



# Build Smarter Live Better Think Whinge

Metro Vancouver Housing Committee • September 2023

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Co-Founder

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CANADA'S MOST INVESTABLE CLEANTECH VENTURES

**Foresight 50**

**SOLARIMPULSE**  
FOUNDATION

# The Problem: Urban Housing Industry in

Facing challenges in a highly fragmented service-based industry with a systemic lack of innovation and endless cost escalation

## Sustainability

1st Global Source of GHG Emissions

39

portion of  
GHG  
emissions  
are from  
buildings

## Effordability

The Lost Logger Industry

0

Productivity gains in  
75 years

# Housing Technology with a Product Line

First form in product software robotics in mass timber building systems for quality housing that can be built faster more affordable and consistently carbon neutral

Advantages to deploying a product and platform approach

1. Integration - our end-to-end technology platform is scalable and repeatable
2. Software - flexible and adaptable to each site and proforma
3. Design/Engineering - CSA certified and Passive House embedded in DNA
4. Mass Timber – embedded carbon and allows industrialization
5. First robotically assembled mass timber-based building systems

Image: 1250 Granville Street Vancouver, BC

# First Robotically Assisted High Rise Miss

“It's about building a new system for people that's without limitation it's about making sure we can extend our forest industry”

Premier John Horgan at our factory opening





**Build Smarter  
Live Better  
Think Change**

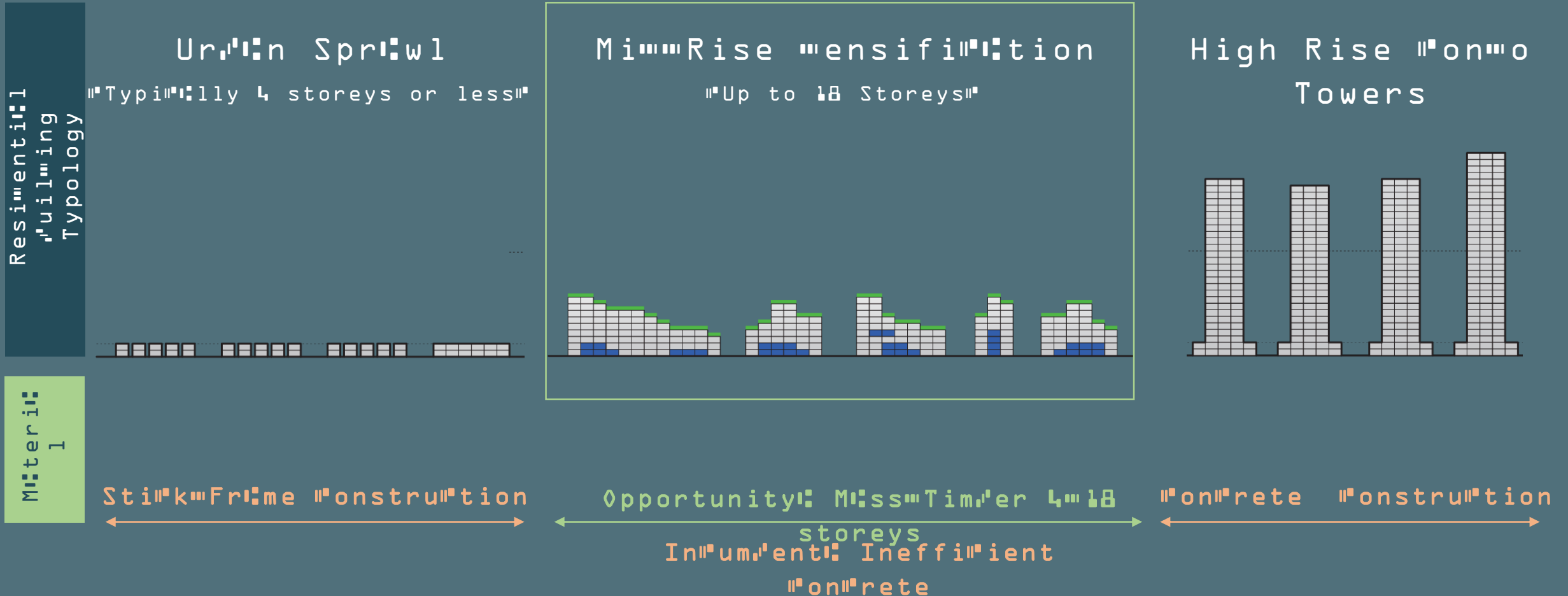
# Promut

Urban Mirise






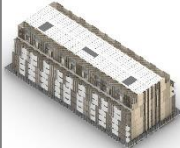




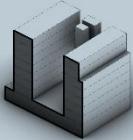
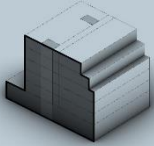
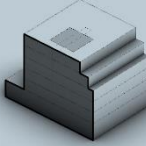
# Memorandum for Mid-Rise Intensification

We focus on mid-rise intensification where urban planning minutes coincide with the optimal mass timber high-rise building forms



# Intelligent City Product

## Building Typology Classifications

	COURTYARD	DOUBLE LOADED CORRIDOR	POINT BUILDINGS
Group 1 up to 6 Storeys Sprinklered US: Type III	 <p><b>3-6 Storey</b> Low-rise courtyard residential building with light from two sides in all units.</p> <p>Priority: 1</p>	<p>TBD</p> <p><b>3-6 Storey</b> Low-rise double loaded corridor residential building.</p> <p>Priority: 2</p>	 <p><b>3-6 Storey</b> Low-rise point access residential building, commonly infill.</p> <p>Priority: 2</p>
Group 2 up to 12 storeys Sprinklered US: Type IV	 <p><b>7-12 Storey</b> Mid-rise courtyard residential building with light from two sides in all units.</p> <p>Priority: 1</p>	 <p><b>7-12 Storey</b> Mid-rise double loaded corridor residential building.</p> <p>Priority: 1</p>	 <p><b>7-12 Storey</b> Mid-rise point access residential building, infill or free standing.</p> <p>Priority: 1</p>
Alternative Solutions US: Type IV	 <p><b>13-18 Storey</b> High-rise courtyard residential building with light from two sides in all units.</p> <p>Priority: 3</p>	 <p><b>13-18 Storey</b> High-rise double loaded corridor residential building.</p> <p>Priority: 3</p>	 <p><b>13-18 Storey</b> High-rise point access residential building, infill or free standing.</p> <p>Priority: 2</p>
	 <p><b>Separate Core</b> Increased community wellbeing, more affordable housing, and reduced energy use through cross ventilation and increased access to daylight.</p>	 <p><b>Distributed Core</b> Standardized approach to a well-known typology with lower operational and embodied carbon.</p>	 <p><b>Central Core</b> More efficient approach to a common urban infill solution for a more affordable price.</p>

# Product

Our business model disrupts one-off, piece construction with productization  
consistently scalability in capability

## Service Piece Integrated Team

- Design Build
- Fragmented Team
- Most in Time Estimation
- Design Build IP
- Shared Risk in Reward
- Tower's Systems Building

One off Custom

## Product

- Technology Platform
- Pre-engineered in Test
- Predictable Quality in Cost

Consistent Scalable

# Product Offerings

Digital design and planning manufacturing of structure system and envelope and one-stop solution for the entire building



Digital Twin

Fully Resolved  
Pre-engineered



Superstructure



Passive House  
Envelope

Fully Tested High-Rise  
Building Systems  
Automated Offsite Precision  
Manufacturing

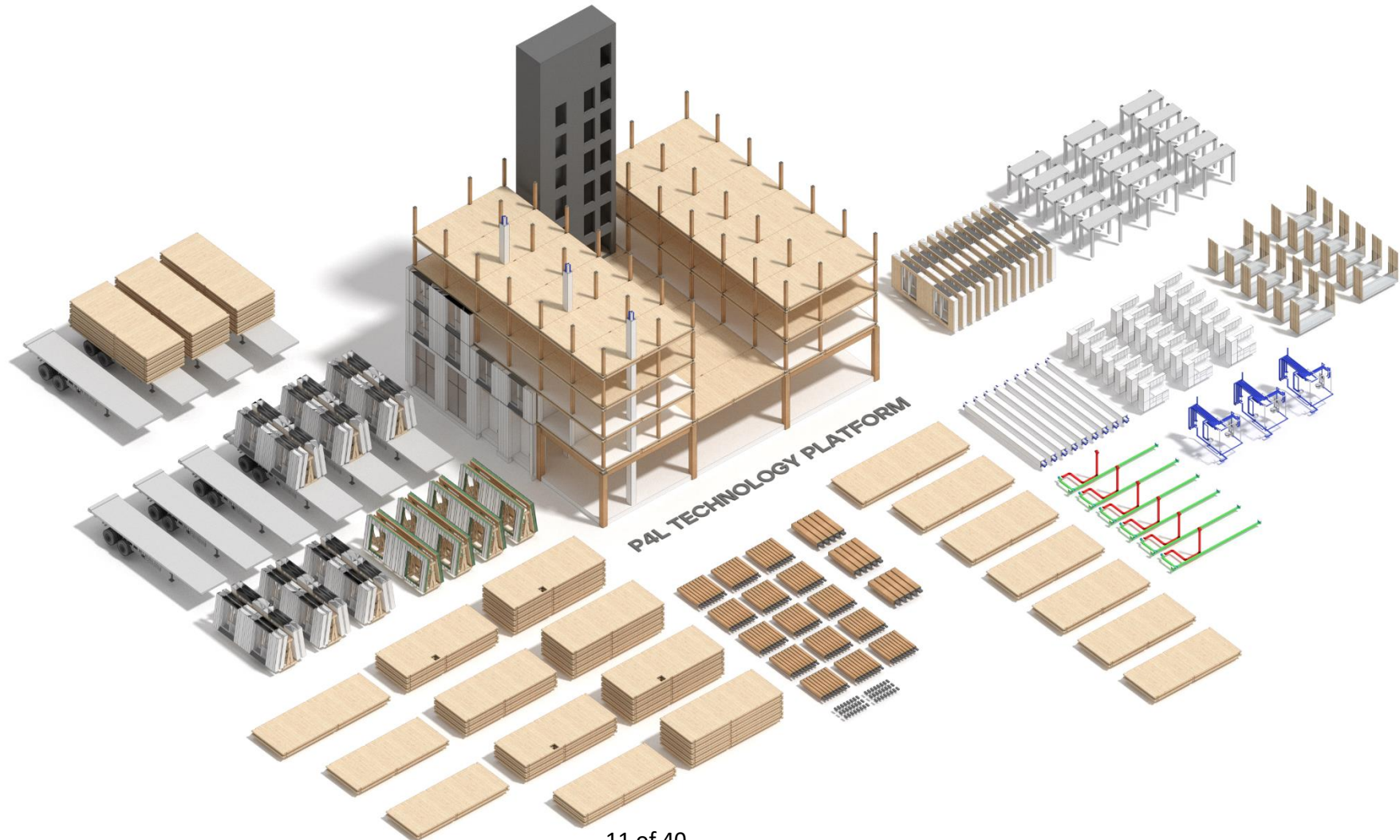


Full Product  
Solution

One-Stop Solution  
Zero-Risk

# P4L: Integrate™ Technology Platform

Individual technological assets converge into a powerful platform for urban housing



# ISI Certified Fire and Acoustic Testing

Complete for Systems passing including EN 101 2-hour fire tests and Sound Transmission Tests



# "SI" Certified "Water" and "Airtightness"

Testing completed of 20 highly performing test to ensure life cycle Passive House performance in building longevity



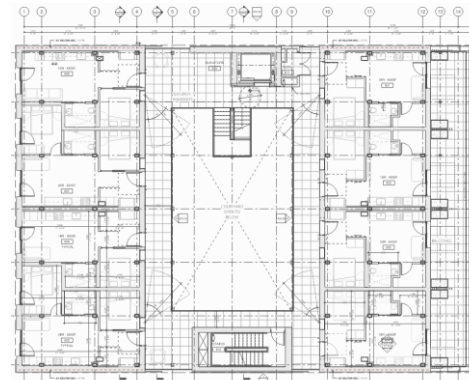
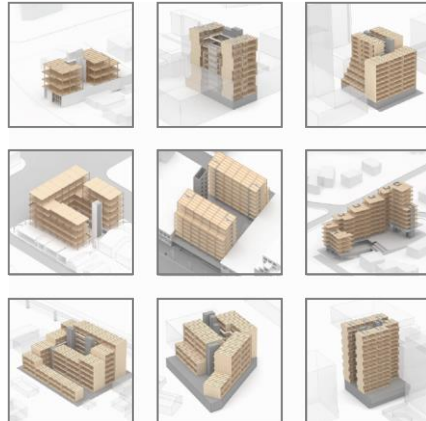
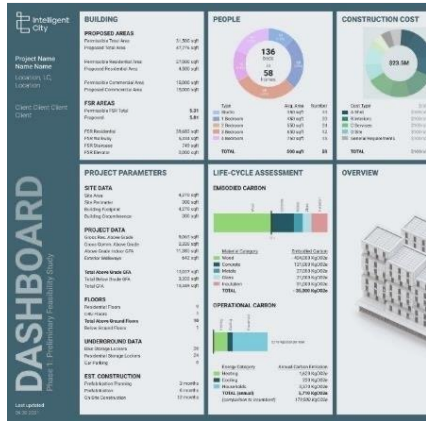
# Projects

Challenges Opportunities



# Products to Projects

Optimize the process to scale up



Design Kit

Parametric Software

Site Option Permit

Automated Manufacturing

On-Site Assembly

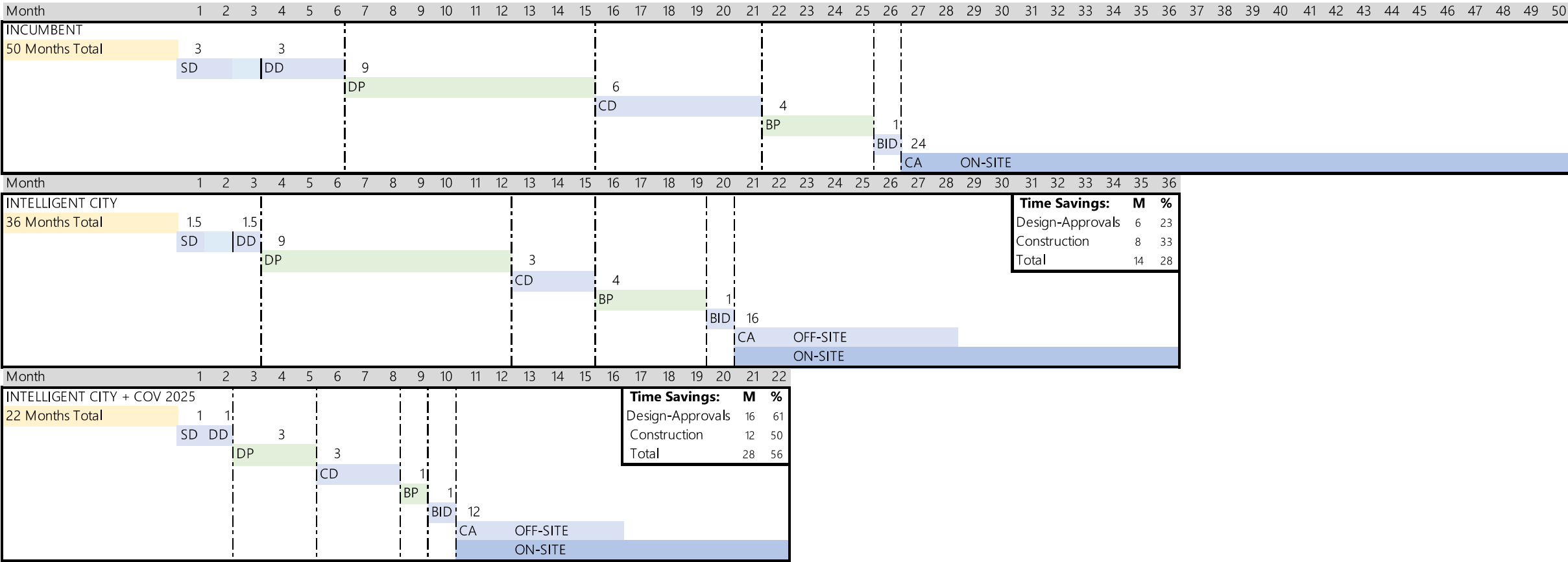
Productize Pre-design Process

Documentation Approval

Accelerate Construction

# Project Schedule

Where we see opportunities to "de-risk" in save time





# Thank you.

We welcome your comments and questions



# Capital Project Updates

## QUARTERLY UPDATE

Leigh Rollins, P.Eng.

Senior Engineer, Capital Projects

Metro Vancouver Housing

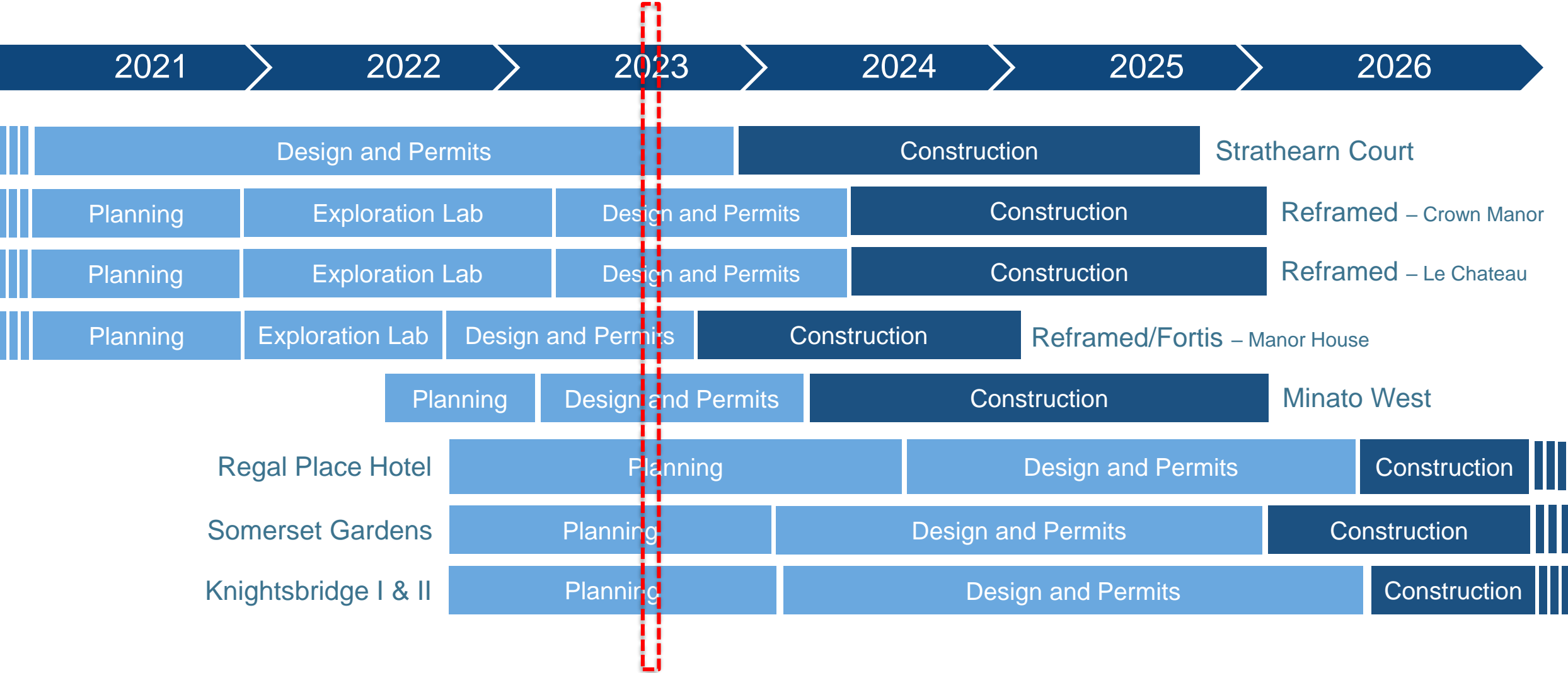
Evergreen Downs – Deep Retrofit

**metrovancover**

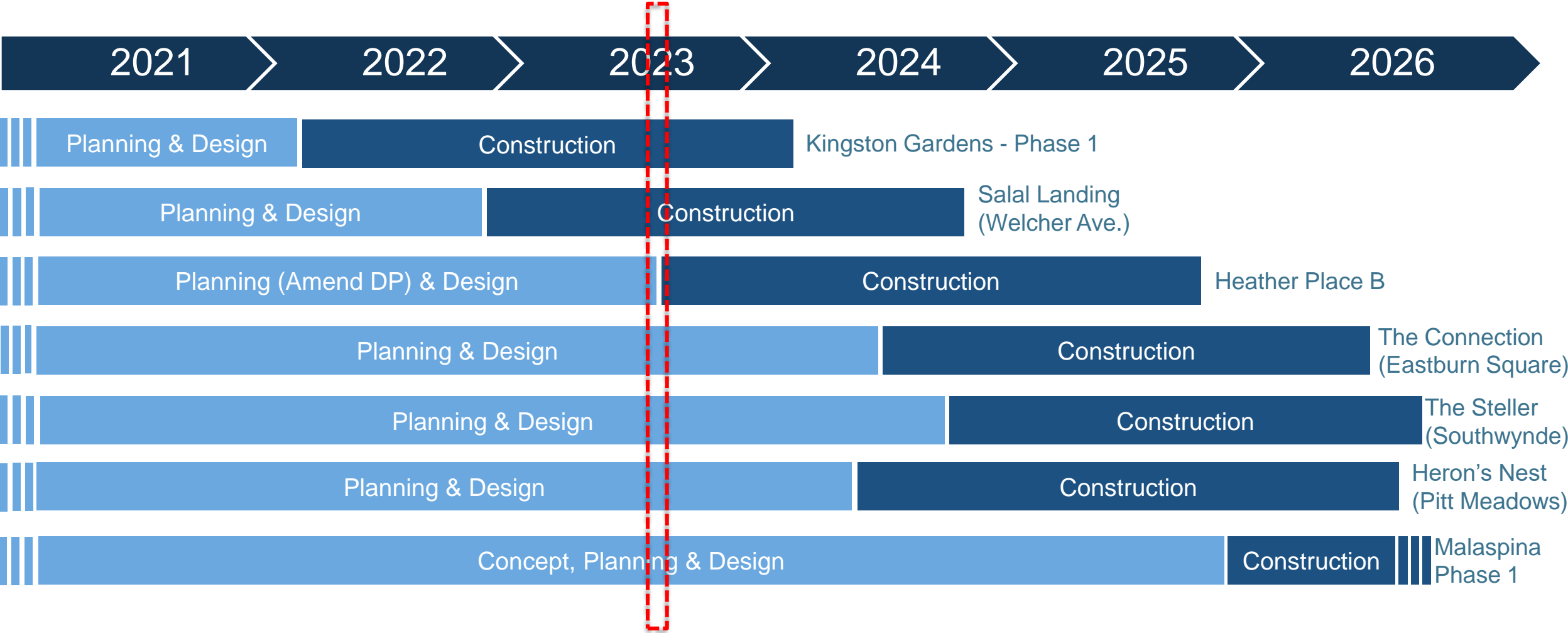
Housing Committee, September 8<sup>th</sup>, 2023

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# CAPITAL MAINTENANCE PLAN – DEEP RETROFITS



# CAPITAL DEVELOPMENT PLAN



# HEATHER PLACE – BUILDING B



# SALAL LANDING



# KINGSTON GARDENS





Regional Parks Field Trip

# 2023 Tenant Programs & Services Update

Q3 2023

Josie Mocnik

Community Development Coordinator, Tenant Programs and Services  
Metro Vancouver Housing

Housing Committee Meeting, September 2023

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JOY



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KINDNESS

2

# SENIORS' DAY



# SENIORS' DAY



# SPRING FLOWERS



# FREE FOOD PROGRAM



# COMMUNITY GARDENS







# Programming



# Programming



# Programming



# Programming

# CLEAN-UP DAYS





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## Welcome Spring!

Metro Vancouver Housing is pleased to offer complimentary spring bedding plants to all interested Meridian Village residents!



SCAN QR code and complete the online form to receive spring flowers.

Spring Flower Pick-up  
Tuesday, May 9, 2023  
3:30 PM to 5:30 PM  
at play court

We look forward to seeing the flowers in bloom and hope they spread joy in your community!



Please share the link and help your neighbour with the online form if required.

please email  
metrovancover.org  
Development Coordinator,

or call 604-306-6321

Resource  
Delivery

## Poverty Alleviation



Community  
Ecosystems



## EPSOM DOWNS MAKEOVER DAY – JUNE 16 2023







Thank you

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**metro**vancouver  
Together we make our region strong