Living Buildings 'The gateway drug to our flourishing future' Sustainable Healthcare Forum Aotearoa 2019

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Jasmax

Whakatauki

Tuhea ki te rangi Tuhea ki te whenua Tuhea ki te ngākau ō ngā tangata Ko te mea nui Ko te aroha Tihei Mauri Ora! Write it in the sky Write it on the land Write it in the hearts of the people The greatest thing of all is love Behold here is life

Questions for you

What is health? Where is it? How do we generate it?

in the month of the

Why do you do what you do – what's your role?

 How are you taking care and responsibility for our future and the living system? Kaitiakitanga

Zero Energy House Auckland



Photography by Christoph Hossley

Avondale College Auckland





Thermographic imaging also illustrates the thermal efficiency of the wall panel when it has been constructed with edge-to-edge THERMOMASS insulation.

Burwood Hospital



Fraser's Brickworks Retail Centre



Trajectory of Ecological + Health Design



Building Code and 'First cost' impacts Challenges

Over a building's first 40 years, design and construction are 11% of the total costs of use and ownership

NO

EX11

This building leaks energy, water and health demines long term investment value

Building Lifecycle Challenges

loss of resources and increasing toxicity in the environment

Sustainability – A Global Perspective

Health of Living System declining

Population, toxic chemicals and consumption of lifesupporting resources rising



LIVING BUILDING CHALLENGESM 3.1

A Visionary Path to a Regenerative Future



THE METAPHOR OF THE FLOWER

ROOTED IN PLACE AND YET: Harvests all energy + water Is adapted to climate and site Operates pollution free Is comprised of integrated systems Is beautiful



g Building Challenge^sM 3.

ENERGY



WATER





3 | Living Building Challenge[™] 3.0





Photo: Benjamin Bensohn

Civilised Environment Healthy Indoor Environment Biophillic Environment

32 | Living Building Challenge⁹⁴ 3.0

WHILL LING IN A WALL

MATERIALS

Red List Embodied Carbon Footprint Responsible Industry Living Economy Sourcing Net Positive Waste

BEAUTY

ilding ChallengeSM :

Beauty & Spirit Inspiration and Education

11

Transformational thought at home, work, towns cities.

Human Scale

Universal Access

Equitable Investment

Just Organisations

Socially Just

EQUITY

- Culturally Rich
- Ecologically Flourishing

Tuhoe Te Kura Whare 'Our Living Building'











Determinants of Health + Wellbeing A systems map



Here's a thought! - Dunedin Hospital

1/ Indicative Cost \$1.7Bn or \$1 700 000 000! for the building + fitout project

2/ OK say we Invest \$0.3Bn on green retrofitting the neighbourhood and \$1.4Bn Hospital

- Create safe + beautiful routes for cycling, walking and e-scooters suppress car use
- Day-light streams, green stormwater swales, 100's of trees + flowers
- Productive + accessible Urban Food Hubs, bees, organic waste as fertilizer etc
- Retrofit 1000 homes warm, fresh, dry, non-toxic, minimal utilities costs
- Create a development policy for a compact living city

3/ Outcomes

- Reduced pollution and improved air quality increase respiratory health
- Active lifestyles reduced obesity, diabetes and heart issues
- Biophillic benefits healthy relationship for people and nature mental health
- CO2 sequestration + flood management social health
- Local, fresh + affordable food and reducing organic waste nourished people
- Healthy homes and more income for those in absolute need a healthy life foundation

4/ and Dunedin Hospital as a Living Building - a built solution to drive systemic health!

Breathe Living Village – Christchurch EQ Response



AERIAL VIEW FROM NORTH-WEST

Life is complex – not complicated!

"The major problems of the world are the result of the difference between the way nature works and the way people think" Gregory Bateson



It matters how we think -

Let's think 'flourishing future' into every relationship, every decision, every project, every community and the places we love.



Creating Living Buildings Professional Practice 2 Day short course 2019

- Christchurch 22-23 August
- Auckland 27-28 August

With Otago Polytechnic + ARA Institute

Tihei mauri ora

Transforming our relationships with Health For a flourishing future

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