

From Projects to Urban Systems:



In my professional practise I design the urban systems delivering projects. First, I obtain an in-depth understanding of the macro issues facing urban centres, by using both qualitative and quantitative methods when analysing data. From this starting point, in architecture conception, in urban and transport planning, and in local economic development, I have taken current urban systems and reconceptualised them to deliver solutions to citizens' problems. In the following portfolio I present a sample of the urban policies I have designed. I believe the strategies laid out here have the potential to positively transform urban areas, enhancing the overall quality of life, on a large scale.

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Urban Experiment: The Neufert of Urban Perceptions (2017)

UEUrban Experiment

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Registration

Username:

E-Mail:

E-Mail (again):

password:

password (again):

General Characteristics

1. In what year were you born? Please enter the four-digit year (e.g., 1995).

2. What is your nationality? Please select all the options that apply. If your nationality is not listed below, please select 'Other' and specify below.

☐ Australia

☐ Argentina

☐ Austria

☐ Belgium

☐ Bolivia

☐ Brazil

☐ Chile

The Urban Experiment is a study of the causal impact of different urban environments on emotions (as a proxy for quality of life). The platform contains a database of images of both control (before) and treatment (after) urban environments (e.g. greening streets, facade refurbishment). Using an online randomised control trial experiment, the platform analyses how users perceive the images, and their response to them (e.g. safety, stress, happiness and willingness to pay) and their gaze concentration when faced with different urban spaces. The overall aim of the research is to create an urban environment library, outlining the types of interventions which do/do not add to quality of life. The platform will inform the work of urban and transport planners, policy makers and private companies, helping to create an urban environment that truly enhances quality of life.

UEUrban Experiment

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Hello adminadminlogout

How safe does this place make you feel on a scale of 1 to 10?



Very Unsafe12345678910Very Safe

Users Answers

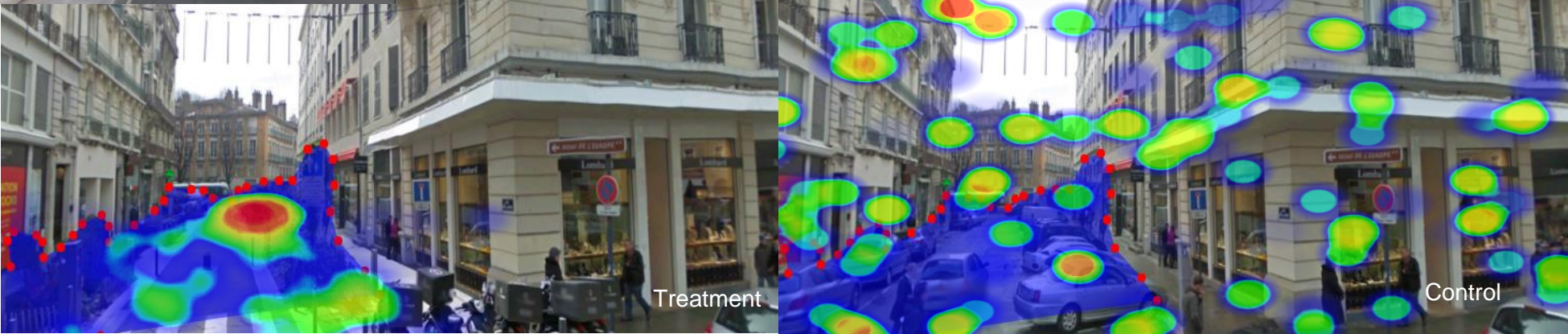
Example Image Data Base



Control Images

Treatment Images

Gaze Concentration Analysis



Treatment

Control


Intervention & Perception Matrix					
Urban Elements	N	Liveliness	Stress	Happiness	Safety
Trees:	25,321	-10%	+25%	+3.2%	-0.1%
Sidewalk (extra metre):	13,541	+15.2%	-12.3%	+2.2%	n.s
Car lane (each lane):	15,362	-12.5%	+53.2%	+0.1%	-23.2%
Warm white lighting (100 lumens):	16,362	-25.5%	-26.2%	n.s	+33.2%
Cool white lighting (100 lumens):	26,362	-25.5%	-26.2%	n.s	+35.2%
Grass:	15,362	-25.5%	-21.2%	+10.5%	+13.2%
Facade painting:	25,362	+15.5%	-12.2%	+15.5%	+11.2%

Data Analysis

Michelle Bachelet Presidential Urban Programme (2013- 2018)

Participatory Process






MINVU ALO

600 901 11 11

DESDE CELULARES 02 2 901 11 11



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BARRIO

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DALE MÁS ESPACIO A TU VIDA

34 Parques en distintas comunas a lo largo de todo Chile.

REG	COMUNA	NOMBRE	SUPERFICIE (M2)
1	ALTO HOSPICIO	PARQUE SUR ORIENTE SANTA ROSA	55.022



Vivir Juntos

Programa Presidencial para un Territorio Inclusivo

27 de mayo de 2013



MICHELLE BACHELET PRESIDENTA

Resumen Ejecutivo

PARQUE NAVARRIN DE ESTERENÁNDEZ, ÁREA PROGRAMÁTICA CIUDAD Y TERRITORIO



MICHELLE BACHELET PRESIDENTA



Agenda de Ciudad, Vivienda y Territorio

Published Documents

The aim of the presidential programme for cities and regions is for territorial equality, and thus the right to cities of quality for all people, including the most vulnerable. Through a participatory process involving 225 participants from across Chile, 45 key urban problems were first identified and then strategic solutions were designed. The program is structured around three rights to the city and one citizen duty. This is a ground-breaking programme as it is the first attempt in Chile to create an urban constitution which grants equal urban rights to every citizen.
For more detail visit:
<https://www.masprogreso.cl/investigacion-mas-progreso>
<http://michellebachelet.cl/pdf/agenda-ciudad-vivienda-y-territorio.pdf>

Results:

10 reform chapters

45 urban policies

Proposed legal path way to implement policies

USD 2.5 billion of new investment

Proposed policies became core actions of the Ministries of Housing, Urban Development and the Ministry of Economy



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Mejorar Entorno

Subsidio de Arriendo

Llamados

Resultados

Programa Recuperación de Cités





Gobierno de Chile

gob.cl

FORTALECIMIENTO DE BARRIOS COMERCIALES



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El programa

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Noticias



Quechereguas

9 de agosto de 2017

Calle Quechereguas busca modernización mediante programa Barrios Comerciales. Se han hecho diversas reparaciones: se han remarcado pasos de cebra, se han hecho letreros alusivos al barrio, se han instalado...



Av.Los Héroes

9 de agosto de 2017

Barrio Los Héroes tuvo su primera feria comercial. Ofertas, buena música y gastronomía local disfrutaron los clientes del Barrio Los Héroes de Calbuco



O'Higgins-Manuel Montt

9 de agosto de 2017

Nuevos Letreros en Barrio de Los Muermos. Una nueva imagen tendrán los locales del Barrio Comercial O'Higgins-Montt gracias a la instalación de modernos letreros.

Compartir



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¡Revisa aquí la celebración!

10 AÑOS

Tweets by @quieromibarrío



Examples of Implemented Programmes

3

Mews Regeneration Programme

Historical Mews Deterioration

Historical Mews After Renewal

This program financed the recovery of historical mews which had been under invested in for over 100 years. The Mews Regeneration Programme brought about the transformation of both public and private spaces, and the incorporation of basic services, such as public lighting and sewerage systems, in the targeted area. Mews were first built in the 19th century as housing for the working class. Today the majority of inhabitants are migrants and low income households.



President Michelle Bachelet launching the program



Results:
More than 400 household benefited
46 mews regenerated.
USD 7 million invested between 2014-2017
Restoration of, and investment in, basic services, fire safety, public space regeneration and facades



Chile Green Spaces Plan

Cautin, Araucania Region



Los Angeles, Bio-Bio Region



There is vast inequality in access to urban infrastructure in Chile. For example, some high income areas have up to 14 m2 of green space per inhabitant, compared with some low income areas which have as little as 0,6 m2 of green space per inhabitant. To address this issue, and give low income communities access to green spaces for recreation, sport, and contact with nature, the Program Chile Area Verde built 34 large scale parks in the poorest and most densely populated urban areas in Chile.

Parks were selected according to population density, green space deficit and vulnerability index. The current and future maintenance of the areas is also covered in full by central government funding, which avoids the addition of new charges in low income municipalities.

Alto Hospicio, Tarapaca Region



Pelluhue, Maule Region



Alhue, Santiago Metropolitan Region



Arica, Arica and Parinacota Region



Valparaiso, Valparaiso Region



Results:

- 4.3 million people are direct beneficiaries of the programme.
- 34 new urban parks in low income neighbourhoods have been built.
- Two new parks per each Chilean region.
- USD 174 million invested in the period 2014-2018.
- 6% increase of green urban spaces in the country.

Small Enterprise Neighbourhoods Development Programme



The Small-Enterprise Neighbourhoods Development Programme (SENDP) is a joint initiative between the Ministries of Economy and Tourism and the Ministry of Housing and Urban Development, to promote the aggregated competitiveness of traditional main street small commerce with large scale retail. The overall aim of the SENDP is to maximise the social (city liveliness and local employment generation) and economic (local tax contribution and product added value) benefits that small enterprises generate in Chilean cities, through investment in targeted neighbourhoods. To fulfil this aim, public spaces were modernised, security was improved, more areas were made accessible for residents, and most importantly, the marketing strategies of traditional main street small enterprises were developed, in the project neighbourhoods.

Results:

- 60 Small Enterprise Neighbourhoods regenerated.
- 60 new small enterprises neighbourhood associations.
- Participatory budgets
- Tourism, economic development and infrastructure development investments.



I Love My Neighbourhood (2nd Phase)

Participatory Process



Agreed Master Plan: Vallenar, Atacama Region



Design Phase: La Ligua, Valparaíso Region



Before/ After

Quiero Mi Barrio is an urban regeneration program which began in 2006 with the aim of restoring 200 of the most deprived neighbourhoods in the country. The program originally intended to simply restore common public spaces. However, in 2014, a “whole neighbourhood approach” was adopted involving four major changes. First, a further 203 new neighbourhoods were added to the program totalising 400 neighbourhoods. Second, the programme allowed, for the first time, the restoration of both public and private spaces thanks to the addition of housing subsidies to the program. Third, neighbourhoods became eligible to apply for existing social, infrastructure, security and economic development programs led by the ministries of Social Development, Sport, Interior Affairs and Economy. Finally, the administrative burden was reduced by implementing a single

application process that allowed access to all funds at once. As a result, there has been unprecedented levels of social investment in “forgotten” neighbourhoods leading to an improvement in the quality of life of some of the most vulnerable people in Chile.

Results:
USD 307 million invested in the period 2014-2018.
1 million people are direct beneficiaries of the programme.
203 new neighbourhoods intervened under the second phase of the programme.
Incorporation of Housing Regeneration budgets to the traditional Public Space budget.
Incorporation of Sport, Security, Economic and Social Development investment budgets

Construction Phase



Before/ After

Iquique, Atacama Region



Sport Facility



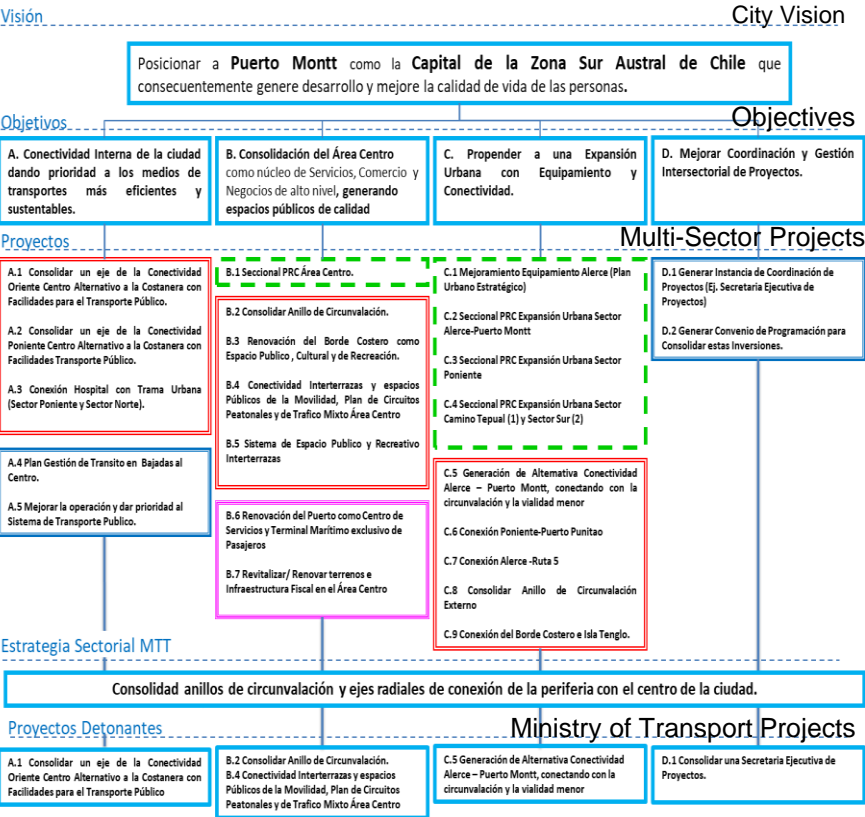
Temuco, Araucanía Region



Delivered Projects

Model City Transport Plan

Summary of City Vision, Development Objectives and Investment Projects



Map of the Transport Strategy and Investment Projects



Model City Puerto Montt is an initiative by the Ministry of Transport to develop an integrated transport and city development strategy. To overcome conflicting sectoral actions, the initiative coordinates the urban investments of three separate ministries, and the regional and municipal government, under an agreed city development vision. The planning process involved three workshops with stakeholders. In the first workshop stakeholders presented their current development plans and future investments, and the issues were diagnosed; in the second workshop those involved discussed and presented their vision and strategy for developing the city; this fed into the final workshop where a single strategic vision, including the objectives and associated projects, were agreed upon. The Model City Puerto Montt plan ended with all stakeholders signing a multisectorial and plurianual investment agreement.

Results:

A total investment of USD 210 million is under execution.

17 mayor transport projects coordinated.

A new pedestrian and bus rapid transit system to access and move within the city centre

Inner and Outer Ring Roads

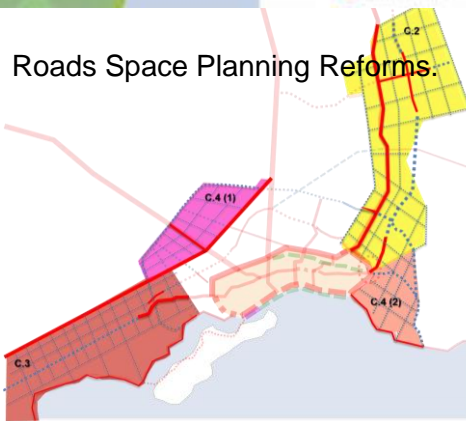


City Centre Accesses: Private and Public Transport

Inner City Pedestrian Access



Roads Space Planning Reforms.



Pedestrian Transport Investment



Alto Hospicio Green Spaces, Atacama Region

Parapente Park



Rosa Park



Alto Hospicio is one of the driest and poorest municipal areas in Chile. The aim of the Ministry of Housing and Urban Development's Green Spaces Strategy is to develop large urban parks in order to combat the issue of a lack of good quality public space. To fulfil this aim, three low maintenance parks were designed using landscape architecture, highly efficient irrigation systems and the planting of local plant species with low water consumption.

Parque Santa Rosa: 120,000 m2 (under execution)
Parque Parapente: 45.000 m2 (USD 1.5 million investment, under execution)
Parque Las America: 10.000 m2 (USD 0.5 million investment, executed)



Las America Park



Skate Park

Habitat 3E: Senior Social Housing + Community Centre Project (2006)

VIVIENDA + RECREACION

Un habitat: 6 Factores

Existe ☒ No Existe ☒

VIVIENDA + DEPORTE

Requerimientos para adultos mayores

VIVIENDA + AREA VERDE

31 Cortes Diferentes

H3E HABITAT3E = Vivienda + Entorno

Salud
Seguridad
Servicios
Transporte
Deportes & Recreacion
Areas Verdes
Vivienda

existentes
Incorporar

4 Tipos de Viviendas

4 Tipos de Viviendas

56 terrazas programaticas

56 terrazas programaticas

Habitat 3E es una ecuacion que puede dar origen a muchos edificios

$$t = y + z(1 - 0.41) + d(1 - 0.53) + xc/4 = 20.000$$
$$y = 10.896m^2 + ((v/35)12m^2)$$
$$z = 1.452m^2 + ((v/35)100)80m^2$$
$$d = 845 + (v/35)0.9$$
$$0.85(20v) = 0.41y + 12z + 12xc + 6t + d$$

Donde:

t es el terreno disponible, y es la necesidad areas verdes, z es la necesidad de espacios de recreacion, d es la necesidad de espacios deportivos y v es cantidad de vivienda

Demanda > Constructibilidad

COMPRIMIR

Viviendas + terrazas

Viviendas + terrazas

Seleccion de enredaderas Caducas

Seleccion de enredaderas Caducas

Corte Objetivo

Corte Objetivo

Vista Patio Estanque

Chile is set to become the country with the highest ageing population in South America. In light of this, Habitat 3E is an urban development strategy which delivers both profitable and bespoke urban housing and facilities for the elderly. After carrying out an evaluation, in a 1 kilometre ratio, of the availability of six basic dimensions of an elderly friendly urban environment (security, retail services, health, sport and recreation, and green areas), it was found that two dimensions of urban equipment were missing from the housing project, and were subsequently added. The final project offers both recreational facilities and green spaces for older people in a local neighbourhood. The financing of the project is enabled through the selling of apartments. Habitat 3E is an innovative housing project which can be used as a blueprint for developing other elderly friendly urban neighbourhoods.

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