CITYSTUDIO

VANCOUVER

CITIES
- **Citizen engagement**
- **Prototypes**
- **Staff support**

COMMUNITY
- **Citizen expertise**
- **Lived experience**
- **Engagement**

SCHOOLS
- **All levels of students and faculty**
- **Employable skills**
- **Something real in school**
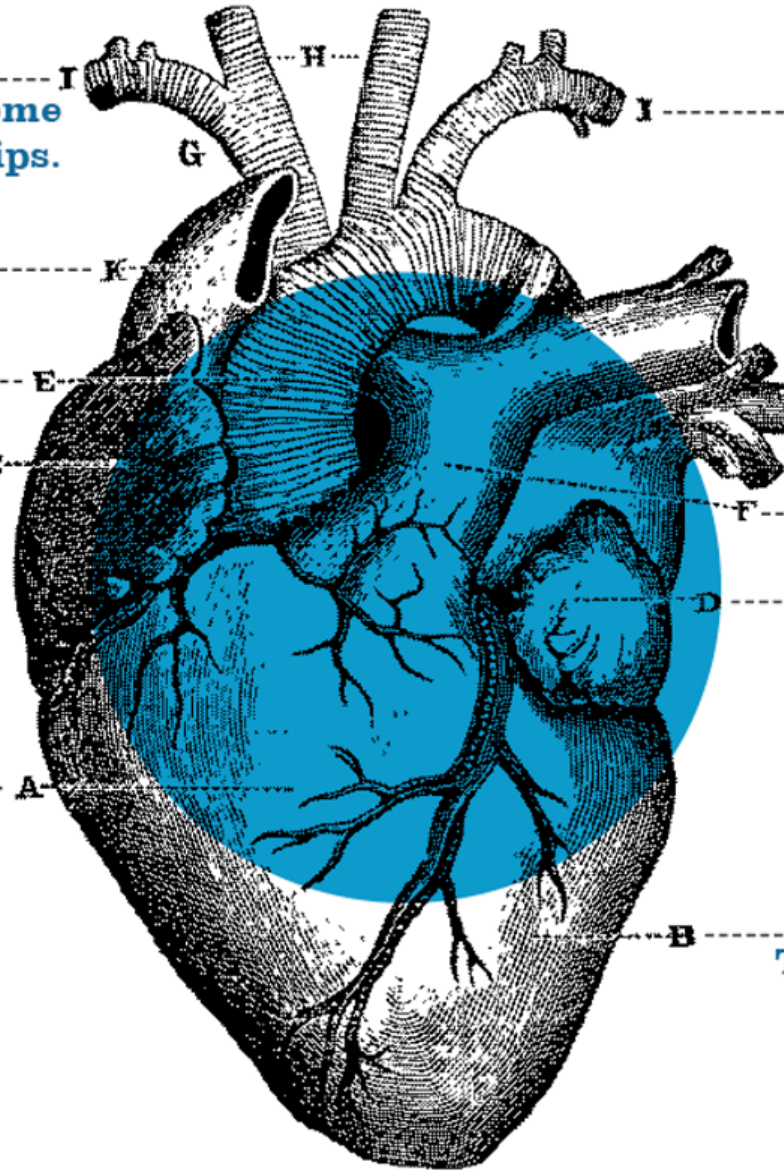
CITYSTUDIO

We learn that good projects come from good relationships.

We learn by doing.

We learn to listen.

We learn that aesthetics matter.

We will see that small projects can add up to big changes in your community, your city and in yourself.

We find ways to work on global issues by putting a project on the ground in a local place.

And if we do it right, we will be high fiving at the end.

We hear Yes more than No.

We've been to the future and it ends well.

Trust the Process.

CITYSTUDIO

CityStudio Vancouver
City of Vancouver
Simon Fraser University, University of British Columbia, Langara College, British Columbia Institute of Technology, Emily Carr University of Art + Design

CityStudio Victoria
City of Victoria
Royal Roads University, University of Victoria

CityStudio Abbotsford
City of Abbotsford
University of the Fraser Valley

CityStudio North Vancouver
City of North Vancouver
Capilano University

CityStudio London
City of London
Brescia University College , Fanshawe College, Huron University College, King's University College and Western University

CityStudio Waterloo
City of Waterloo
Wilfrid Laurier University

CityStudio Brantford
City of Brantford
Wilfrid Laurier University

CityStudio Montreal
City of Montreal
Concordia

CityStudio Corner Brook
City of Corner Brook
Grenfell (Memorial University)

CityStudio Oslo
City of Oslo
University of Oslo, The Oslo School of Architecture + Design, Norwegian University of Life Sciences, Oslo Metropolitan University, BI Norwegian Business School

CityStudio Bendigo
City of Greater Bendigo
La Trobe University

CityStudio Logan
Logan City Council
Queensland University of Technology

North Vancouver
Abbotsford
Vancouver
Victoria

Oslo

Corner Brook
Montreal
Brantford
Waterloo
London

Logan
Bendigo

CITYSTUDIO
Network

2018/19		TOTAL IMPACT
720	students	5,620
240	projects	790
36	courses	251
48	faculty	320
51	city staff	252
20,820	student hours	153,744

CITYSTUDIO

1. CONVENE CITY STAFF ANNUALLY

2. MATCH PROJECTS WITH SCHOOLS

3. DESIGN PROJECTS TOGETHER

4. LAUNCH PROJECTS IN PUBLIC

5. SHARE AND EVALUATE PROJECTS

Project Process

CITYSTUDIO

CITYSTUDIO

FALL 2017 PROJECTS

1) Marine Birds 2) Rockweed... — UBC - Enviro Science — Access to Nature/Water — Nick Page / Angela Danyluk
Reducing Single Use Items — UBC - LFS — Zero Waste — Paul Gagnon — Will Valley
Reducing Single Use Items — UBC - Economics — Zero Waste — Paul Gagnon — Catherine Douglas
Roll... Vacant Storefronts — UBC - M Ed Sustain — Access to Nature/Land End — Various — Rob VanWynsberghe
Dissection Arbutus... — UBC - Planning — ... — Su-Jan Yeo
Sustainable Food Pop-ups — SFU - Business — Zero Waste — TBC — Lisa Papania
...— SFU - Business — Green Business — Pietra Basilji — Lisa Papania
Getting Out the Vote — SFU - IAT — Cultivating Connections — ... — ...
... Artist in Residence — SFU - IAT — Access to Nature/Healthy Moving — Marie Lopes
Planting... Public Art — SFU - Health Sciences — Feeling Safe + Included — ... — Paola Ardiles
Sea Level Rise — SFU - IAT — Climate Leadership — Tara Barkley + Lisa Bridges — ...
Flexible... — BCIT - Interior Design — Green Buildings — Chris Higgins
TBC/Various — Langara - Bio... — ... — Various
Community Challenge (Water) — ECUAD Film/Media — Safe + Included/ ... — Kelie Craig — Dennis Burke
Patricia James — SFU - Dialogue — Innovation/Placemaking — Paul Krueger, VIVA Vancouver
Buddy Up! — SFU - Dialogue — Cultivating Connections — ... — ...
City Gone Wild — SFU - Dialogue — Biodiversity/Rewilding — Brad Krueger — ...
Chalk Talks — SFU - Dialogue — Cultivating Connections — Paul Krueger, VIVA Vancouver
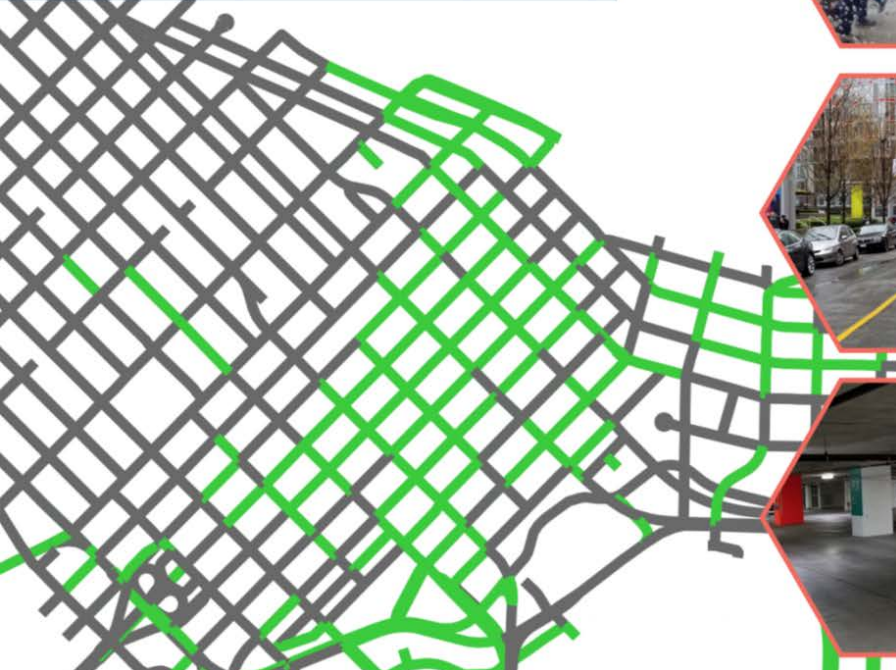Connect Fest — SFU - Dialogue — Cultivating Connections — Paul Krueger, VIVA Vancouver

SPRING 2018 PROJECTS

1) Marine Birds 2) Rockweed Study — UBC - Enviro Science — Access to Nature/Clean Water — Nick Page...
Reducing Single-Use Items — UBC - LFS — Zero Waste — Paul Gagnon
Reducing Single-Use Items — UBC - Economics — Zero Waste — Paul Gagnon
Reduce Meat Consumption — UBC - Science — Lighter Footprint — Wendy A...
Diverse Cultural Engagement — UBC - Science — Lighter Footprint — Wendy A...
Life of the Woodwards Piano — UBC - Film — Safe + Included — Miro O...
Urban Cycling — UBC - Kinesiology — Green Transport — Mike Zipf...
TBC — Langara - Geography — TBC — TBC
Activating Vacant Storefronts — SFU - Communication — Safe + Included — David Lew...
Resilient Neighbourhoods — Langara - Planning — Cultivating Connections — Katia Tynan...
1) Park Tree Survey 2) Forest Walks — UBC - Urban Forestry — Access to Nature — Dana McDo...
Voter Engagement Pop-Ups — SFU - Comm'ns — Cultivating Connections — Paul Henderson...
Voter Awareness Tools — SFU - Comm'ns — Cultivating Connections — Jennifer Pabill...
Voting Barriers + Recommendations — BCIT - Market... — ...
Zero Wa... — ...
Impact B... — ...
Enviro Ed... — ...
Civic Ins... — ...

Zoomed inset:

City Plan	Neal Wells	Meg O'Shea
(G) GCAP.	Neal Wells	
Zero Waste	Brad Badelt, Angela Danyluk	
(H) Healthy Human Services	Paul Czene, Colleen Hamilton	
(G) City Plan	Jason Hsieh	
(H) Environments to Thrive	Zane Hill + Megan Herod	
(G) Clean Air	Tamsin Mills	
(G) Climate Leadership	Chris Higgins	
(H) Collaborative Leadership	Colleen Hamilton	

Smarter Parking
Using AI to Identify Parking Inefficiencies

PROBLEM

Parking Downtown can be an unpleasant experience. Free spots are rare in peak hours, and drivers can cruise from block to block without finding a spot. In fact, according to Transportation 2040, up to 40% of traffic can be the result of such cruising. At the same time, nearby lots sit almost empty. Vancouver could be using its parking resources more efficiently.

WHAT WE DID?

We identified areas where drivers can save time by parking off-street instead of on-street. We did this by employing AI to simulate parking behaviour in and around the downtown core using traffic data from Google Maps and parking data from the city. We produced a map that shows areas which represent an opportunity for the city to manage curbside space to meet its transportation goals.

WHY IT MATTERS?

On- and off-street parking is managed by different agencies with little coordination. By analyzing data from multiple sources and using cutting edge AI tools, we found that this lack of coordination has resulted in inefficient use of parking resources: many off-street lots are often very under-occupied, while nearby street parking is full. Furthermore, on-street parking has been found to be bad for traffic and safety, increasing the risk to pedestrians and cyclists and reducing transit reliability. City life can be improved for everyone by moving parkers from streets to lots.

HOW IT WORKS?

Our simulator uses Deep Learning and Monte Carlo simulation to model traffic and parking behaviour. We predict on-street parking occupancy from observed payment data using a deep feedforward neural network trained on a combination of occupancy spot-check and meter payment data. We simulate the behaviour of a driver searching for street parking with a Monte Carlo simulation by assuming a driver chooses which street to search next based on it's expected occupancy. Then for each block in the city we estimate the fastest time to park both on- and off-street (at an EasyPark lot) and look at the difference.

WHAT'S NEXT?

Correct these imbalances by implementation of an off-street reservation system, price changes, time restrictions in off-street lots, and/or providing better information to the public through signage and apps.

UBC
CPSC 532L
AI for Social Impact

Kevin Leyton Brown

Harvard
Scott Kominers

COV Plan: Transportation 2040

City Staff
Tadhg Healy, Digital Channels

Rene Cravioto, Enterprise Data & Analytics Program

Christopher Darwent & Jeffrey Li, Parking Management

CITYSTUDIO

BUILDING FOR BIODIVERSITY

UBC
ENVR 400
Projects in Environmental Science

Dr. Michael Lipsen

Dr. Tara Ivanochko

Tamara Walton

Marie Donohue

Weihao Wang

Qin Li

COV Plan
GCAP

City Staff
Angela Danyluk,
Sustainability Group

CITYSTUDIO

LANGARA

NURS 4163, Lyren Chiu

MARK 4820, Frederica Jensen

BUSM 4300,
Kevin James,
Caroline Dickson

COV Plan:

New Start Strategy

City Staff

Nadia Carvalho, Social Policy & Projects

CITYSTUDIO

Be Smart with Sharps

BCIT

MKTG 4418,

Tom Jopling

NURS 5030,

Karla Green

COV Plan

Healthy City

City Staff
Tobin Postma, Strategic Initiatives

Vancouver Coastal Health
Chris Van Veen

CITYSTUDIO

The Vancouver Plan

5 Projects: 6 COV Staff with 371 Students on 4 Vancouver campuses

- **Marketing to Engage Youth**

- **Engagement Survey to 2000 millennials and 40 focus groups**

- **Equitable Community Participation toolkit**

- **Dynamic Youth Engagement and Activity Recommendations**

- ***I wish Vancouver,* 1st Place Hubbub #13 (Langara MARK 2400)**

LANGARA
MARK 2400
MARK 4820

BCIT
MKTG 3309

UBC
SOCI 361

SFU
SA 402

COV Plan
Vancouver Plan

City Staff
Cory Dobson
Neal Wells
Arthur Ruiz
Mumbi Maina
Lara Honrado
Jason Hsieh

CITYSTUDIO

You're Invited!

April 3, 2020

HUBBUB 14

Vancouver City Hall

CITYSTUDIO