

GREEN LINKS APPROACH – understanding what to do:

Research – biodiversity, connectivity, hedgerows, water quality, biophysical inventories

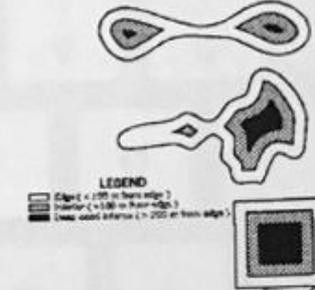
Stewardship – plantings, clean-ups, removal of invasive species, bird and bat boxes

Education – workshops, publications, podcasts, signage, murals, Earth Day, UN Sustainable development goals, art trails

Measures of Patch Characteristics

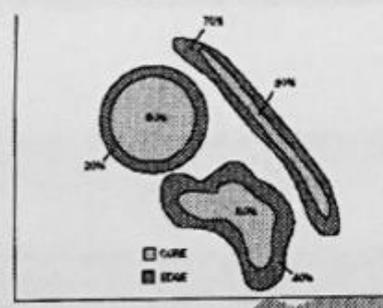
- ◆ Shape of patch
- ◆ Isolation of patch
- ◆ Accessibility of patch
- ◆ Interaction among patches
- ◆ Dispersion of patches
- ◆ Patch numbers
- ◆ Nearest neighbour
- ◆ Core area

Patch Shape and Interior Habitat



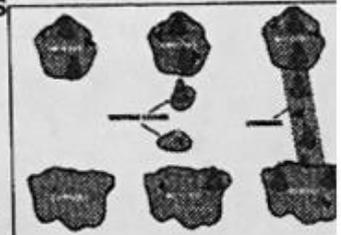
OPPORTUNITIES FOR CONNECTIVITY

Interior habitat



Connectivity

- ◆ Stepping stones
- ◆ Corridors



Stream riparian corridors

Utility right of way and grounds of treatment plants

Hedgerows

Farm Fields

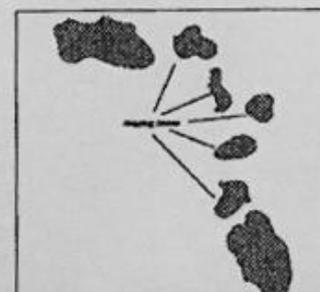
Cemeteries and golf courses

Parks and land reserves

Backyard and balcony habitats

School grounds

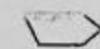
Stepping stones



Examples of Branching and Circuit Networks

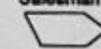
Branching Network

Paul Revere



Circuit Networks

Travelling Salesman



Least Cost to User





BENEFITS OF CONNECTIVITY

More robust food webs

Larger breeding populations

Greater interbreeding of populations

Improved nature's services (air quality, water quality and green space)



Vancouver Area Importance

On Pacific Flyway – 1.5 million waterfowl + shorebirds visit annually

Old field habitat on delta with voles for hawks, owls, and eagles

Fraser River supports world's largest salmon run

High ecosystem diversity supports high species diversity



Lawrence
and the
Rain Garden



But the students
were fantastic.

They didn't
complain at all about
the weather...



... they just went out there and planted.
Imagine, nearly 500 plants in 3 days!



Here's the final crew on the final day.





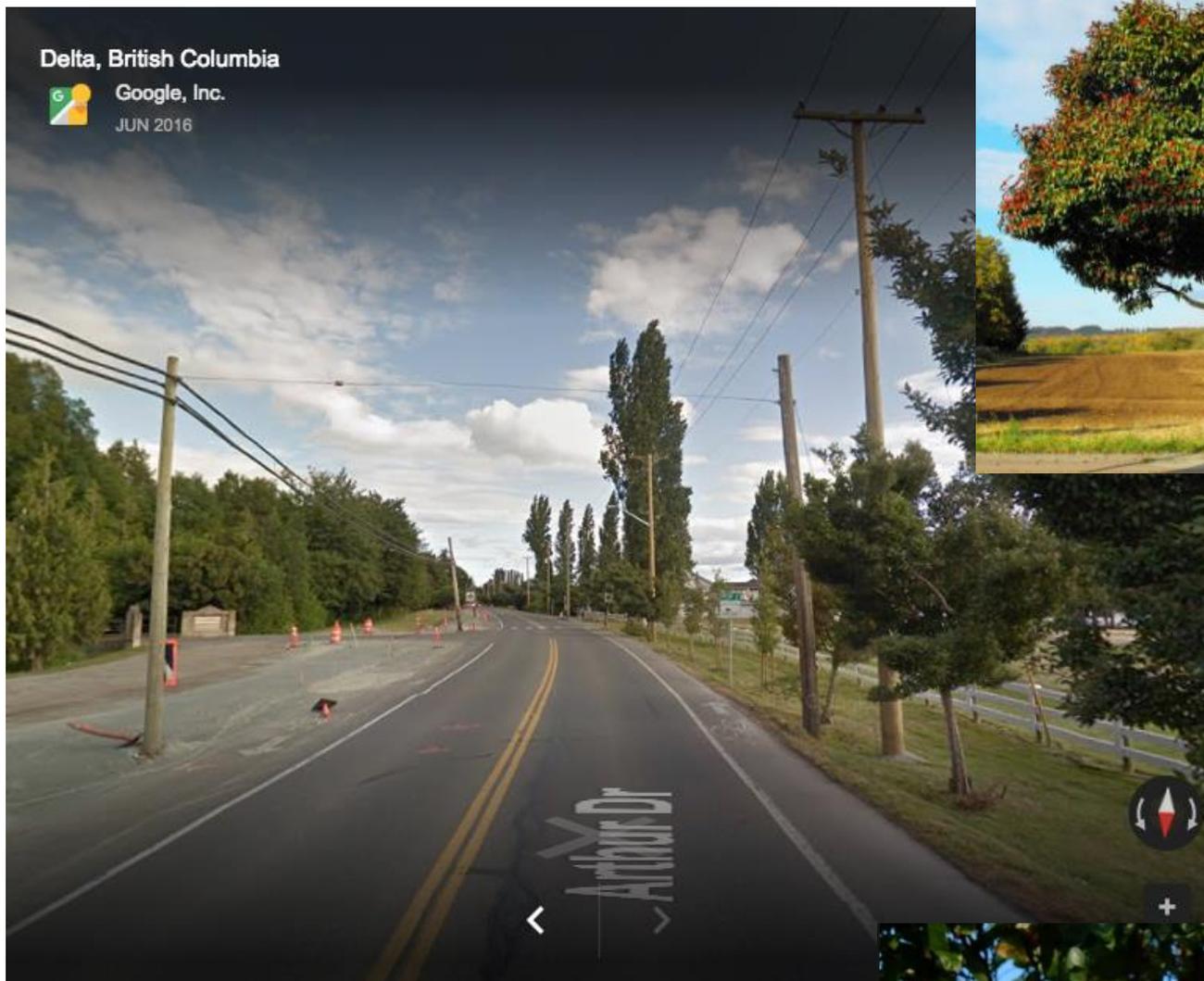


Delta, British Columbia



Google, Inc.

JUN 2016





GREEN CONNECTIONS

Building healthy urban corridors

Robin Clark













GREEN CONNECTIONS

Building healthy urban corridors

Sylvia Grace Borda, founder
C.A.R.E
climatearts.ca

The Design Challenge

landscapes + legacies



The Design Challenge

CONTEXT

Finding solutions



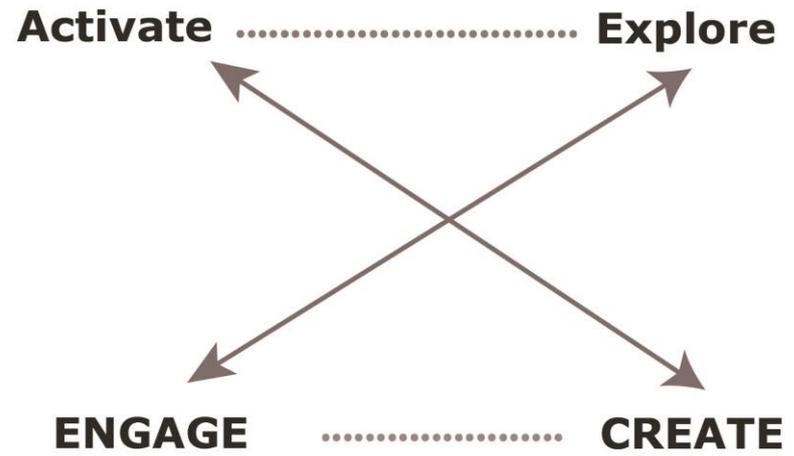
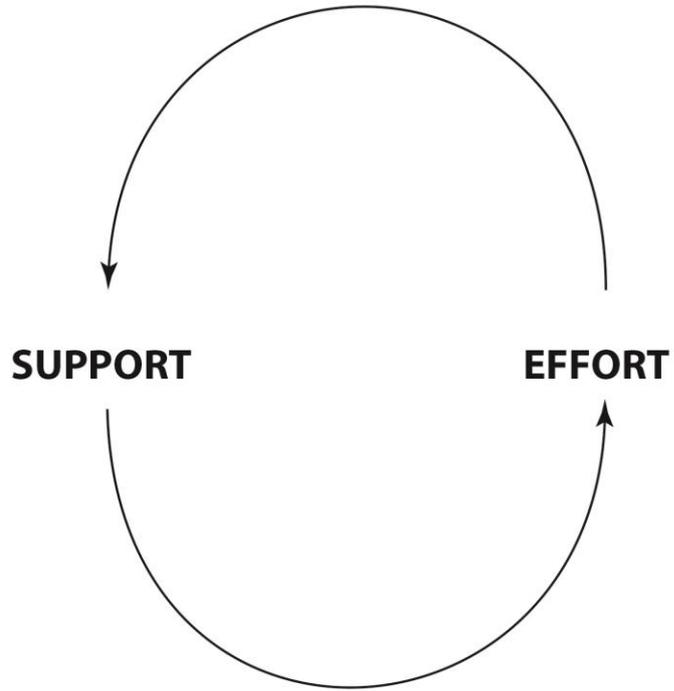




The Design Challenge

Finding solutions

Creating legacies



ACTIVATE ENGAGE CREATE









Atklāj Latviju no jauna

Like This Page · September 30, 2018 · 🌐

Aizputē āboli pat uz māju sienām aug!
Gleznojums atrodas blakus mākslinieku rezidenču centram "Serde" un tas atspoguļo vienu no mazpilsētas vērtībām - ābejdārzus un ābolus.
#atklaj/Oto 🍏
👤 Liēna Grošteina
See Translation

👍❤️👏 841

1 Comment 210 Shares



Like



Comment



Share

Most Relevant ▾



Līga Ailte How very very beautiful

Like · Reply · See Original (Latvian) · 15w

Translate All Comments



Write a comment...





Aizpute, Latvia: Apple Murals +AR



The Design Challenge

Promoting wider land ideas + values

Can you prescribe nature?

By Helen Briggs
BBC News

8 July 2015



Taking a walk in the forest reduces negative thought patterns

"Here's your prescription, walk in the forest five times a week for an hour."

A team at Stanford University compared the effects of taking a nature walk through a greenspace with a stroll in an urban environment - in this case beside a busy road in Palo Alto.

Brain scans showed reduced activity in an area of the brain linked to risk of mental illness in participants who took a 90-minute walk among oaks, birds and squirrels.

They also reported lower levels of rumination.

Gregory Bratman of Stanford University, one of the researchers on the study, says moving to cities has "happened in a blink of an eye in terms of human evolution".

As he points out, never before have so many of us been removed from nature - already 50% of the global population lives in towns and cities; a figure that is projected to rise to 70% by 2050.

Some cities and nations are already thinking about the mental health benefits of nature when designing urban areas.

"There's an increasing body of evidence showing that natural versus urban areas benefit us at least emotionally with our mood and possibly also our cognitive development too," says Mr Bratman.

"You could think of these mental health benefits of nature as a psychological ecosystem service."

The Stanford University team is looking at ways to tease apart the "active ingredients" of the nature experience to find ways to bring nature into the city.

“

We evolved with nature and it's completely unnatural for us to be separated from it

Nigel Dunnett, University of Sheffield

<https://www.weforum.org/agenda/2018/10/doctors-in-scotland/>

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Doctors in Scotland can now prescribe nature





CAPE
Canadian Association
of Physicians
for the Environment

Association Canadienne
des Médecins
pour l'Environnement
ACME

Call to Action on Climate Change and Health: From Canada's Health Professionals to Canada's Federal Political Parties

February 5, 2019

This Call to Action comes from doctors, nurses, medical officers of health and public health professionals across Canada.

We are calling on all federal political parties in Canada to see **climate change** as we, and the World Health Organization, see it—as **"the greatest health threat of the 21st century."**¹ We are asking you to see **climate solutions** as we, and the prestigious medical journal, *The Lancet*, see them – as **"the greatest health opportunity of this century"**.² Many of the policies needed to fight climate change will produce immediate health benefits, reduce healthcare costs, and improve social cohesion and equity in our communities.

We are calling on each of you to make meaningful and effective action on climate change a central theme of your party's platform as you prepare for this year's federal election.

Climate change is already harming the physical and mental health of Canadians.

Cardiorespiratory impacts from worsening air pollution due to wildfires left many Canadians coughing and cooped up inside in recent summers.³ Emergency evacuations and population displacement from wildfires and floods have been associated with trauma and post-traumatic stress disorder.⁴ In the Canadian Arctic, where temperatures have increased by up to 3°C from the 1950s,⁵ health risks are increasing from food insecurity resulting from decreased access to traditional Indigenous foods.⁶ Meanwhile, Lyme disease has spread into new regions in Canada⁷ and more intense and prolonged pollen seasons have the potential to exacerbate hay fever and asthma.¹⁰

Over the last two decades, Canada has seen a dramatic increase in the costs of extreme weather events such as hurricanes, floods, and wildfires. The Insurance Bureau of Canada reports that claims for natural disasters such as floods and wildfires have grown from \$400 million per year in previous decades to approximately \$1 billion per year today, while government funding for flood damage and other disasters has increased steadily from about \$100-million per year two decades ago to \$2 billion per year in 2013-14.¹¹



HEALTH

Canadian Doctors Are About to Start Prescribing Art For Patients' Health

CARLY CASSELLA 3 NOV 2018

An unconventional new initiative in Canada will soon allow doctors to literally prescribe art to their patients - by giving them free access to a local museum.

Wandering through the Montreal Museum of Fine Arts (MMFA), these patients and their loved ones will be able to feast their eyes on the soothing properties of art.

The initiative is the first of its kind in the world. And while you certainly can't replace a conventional treatment with a couple of paintings, the idea is for such 'prescriptions' to assist a person's current treatment plan.

It may look a lot like a marketing effort for the museum (and it's possible there's an element of promotion in this) but there's also [increasing evidence](#) that the display of visual art, especially if it's depicting nature, can have positive effects on health outcomes.

In some ways, the benefits of looking at art appear [a little similar to physical activity](#). A [systematic review](#) of clinical art therapy found that visual art has significant and positive effects on depression, anxiety, mood, trauma, distress, coping ability, and self-esteem.

Findings like these are slowly gaining traction in the medical community, making artwork a [higher priority](#) in hospitals around the world.

In the US, [nearly half](#) of all health care institutions have reported including art in health care programming, such as art therapy and the placement of visual art in hospitals.

With spaces dedicated to art therapy and also a medical consultation room, the MMFA already [provides](#) services for people with mental health issues, eating disorders, [autism spectrum disorder](#), epilepsy and [Alzheimer's](#) disease, just to name a few.

So far over 100 doctors from MFdC have signed up to the pilot program.

Nicole Parent, head of the MFdC, [said](#) these numbers just go to show that even physicians have "a sensitivity and openness to alternative approaches."



SUSTAINABLE DEVELOPMENT GOALS

1 NO POVERTY

2 ZERO HUNGER

3 GOOD HEALTH AND WELL-BEING

4 QUALITY EDUCATION

5 GENDER EQUALITY

6 CLEAN WATER AND SANITATION

7 AFFORDABLE AND CLEAN ENERGY

8 DECENT WORK AND ECONOMIC GROWTH

9 INDUSTRY, INNOVATION AND INFRASTRUCTURE

10 REDUCED INEQUALITIES

11 SUSTAINABLE CITIES AND COMMUNITIES

12 RESPONSIBLE CONSUMPTION AND PRODUCTION

13 CLIMATE ACTION

14 LIFE BELOW WATER

15 LIFE ON LAND

16 PEACE, JUSTICE AND STRONG INSTITUTIONS

17 PARTNERSHIPS FOR THE GOALS

SUSTAINABLE DEVELOPMENT GOALS

GREEN CONNECTIONS

Building healthy urban corridors

1. Contextualizing the **land use challenge**
2. Introducing the **tools**
3. Designing **solutions, researching options**
4. Discussing **next steps** community and regional engagement
5. **Partnering** - Neighborhood residents, stakeholders, designers, artists, solar installers/experts/companies, architects, landscape architects, university partners, developers, climate change advocates, municipal government representatives, regional land bodies and garden groups contribute add to the project's development
6. **Building processes**
7. **Creating legacies**
8. **Launching the site**
9. **Training** communities, educators, students, regional bodies to maintain, care, evolve the project outcomes

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Landscape Architect and Planner**

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**Robin Clark, RPF, ATE, QEP
Natural Resource Management
Consultant**

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Q+A

**Sylvia Grace Borda, MFA, Women4Climate Change
Founder || C.A.R.E – Climate Arts for Resilient Environments
climatearts.ca**