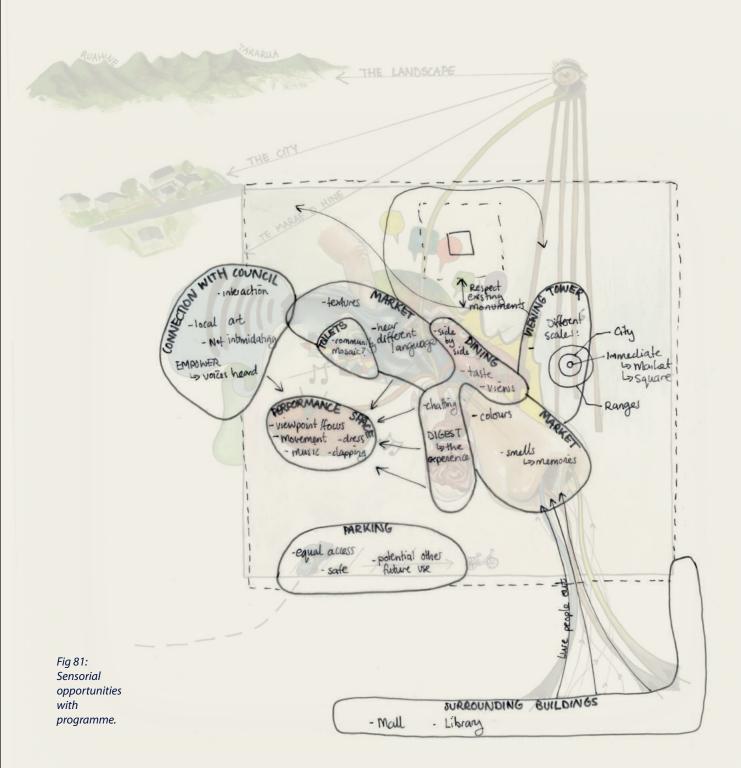


Fig 80: Visual exploration of the senses on The Square.

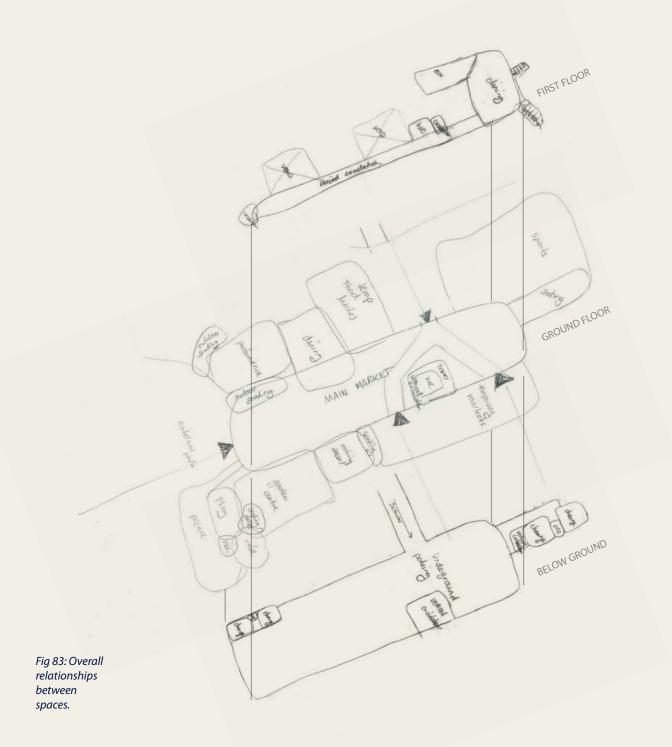


IDEAL SPATIAL RELATIONSHIPS

Figure 82 shows some isolated clusters of spaces that find the best spatial relationships. The bubble diagrams show that many spaces are ideally connected to the main market, so the main market should become the core of the building/urban space.

All spaces are linked together in Figure 83. While most programme is on the ground floor, there is potential for parking to be located underground. Dining spaces can be located on the first floor to create views into spaces below and out towards the surroundings.





With suitable internal spatial relationships in mind, Figure 84 explores how these are best connected to The Square's surroundings. It is found that the connection to the library, Broadway Avenue, bus stops, the mall and the council building are important for achieving the design goals. Areas for leisure such as picnic spaces and a playground should be well connected to the mall where shoppers can take a break and children can play. The market is expected appeal to the diverse population that visits the library and mall, so connecting paths will be important between these spaces.

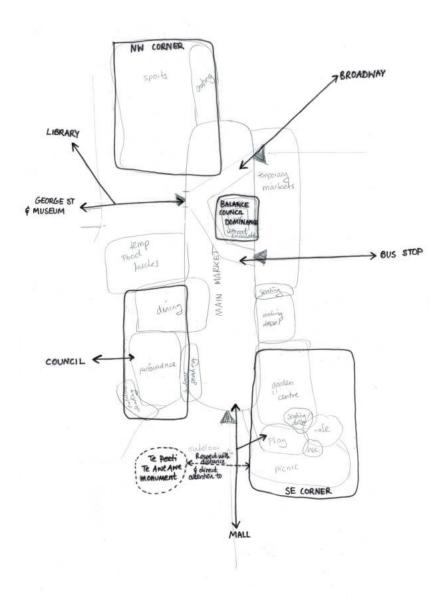
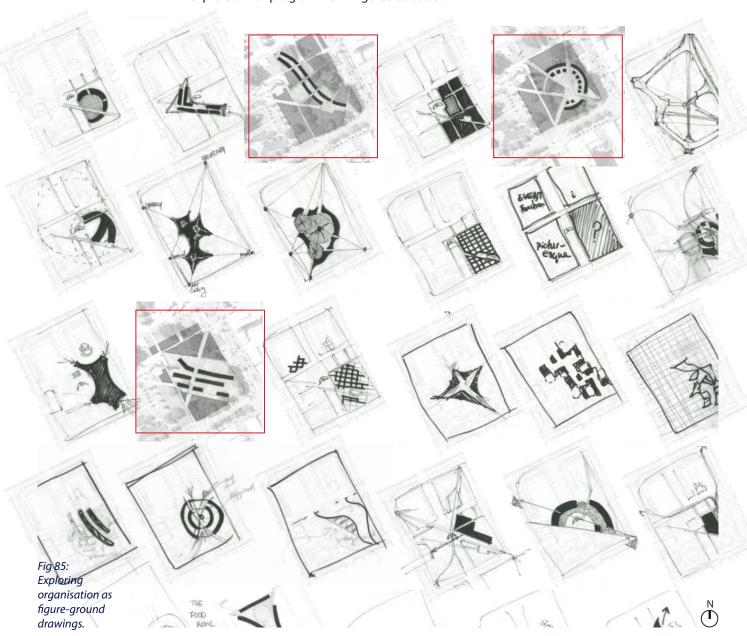
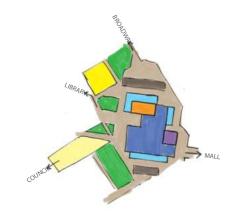
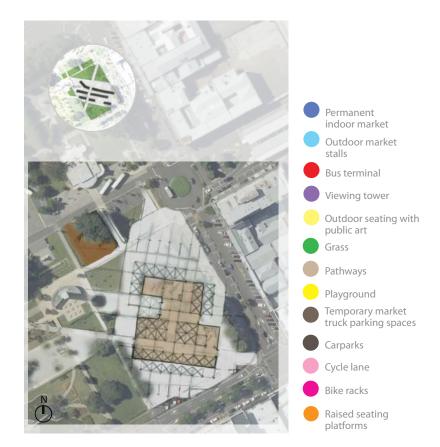


Fig 84: Programme relationships with context.

Figure-ground drawings explore the organisation of building parts on site (Figure 85). Concepts begin on The Square's southeast corner, which was identified as The Square's most underutilised area. Three concepts (in red boxes) which have very contrasting arrangements are explored with programme in Figures 86 to 88.

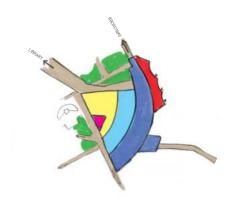






Curved spatial (Figures 86 and 88) positively contrast the city's grid and help deformalise The Square. A gridded layout (Figure 87) is unsuccessful because it reinforces the colonial city grid.

These iterations only focus on The Square's southeast corner, limiting potential connections with the council building and library, which were deemed important.



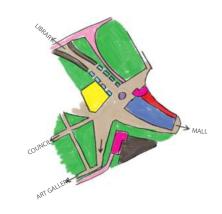






Fig 86: (opposite): Gridded arrangement

Fig 87 (left) Curved arrangement

Fig 88(right): Organic arrangement Programme should take over more of The Square (Figure 89). The arrangements at the site's centre, which link to the mall and library, utilise the site's opportunities more and address the design goals. However, it is difficult to design for the human experience in plan, so they are explored in three dimensions in Figures 90 to 97.



Fig 89 (this page and opposite):
Dispersing programme to engage with the site's edges.



Option one (Figures 90 and 91), successfully offsets the city grid through an organic form. The connection between the mall and library is clear, however, the connection to the council building could be improved.

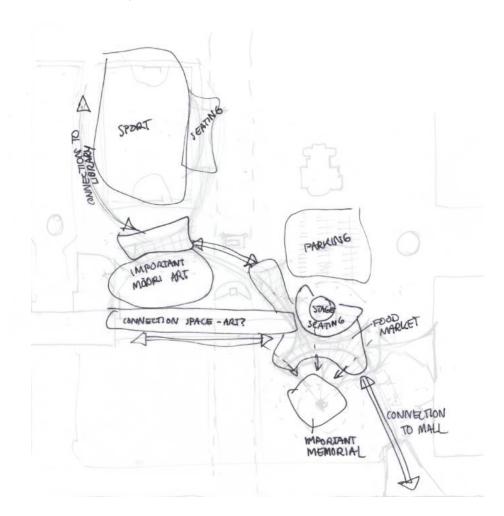
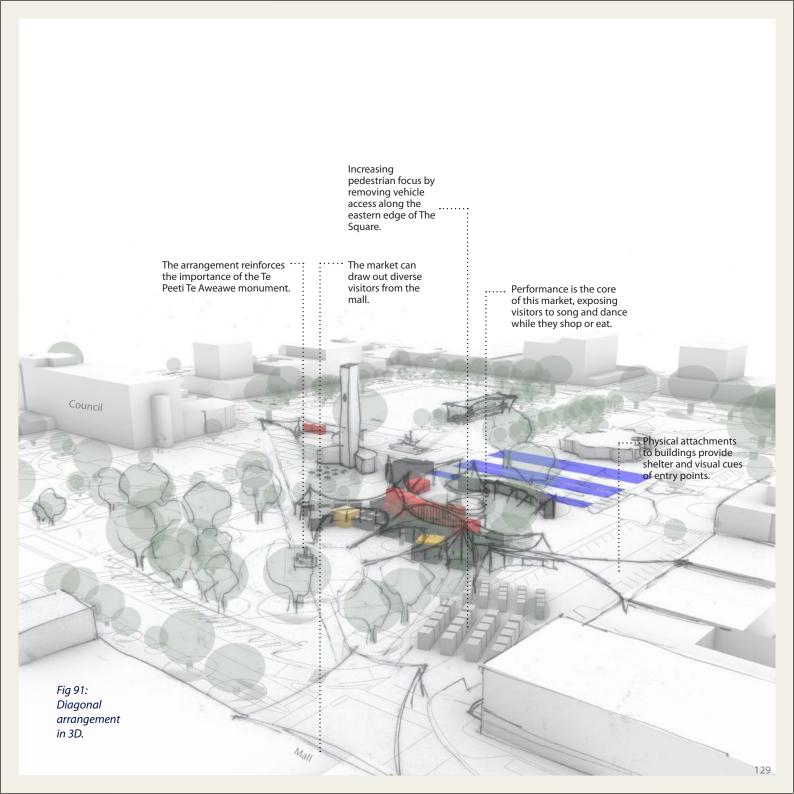


Fig 90: Diagonal arrangement, connecting the mall and library.



2. Option two (Figures 93 and 94) improves the potential connection with the council building. However, the linear form is conforming to the council building's rigidity, emphasising the council building's power. A performance space next to the council is a positive contrast, but could become more playful if it further 'took over' the council space.

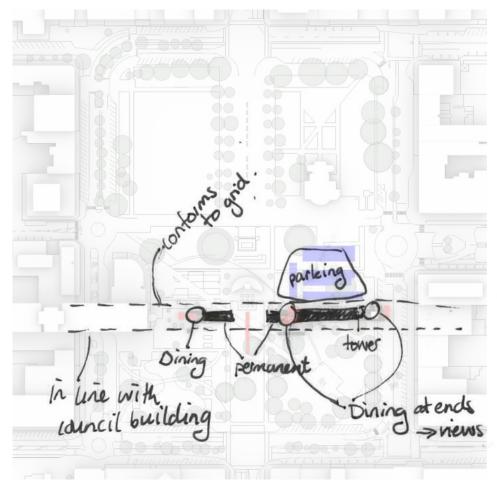
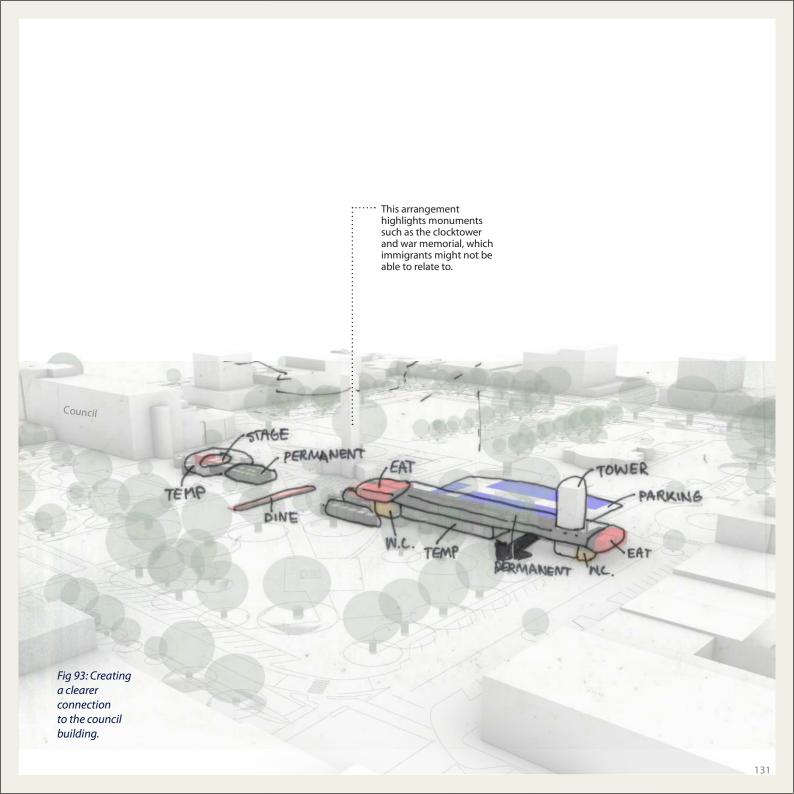
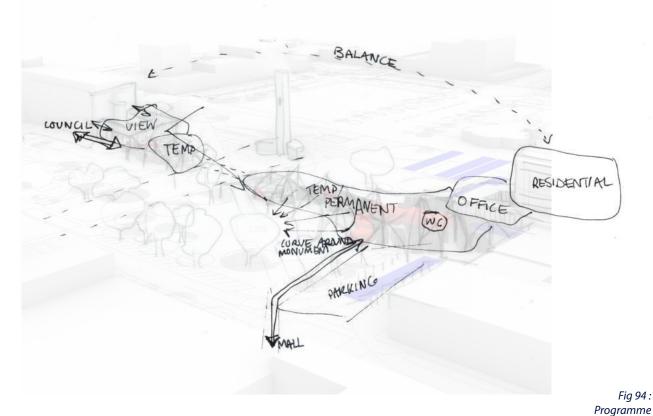
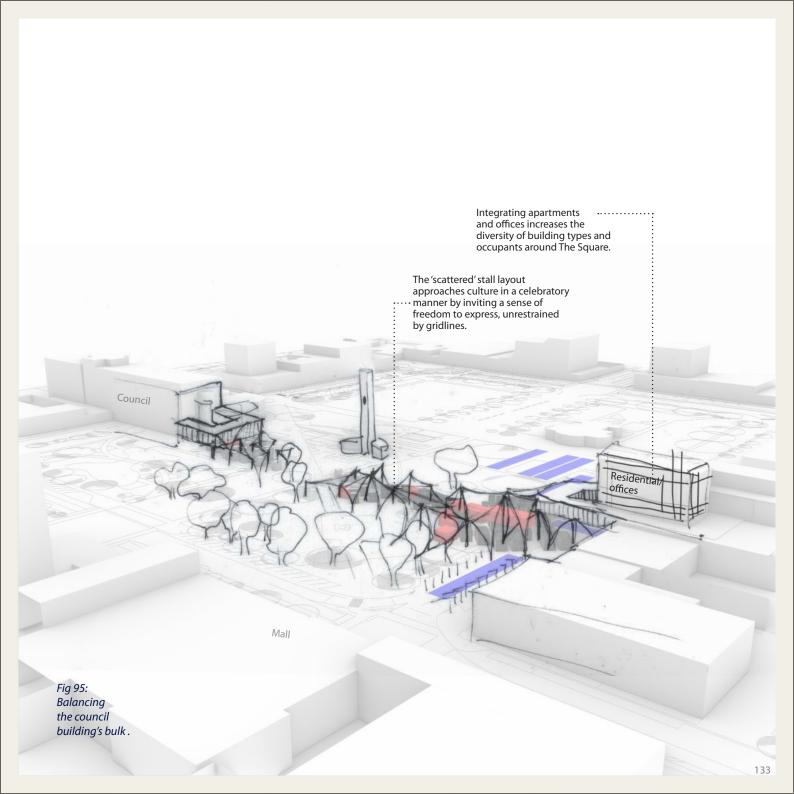


Fig 92: Aligning spaces with the council building.



3. Option 3 (Figures 94 and 95) attempts to balance the bulk of the council building by locating tall elements opposite The Square. However, the low-lying market at the site's centre becomes overpowered by the clocktower. Adding mass to the council building was unsuccessful; the viewing platform only increases the council building's bulk and dominance.





Option four (Figure 96 and 97) returns to an organic spatial arrangement and utilises height to balance the bulk of the council building. A combination of organic forms and placing programme more widely on site is more successful than the previous options.

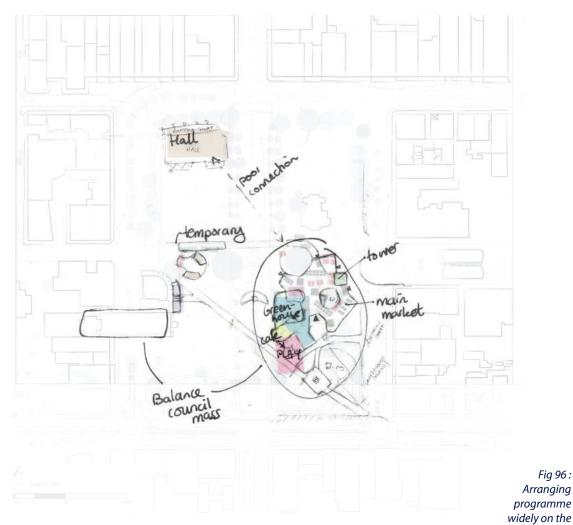
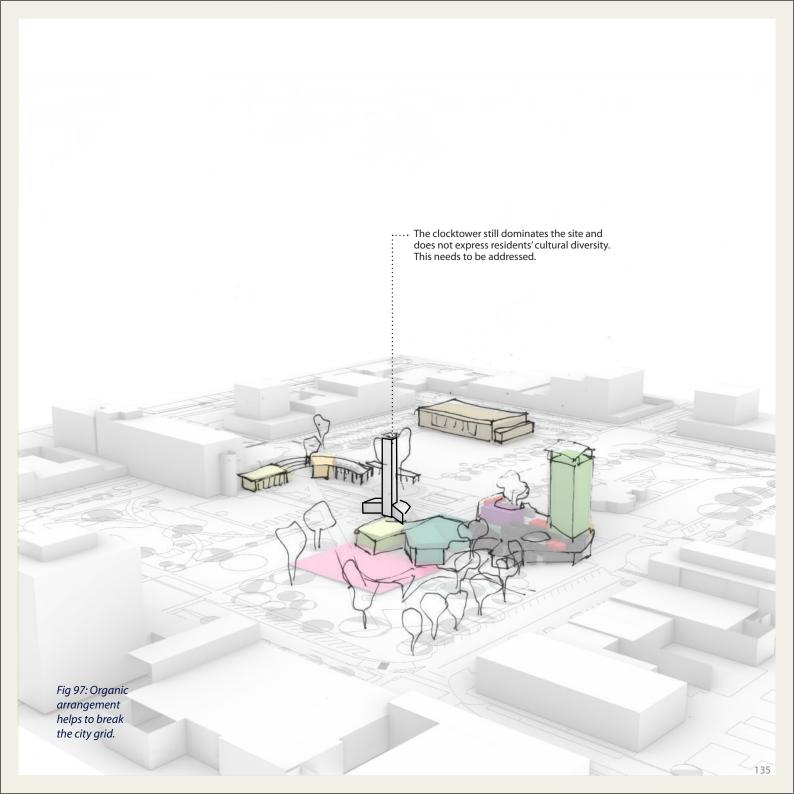


Fig 96:

site.



CRITICAL REFLECTION

A range of programme is required for a diverse population. A cross-programmatic approach includes the ability to stage unexpected interactions between spaces and people. While the food market is a common multicultural programme, the addition of other programmes such as a performance space, viewing tower and cooking class venue makes the architecture unique and specific to Palmerston North. Massing iterations have so far focused on the primary programme. The integration of additional programmes will need to be further explored.

The Square's central clocktower dominates the site, just like the council building. Future explorations should investigate how the impact of the clocktower's presence can be reduced. The war memorial is another central element that exhibits colonial order which many residents might not feel a connection with. Like the clocktower, the position of the memorial should be investigated.

Massing iterations predominantly focused on the southern half of The Square with the intention of keeping a connection with the mall. However, there is an opportunity to interact with the library more, which is a key place where residents can find a sense of belonging. The connection with the council building can also be enhanced, which is important for addressing the disconnect between the council and public.

After an appropriate spatial arrangement has been found, circulation and internal planning should be conducted in more detail.

Secondary moves

Clocktower explorations	138
Massing	147
Circulation and plans	156
Var memorial explorations	164

CLOCKTOWER EXPLORATIONS

The Square's central clocktower has become an icon that all Palmerston North residents are familiar with. However, it dominates The Square by towering over pedestrians, accentuating the ordered grid and the city's colonial origins, and it does not express the city's cultures (Figure 100).

Palmerston North is often known for and sometimes prided on being an easy-going city with a relaxed work-life balance where time does not rule. A clock, which is symbolic of pace, is not an accurate reflection of the lifestyle people live in Palmerston North.

A positive aspect of the clocktower is the wall of coloured lights that creates visual interest at night (Figure 98); this would be worth retaining.

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Fig 98 (left): Clocktower lights at night.

Fig 99 (right): The clocktower sticks out behind the duck pond.

Fig 100
(opposite): The
clocktower
forms a
symmetrical
backdrop
behind the
war memorial,
reinforcing the
grid.



Moved next to the mall

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Rotated

This content is unavailable.

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Replaced by structure

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Shrunken

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CLOCKTOWER IDEAS

These concepts imagine creative ways that the clocktower can be altered to reduce its dominance. They include options of removal, modification or retainment. Their integration with market concepts and massing is explored thereafter.

Fig 101 (this page and opposite): Alternative clocktower uses.

Totally removed

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Moved to the Council building



Replaced with art

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Wrapped to form a viewing tower

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Bent

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Turned into tower

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Moved next to the Council building



Partly removed

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Added viewing/dining deck

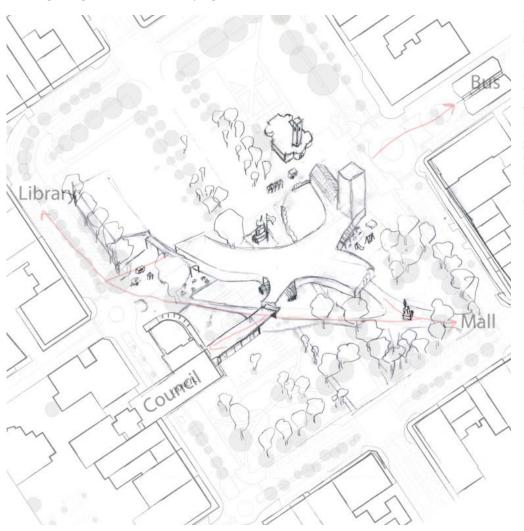
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Option 1: Removed

Removing the clocktower reduces the formal feel of The Square, possibly encouraging people to be themselves and supporting belonging. The central space to become occupied by the market and connect more easily to places of cultural diversity such as the library and mall. The market becomes the central expression of the city rather than the colonial clocktower.

However, the removal of the tall clocktower, which once helped to balance the council building's height, causes the low-lying market to become belittled.



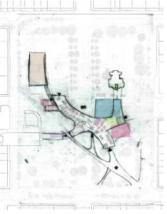


Fig 102 (left):
A potential
mass when the
clocktower is
removed.

Fig 103 (opposite): Spatial arrangement that overtakes the clocktower's location.

Option 2: Kept

By keeping the clocktower, The Square remains in its current state and this market concept is poorly connected to the site's surroundings (Figure 105). The city's sense of place is still defined by the formal colonial aesthetic of The Square and clocktower, demanding formal behaviour.





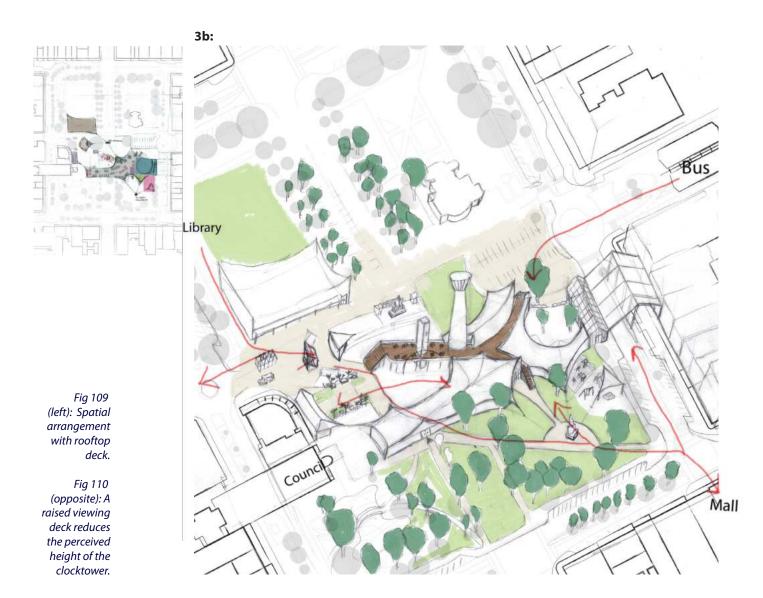
Fig 104 (left): Spatial arrangement is avoiding the site.

Fig 105 (right): The Square remains in its current state.

Option 3: Modified

The modification of the clocktower expresses a more inviting scene because the public can occupy the tower's structure as a viewing tower or as integrated in the market. (Figures 107 and 110). Retaining a tall element reduces the dominance of the council building but the central location still reinforces the city grid. If the tower is used to express cultures successfully, it could transform into a positive landmark that is visible via sightlines.





Clocktower Conclusion

Upon reflection, the clocktower either needs to be removed or modified. Design explorations showed that the clocktower is imposing a sense of power and dominance which avoids the human scale and does not express ideas of cultural diversity; keeping the clocktower is in conflict with the goals of the market. Whether to modify or remove the clocktower should be decided in further massing iterations.

RE-EVALUATING MASSING

With the option of modifying or removing the clocktower, the market can occupy and interact with more areas of the site. Figures 111 to 116 show that when massing is located at the site's centre, the connection with the council building and library is improved.

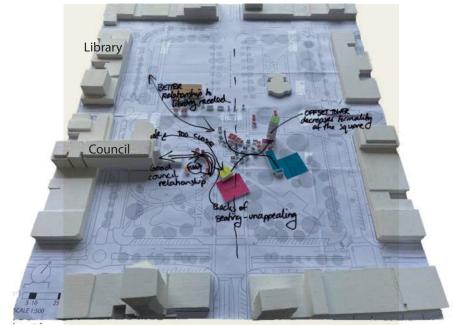


Fig 111

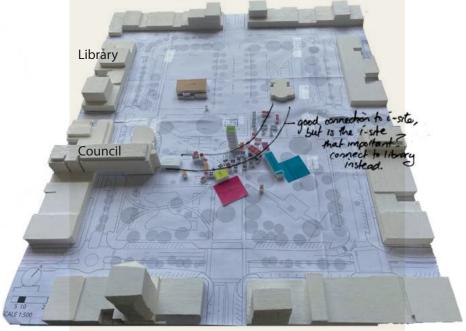


Fig 112

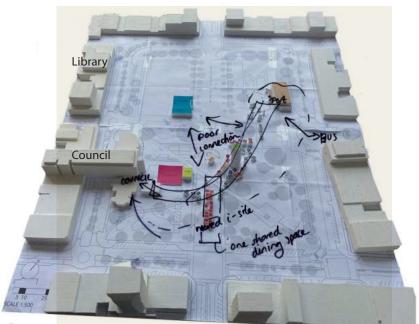
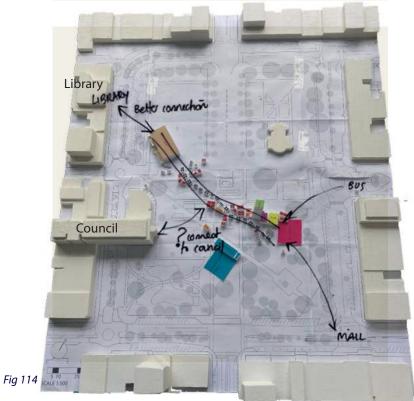
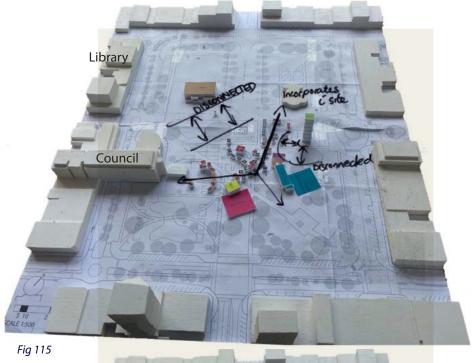


Fig 113



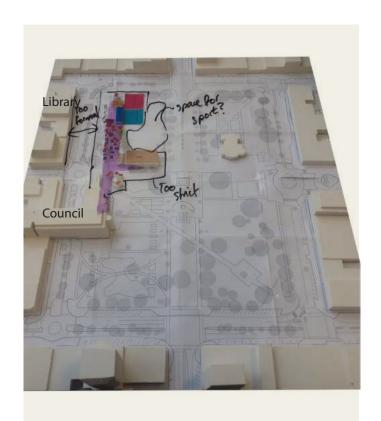


Council General daminant damant daman

Fig 116

Issue with scale:

Massing explorations on a physical site model have revealed that the proposed programme is relatively small compared to the site, and there are few vertical elements. This creates difficulties for connecting to multiple surrounding buildings it limits opportunities for a human-scale building. Rather than occupying the centre of The Square where the market is dwarfed by the surrounding empty space, it could benefit from occupying the northwest corner next to the library and council building.



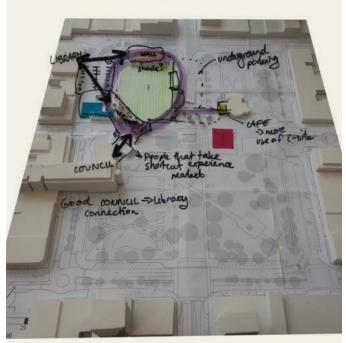
Council

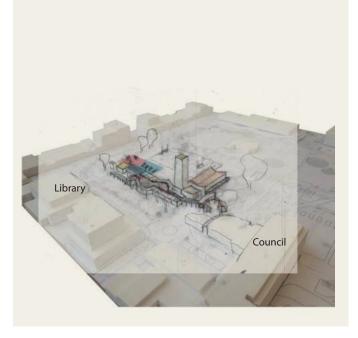
Massing on the Northwest Corner

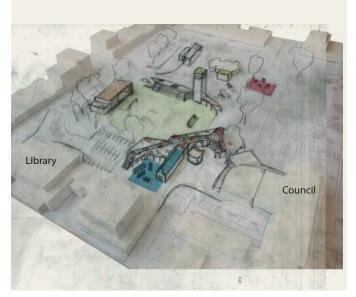
On the northwest corner (Figure 117), the market has a better relationship to the council and library buildings. Massing concepts that follow (Figures 118 to 120) explore massing digitally to evaluate proposed arrangements in greater detail than the physical model.

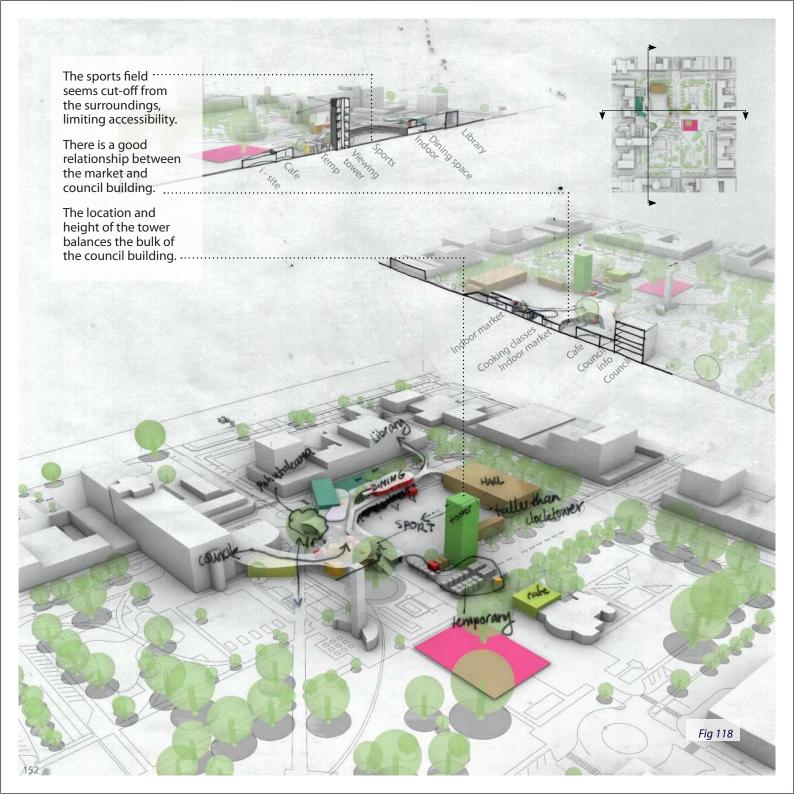
Fig 117 (This page and opposite): Massing next to the council building and library.

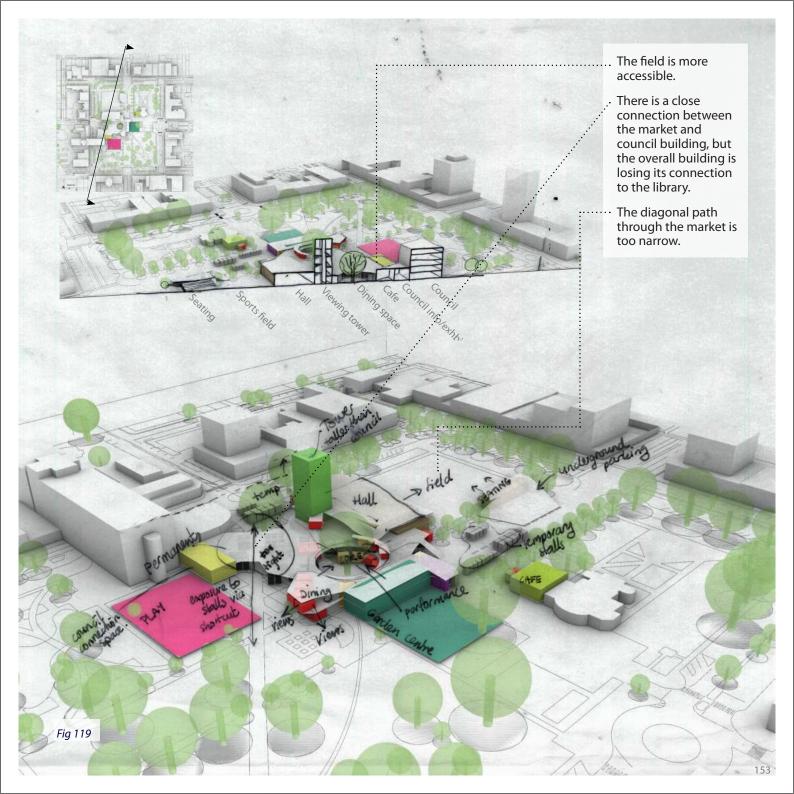


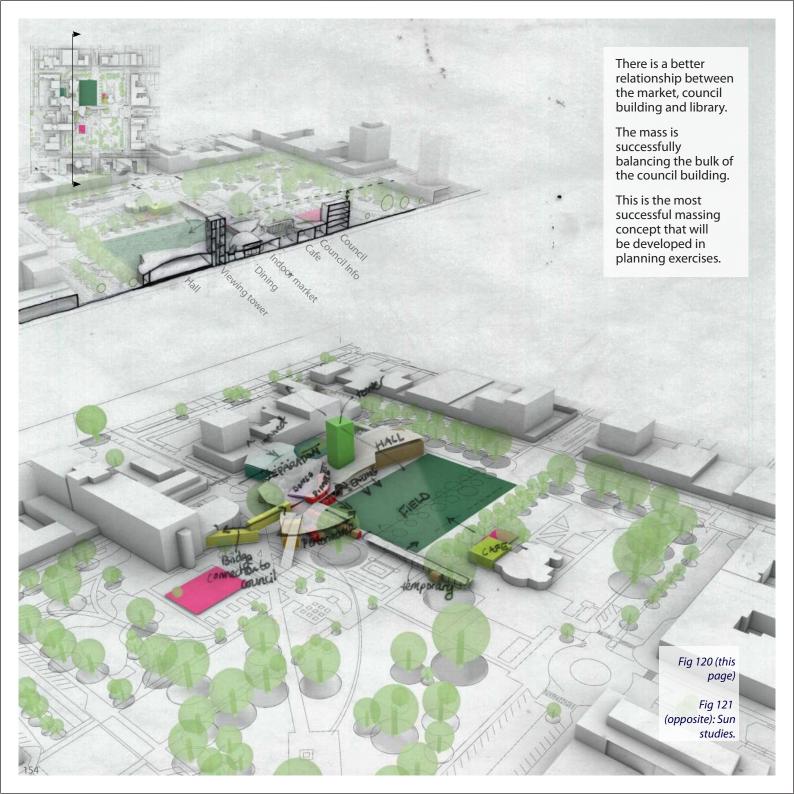






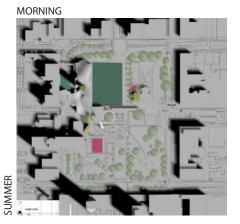






Sun Studies

The massing of Figure 120 is tested for shading at different times of the day and year. It is found that the tower creates some issues for shading, but no major alterations are required.







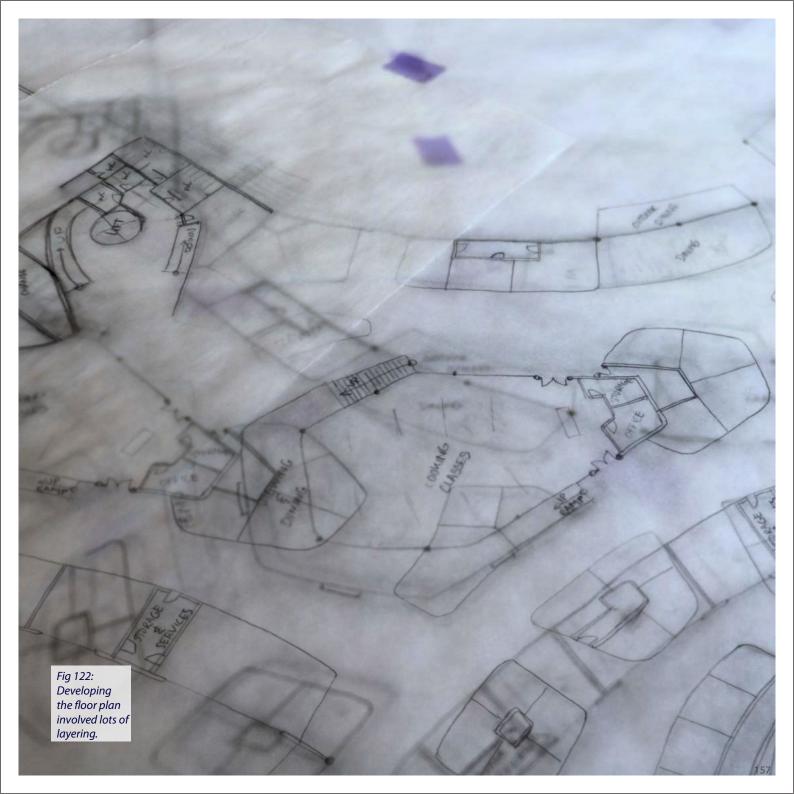


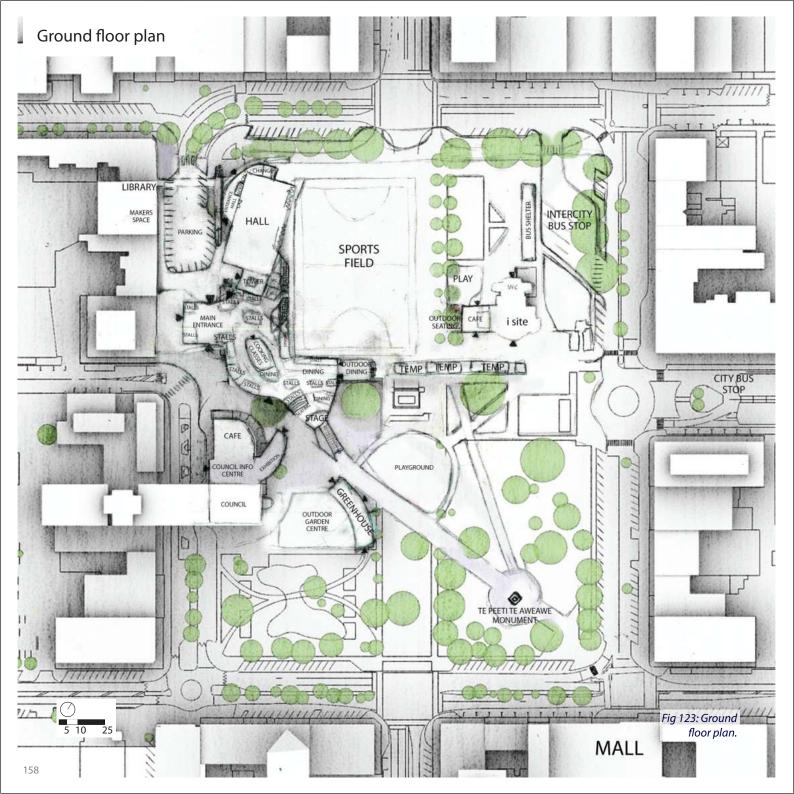


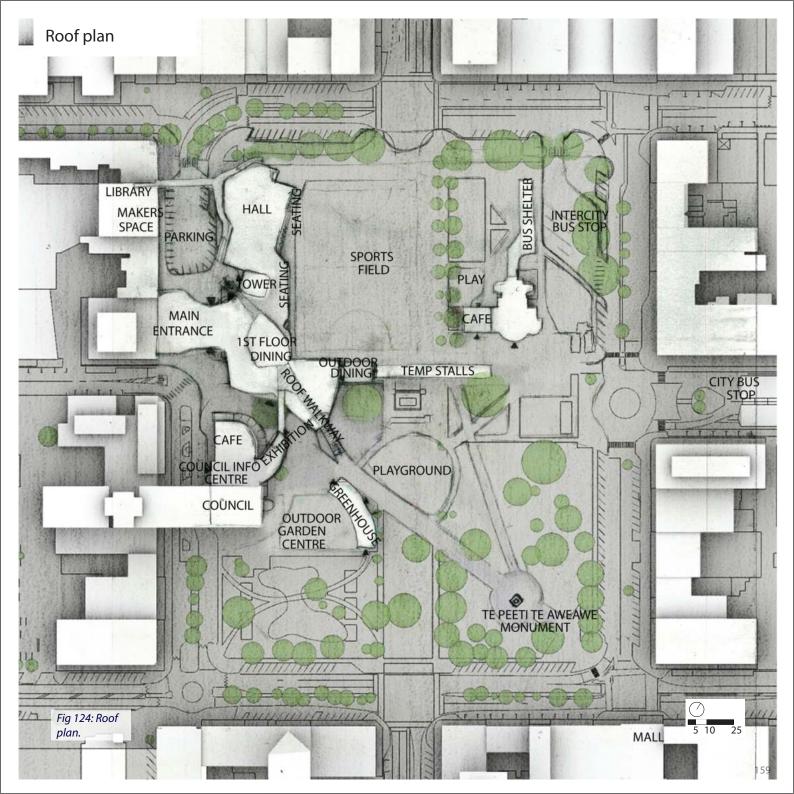


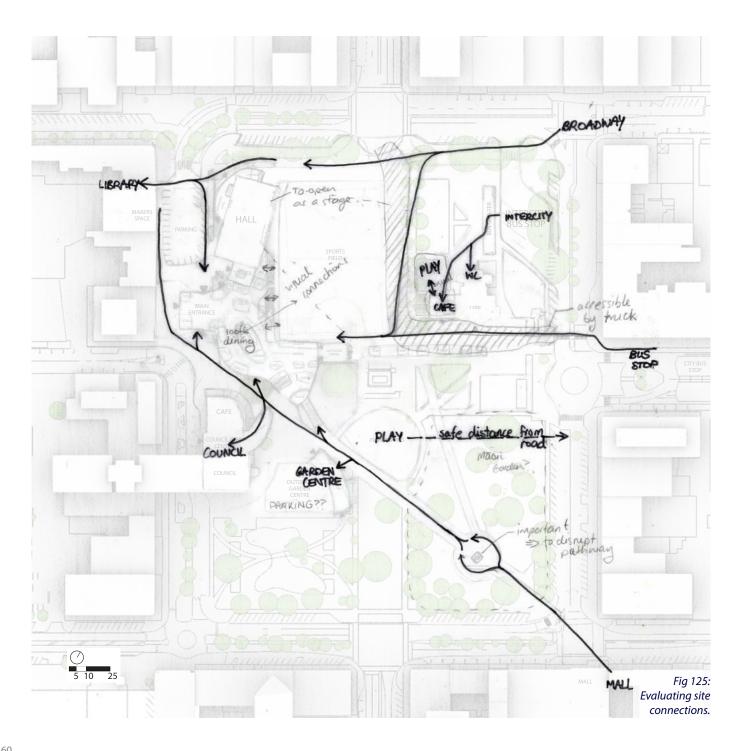
CIRCULATION AND PLANS

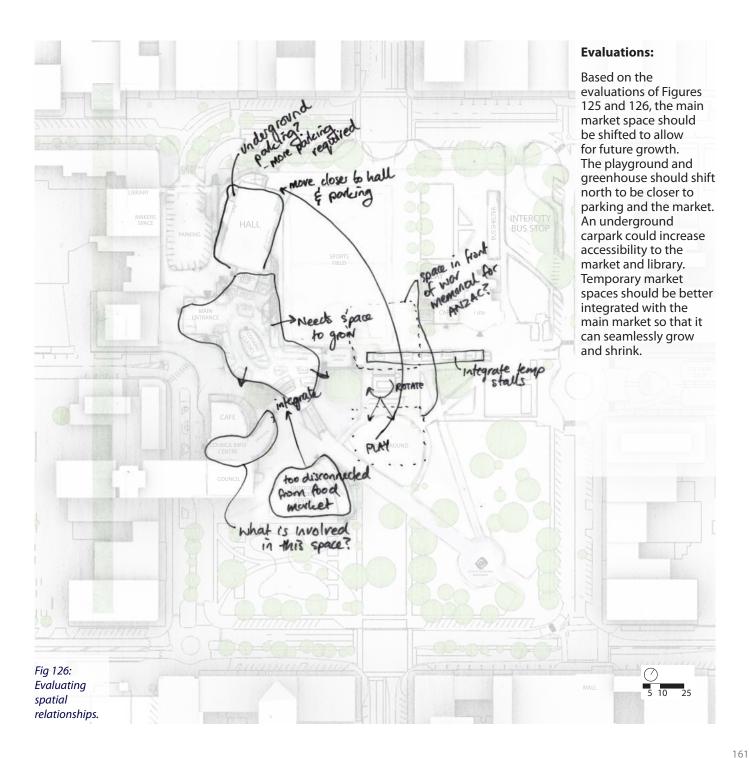
Masterplans and internal plans are developed based on the latest massing concept. The first edition of the masterplan is shown in Figures 123 and 124 and is evaluated in Figures 125 and 126.

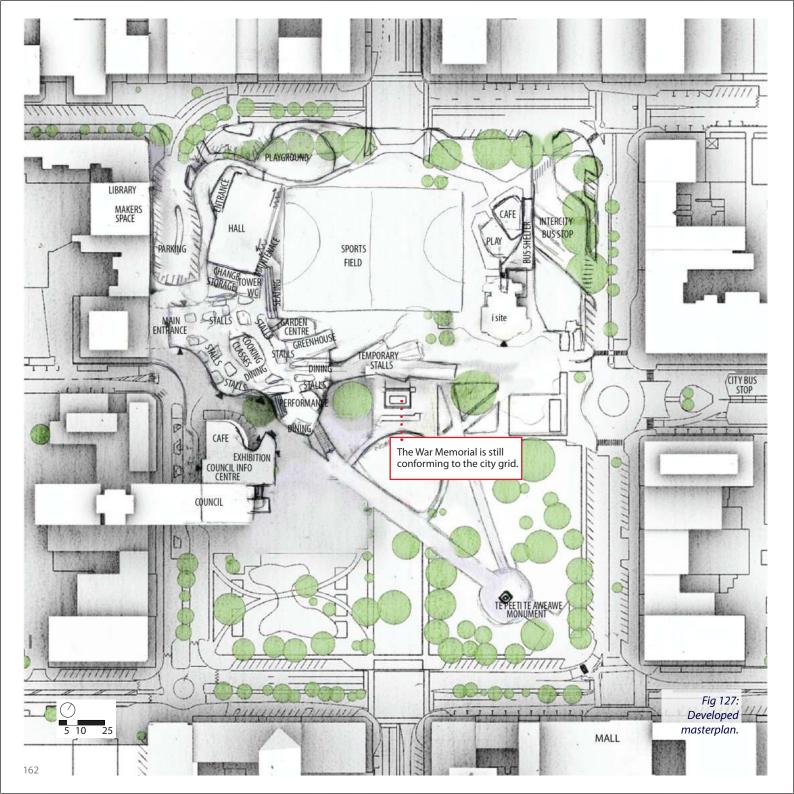


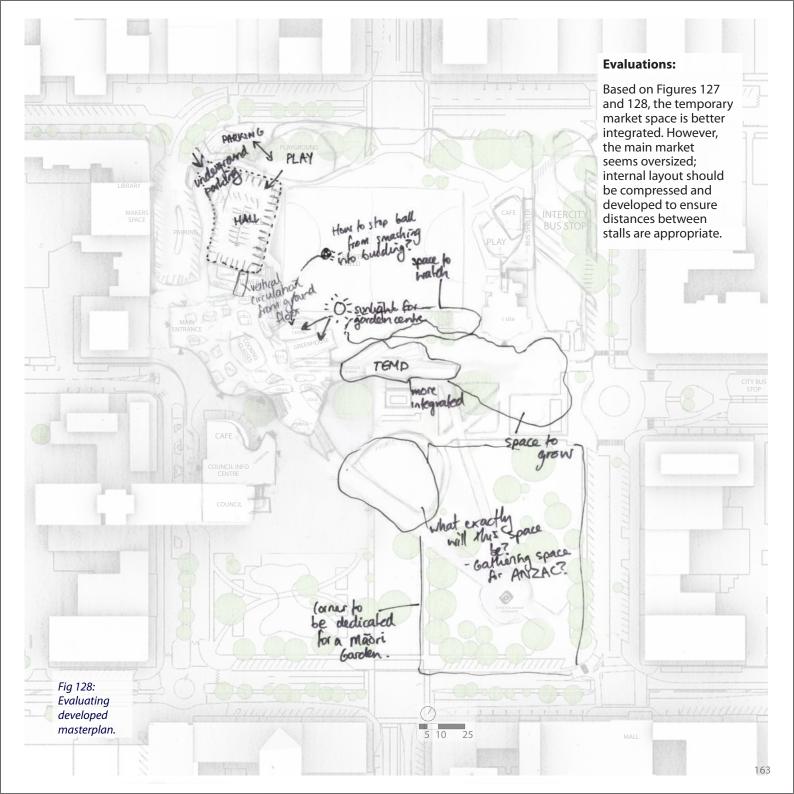












War Memorial Explorations

The war memorial is poorly integrated with the current concept. While the war memorial does not necessarily celebrate or represent Palmerston North, it remains important to New Zealand's history. It is used for ANZAC Day services and requires a gathering space in front of it. It should therefore remain on site but could be reorientated or moved (Figures 129 to 131).

It is found that shifting and rotating the monument successfully deformalises the surrounding space while remaining signified as an important element of the site.

Rotate

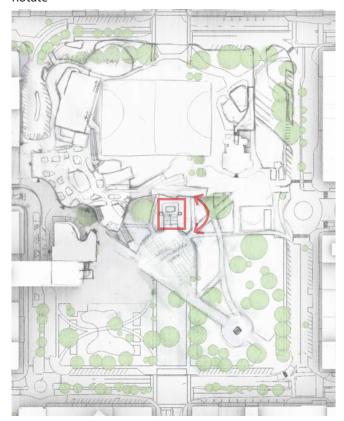


Fig 129: Rotated war memorial.

Shift



Fig 130: Shifted war memorial.

Shift and rotate



Fig 131: Shifted and rotated war memorial.

The open space in front of the war memorial could reintegrate the clock from the clocktower, which had been removed in previous concepts. Along with this, clocks from other parts of the world that tell the time of that place could create a gallery of clocks. The retention of the clock will appeal to generations of residents that recognise part of their city's identity in the clock but its treatment in the gallery achieves the transition towards a culturally inclusive space.

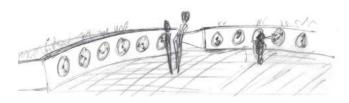


Fig 132: Gallery of clocks concept.

Internal Layouts and Circulation

Circulation is split into primary, secondary and tertiary paths and conforms to the building's shape (Figure 133). Distances between stalls are appropriate for creating personal and intimate social distances (Figure 134). The resultant internal layout (Figure 135) has a meandering stall arrangement that is not working. Existing market layouts should be analysed to inform stall arrangements.

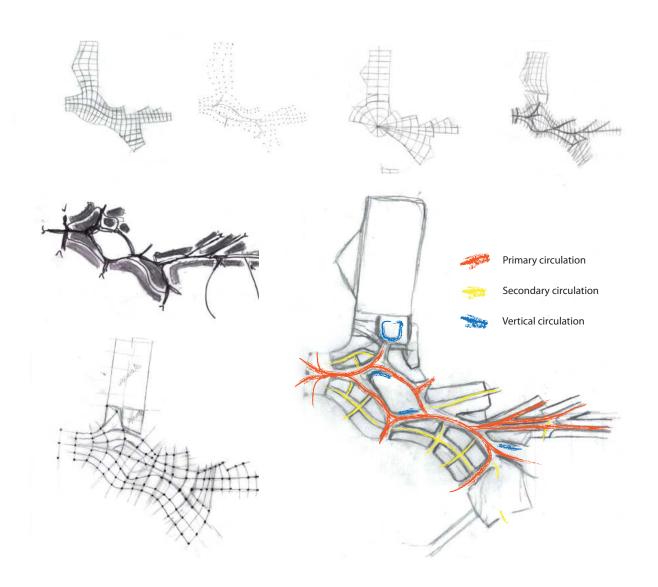
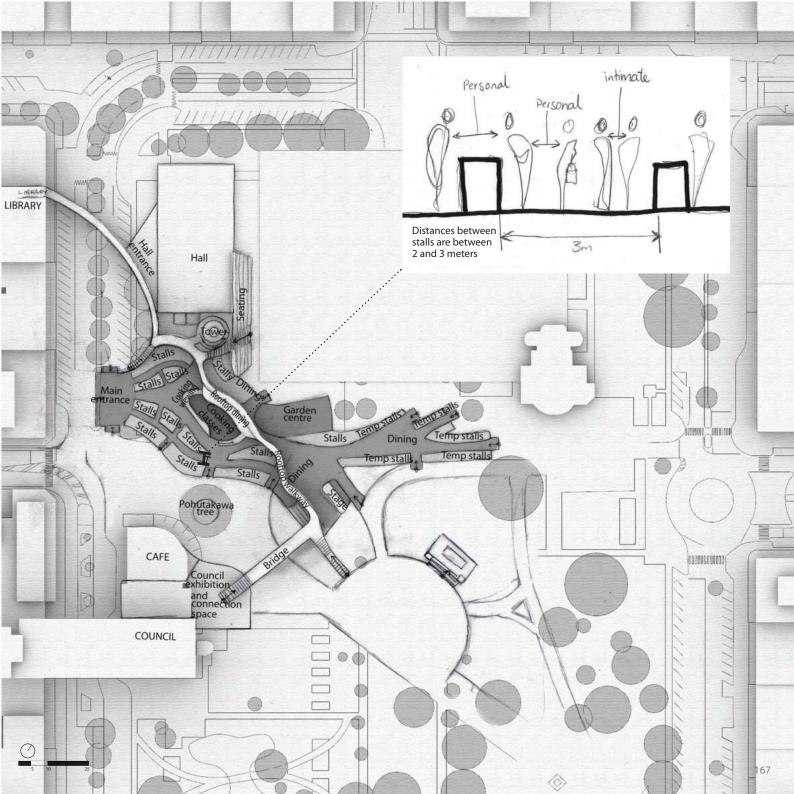


Fig 133 (this page): Circulation based on building shape.

Fig 134 (opposite top right): Evaluating social distances.

Fig 135 (opposite main image): Internal layout using circulation paths.

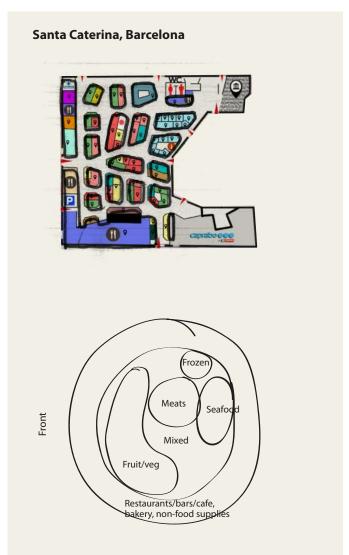


Common Market Layouts

Four indoor markets are analysed based on stall type and arrangement (Figures 136 to 139). Stalls tend to have a regular form. Meats and fish are often clustered together. Takeaway stalls and cafés are often located at the building's perimeter where outdoor dining spaces are near. Other stall types are randomly dispersed throughout the building. The overall building forms are simple.

Fig 136 (left): Santa Caterina layout.

Fig 137 (right): Riverside market layout.



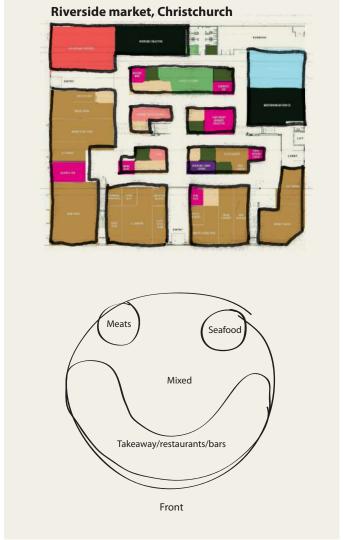
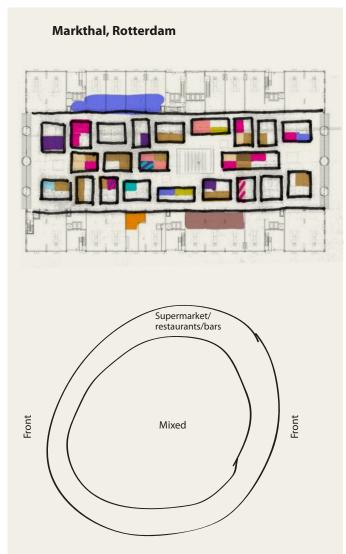
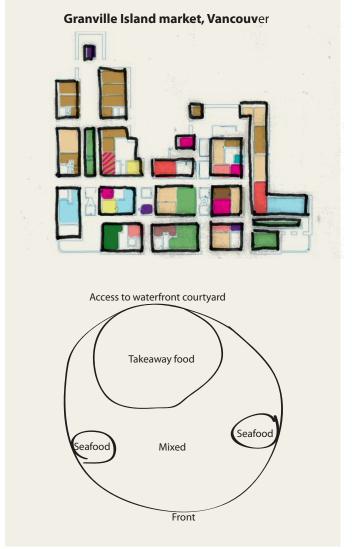


Fig 138 (left): Markthal layout

Fig 139 (right): Granville Island market layout.

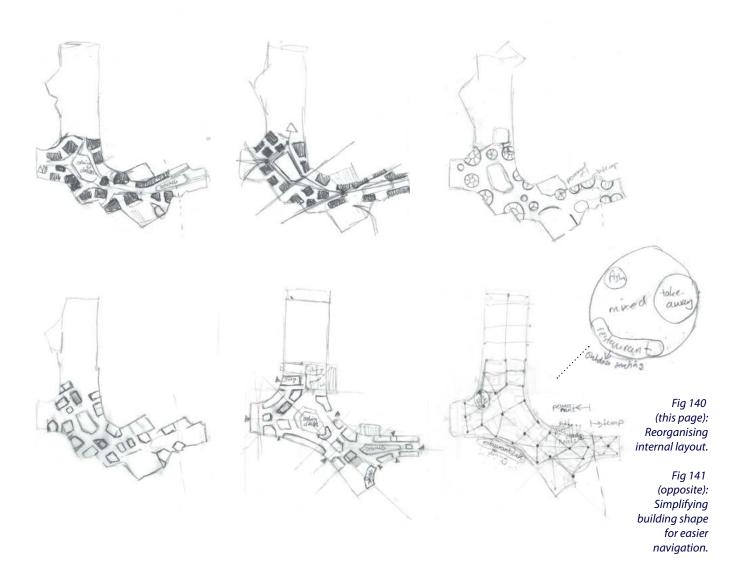


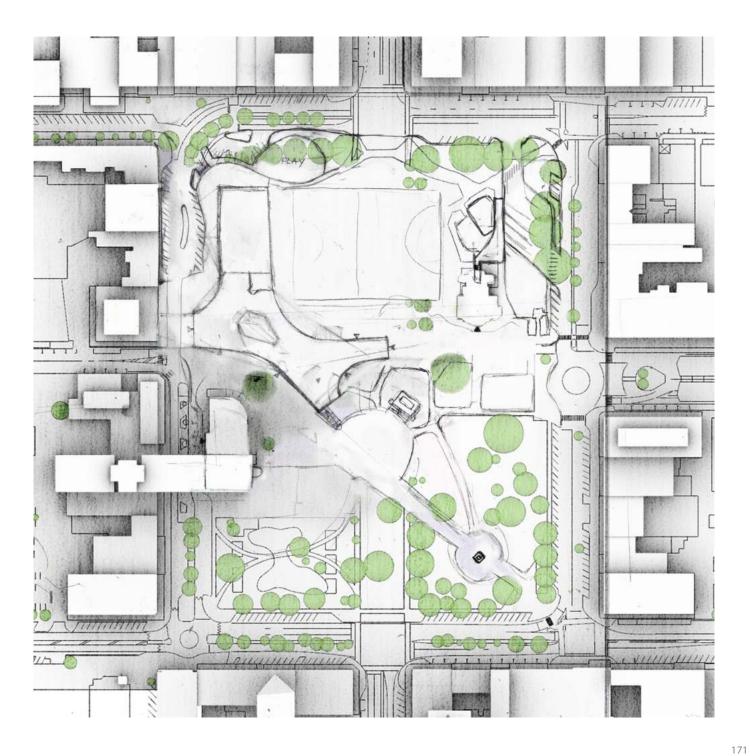




Re-evaluating Stall Layout

The existing design is adjusted using a more logical organisation of stalls that follows market trends (Figure 140). It is found that a simplified form (Figure 141) can achieve a more suitable internal plan.





Through layering plans (Figure 142), relationships between vertical spaces are examined. The building consists of an underground carpark, the main market and other facilities on the ground floor, and a roof-top space and viewing tower on the first floor. Plans are shown in further detail in Figures 143 to 146.

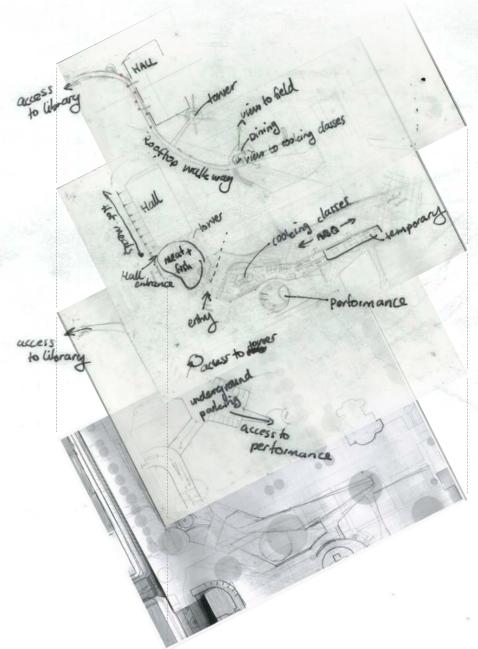
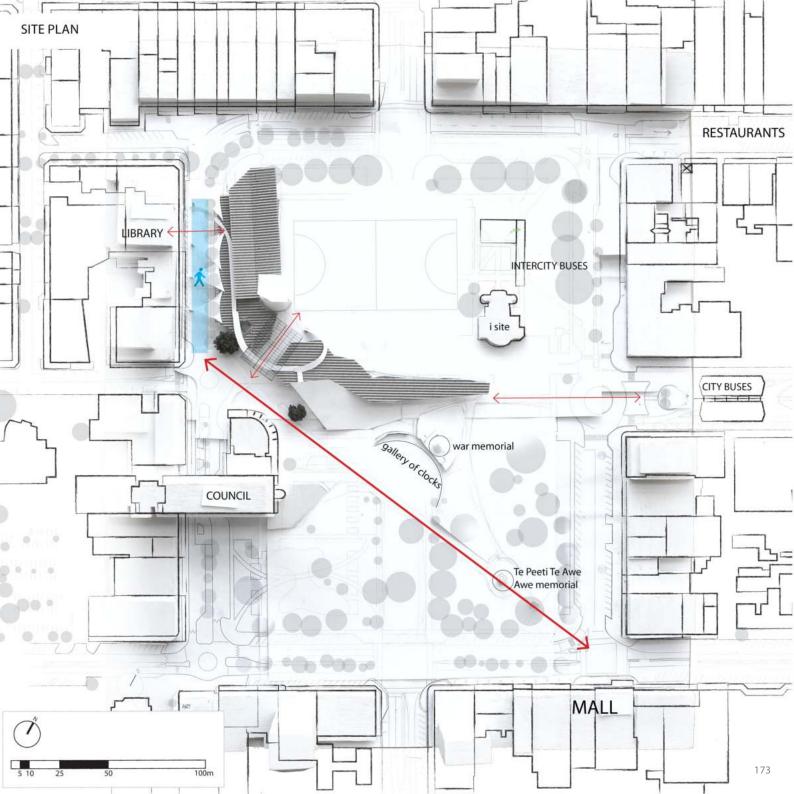
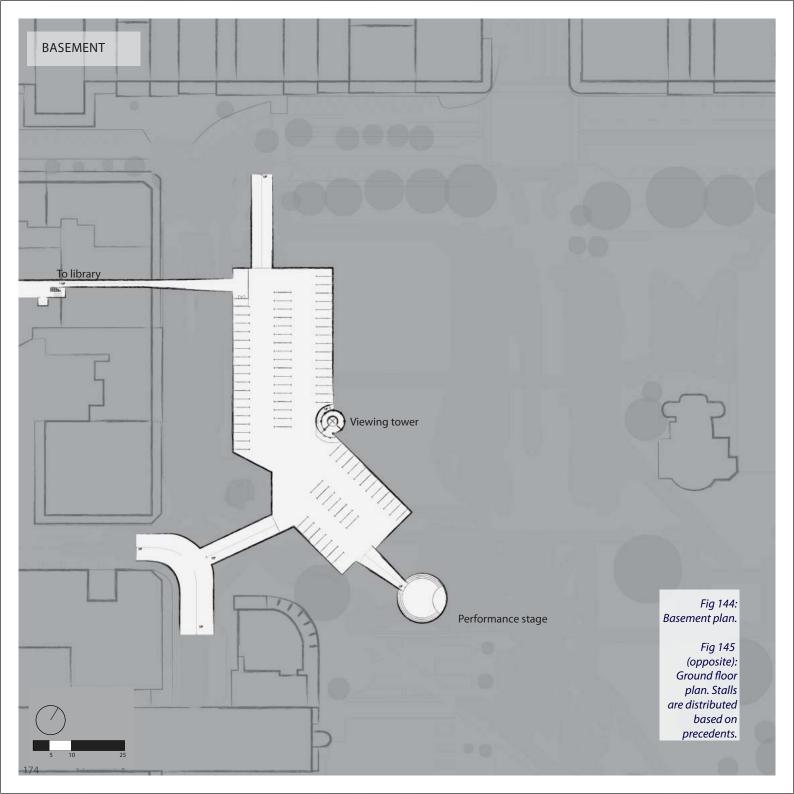
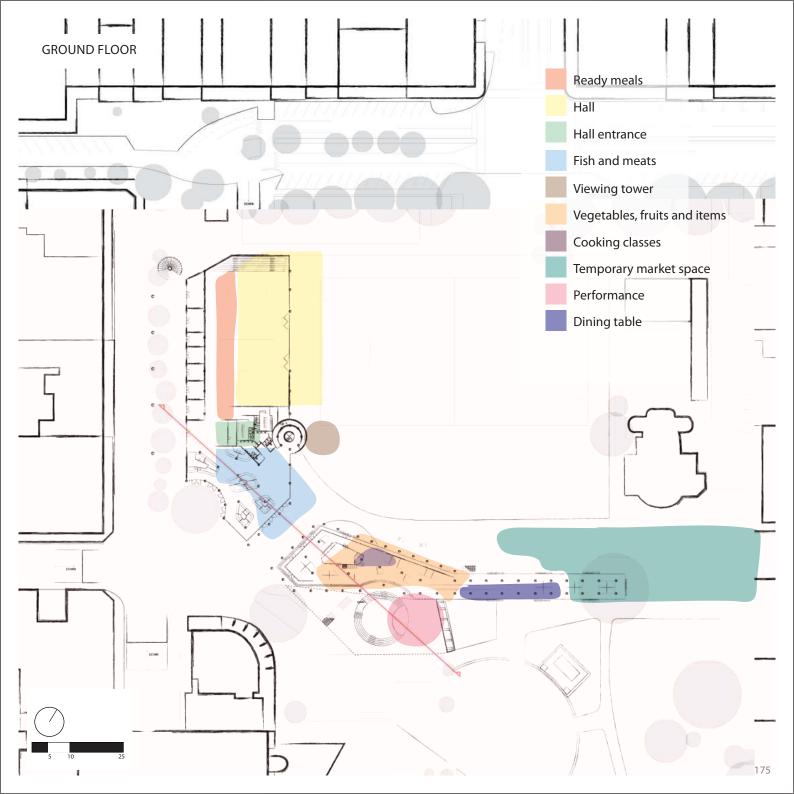


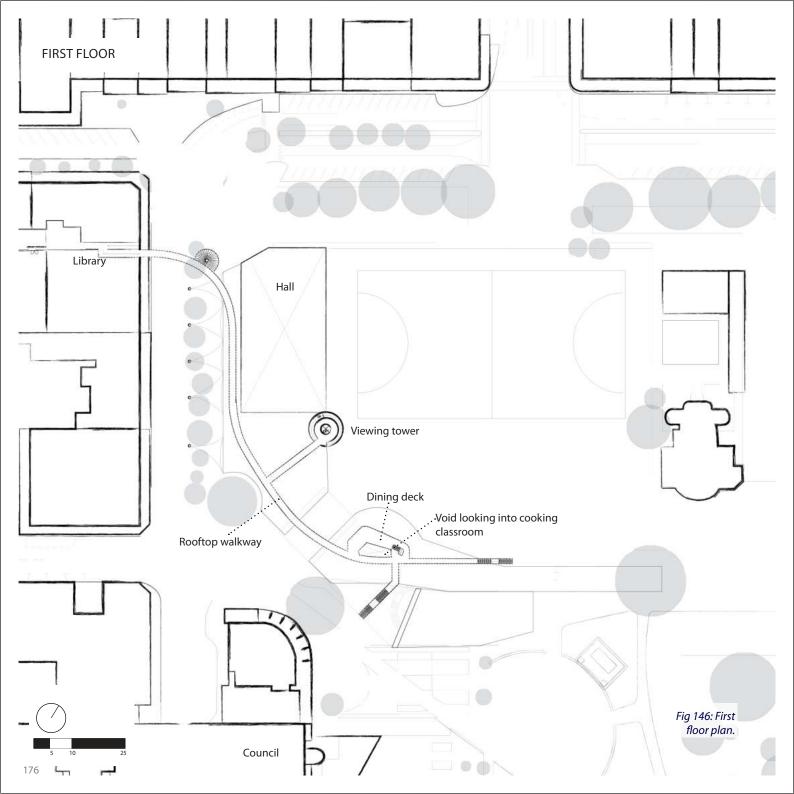
Fig 142: Stacked floor plans.

Fig 143 (opposite): Site plan.









CRITICAL REFLECTION

The Square is a clear example of architecture's inflexibility. This challenges its ability to adapt to shifting cultural contexts. While histories of place evident in colonial architecture can be an important for cities and their people, it becomes problematic when they hinder the expression of current cultures. As such, The Square's colonial elements were deemed to be moved or modified to let other cultures become more pronounced within The Square.

The option to remove or modify existing site elements allowed new architecture to become the focus of the space. The architecture no longer had to conform to the city grid. Connecting with multicultural spaces (the library) and improving the connection between the council building and public spaces ideally situated the market on the northwest corner of The Square.

Although parking is important to consider for Palmerston North, due to its high car-usage and rural surroundings, an underground carpark is destructive and environmentally unsustainable. There are many opportunities for parking in other areas around The Square, so the underground carpark will be removed.

A celebration of cultures cannot be achieved through programme alone. The architecture's form and materiality will have a significant impact on how the building is perceived and whether residents will feel welcomed or inspired to visit.

Approach to form

Humans, in basic terms, "seek shelter" (Knowles, 2006, p. 3). This section explores the market roof and its potential to become a landmark, connect to existing buildings and shelter a diverse space beneath. Three types of roof forms are tested, using inspiration from the market crate, the surrounding landscape and tent structures. They aim to express and celebrate Palmerston North's cultural diversity.

The market crate	180	
Reflecting the landscape	190	
The tent	206	



Fig 147: The three approaches to form.

THE MARKET CRATE

Market crates are iconic to produce markets all over New Zealand. The colourful selection of baskets reflects the vibrancy of fruit and vegetables and can exhibit symbolic ideas like protection and cradling.

Fig 148 (opposite): Typical market crates.



The market crate is first modelled as parts (Figure 149). These can be arranged to form walls, arches, windows and fences. Market crate colours are reintroduced in Figure 150 to form a variety of coloured walls with perforations. Using a combination of these forms at different scales, the parts are put together (Figure 151) and visualised as occupiable space (Figure 151).

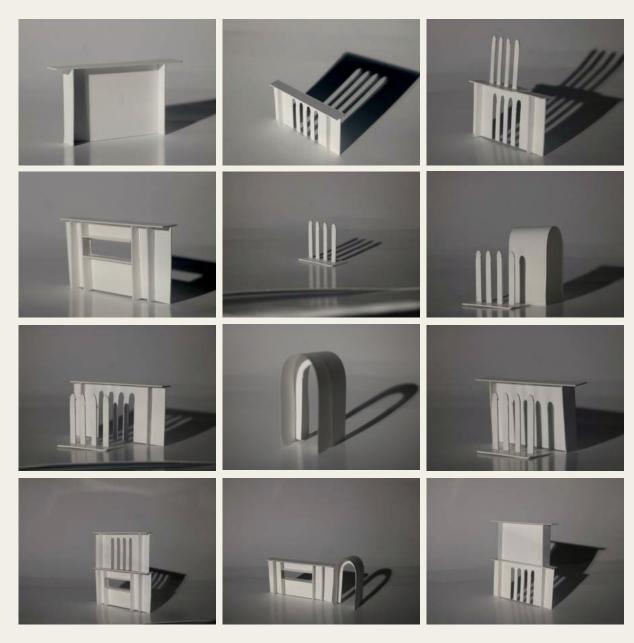




Fig 149 (opposite): Parts of a market crate modelled.

Fig 150: Walls in typical market crate colours.





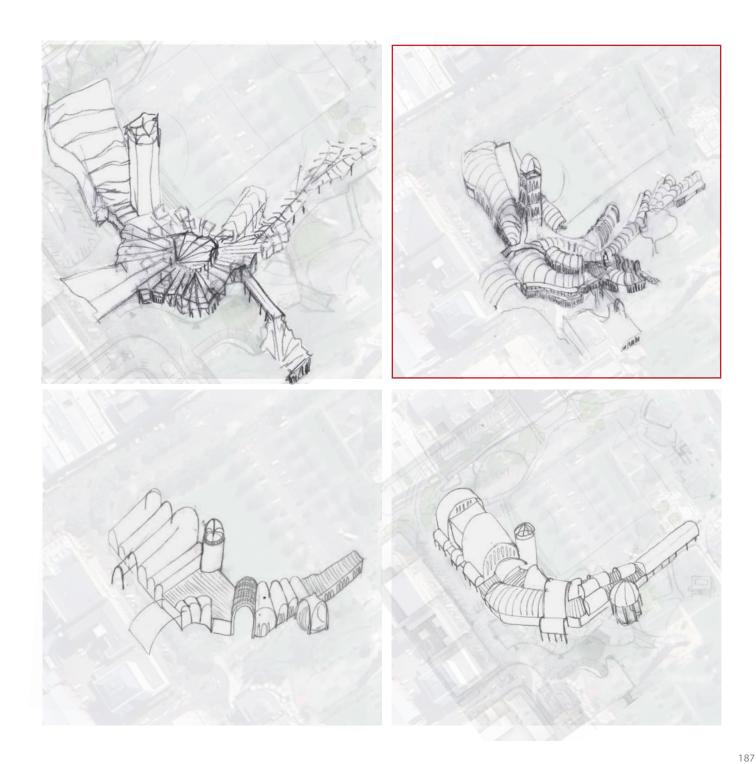


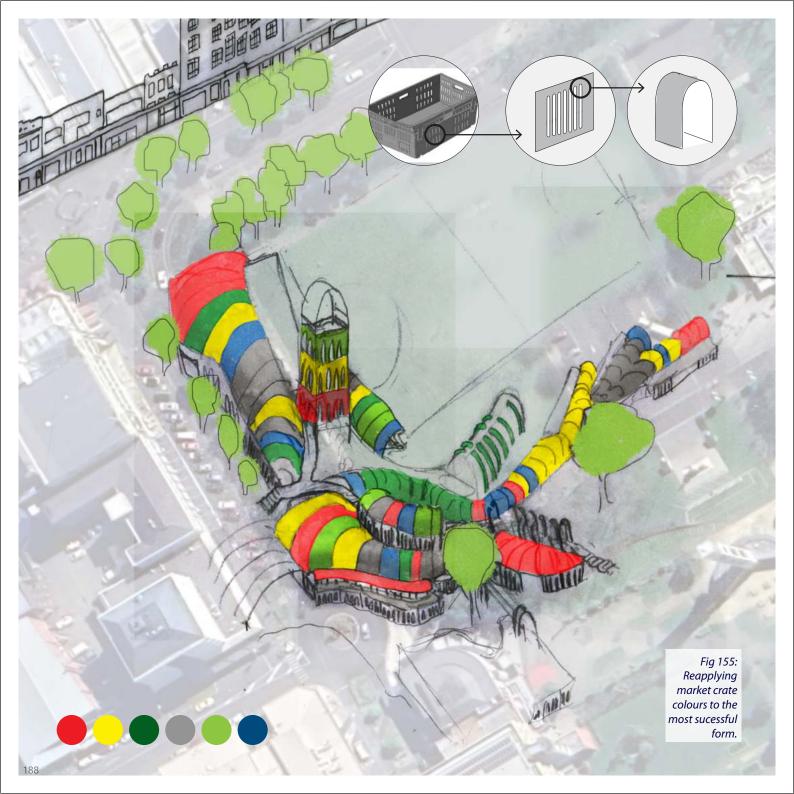
Fig 151: Combining crate elements.



While the occupiable spaces are colourful and create intimate nooks, their roof forms are uninteresting. This hinders the form's potential to become a landmark visible from a distance (Figure 153). The concepts in Figure 154 aim to create a more interesting roof form using the arched elements present in market crates. In combination with the original colour palette (Figure 155), this creates a much more eye-catching and exciting architecture. With the addition of rooftop spaces and the viewing tower, the roof's arches can be experienced up close.







Reflection:

Market crate explorations have colourful and vibrant forms. They are new and unfamiliar to Palmerston North's context, providing a positive contrast to The Square's colonial architecture. A play with scale and arched elements has been successful at creating hierarchy between spaces and eye-catching roof forms.

However, the degree to which forms have been abstracted could make the concept unrecognisable to the public. There is a danger of the market seeming too closed-off and vertical perforations looking like prison bars. The transition between indoor and outdoor spaces would therefore need development.

REFLECTING THE LANDSCAPE

The Ruahine and Tararua Ranges and agricultural land surrounds Palmerston North. The Ranges provide a visual reference from within the city, but the natural and agricultural landscape could be better portrayed in Palmerston North's built environment.

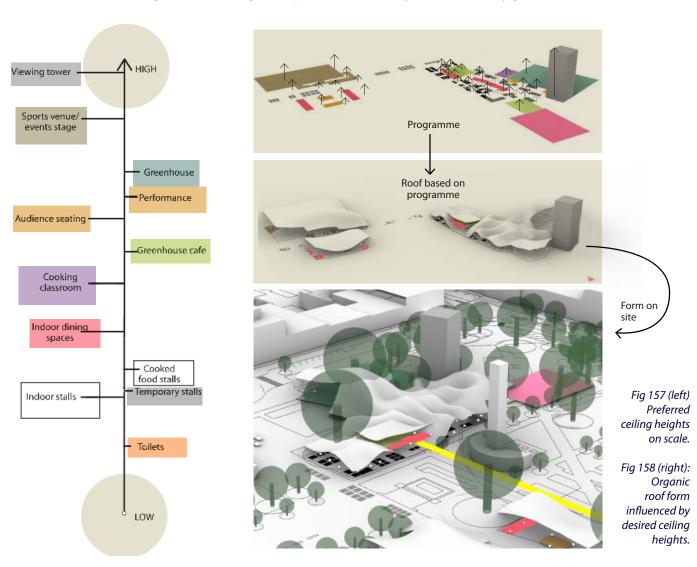
This section explores how an organic form can contrast the current city grid and redefine a relationship between the city and natural environment.



Fig 156: The Tararua Ranges viewed from Palmerston North.

The first organic roof concept is based on desired indoor ceiling heights (Figure 158). Intimate spaces can be created where ceilings are low, and spaces with a feeling that there is room to breathe occur where ceilings are high. When applied to a concept of programme, the resultant roof form is reflective of an organic landscape nestled amongst trees (Figure 157).

The form can further connect to surrounding buildings and multiple panels can produce a more dynamic roof with various levels (Figure 159). It is organic in plan and successfully contrasts the city grid.





The connection with the landscape can be enhanced when the ground becomes part of the roof itself (Figures 160 and 161). This allows users to occupy the market in multiple ways and a sense of fluidity is expressed. The form gently lifts up to shelter occupied spaces beneath (Figure 162) and is instantly recognisable when viewed from side streets due to the form's contrast to regular buildings (Figure 163).

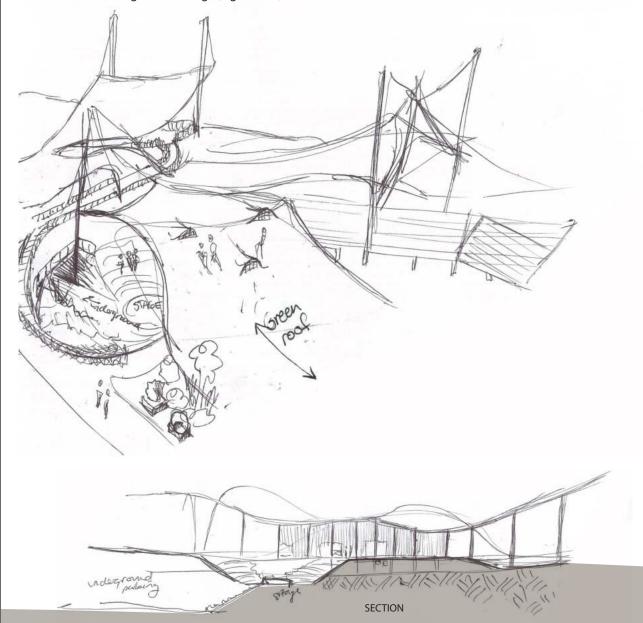


Fig 160: Sketches of a green roof in perspective and section.

Fig 161 (opposite): An organic form with a green roof on site.



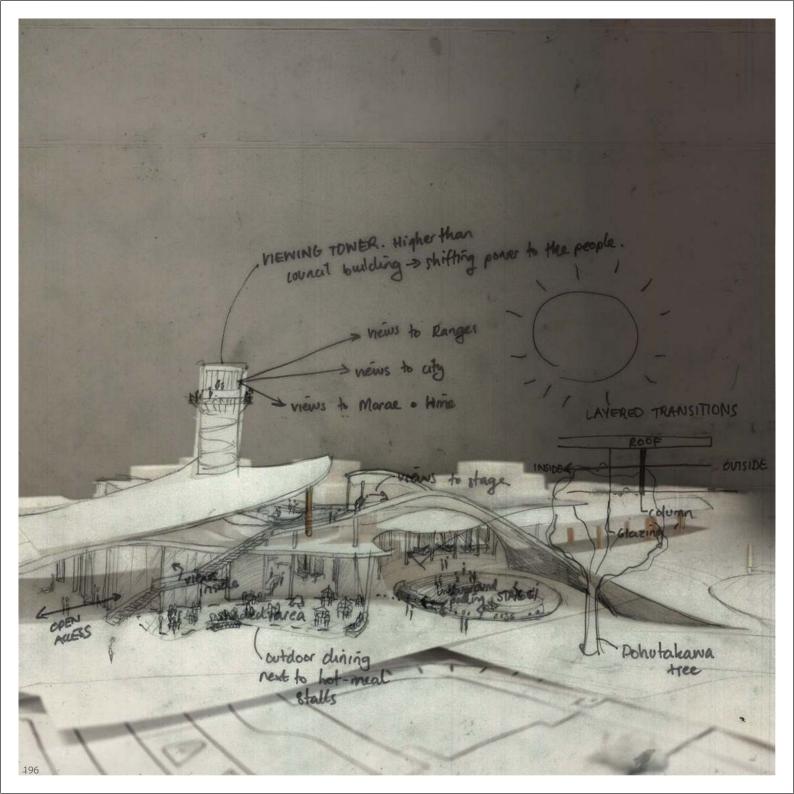






Fig 162 (opposite): The organic roof occupied with performance and market spaces.

Fig 163: Organic form viewed from side streets. The form has thus far ignored materiality, yet colour and material can add vibrancy and depth. To reference Palmerston North's surrounding agricultural landscape, corrugated iron is applied as a material. The typically imperfect nature (Figure 164) of corrugated iron and rusty weathering could deformalise space.

A corrugated texture is applied to the organic form (Figure 165) but the plain grey colour is not appealing. Corrugated iron can readily be painted in a myriad of vibrant colours so painted patches are explored in Figure 166, using colour palettes that relate to the context. The cultural colour selection is the most vibrant and reflects the intent of the market. The joins between the panels are detailed with stitches which serve as a metaphor for bringing cultures together (Figure 167). These will be visible from rooftop spaces and create visual interest at the human scale. When the coloured pattern is applied to the original corrugated roof, it becomes more eye-catching (Figure 169).



Fig 164: A selection of corrugated panels.

Fig 165 (opposite): Corrugated iron applied to the form.











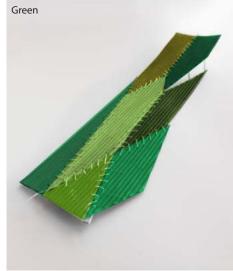




Fig 166: Roof panels of different colours add vibrancy.

Fig 167 (opposite): Stitching detail.

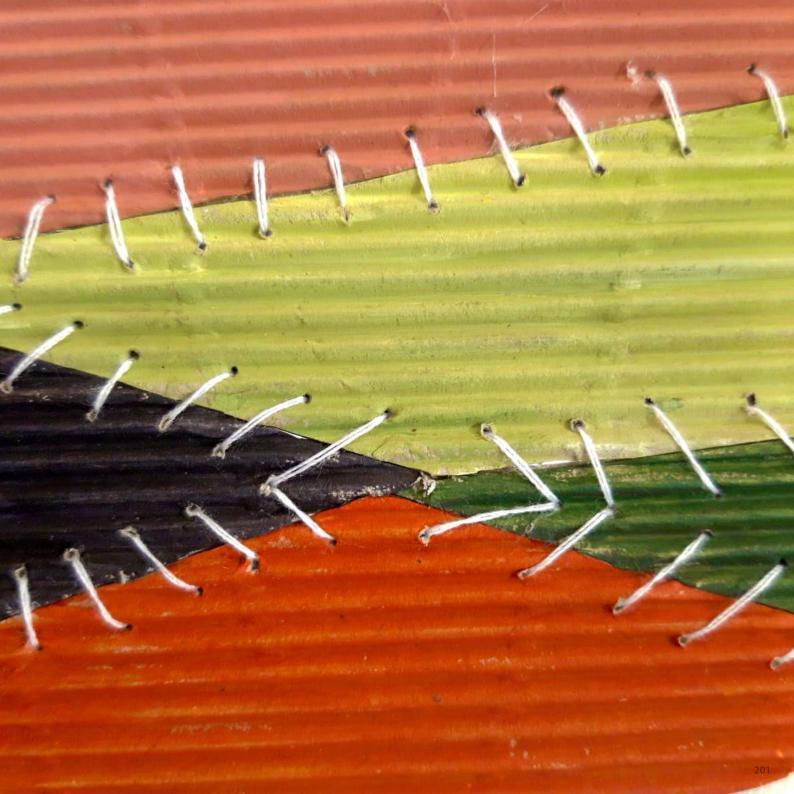
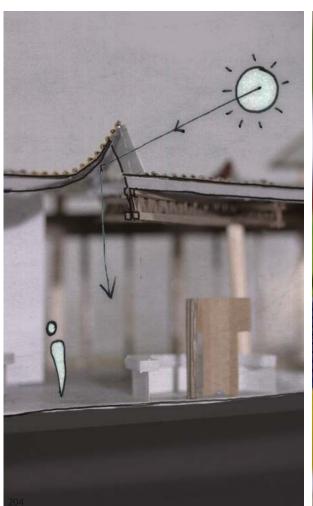


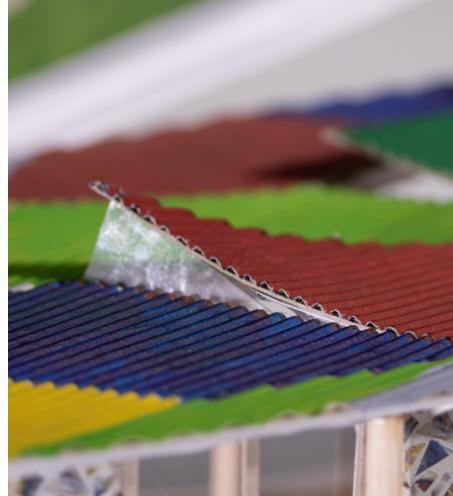


Fig 169 (right): Coloured panels applied to the organic roof.



The corrugated panels curve upwards, creating skylights which illuminates the market below (Figure 171). This creates moments of interest both internally and externally.





Reflection:

Organic forms are a positive contrast to the city grid and help to reflect the natural landscape. They relate to the fluidity of diverse cultures, which was enhanced when the ground and roof were merged together.

Corrugated iron was material relevant to Palmerston North's rural assets. An exploration of connection details, using stitching and colour, served as a metaphor for bringing cultures together but would need to be explored at deeper levels to become more than a simple visual symbol.

Fig 171 (opposite left and right): Skylights emerge from the roof.

THE TENT

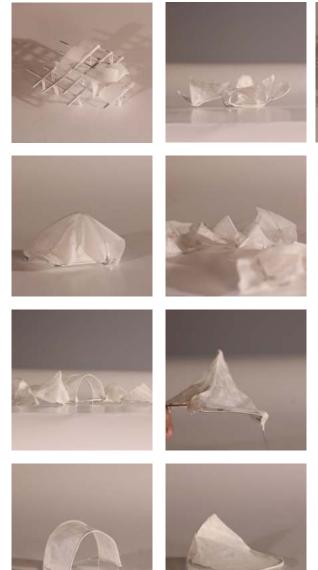
The tent is arguably the most basic form of shelter. It finds its way into market scenes all over the world, signifying a place of trade. In the following roof form explorations, inspiration is taken from tents' display of bright happy colours like yellows, reds and greens, and fabric's elastic ability to create confident peaks that speak of celebration.

Fig 172 (opposite): Types of market tents.



Fig 173 (this page and opposite): Physical models exploring a range of tent forms.

Tent forms are explored in physical models in Figure 173. Combinations of different tent forms and colours hint at a diversity that could occupy the space underneath. Forms that cradle each other or overlap express a sense of support, cohesion and community.









































The physical models are explored as occupiable space in Figures 174 to 178. Organic and peaking forms are different to the regular compositions The Square's building facades, conveying a sense of curiosity for the market. The roofs of Figures 176, 177 and 178 include multiple colours, which are more appealing and expressive of diversity than the monochromatic roofs of Figures 174 and 175. The quirkiness of Figure 178 is particularly successful at communicating a sense of character and friendliness.

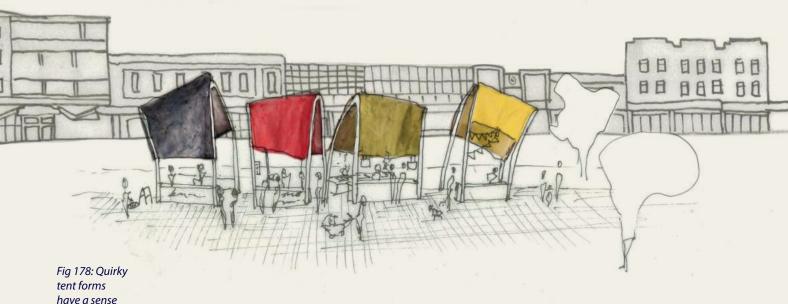


Fig 174 (top left: Emphasised peaks speak of celebration.

Fig 175 (top right): Organic tensile roof allows a random layout of stalls underneath.

Fig 176 (bottom left): Regular tent forms are known to markets. The gridded structure conforms to the current city grid.

Fig 177
(bottom right):
Overlapping
arched tent
forms are
disconnected
from the context
and the size
appears too
dominating.



tent forms have a sense of character. Spaces in front of stalls could benefit from shelter on rainy days. The colourful tent forms are explored further on site in Figures 180 to 181.

The quirky, half-round forms are incorporated in the concept of Figure 179 with additional indoor shelter. Flag patterns are projected on tent forms; however, this is a poor way to represent cultures because it can seem like a bid for territory rather than cultural unity. Figure 180 shows a return to traditional tent colours. While the collection of different roof forms and colours add visual interest, these would be hard to experience at the human scale. In Figure 181, towers and level changes are incorporated to let users experience the roof at eye level and from above. However, the repeated regular forms and gridded arrangement fails to break the city's colonial grid.

Figure 182 introduces a greater sense of hierarchy that signifies important spaces and revisits the quirkiness that was successful in Figure 178. The playful and organic form positively contrasts the city grid, and roof structures successfully interact with the site's surrounding buildings.





Fig 179 (opposite left): Market roof using quirky semi-round forms.

Fig 180 (opposite right): Market roof using a range of tent forms and colours.

Fig 181: Market roof using repeated forms of different colours shown in bird's-eye view and section.





Formal qualities are further explored in three dimensions (Figure 183), where tent structures that disperse at the edges promote smooth transitions between internal and external spaces. The translucent qualities of tent structures (Figures 185 and 186) allow internal light to create a lantern-like source of dispersed external light. The architecture itself becomes the light source, accentuating the tent forms. This creates well-lit public spaces for a safer feeling at night and intimate atmospheres, particularly on the roof deck, which facilitates nightlife scenes.



Fig 183: Exploring the tent in three dimensions.





Fig 185: Translucency facilitates nightlife.

Fig 186 (opposite): The roof deck at night.



Reflection:

Forms inspired by the tent are quirky, fun, playful and expressive of happiness. It signifies celebration and the contrast to the surrounding colonial architecture of The Square strengthens its potential as a landmark. The contrast to colonial elements and the council building is enhanced by the forms' sense of temporality. This has potential benefits for reflecting the ever-changing cultures that are present in Palmerston North and to adapt to seasons and events.

Despite the success of the forms, it is questioned if this approach is reflective enough of Palmerston North's cultures, given the traditional market tent's Western origin. An improved version could explore alternative materiality in combination with the playful qualities.

CRITICAL REFLECTION

The most successful formal attributes were quirky and colourful forms that contrasted The Square's current rigid architecture. A bold form aligns with residents' desire for a more interesting and exciting city centre.

Upon reflection, tent forms were most expressive of cultural celebration and evoked a sense of curiosity. A particularly appealing attribute of the tent concept was its temporality. It makes for a less dominating or overpowering architecture because the form and materiality had a delicacy. This demonstrates a sense of respect for The Square's land by 'lightly' touching the ground. Temporary elements also have the opportunity to grow and shrink with seasonal changes and events.

Elements from other forms were successful, such as corrugated iron as a material and colours referencing market crates. These could be explored in conjunction with tent forms.

While the roof forms were beginning to engage the human experience, internal spaces and architectural elements that relate more to the human scale will be important to explore next.

Exploring the experience

Architecture's close encounters are essential for cultivating meaningful human-scale experiences. This section explores ideas of architectural elements that are important to a multicultural market space. These include:

A sensorial journey of cultures on the rooftop walkway	224
Learning to cook	228
Reflecting atmosphere and diversity	.230
Personalisation	236
The dining table	243



Fig 187: Exploring the human body through drawing.

A SENSORIAL JOURNEY OF CULTURES ON THE ROOFTOP WALKWAY

The roof should be experienced not just from afar or below, but also within and on top. The rooftop walkway has been dotted with opportunities for cultural experiences (Figure 188) that engage the human scale and senses.

The architecture invites selected sensorial experiences to be heightened at locations shown in Figure 189. As explored in Figures 191 to 193, visitors are given unique glimpses of market scenes through windows and roof openings. Cultural food aromas waft through pipes, so that visitors get enveloped with a range of smells as they walk past. Penetrations let sounds escape, carrying with them a variety of languages, voice tones and music.

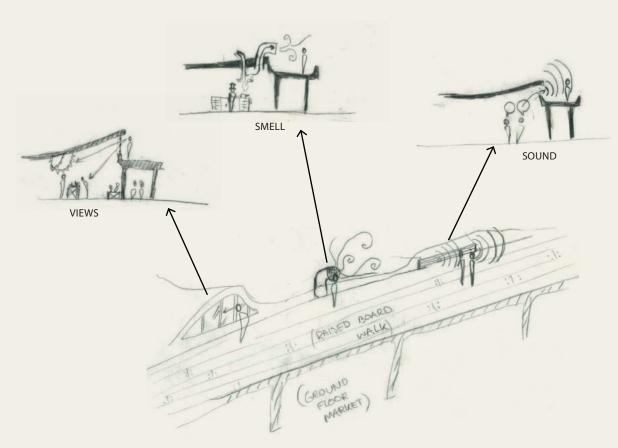
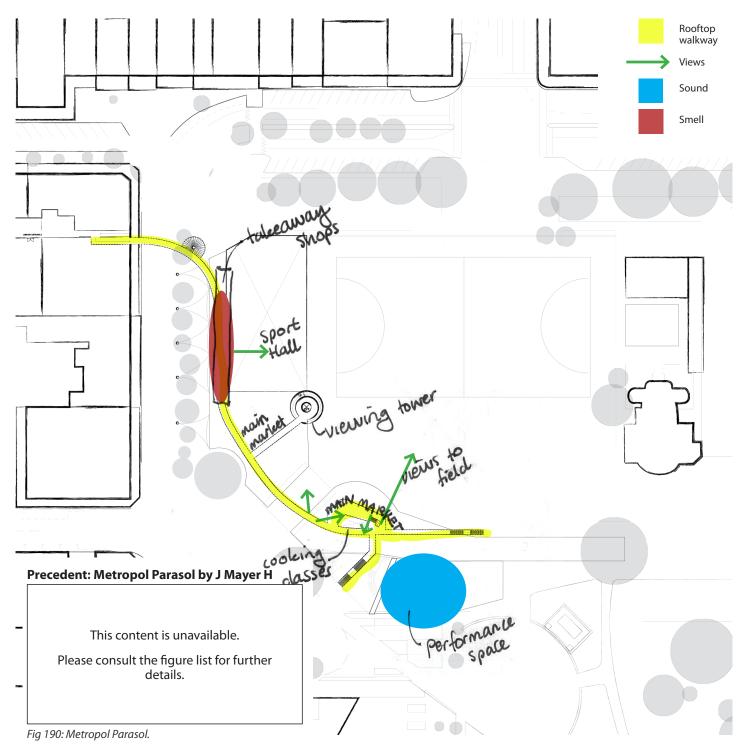


Fig 188: Sensorial experiences on the rooftop walkway.

Fig 189 (opposite main image): Key moments on the walkway





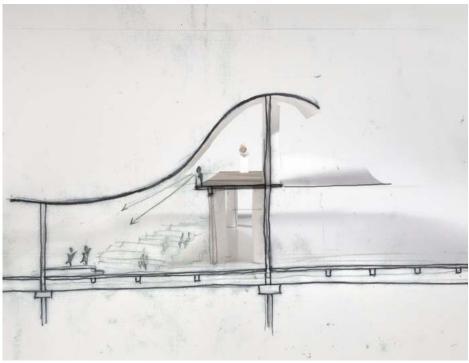


Fig 191: Views to the stage through lifting the roof up.

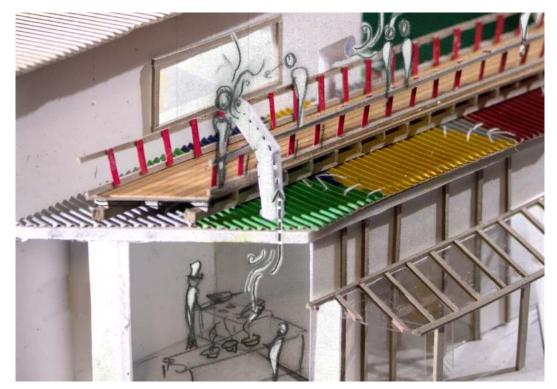




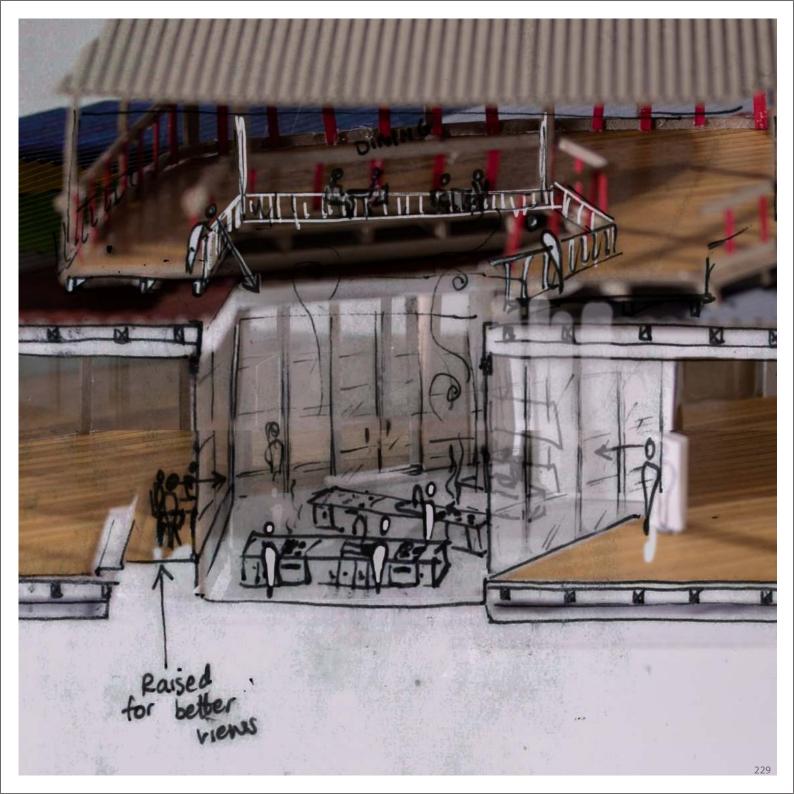
Fig 192 (top): Smells on the rooftop walkway.

Fig 193 (bottom): Sounds from performance travel through the green roof.

LEARNING TO COOK

A cooking class venue is desired by the multicultural community (Arora, 2022). Lay knowledge and cultural traditions in cooking are shared in cooking classes. The space is designed for the people partaking in classes and spectators who can also watch and learn (Figure 194).

Fig 194: Cooking class venue in section shows spectators watching.



REFLECTING ATMOSPHERE AND DIVERSITY

To help imagine the market's ideal atmosphere, paintings explore the fluidity and mix of cultures that create scenes of cultural celebration (Figures 195 and 196). Interior spaces are imagined to be vibrant, colourful and filled with different sounds, smells and tastes. The presence of light to illuminate colour and filter through space is also explored in these paintings.



Fig 195: Atmospheric exploration of people in the market.

Fig 196 (opposite): Atmospheric exploration of people, colour and light.



The architecture can facilitate expressions cultures by emphasising them. A reflective ceiling can mirror and amplify the vibrancy brought by the market's users, ultimately building on the diverse users' own characteristics. Like Mercat dels Encants (Figure 197), colours are reflected to create an explosion of colour (Figures 198 to 200).

Precedent: Encants Market by B720 Fermín Vázquez Arquitectos

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Please consult the figure list for further details.

Fig 197: Mirror roof precedent

Fig 198 (opposite): Reflecting market colours.







Fig 199 (top): Reflecting the atmospheric painting.

Fig 200 (bottom):
Integrating
structure allows
reflective panels
to be angled,
distorting
scenes from
recognisable
images to
a display of
colours.

The reflective ceiling can also reflect sound to produce an acoustically buzzing atmosphere. Sound absorption panels are considered where sound needs to be controlled, such as near the performance space (Figure 201). The roof can incorporate skylights, bringing natural light into large indoor spaces to enhance the mirroring effect.

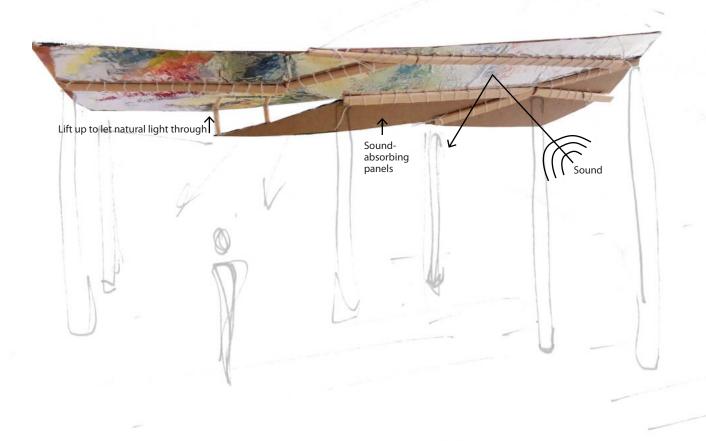


Fig 201: Roof composition.

PERSONALISATION

Personalisation and community projects can integrate authentic cultural involvement from Palmerston North's residents and empower local communities.

Market stalls will be personalised and decorated by stallholders (Figures 202 and 203). A services shaft will be central to some stall clusters for ventilation needs.

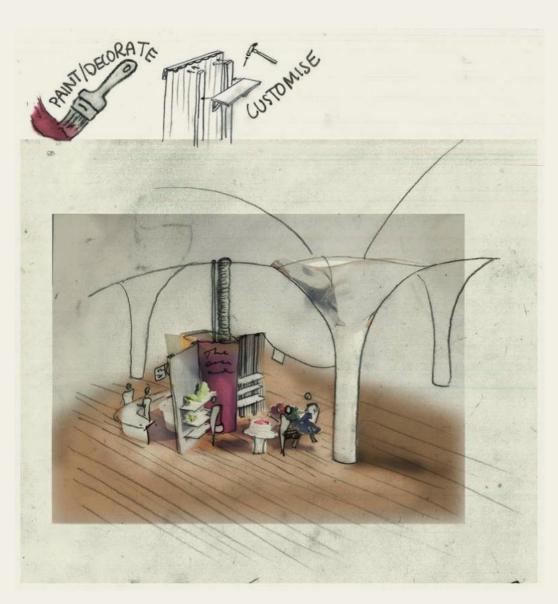
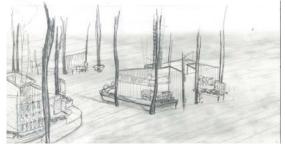
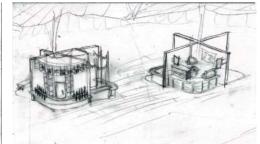


Fig 202: Customisable stalls.





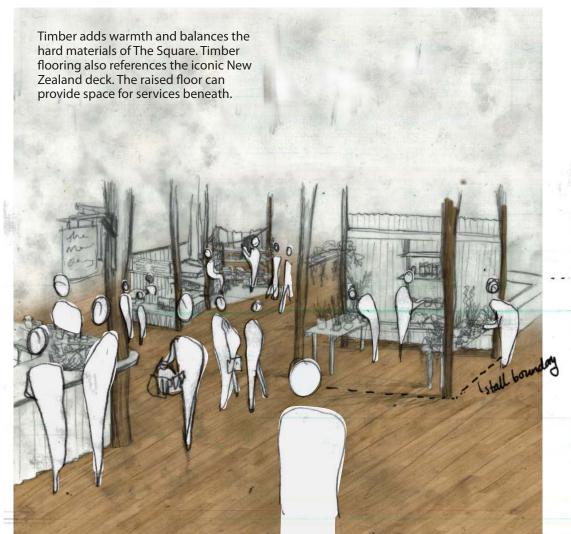


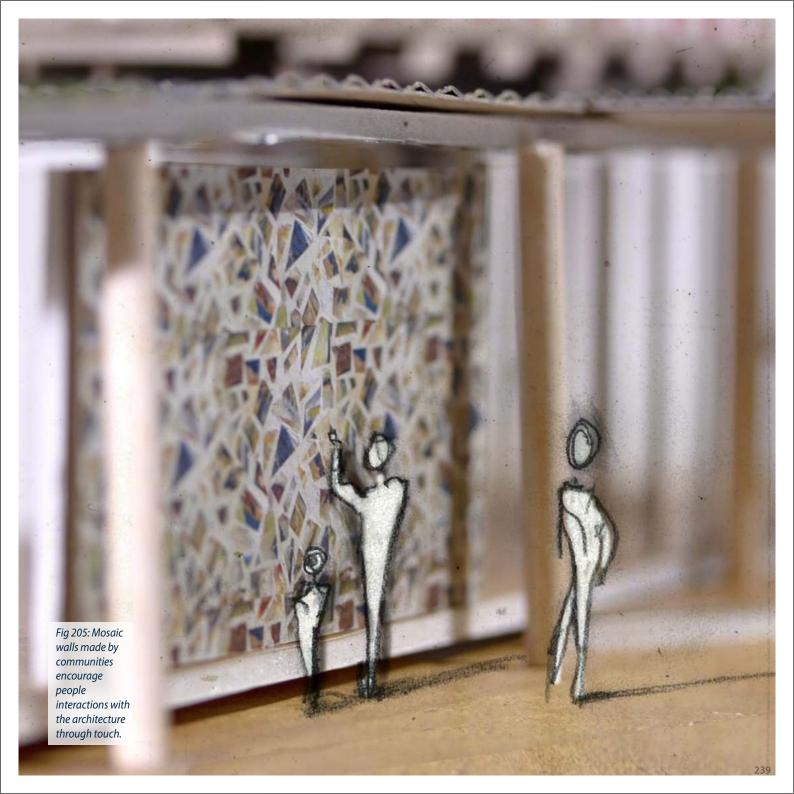
Fig 203: Market stalls decorated and used in different ways.

Other community involvement is integrated in mosaics, textured walls and murals (Figures 204 to 205). This allows residents to "leave their imprint" (Gillick & Ivett, 2017, p. 77), enhancing the sense of belonging residents have with the architecture and place. These ideas return a sense of power to residents, who in turn offer a contribution for the wider city.

Fig 204 (left and right): Mosaic art and floraimprinted wall options.









Flora-imprinted materials can be integrated into floors (Figure 207). This can showcase the significance of New Zealand's natural environment using a sense of permanence.



Fig 207: The entrance floor.

Architectural elements like columns can also come in a variety of types (Figure 208). Natural materials can add warmth and reference the outdoors. Alternatively, they could be painted, clad or nailed with hooks which vendors can use to display products.













Fig 208: Column options.

THE DINING TABLE

A place to gather and indulge in food is essential to a food market. This concept explores the dining table as a place where people are equal and driven to share (Figures 209 and 210). An extra-long table protected with shelter symbolises unity. There is no 'head of the table'; instead, cultural groups, that would typically isolate themselves at separated tables, are brought together.

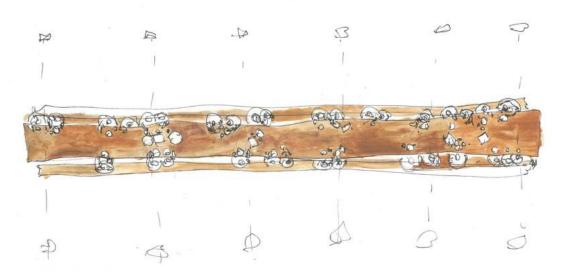


Fig 209: A shared dining table in plan.

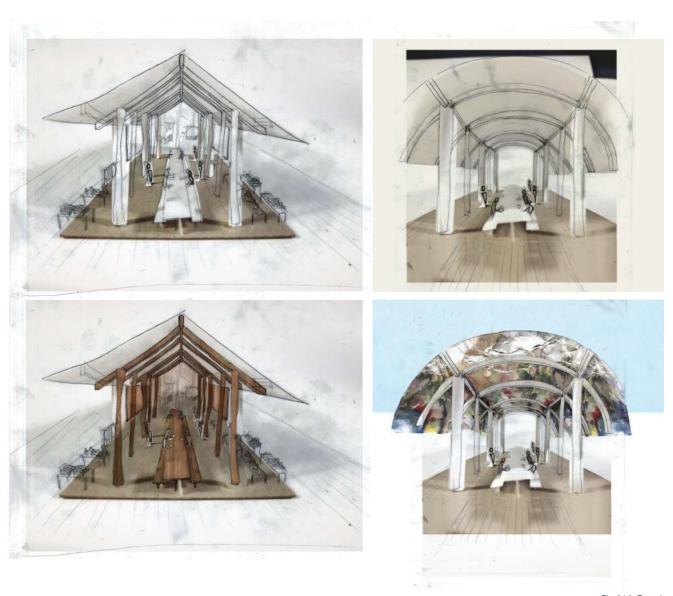


Fig 210: Framing the table with architecture.

CRITICAL REFLECTION

A pin-up of design ideas was reviewed by peers (Figure 211). There was no oral presentation, so the responses were based on visual understandings only (Figure 212).



Fig 211: The display of architectural elements.

Gallery & library Can could be interesting integration of the create a great sense OF REFUGE of place space ?? Public THURSHOLDS PERMITTING ENGALERIGHT IN SICUR The history of the space is great knowledge and great to know Your overall exploration Excert colour PENDEL would love to see how #VO CATIVE_ The iteration process could be a bit clearer really clear + logical. the roofspace could I seem to be able to SELECTED FOLKS? shough! be utilised! Allow your Hinking. - really clear models LOVE THESE! t drawings to show Pepiet vibrant life all views of potential Lis Good to do perspective a really sensoral form + material drawings - This iteration brings one the idea of reflection Hard to see areas within In ideas from Maori + diversity. market - undefined? Plan culture with the form which ther into delal (=> 5) eating etc. Colours really creat Nature and Wellbeing a nice vibrancy. This shelch feels go hand-in-hand. Off the reflective roof This (mosaic wall) very successful to How can you incorporate reads a easily in is very Show how spare will pin-up. inture in-doors? be filled inside engaging - Pain+ings inspire Fig 212: The images you have 6000h, gart guestion! Murdl art Feedback. drawn over the very strong is could there and show a great sense I second this? of almosphere be a space In south of

Sensorial experiences of cultures were successful for relating to the human scale and offered rich intercultural interactions, especially on the rooftop walkway. By isolating particular smells or sounds, visitors are encouraged to become curious and explore the market to find the origins of the smells and sounds.

Human-scale elements were best designed when they engaged light and textural materials. The reflective ceiling, which symbolises the diversity of cultures in the market, brings attention to the roofs form, making it interesting from outside and within the space.

The dining table concept explores how space could be shared by a range of cultures and symbolises unity. It could be enhanced if users could arrange or move parts of the table themselves.

Appropriate ideas will need to be selected, refined and assembled to orchestrate moments of unique and new cultural experiences. These novel moments can challenge people's preconceptions so that their perspectives on other cultures can evolve.

The assembly

This section develops architectural ideas into a conclusive design that provides a theoretical solution to the research question.

A final design p	proposal	250
Development		252
Final design		259

A Final Design Proposal

Figure 213 shows a proposal of the final market design. The northwest (where the library is) and southeast (where the mall is) corners are connected through the building's form and rooftop walkway. The organic form contrasts the rigid city grid and colonial elements, and the market's mass balances the bulk of the council building. Furthermore, the permanent/heavy materials that dominate The Square are offset by incorporating softer and temporary materials like timber. Introducing colour and playful forms transforms The Square into an eye-catching and exciting place.

The clocktower had been removed in previous iterations, however, the removal creates unnecessary environmental impacts. The tower is reintroduced, using its structural integrity to suspend tent material. The tower is accompanied by a viewing deck that claims the clocktower as an occupiable space.

This proposal uses tent forms in combination with corrugated iron materials. It is questioned whether the roof form and materiality are indeed the best option. Alternative options are explored in Figure 214.

Fig 213 (opposite): A proposal for the final design.



Development

The tent roof is still found to be the most fun and expressive but it has a Western aesthetic. A corrugated iron version of tent forms as in the design proposal (Figure 213) is more suited to The Square because it uses the tent's playful attributes and references Palmerston North's rural context through material. However, its peaks could be emphasised more. When tent forms are deconstructed into parts (Figure 215), the form relates more to international market tent types rather than the typical gazebo-style tents prominent in Western countries.



Fig 214: Roof form options for the final design.



Fig 215: A deconstructed version of the tent roof in perspective and section. The forms still exhibit a sense of celebration.

Tent forms in corrugated materials are tested in Figure 216. The dark shadows in the material's grooves accentuate the form and artificial lighting at night can illuminate colours to aid nightlife scenes. A combination of corrugated iron for permanent structures and fabric for temporary structures shows how temporary additions can seamlessly grow the market's shelter due to matching forms (Figure 217).

Colour palettes are explored in Figure 218. The market crate colours of the first two options are vibrant but the deeply contrasting colours are unpleasant on the eyes. The most suitable colour palette incorporates a variety of softer pastel colours.

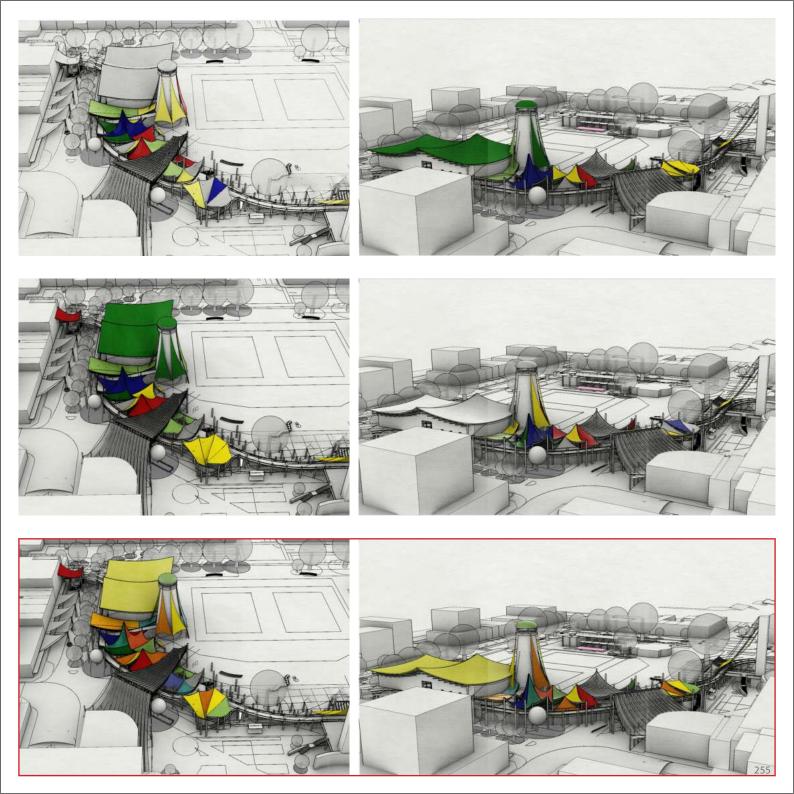




Fig 216 (left): Tent forms in corrugated iron.

Fig 217 (right): Combining corrugated iron and tent materials.

Fig 218 (opposite): Roof colour options.



To make the pedestrian-orientated street next to the library more interesting, colours are tested on ground surfaces (Figure 219). Colours and shapes mimic those of the market's roof. This creates a dialogue between the ground and the roof by extending the roof's vibrant and playful qualities into other areas of public space. Three options are selected and tested in perspective (Figure 220). The first option is most successful because there is a clear circulation path.

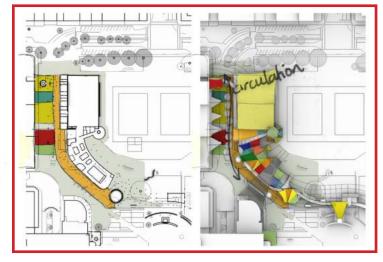
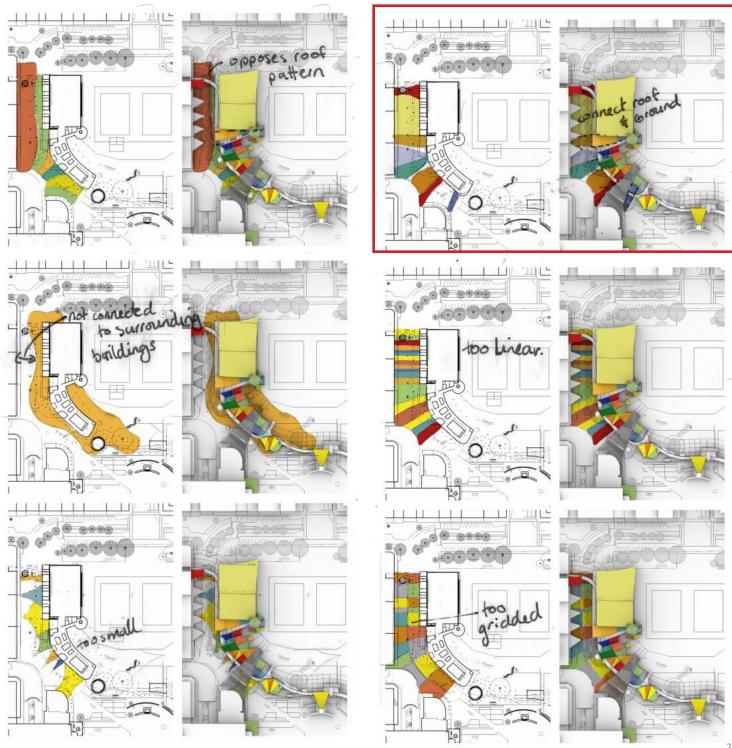
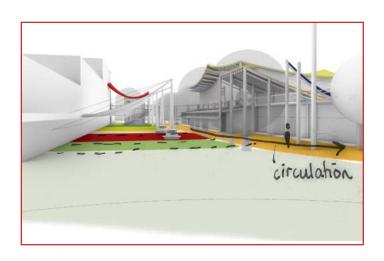




Fig 219: Colour option for the pedestrianorientated street.







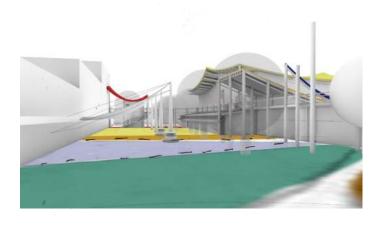
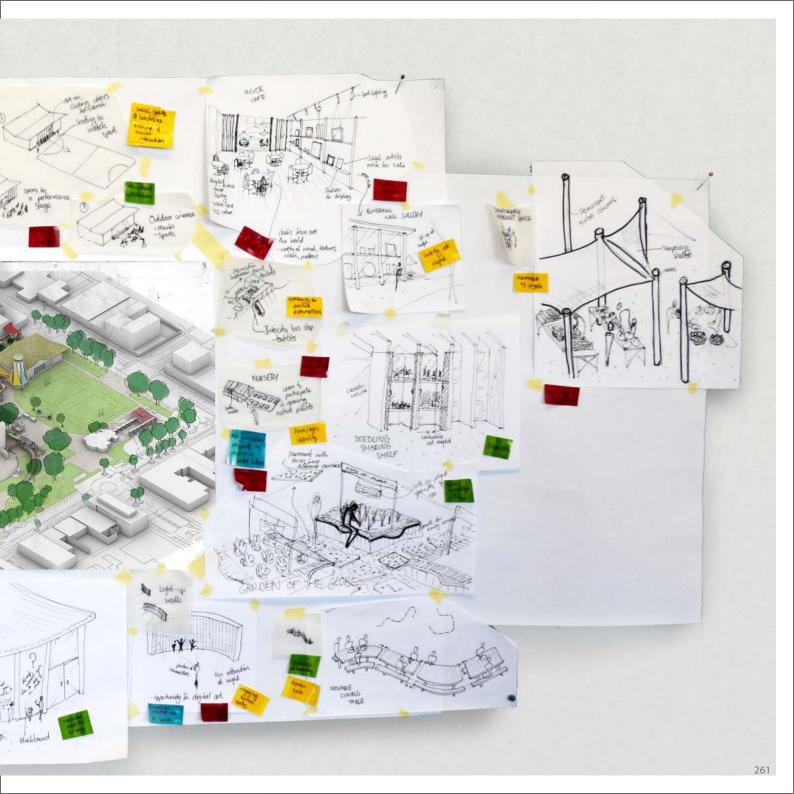
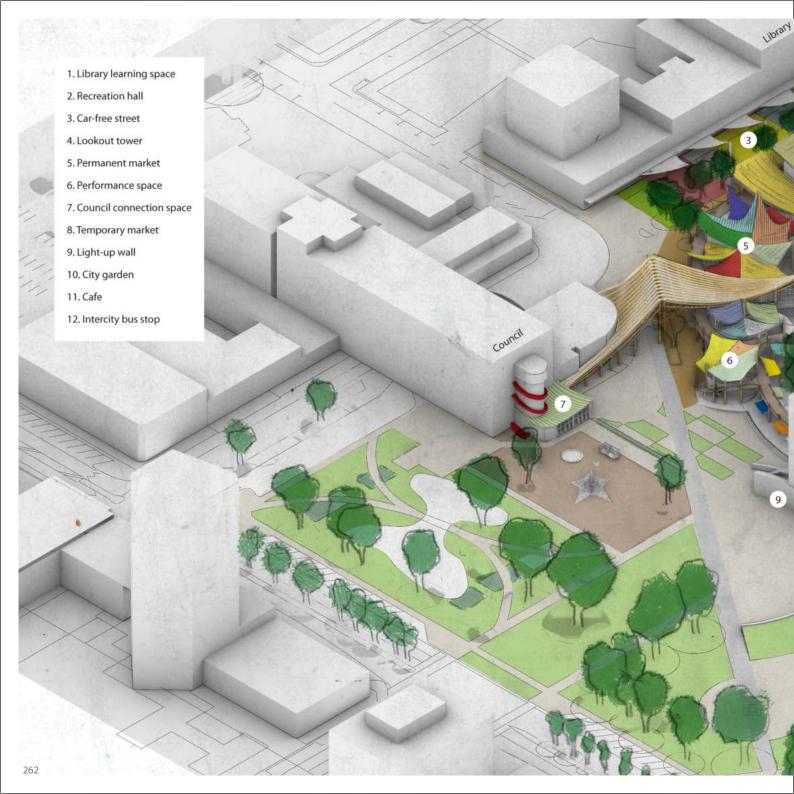


Fig 220: Colourful ground from the human perspective

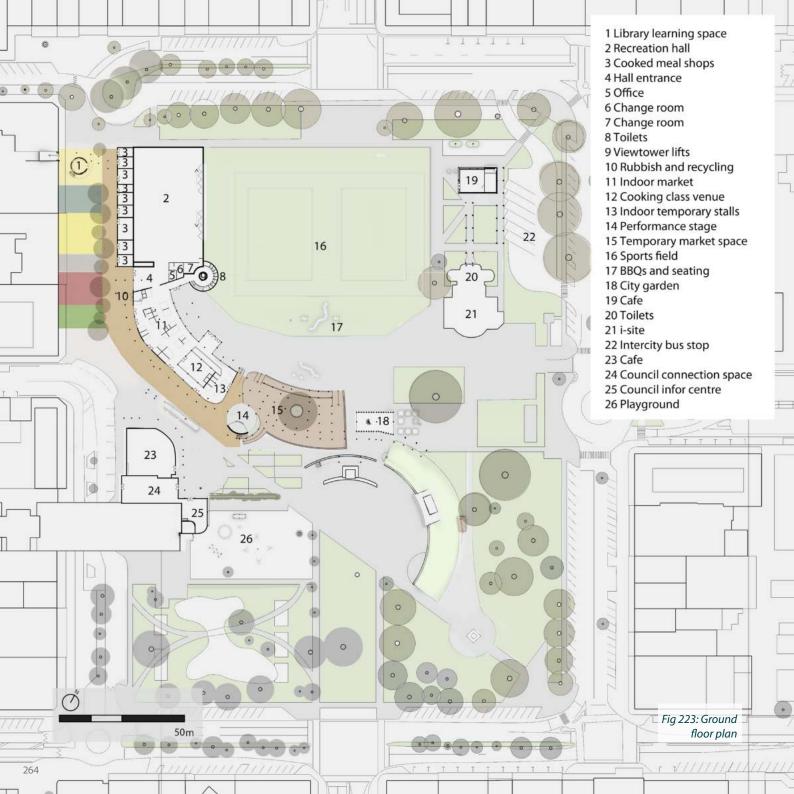
THE FINAL DESIGN

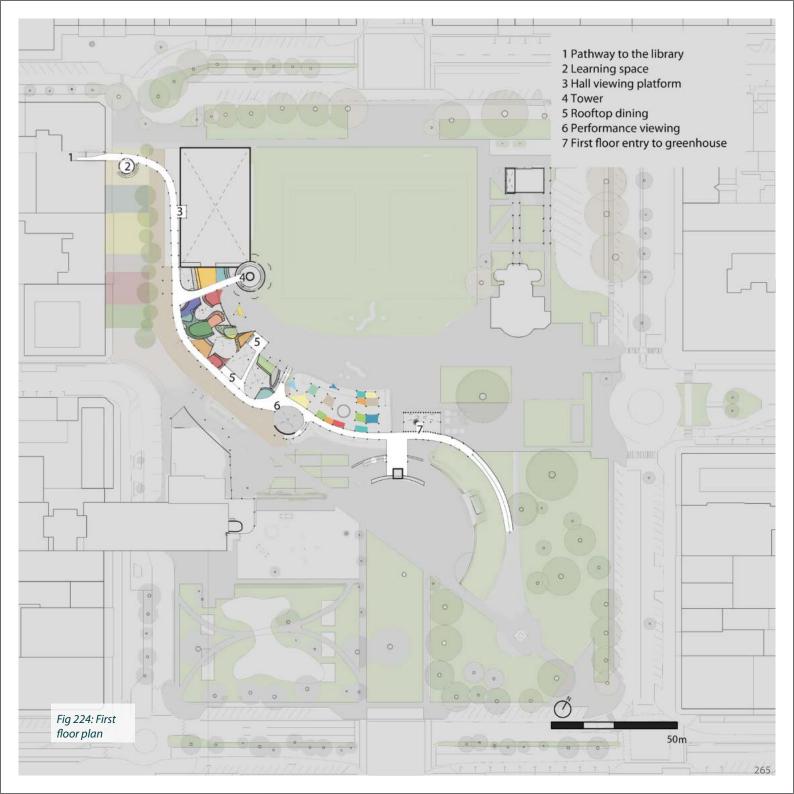












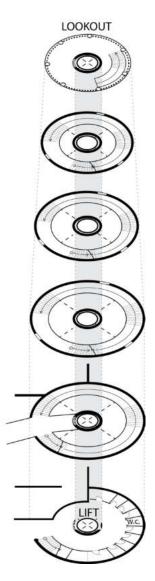
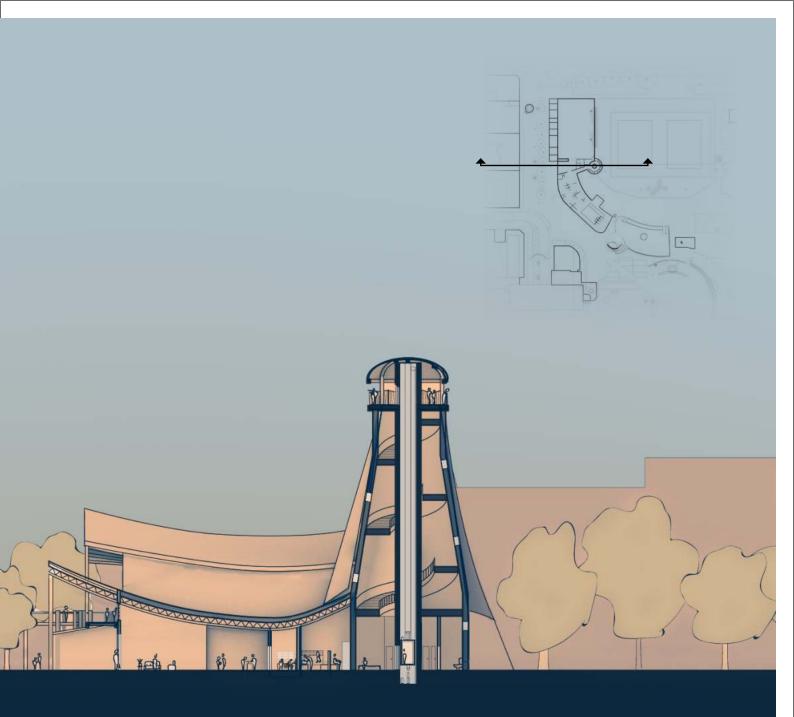


Fig 225: Tower floor plans

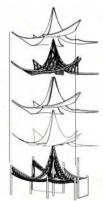






Permanent Market

The permanent market offers spaces where cultures can express themselves. A reflective ceiling increases the colourfulness of the atmosphere, and is further enhanced by the curves in the roof form. High ceilings relieve any sense of overcrowding amongst market stalls.



Corrugated roof

Roof structure

Insulation

Reflective ceiling

Columns, truss beams and shear walls



Fig 227 (top): Roof structure.

> Fig 228 (bottom): Inside the market, reflecting diversity.

Fig 229 (opposite): Cultural stalls and views into the cooking class venue.



Temporary Market Space

The temporary market space can be adjusted to the seasons, weather and events like cultural festivals or Christmas markets. This versatility reflects the fluidity of cultures. It includes a raised deck, an iconic architectural feature of New Zealand homes, which connects to the performance space, main market and the sports field. Additional paved space is available for food trucks and trailers.

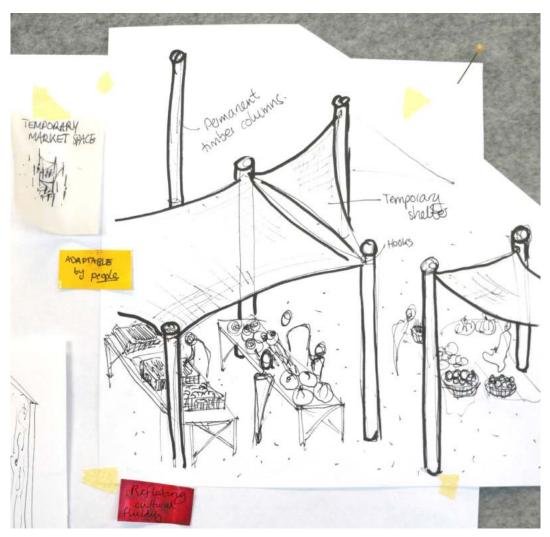
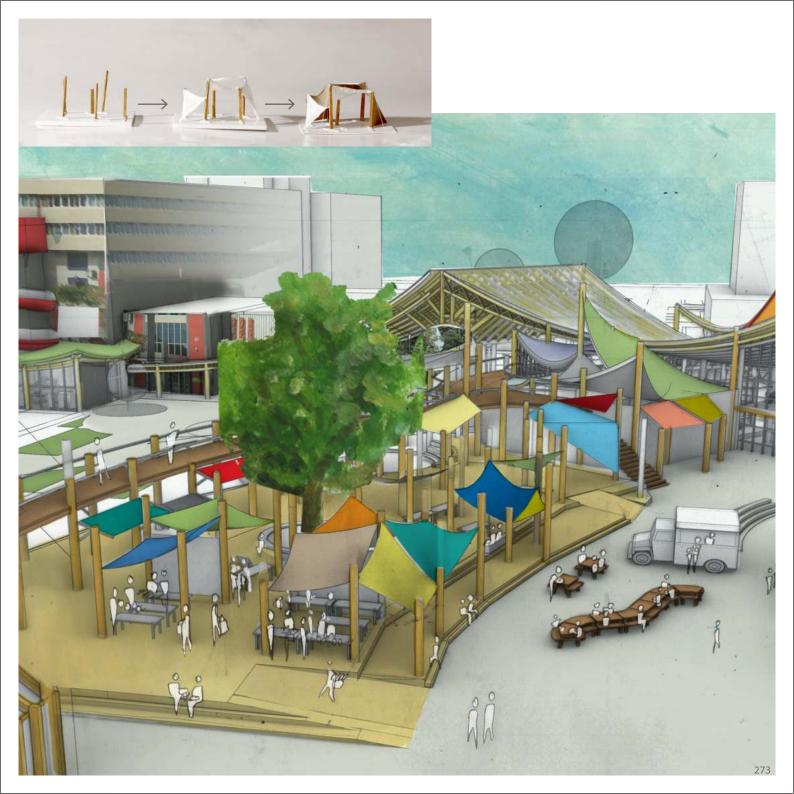


Fig 230: Initial sketch of temporary market.

Fig 231 (opposite top left): Evolution of temporary market space

Fig 232 (opposite main image): Temporary market in use.







Council Connection Space

This space aims to build trust between the council and public by offering ways that participatory design can occur. It connects to the council building but reaches out to The Square, exposing itself into the public realm. Glass, rather than the council building's prominent solid walls, provides literal and metaphorical transparency. Windows are lined with information boards, urban proposals and event posters so that passersby can become informed. An external blackboard wall invites the public to express their desires and council staff to actively ask questions.

Inside the connection space, a multifunctional meeting table has mismatching chairs for a homely feel. A kitchenette for refreshments is available to aid participatory design functions.

Fig 234: Initial sketch of council connection spaces.

Fig 235 (opposite): Approaching the council connection space.

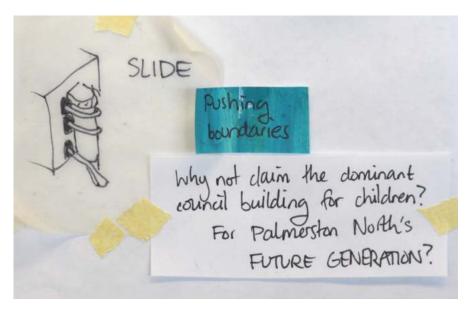






A Playful Council Building

A playground and slide envelopes the council building, blurring the boundary between the public and council. This creates a better connection between future generations and the council.



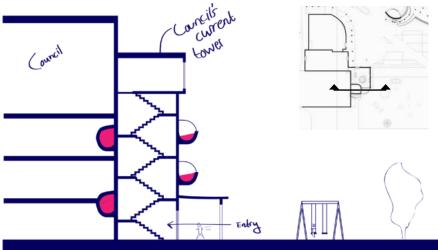


Fig 237 (top): Sketch of the slide.

Fig 238 (bottom): The slide in section.

City Garden

The city garden can be used to grow plants for local restoration projects and help residents learn skills to grow their own cultural food in an affordable way. The sharing of knowledge on growing plants can foster trust between residents.



Fig 239: Initial sketch of the city garden.

Fig 240 (opposite): The city garden. Volunteers are busy constructing a new garden bed.



Performance Space

Cultures can share traditional songs and dance in the performance space. Circular forms are used for inclusivity, and the stage is visible from the rooftop walkway. The openness allows sound to travel throughout The Square.

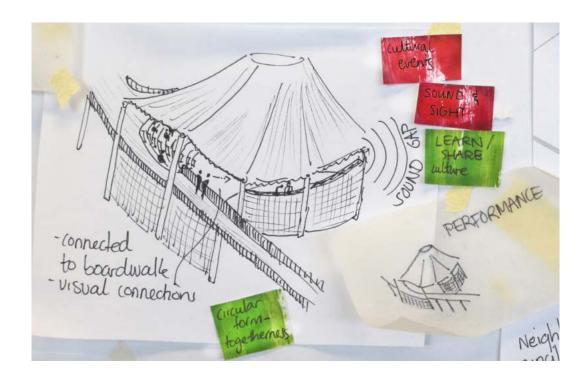


Fig 241: Initial sketch of the performance space.

Fig 242 (opposite): The roof lifts up, inviting people to watch and listen to performances.



A THIRD PLACE FOR
INTERCULTURAL INTERACTION,
SHARING KNOWLEDGE AND
BUILDINGS TRUST

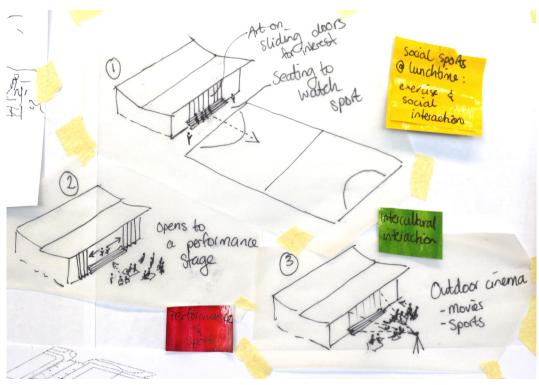
Cooking Class Venue

Cooking classes can be observed from within the main market and from rooftop dining spaces. People can both witness and partake in cultural traditions through these classes.



Recreation Hall

The hall can be transformed into a stage to support large events. When the doors are closed, the steps become seating for observing social sport on the field. The wall can also become a cinema screen for nighttime movies.



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Please consult the figure list for further details.

Fig 244 (top left): Sketches of the recreation hall's uses.

Fig 245 (top right): Precedent, The Gehua Centre.

Fig 246 (bottom): Initial sketch of the dining table.

Fig 247
(opposite): The
dining table
is placed next
to outdoor
barbeques.
It looks over
the sports
field, and the
recreation hall
is seen in the
background.

Dining Table

The dining table is shared amongst residents who might not know each other. Made up of parts, it is adjustable by the public. The curved form reduces the formality compared to a traditional table, offering an informal space for social interaction.





Car-Free Street:

Vehicles are completely removed from the space between the market and the library. Indicators of the library are introduced through outdoor bookshelves accompanied by seating. Cultural food restaurants and café's line the edge of this street, spilling out into outdoor dining spaces.

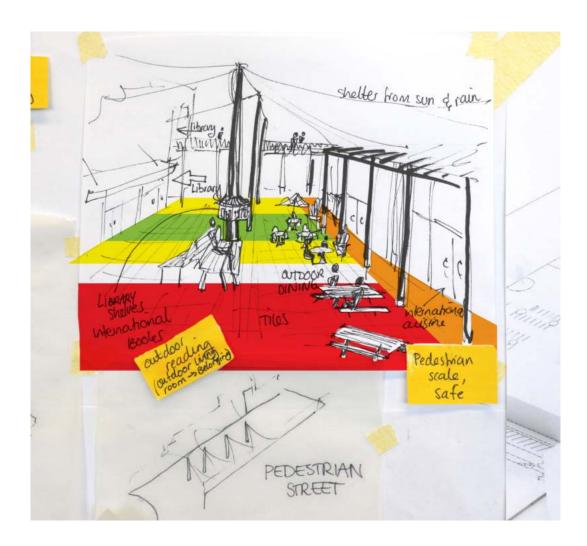


Fig 248: Carfree street

Library Learning Space

A circular building is placed near the entrance of the library intended for language classes, cultural meetings and a variety of group work. It acts as a visible extension of the library that can be used in the evenings.

Internal walls are lined with bookshelves to create a comfortable 'nest' where visitors can find a sense of retreat. The circular layout is inclusive and promotes discussion.





Fig 249 (top): Sketch of the building next to the library.

Fig 250 (bottom): Library learning space.

Bus Stop Café:

The relocated Intercity bus stop is accompanied by a café. The café has sight lines to the market to aid tourism and improve the city's reputation. Local art and crafts are showcased in the café to enhance Palmerston North's identity.

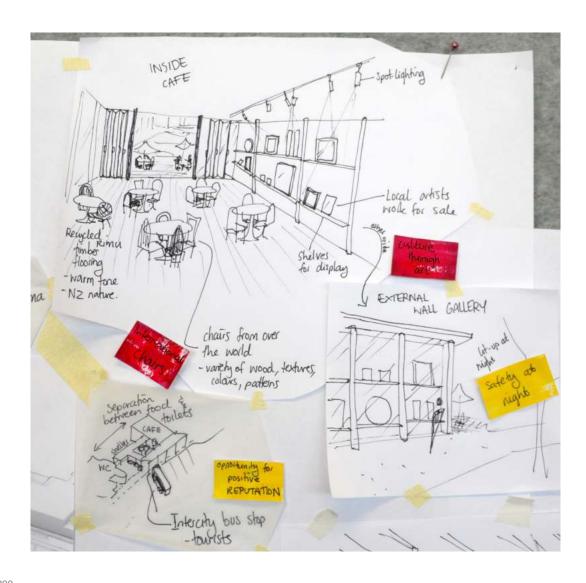


Fig 251: Sketches of the café, inside and outside..

Fig 252
(opposite):
Walking past
the café at
night, the lit-up
wall increases a
feeling of safety
and displays
local art. The
roof swoops
up, drawing
the eye to the
market.





Sensorial Rooftop Walkway

Cultures are experience through the senses on the rooftop walkway.

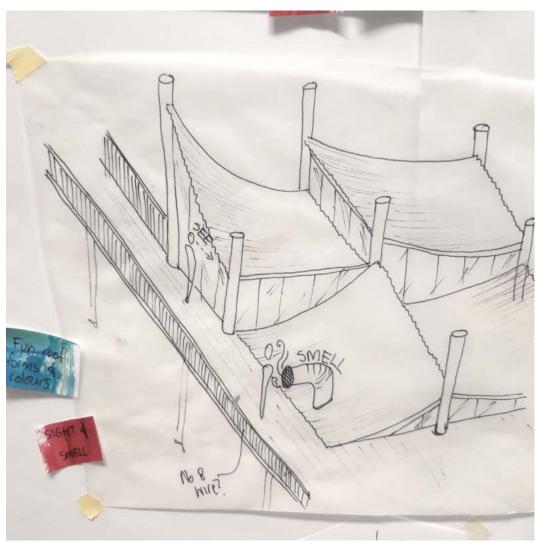


Fig 253: Sketch of the rooftop.





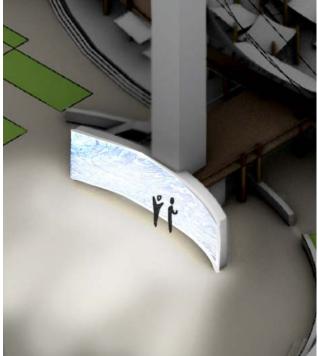
Light-Up Walls

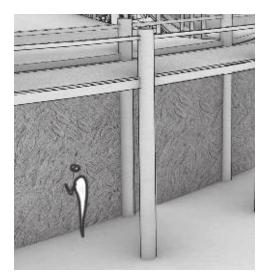
Digital art and colours can be displayed on light-up walls. They are fun for children increase safety at night, potentially improving nightlife.

Fig 257 (left): Sketch of concept.

Fig 256 (right): Wall at night.







Imprinted Walls

Textures encourage touch. Shadowing from downcast light emphasises the imprints.

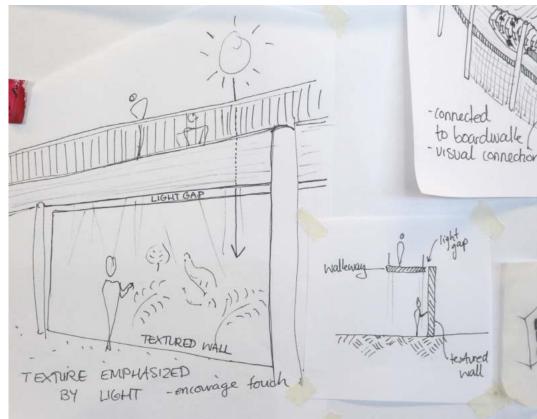


Fig 258 (top): Imprinted walls.

Fig 259 (bottom): Sketch of concept.

Lookout Tower

The lookout tower raises residents above the city and council building to appreciate the surrounding natural landscape. The ranges are showcased to improve the city's identity.



Fig 260: Initial sketch of the lookout tower.

Fig 261 (opposite): Views from the lookout tower.



FINAL DESIGN SUMMARY AND REFLECTION

This research sought to develop an architecture which:

- can increase the happiness of city residents (Aim One)
- accommodates, celebrates and reflects a city's cultural diversity (Aim Two)
- encourages the sharing of knowledge to foster trust and understanding between cultures (Aim Three)

The final design addresses Aim One by reclaiming The Square for the people of the city. It brings the things which are important to the community into Palmerston North's core. Sports, gardening, performance, play and more are uniquely incorporated into the design so that residents will want to visit. Architectural elements like walls can be decorated by local artists or lit up to encourage interactions with the building. The design's multifunctionality means the hall can open up as a stage to host exciting events or close to form a movie screen for intimate outdoor cinema events. It can also operate during the day and night, using lighting to bring new life to night scenes and appeal to younger populations. All year round, residents can come to The Square for experiences that bring joy. The city centre has become a reputable space that speaks of pride.

To address Aim Two the design becomes a landmark that announces the exciting opportunities of cultural diversity through form, colour and materiality. The height, peaked forms and temporality of the roof are utilised to balance The Square's dominating colonial elements and the council building. An architectural language of cultural celebration blankets The Square.

Architecture's typically inflexible nature makes adapting to shifting cultural contexts difficult. To overcome this issue, the final design proposes an adaptable skeleton that can expand and contract with cultural events and seasonal changes, accommodating the natural flow of demographic changes and cultural celebrations.

To achieve Aim Three, the architecture enhances intercultural interactions through sensorial experiences of cultural practices. These experiences evoke a sense of curiosity to encourage residents to learn more about other cultures. The senses were especially featured on the rooftop walkway.

Furthermore, the council building has become humanised. It allows a wide range of cultures to share their thoughts on their city. The building is transformed from an oppressive concrete mass to a fun and playful place to visit. Architectural elements such as blackboard walls, information panels and a round discussion space assist participatory design. It unites the council and public, setting the foundation for cultural values to become more pronounced in future urban projects.

Project critical reflections

Research focus

In a globally connected world, cultural diversity has become ever more prominent. Cities are struggling to adapt to the increasing diversification of their populations. This affects resident's health, wellbeing and general happiness. People want to feel their identity reflected in their city, especially city centres. In New Zealand, city centres are engrained with a traditional colonial monocultural approach and dominated by colonial elements. The values exhibited within these spaces are losing relevance to a shifting demographic. They are failing to attract and reflect the identities of their people.

This project proposed a multicultural lens that recognises architecture's role in improving resident happiness, expressing cultural identities and accommodating diverse cultures to foster trust. As one of New Zealand's most multicultural cities, Palmerston North was chosen as the testbed for the research. Palmerston north is typical of mid-sized cities in New Zealand as it has a poor sense of identity, poor reputation and lack of cultural acknowledgment. These are most prevalent in the central square. Choosing a central site was critical to ensure an architecture could have the most impact on the entire city's happiness.

Process

The design process began with identifying suitable programmes – a market was chosen as the primary space. Initially, programme was relied on too heavily because it was the most

obvious way that multiple cultures could be accommodated in the architecture. Additional programmes were selected to accompany the market, providing a more sophisticated scheme with new types of multicultural spaces relevant to the context. It was difficult to begin designing specific architectural elements that could enhance the multicultural space because it was not known how to prevent personal cultural prejudices from improperly influencing the design. However, the potential for architecture to foster happiness, trust and sharing between cultures largely comes from the experience of architectural elements. A shift in thinking occurred under that realisation that the role of the designer is to facilitate the ways that cultures could occupy space and enhance how cultures are experienced using the senses, rather than assuming responsibility for expressing other people's cultures. The chapters about form and human experiences were critical design stages which began tackling architecture's role in multicultural spaces beyond programme. Part of the approach included flexible and adaptable space, providing opportunities for stakeholders to personalise the architecture. Upon reflection, the large focus on programme was essential for transforming the site into a utilised space, but the investigations of architectural elements were more important for designing a space that fulfilled the research aims. Balancing both of these was critical to a successful process.

The first four design chapters - big moves, secondary moves, approach to form and exploring the experience - tested many ideas. The free approach to design meant that singular ideas were relatively unrefined until the final design stage; a large part of the design process was focused on explorations to ensure the architecture addressed the many elements which make up an urban space. This approach was taken because a large-scale collection of ideas was anticipated to have a greater impact on resident happiness. The final design stage was crucial for bringing a distilled selection of ideas together. Although it incorporated many different ideas, this ultimately contributed to a vibrant and diverse space to meet the needs of its multicultural users.

Analogue design tools were successful for encouraging a physical connection between the architecture and designer and engaging the senses through the process. The greatest benefit of this approach was the opportunity, through painting in particular, to be unconstrained and entirely creative in exploring the immaterial qualities of space. Painting throughout the process also helped to reconnect the design with emotions, which was important for the purpose of the project, happiness.

Findings and conclusions

The final design more openly acknowledges Palmerston North's diverse population. Its successes lie in expressive forms, colours, materials, opportunities for community engagement, sensorial experiences and architectural elements for interactions. These elements are key to addressing the research aims. Happiness is induced by making the residents the focus of the city centre, cultures are expressed through form and mirrored inside the building, and residents are encouraged to share ideas in a revolutionary council connection space.

The design is a significant urban change. When compared with the original state, the site is completely converted from an ordered but empty space into a bold statement of residents' identities. People will find opportunities for telling the stories of their past, sharing the present and having a say about their future. It shows the potential for city centres to serve and listen to their residents.

A mere focus on retaining pleasant aesthetics in central spaces does not appeal to all residents, consequently causing centres to become underutilised. The architectural elements of the final design starkly contrast the surrounding cityscape. Residents may initially be taken aback by the boldness of the change. However, the architecture's display of excitement and playfulness will entice people's curiosity to visit and explore the space. Within, experiences that the architecture promotes can overcome people's conservative natures by broadening their understanding of cultures. Ultimately it is the abrupt nature of an architecture such as the final design that can shift mindsets into today's setting where cultural diversity should be appreciated and reflected in cities. New Zealand's mid-sized cities could all benefit from bold interventions in their city centres.

The inhabitation and customisability of a building or urban space is essential for completing a multicultural space. Therefore, a multicultural space cannot be achieved by architecture alone. Architecture's role is to adapt to and facilitate unique cultural experiences and opportunities that allow cultural expression, ultimately to challenge people's preconceptions of cultures. This has the potential to increase trust between residents and thus improve their happiness.

City centres based on colonial principles are out of date. They require a decolonisation of space. This can involve the modification, relocation or elimination of colonial elements, as well as offsetting gridded plans and heavy facades with contrasting architectural forms and materials. However, any design proposal which repurposes the space is inherently at risk of becoming a recolonisation, where ethnic groups consider the urban redevelopment to retain conditions of colonisation. Future engagement with cultural groups will therefore be crucial.

Limitations and future research

The inability to engage with cultural groups during this research exemplified difficulties in designing for other cultures. As a single designer, it is only possible to speculate how people will interpret a design. The project mainly relied on the literature and personal interactions with other cultures to produce appropriate design ideas. The project lacked testing against the affected community. With more time, future research requires community engagement to accurately reflect the wants and needs of diverse cultures in New Zealand. In particular, engagement with Māori will be important for acknowledging New Zealand's status as a bicultural country.

For architecture to have a bigger impact on happiness, future research should adopt a broader scope to include spaces where people's everyday lives take place, such as neighbourhoods. This means that architectural and physical connections between neighbourhoods and the city centre should be investigated. By introducing new architecture into neighbourhoods,

future research could examine how the city centre's intervention can permeate the wider city. Additionally, research should look at how transport can become utilised to connect people to the city centre. This also has opportunity to address high-car usage issues, which affects residents' wellbeing. In mid-sized cities, it will be important to consider how rural visitors can be accommodated and how incentives can overcome the reluctance of the public to change their habits. A city-wide focus is expected to have a more prevalent impact on happiness.

Another topic for future research is the incorporation of non-cultural aspects of identity in architecture. The thesis has stated the importance of expressing resident's identities in a city's architecture. The project has shown that architecture can be adaptable to cultures, so it is possible that architecture can do the same for other factors of identity. Further research can investigate how these can also be celebrated in a city's centre. Collective identities of local institutions or groups, occupations, sexuality and religions could all be explored. This will allow cities' architecture to celebrate people who consider non-cultural aspects of their person more important to their identity.

Closing remarks

Overall, the research builds on the shoulders of the likes of Leonie Sandercock, Jan Gehl and Charles Landry. The findings are intended to contribute to the field of architecture and urban design as an example of building better central public spaces that enhance city identity, reputation, reflection of resident's cultures and, of course, happiness. New Zealand's cities need to be improved for their residents' wellbeing, and architecture can make this happen.

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Figures

All figures not listed are author's own.

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