WELCOME

THE WEBINAR WILL BEGIN SOON



Adaptive Reuse Trends

in the Commercial Real Estate Market and Implications for Environmental Due Diligence





Adaptive Reuse Trends

in the Commercial Real Estate Market and Implications for Environmental Due Diligence



Thursday, November 18, 2021 2:00 PM ET





Proud member of



JOIN TODAY!





SCAN ME



CANADA'S ONE-STOP SHOP

FOR ENVIRONMENTAL ASSESSMENT
DATA AND RESEARCH

erisinfo.com

Presenters

Urban Planning



Mary W. Rowe
Canadian Urban Institute

Developer



Alex Speigel
Windmill Development Group

Architect



Dev MehtaBDP Quadrangle

Environmental Consultant



Paula Hutchison Geosyntec Consultants

Moderator



Eric Pringle, Milestone Environmental Contracting





Mary W. Rowe, President and CEO **Canadian Urban Institute**

November 18, 2021



Institute

Canadian Institut Urban Urbain du Canada

Overview of Adaptive Reuse and CRE Market Drivers

Adaptive Reuse in a nutshell:

Repurposing the primary function of a building

COVID-19 has accelerated the need for adaptive reuse



Findings from CUI's Bring Back Main Street & Restore the Core

Bring Back Main Street (**BBMS**) and Restore the Core (**RTC**) studies found that:

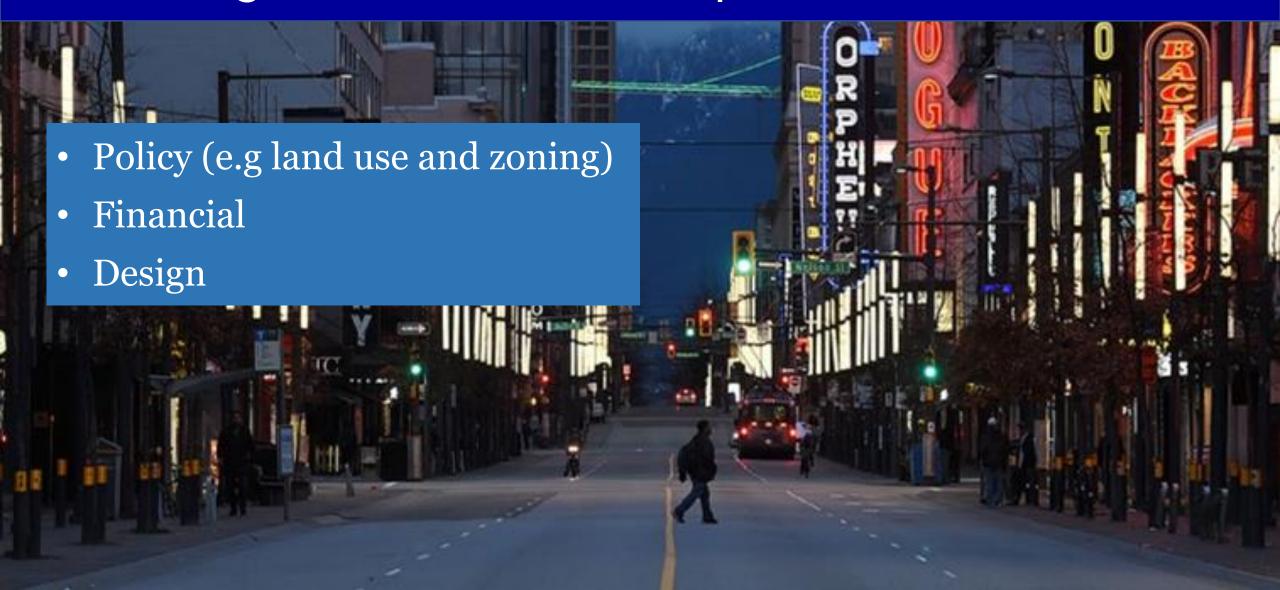
- Teleworking trend will continue years after the pandemic.
- Adaptive reuse can help our downtowns and main streets recover from the economic impact of COVID-



Benefits of adaptive reuse

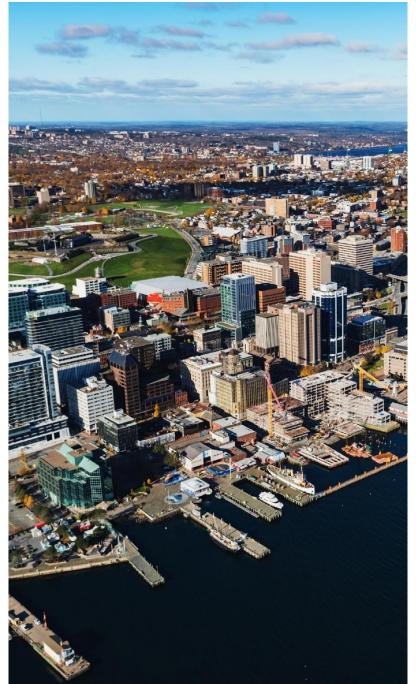


Enabling conditions for adaptive reuse



CRE Market Drivers



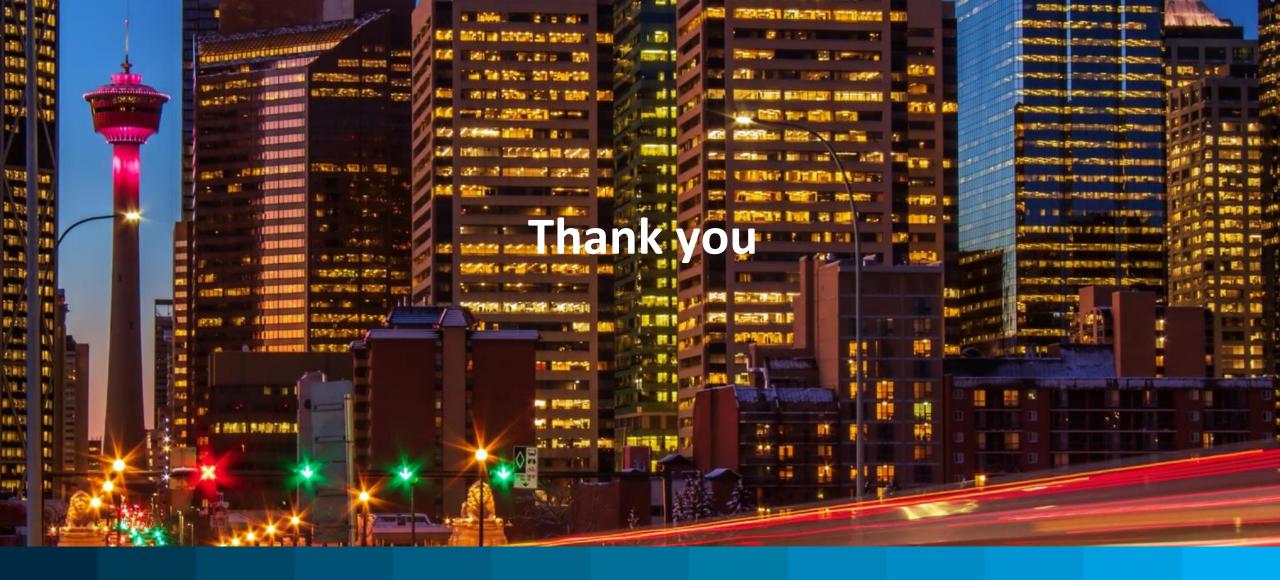






Macro trends in adaptive reuse





Mary W. Rowe, President and CEO **Canadian Urban Institute**

November 18, 2021



Canadian Institut Urban Urbain du Institute Canada

Adaptive Re-use:

Alex Speigel Windmill Developments

alex@windmilldevelopments.com



ERIS/CBN Webinar

November 2021

Adaptive Re-use

Benefits

Challenges

Case Studies:

- Kensington Market Lofts
- Tip Top Lofts
- The Loretto
- Arch Lofts



Benefits

Social:

- Historical continuity, heritage
- Neighbourhood context, scale

Green / Sustainability

- Retain embodied energy
- Minimal demolition: less landfill, less new material
- Infill sites support intensification

Planning

Existing envelope, height, density, window openings Neighbourhood acceptance

Marketing

- Appeal of unique building: higher sale value
- Benefit of unique features: ceiling heights, detailing



Challenges

Limitations in Design

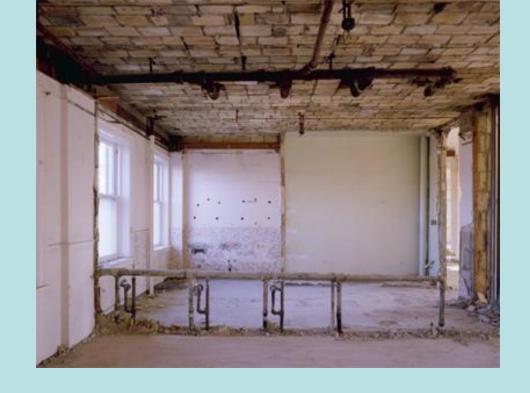
- Building envelope
- Floor plan
- Parking

Additional Cost and Time

- Approvals (HEA)
- Construction

Unknown factors

- Environmental
- Surprises













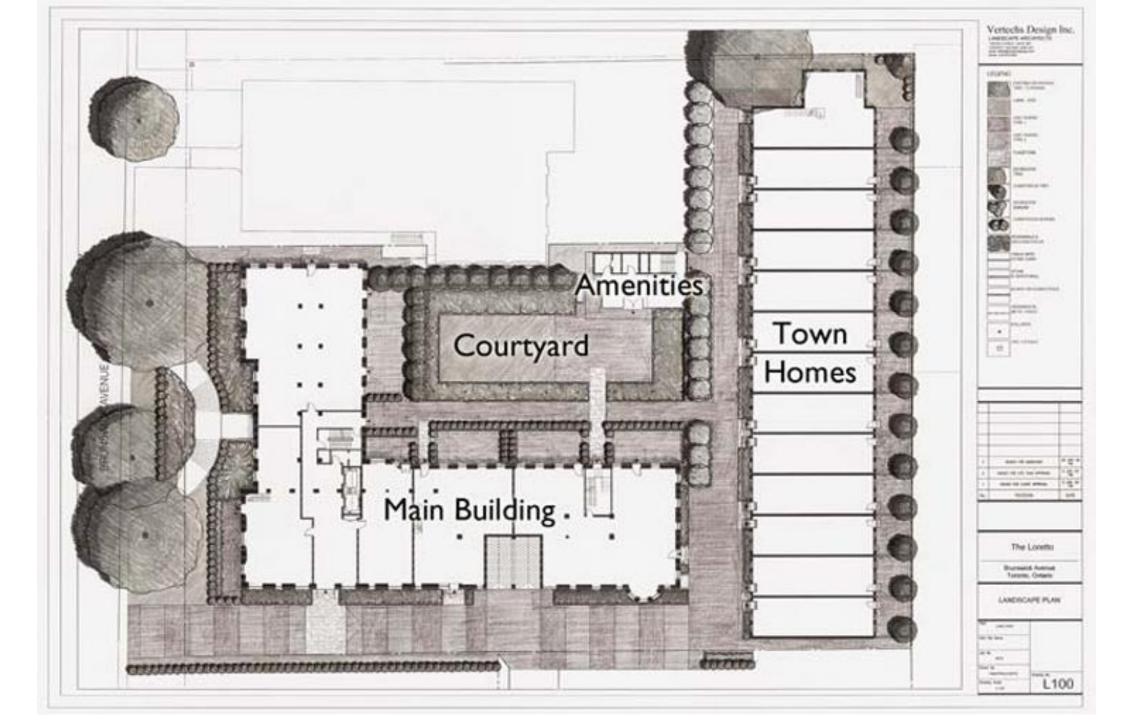




THE LORETTO

CONDOMINIUMS & TOWN HOMES in the annex

































ZERO CARBON ZÉRO CARBONE



SUSTAINABLE TRANSPORT TRANSPORTS DURABLES



LOCAL & SUSTAINABLE FOOD ALIMENTS LOCAUX ET DURABLES



LAND USE & WILDLIFE HABITATS NATURELS ET LA FAUNE



EQUITY & LOCAL ECONOMY ÉQUITÉ ET COMMERCE ÉQUITABLE



ZERO WASTE ZÉRO DÉCHETS



SUSTAINABLE MATERIALS MATÉRIAUX LOCAUX ET DURABLES



SUSTAINABLE WATER GESTION DURABLE DE L'EAU



CULTURE & COMMUNITY
CULTURE ET PATRIMOINE



HEALTH & HAPPINESS SANTÉ ET BONHEUR

Kensington Market Lofts

Developer C+A Developments / Orenda Development

(with Equivest, ORDC)

Architects RB Barnet, Paul Oberst

Kohn Shnier Architects

Structural Blackwell Bowick
Mechanical Enso Consulting
Electrical DeCaria Engineering
Contractor Richard and BA Ryan

Tip Top Lofts

Developer Tip Top Lofts Inc (Context Development, Deutchebank)

Architect architects Alliance
Heritage Architect ERA Architects

Structural Yolles Mechanical MCW Electrical MCW

Construction Manager Lomax Management

The Loretto

Developer Context Development

Architect architects Alliance

Quadrangle Architects

Heritage Architect ERA Architects

Structural RJC

Mechanical Able Engineering
Electrical Able Engineering

Construction Manager Veismann Consulting Ltd.

Arch Lofts

Developer Windmill Development Group

Architect Caricari Lee Architects

Heritage Architect Goldsmith Borgal

Structural Blackwell
Mechanical Integral
Electrical Integral

Construction Manager Ledcor

Adaptive Re-use:

Alex Speigel Windmill Developments

alex@windmilldevelopments.com



ERIS/CBN Webinar

November 2021

Innovating on History

BDP. Quadrangle





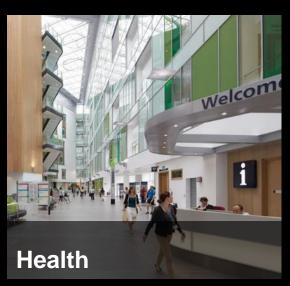












Services

Architecture

Design

Urbanism

human_space

Markets

Mixed-Use

Residential

Workplace

Retail

Transit

Media

Education

Health

Expertise

Adaptive Reuse

Universal Design

Sustainability























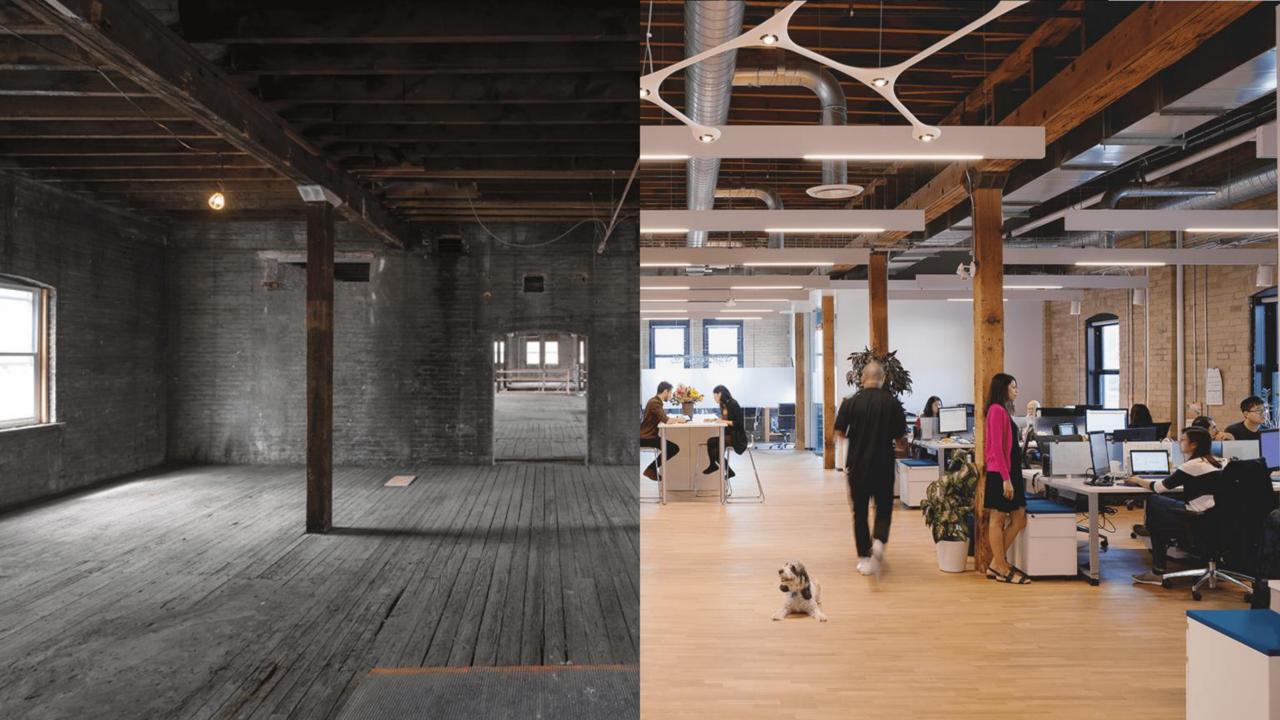
















Bata Shoe Factory

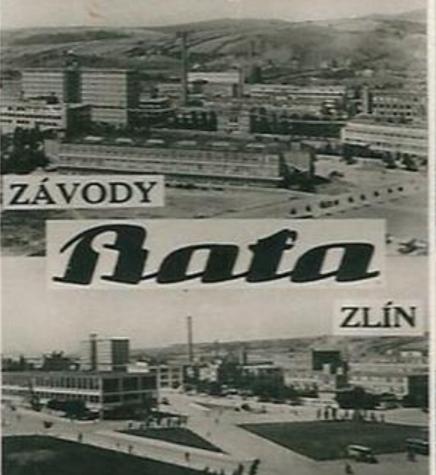














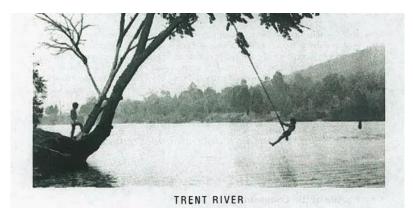




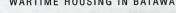




BATAWA SHOPPING CENTRE







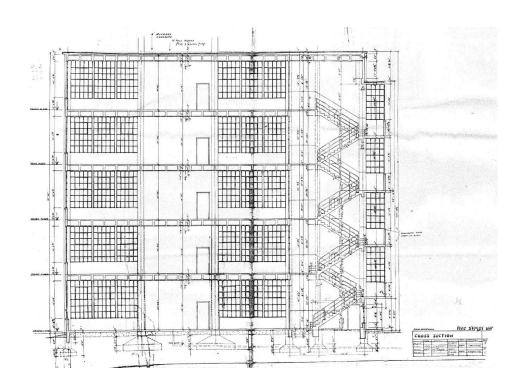


THE SACRED HEART CATHOLIC SCHOOL







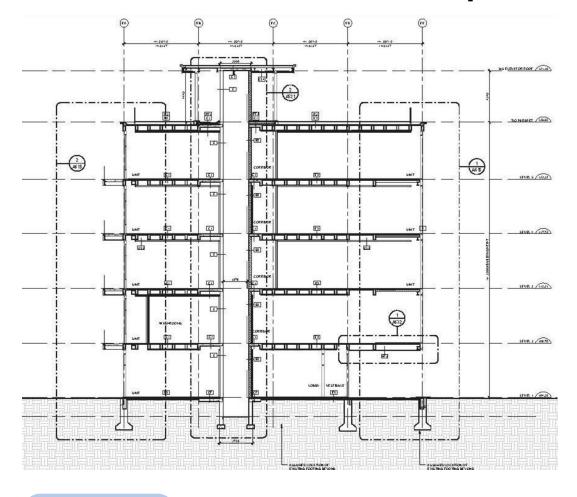






Phase 1

Remediation, Exterior Envelope & Elevator Core

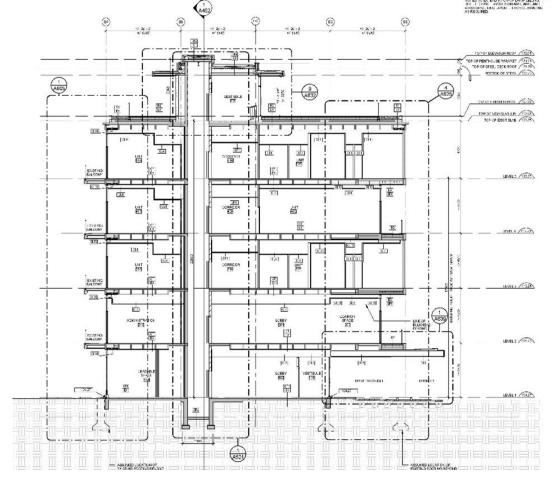




2014 - 2015

Phase 2

Remaining Envelope, Roof, Penthouse, Servicing, Landscaping & Interiors





2016 - 2019



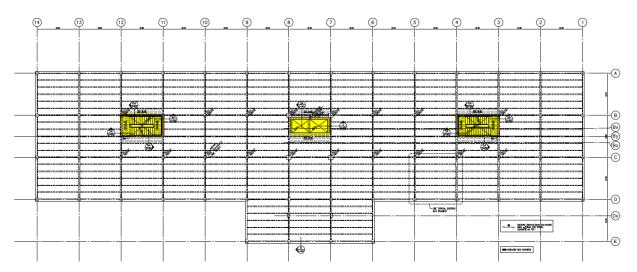










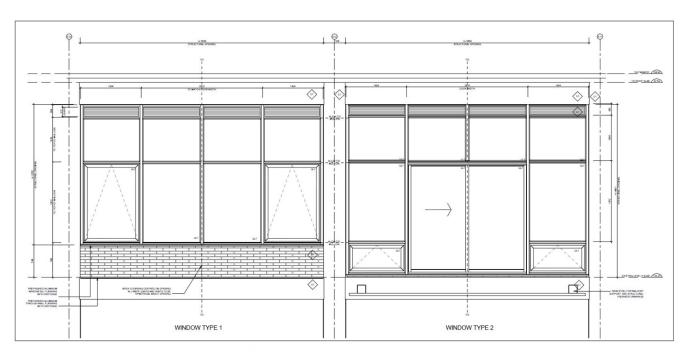


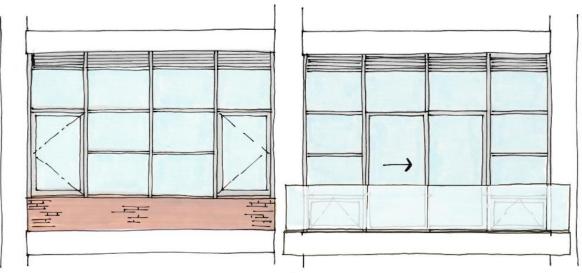


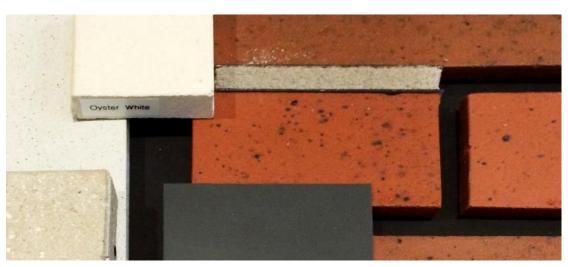


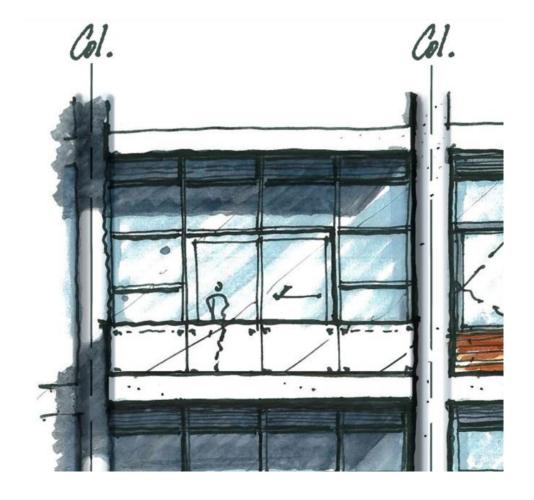


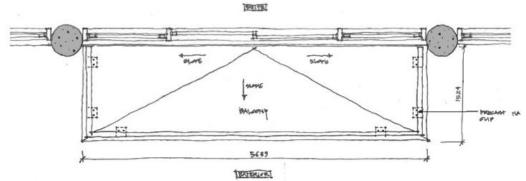


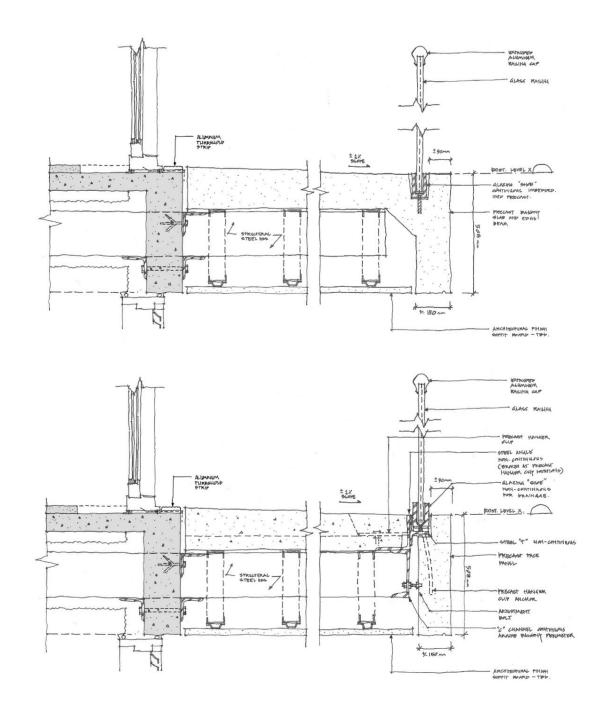


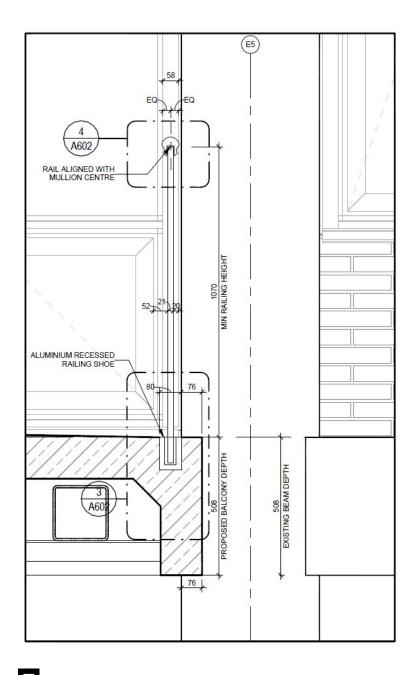


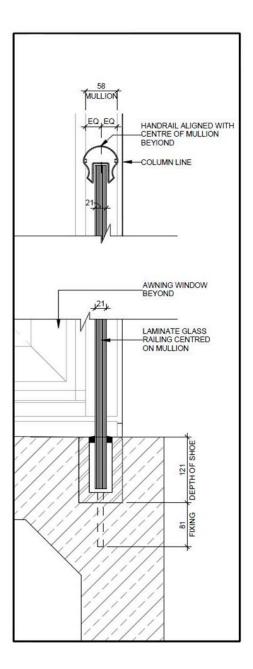


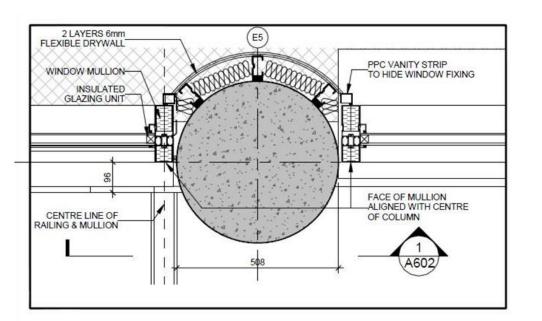


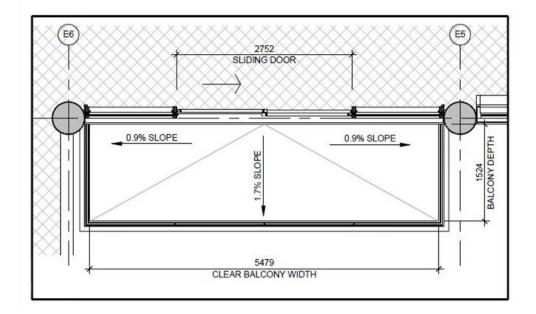








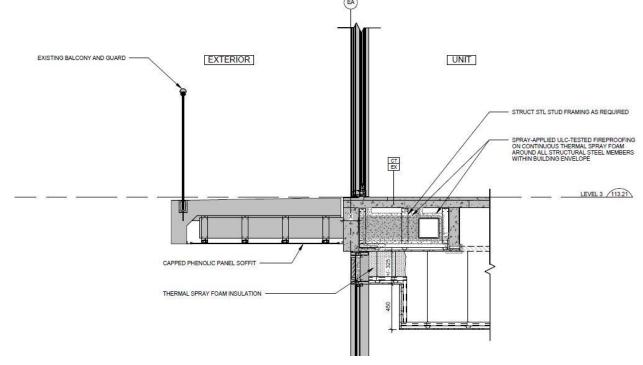






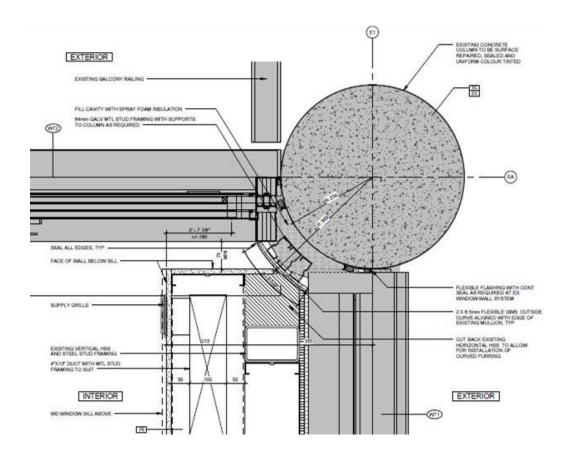












Residential Suite – Interior

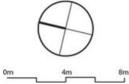










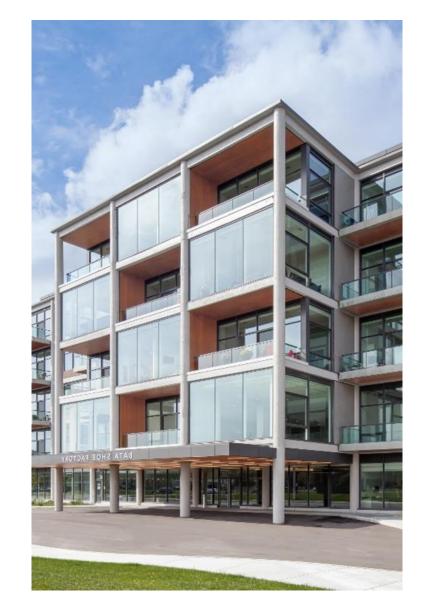


TYPICAL FLOOR PLATE

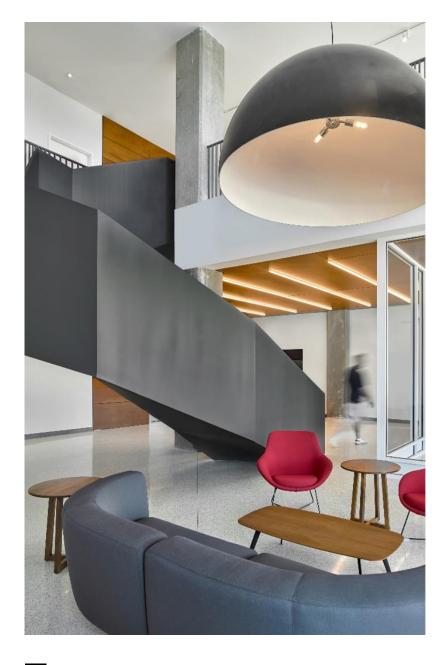


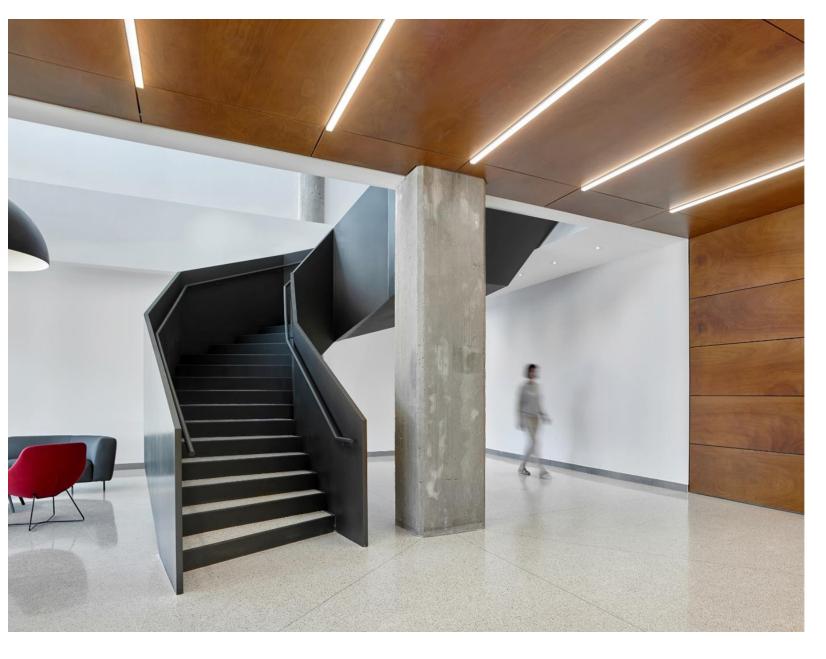














Thank You

BDP. Quadrangle

Geosyntec consultants

ERIS/CBN Webinar Adaptive Reuse

Paula Hutchison, P.Eng._(ON), QP_{ESA}, QP_{RA} |
November 18, 2021





Is Adaptive Reuse Considered Sustainable Development?



Sustainable development has been defined as development that meets the needs of the **present** without compromising the ability of **future** generations to meet their own needs.



For sustainable development to be achieved, it is crucial to harmonize three core elements: **economic growth, social inclusion and environmental protection.**



Environmental, Social, and Governance (ESG)



Environmental Stewardship

- Good environmental practices
- Transparency
- Energy efficiency
- Eco-friendly and energy performance technologies
- Carbon footprint
- Compliance with requirements
- Sustainable materials in supply chain
- Habitat protection and improvement
- Strategies to reduce risk and cost

Social Responsibility

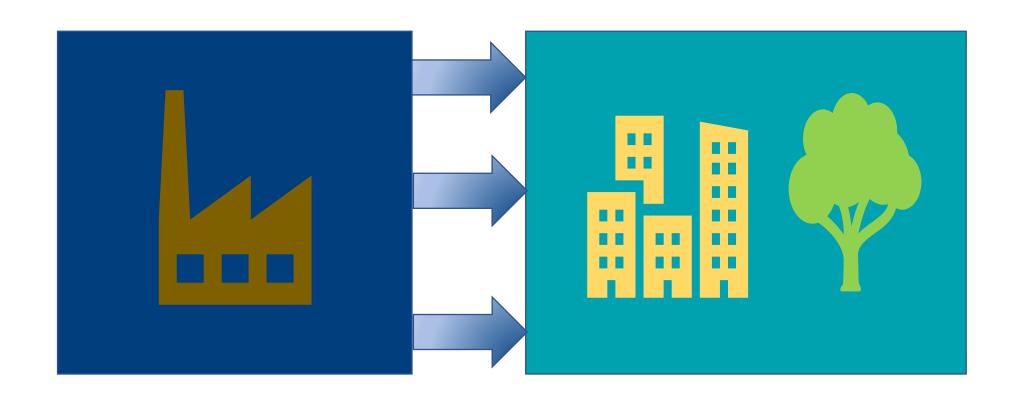
- Safety and security at work
- Improved health and occupational health
- Human factors
- Organization structure. leadership, compensation
- Community service, involvement and development
- Stakeholder identification and engagement
- Human rights, labor practices, consumer issues and protection
- Employee benefits, hiring and retention
- Promoting diversity, equity and inclusion

Governance and Economics

- Employee benefits and compensation
- Financial viability of organization (profitability)
- Transparency and ethics
- Executive compensation
- Dissemination of new technologies
- Good business practices, including procurement
- Relations between economic actors
- Supporting local economies
- Cost effective strategies
- Risk reduction strategies
- Cybersecurity



Hypothetical Adaptive Reuse Project





Adaptive Reuse Project Phases

Planning

Implementation

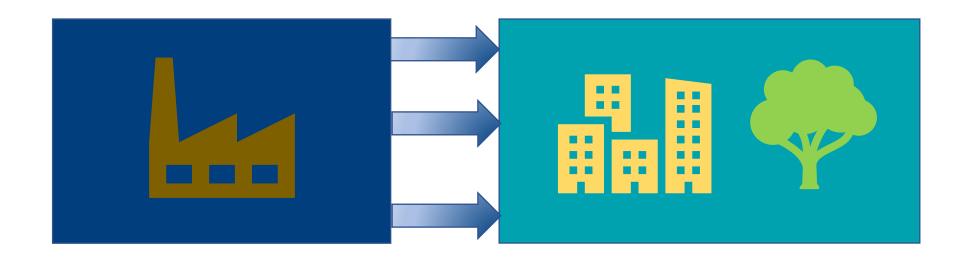
Management

Environmental Due Diligence

Environmental Investigation

Remedy Implementation Permits and Approvals

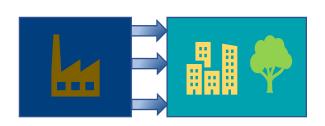
Longer Term Obligations





Planning Considerations





- Phase I Environmental Site Assessment, per CSA Z768-01
 - To identify actual and potential site contamination
 - Involves evaluation and reporting of existing information collected through records review, site visits, and interviews
 - Can include special attention items: PCBs, ACMs, lead, ODS, UFFI, radon, mould, noise, etc.
- Phase II Environmental Site Assessment, per CSA Z769
 - Confirm the presence of and characterization of the substances of concern at a given site.
 - Consider potential exposure pathways to contaminants in soil, groundwater, and soil/sub-slab vapour
- Hazardous Materials/Designated Substances Assessment
 - Confirm the presence of and characterization of the regulated building materials at a given site.

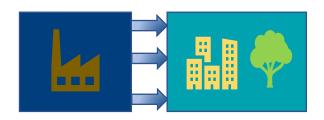


Implementation Considerations

Implementation

Environmental Investigation

Remedy Implementation Permits and Approvals



- The following can result in overall project successes in terms of duration and effort:
 - Innovative sampling and advanced characterization techniques should be considered as they can offer strategic advantages over conventional methods.
 - A remedial alternatives evaluation should be conducted in consultation with project team.
 - Alternative and innovative remedial solutions may be considered (e.g., beneficial reuse of soil, in-situ remediation, boundary control, phytoremediation, vapour intrusion mitigation systems, etc.).
- Multi-disciplinary project meetings can help to provide informed and collaborative approaches to complex Sites. Where possible, consider engaging in pre-consultation with stakeholders.
- Expectations should be managed appropriately for scheduling drivers associated permits and approvals.



Risk Assessment & Sustainability

Management

Longer Term Obligations



- What are the long-term obligations for operation, maintenance, and monitoring associated with risk management measures (RMMs) and institutional controls?
- How could your RMMs impact the sustainability of your development?
- For example,
 - overengineering of a VIMs could cause unnecessary energy demand; and, alternatively,
 - a VIMs designed for hydrocarbon and methane could enhanced to promote contaminant degradation, thereby causing a future potential for reduction of energy demand.
- Consideration of RMMs under the lens of ESG should be assessed (e.g., energy consumption, social impacts associated with assignment to condominium board, economic considerations for future property value, etc.).



Adaptive Reuse is Sustainable Development!

- For successful implementation of a sustainable development Adaptive Reuse project the following key considerations should be included:
 - Stakeholder engagement and understanding of drivers and objectives
 - Diverse and multi-disciplinary project teams should be engaged from project initiation and consulted throughout the project
 - Innovative and advanced characterization and remediation techniques can support project execution
 - Respect the future beneficial users of the project

QUESTIONS?



Adaptive Reuse Trends

in the Commercial Real Estate Market and Implications for Environmental Due Diligence







NEWS

UPDATES

PODCASTS

WEBINARS







THANK YOU FOR JOINING US



Adaptive Reuse Trends

in the Commercial Real Estate Market and Implications for Environmental Due Diligence

