Before We Start....

Audience will be **muted** throughout the session.

Closed Captioning is available for this session.

Use the **chat** function to submit your questions. Use the "like" button to upvote questions.







This webinar is being recorded and will be sent to you following the session.



Take the conversation online

@UrbanLandInst

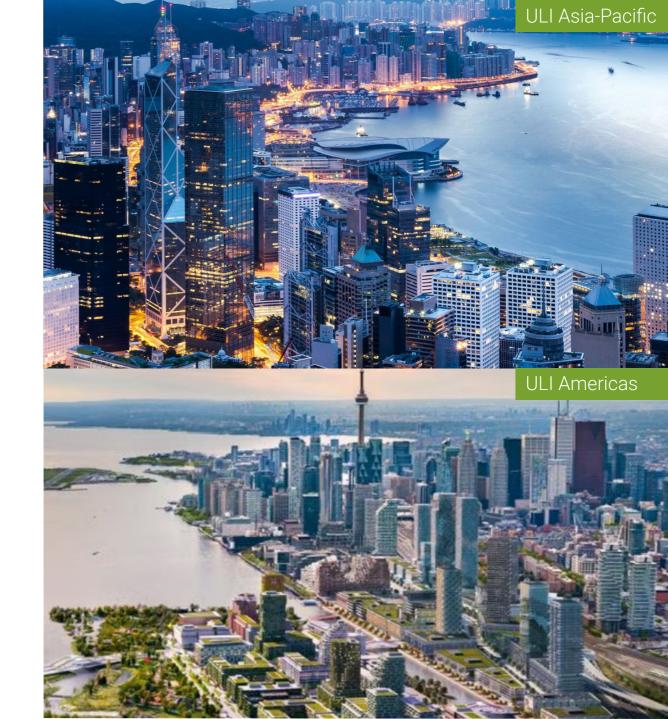
#WhereTheFutureIsBuilt







ULI InfraXchange #4 Smart Mobility in Transit-Oriented Complete Communities: How to Integrate "One" **Mobility Infrastructure?**





Smart Mobility in Transit Oriented Communities



Yvonne Yeung
Principal,
Planning Sustainable Cities and Communities
Hatch Urban Solutions



ULI Toronto Advisory Board
ULI SDRC Product Council Vice Chair
ULI Curtis Infrastructure Fellow



Tribute to Jim Curtis, ULI Life Trustee 1953-2019

"EVery single person in the land use process has the real ability to make a visible difference, and make it matter because they are part of the process. If they push for the right choices, each one of them has the ability to change the world."



ULI NEXT Global Visionary Video Series:

James J. Curtis III

youtube.com



Cornerstones of ULI Curtis Infrastructure Initiative

A Global Resource for Transforming Cities into Equitable, Resilient and Thriving Communities

Build Global Partnerships

Conduct Technical Assistance

Grow Knowledge











ULI Publication

Building 15-Minute Communities Leadership Guide

ULI Infrastructure Forum at Spring Meeting in Toronto

Knowledge Finder

ULI InfraTAP District & Product Council Coalitions

2023

ULI InfraXchange Global Spotlights Local Spotlights

Mar - Jun 2023



ULI InfraXchange Spring Series 2023

Building Leading-Edge Infrastructure Solutions and Co-benefit Creations in Complete, Walkable, 15-Minute Communities

Four sessions over 4 months with an article summary to follow in 2023

MAR 30 One Environment Infrastructure deliver parks, green streets, flood protection, environmental restoration, and utilities in one project

MAY 4 One Community Infrastructure deliver education-social-health-culture-co-work space under one roof

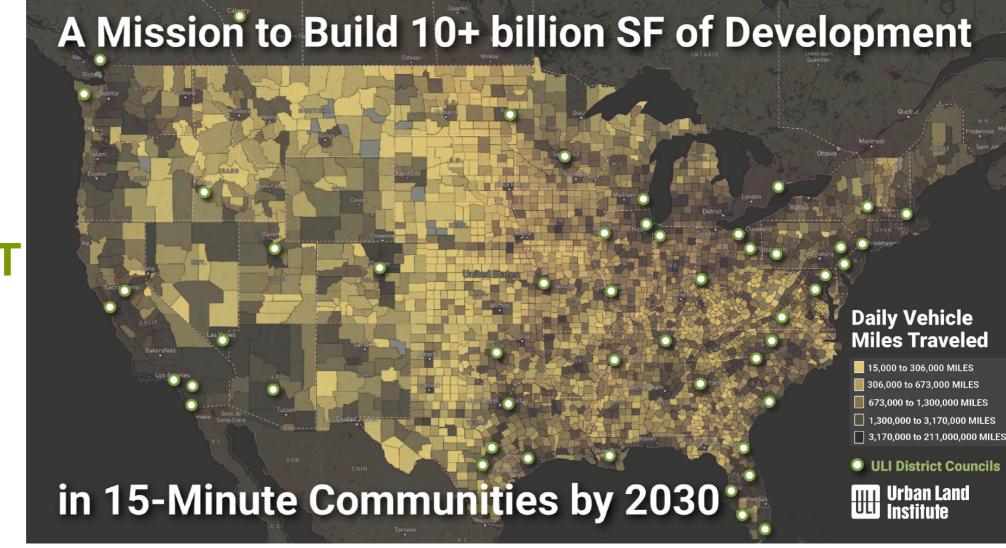
JUN 9 One Energy Infrastructure deliver combine renewable energy, carbon removal and waste management in one district?

JUN 23 One Mobility Infrastructure deliver transit, micro-mobility, broadband, and smart city system to provide one trip experience





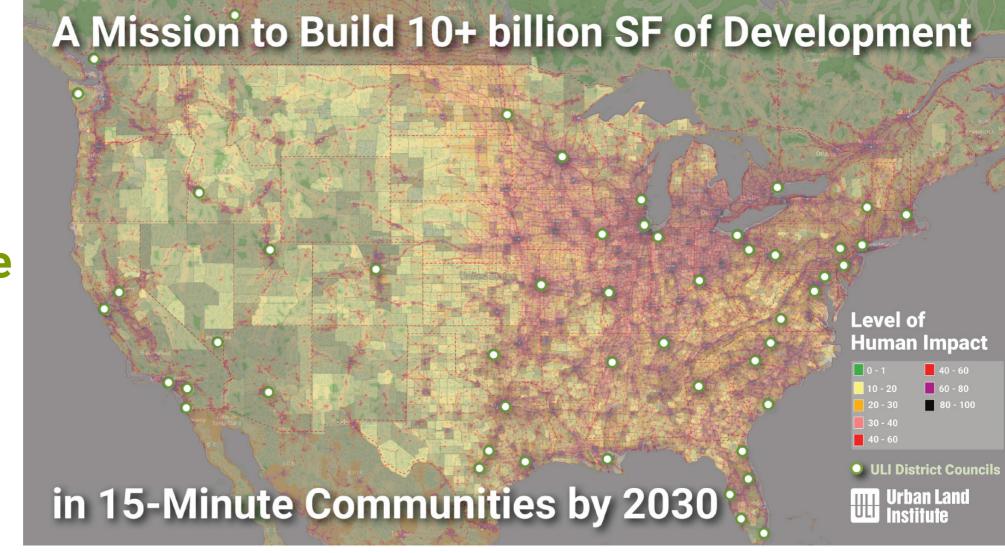
Today's
Challenge:
Reduce VMT
with TOCs







Today's
Challenge:
Decarbonize
with TOCs







Our Common Responsibilities to Build A Strong, Healthy City Region with Complete Communities

- Uphold city-building cornerstones in Provincial Policy Statement and Planning Act
- Protect public interest including the future population and natural environment

Complete Communities – Ensure lands are zoned and development are designed in a manner that supports the achievement of complete communities

Full range of Facilities – Adequate distribution of educational, health, social, cultural and recreational facilities

Infrastructure – Prioritize planning and investment in infrastructure and public service facilities that will support intensification

Orderly Development – Orderly development of safe and healthy communities and coordination of activities of public bodies





Our Common Responsibilities to Build A Strong, Healthy City Region with Complete Communities

- Uphold city-building cornerstones in Provincial Policy Statement and Planning Act
- Protect public interest including the future population and natural environment

High-quality Built Environment – Provide high-quality public spaces that are safe, accessible, attractive and vibrant, built-form that are well-designed and provide a sense of place

Co-locate Public Services – Co-locate public services in community hubs to promote cost-effectiveness and facilitate service integration, access to transit and active transportation

Sustainable and Pedestrian Oriented – Design development to be sustainable, support public transit and be oriented to pedestrians, mitigate greenhouse gas and adapt to changing climate, conservation of energy and water, and minimization of waste





Opportunities: Sustainable Mobility in Communities

How to Create 'One' Mobility Infrastructure to Leverage...

Communities

\$21M Build America Bureau Grants

Thriving Communities
Program: planning
and development of
transportation and
community
revitalization activities
summer 2023

transportation.gov

Rural

\$3M Build America Bureau Grants

Rural and Tribal
Assistance Pilot
Program: assist with
pre-developmentphase activities, project
planning, etc
deadline Aug 14, 2023

transportation.gov

Transit

\$5B CIB Transit Infrastructure

Canada Infrastructure
Bank Priority Sector
Public Transit: transit
oriented development,
light rail transit, etc
ongoing

cib-bic.ca

Acceleration*

\$500M CIB Project Acceleration

Canada Infrastructure
Bank Priority Sector
Accelerate early works
Shorten critical paths to
construction
ongoing

cib-bic.ca





General Manager, Business Development
MTR Corporation Limited
ULI Asia-Pacific

speaker

Stephen Engblom
Faculty, University of California,
Berkeley
ULI Americas
moderator



Director, Urban Solutions
Hatch
ULI Americas
speaker

TRANSIT-ORIENTED



ULI Infrastructure Exchange: Mobility

June 23, 2023

A HISTORY OF REGIONAL TRANSIT PLANNING



Map from the 1943 "Master Plan for City of Toronto and Environs"

The Birth of Regional Planning | Neptis Foundation

The Metropolitan Toronto Board was responsible for all aspects of physical planning throughout the entire metropolitan planning area:

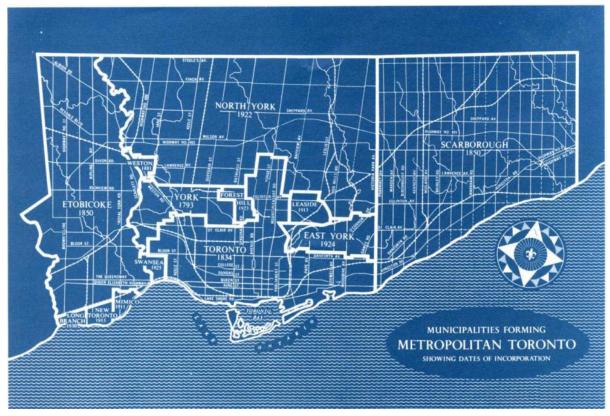
- · broad land use designations,
- transportation (highways and public transit),
- water and sewer infrastructure,
- parks and open spaces



The Birth of Regional Planning | Neptis Foundation



FORMATION OF THE METROPOLITAN TORONTO PLANNING BOARD (1954)



metropolitan toronto transportation plan review T69-2 Transit Plan for Toronto Centred Region

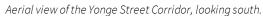
Map of jurisdiction of the Metropolitan Planning Board, as defined in 1954.

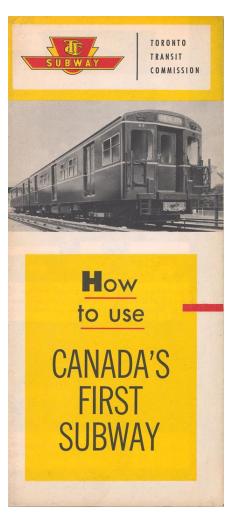
Transit Plan for Toronto Centred Region, 1969.



AN URBAN GROWTH CORRIDOR, ROOTED IN TRANSIT







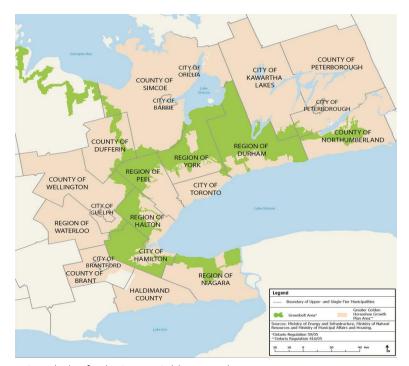




THE RETURN TO "GOOD PLANNING"

Since the introduction of the Growth Plan for the Greater Golden Horseshoe in 2006, the region has seen a shift to more compact development patterns, a greater variety of housing options, more mixed-use development in urban growth centres and other strategic growth areas, and greater integration of transit and land use planning.

- Gov't of Ontario



Growth Plan for the Greater Golden Horseshoe, 2006.



The Big Move Map, Metrolinx, 2008.



THE EVOLUTION OF TRANSIT-ORIENTED DEVELOPMENT

BUILDING AROUND TRANSIT NODES

The emergence of provincial-led transit-oriented development that prioritizes compact, mixed-use, and high-density around major transit nodes.







East Harbour Transit Hub



Park Lawn GO

COMBINED WITH RAPID TRANSIT EXPANSION



\$61.6 Billion over 10 Years for public transit investment.

A Capital Plan for Building Ontario, 2022.

COMPLETE TRANSIT-ORIENTED COMMUNITIES

2023



TRANSIT







Caledon GO Station

Transit-Oriented Communities that follow the same principles, but...

- Focus on a much larger-scale
- Rooted in big concept projects
- Drive new transit infrastructure

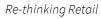


The Orbit, Innisfil

SUCCESSFUL MIXED-USE

HOW CAN WE BUILD GREAT, NOT JUST GOOD, PLACES?







Urban Open Space



Community Facilities

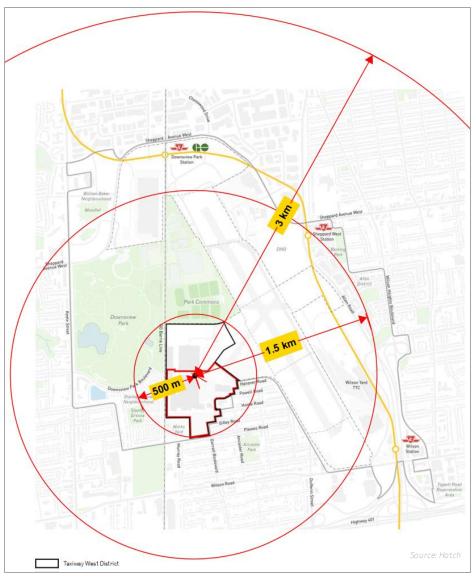
INTEGRATED MOBILITY

EMBRACING NEW MODES

Transit-oriented communities that plan for cycling, e-bikes, and e-scooters, and where parking is secondary.



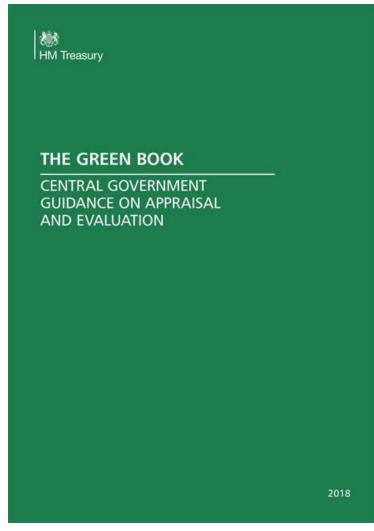
Compact communities



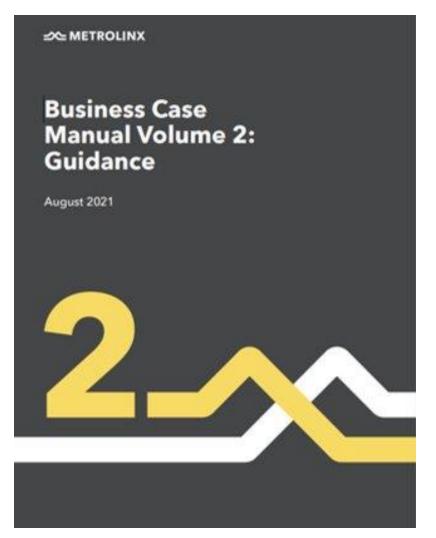
Increased accessibility



The foundation of planning and delivery is a strong business case and business plan...

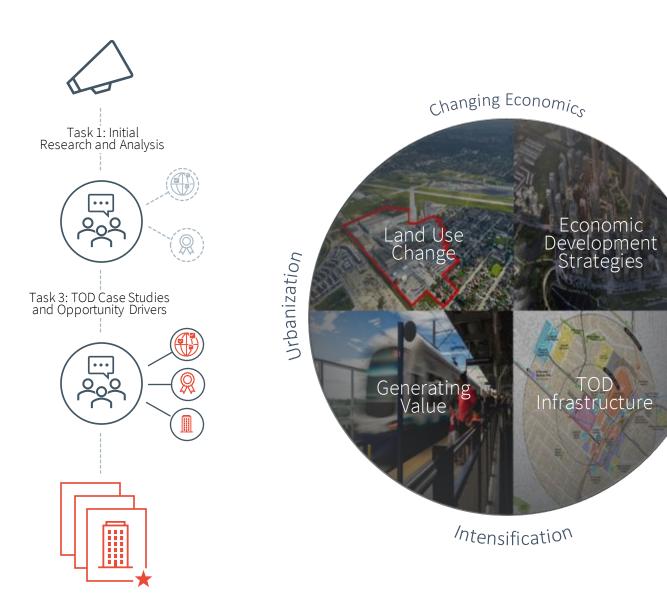


The U.K. Green Book.



Metrolinx Business Case.

TRANSIT-ORIENTED DEVELOPMENT APPROACH





Oecarbonisation



SOLVING THE HOUSING SUPPLY SHORTAGE?

TRANSIT CORRIDORS HAVE UNTAPPED DEVELOPMENT POTENTIAL

According to the Center for Urban Research and Land Development, there are almost 200 major transit nodes across Ontario that are either existing or are currently in the planning stages and/or are under construction, with almost 1,500 square kilometers of land that can support more density.



1.5 million homes in the next 10 years



1.5 billion sq.ft. of development space required



Need min. 214 TOD nodes to achieve housing goals



PUBLIC PRIVATE PARTNERSHIPS

The Ontario model demands partnerships which requires capacity on both sides.



Envisioning + developing Mixed-use sites/ communities

Establishing connections to/ capitalizing on transit Unlocking development opportunities + housing

In novating + implementing sustainability



Thank you.



Michael Sutherland
Director, Urban Solutions
Michael.Sutherland@hatch.com



Hong Kong MTR Transit Oriented Communities – a Hong Kong Case Study (Tseung Kwan O)

June 2023

David Yam

General Manager - Business Development MTR Corporation Limited



"Tseung Kwan O" New Town





Tseung Kwan O in 1990s.



MTR

Background

Development of TKO as a new town approved by the Government

1995

Feasibility Study by MTR

1999

Construction starts

2009

Opening of the extension line to LOHAS Park (Area 86)



1994

Issued

"Railway

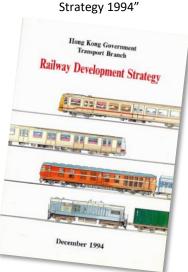
Development

1996

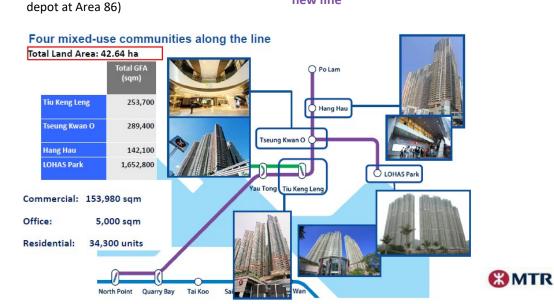
MTR's New Line Proposal was approved by the Government (incl. a new

2002

Grand Opening of the new line



MTR Corporation



Self-Sufficient Community Facilities

Educational

- K Kindergarten
- Secondary School
- Primary School

Social/Recreational

- Supported hostel for mentally or physically handicapped persons
- Centre for community care and support services for the elderly
- N Early education and training center
- R Residential Care Home for the Elderly
- Integrated Children & Youth Services Centre
- C Community Hall
- E Indoor Recreation Centre

Others

- T Police Post (inside MTR Station)
- U Public Transport Interchange





"LOHAS Park" – the largest TOC Project

Building a New "Garden City" Community



Lifestyle

Health

And

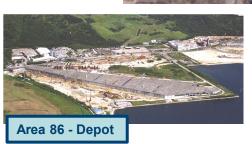
Sustainability



13 Residential **Packages**

8 Developers

Shopping Mall







2004 - 2020: 13 packages released



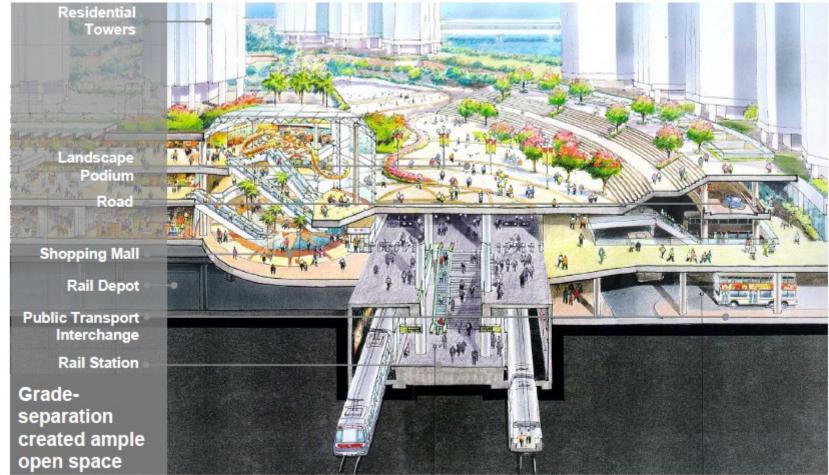
"Seamless" - within a walkable distance to/from the MTR station

Pedestrian-friendly Local Planning



MTR

LOHAS Park - Putting People Above Vehicles





"Seamless" - Octopus Card





Easy Park Auto-Payment Service at The LOHAS mall



One-stop service on your smartphone

Pay fares on public transport Payments in shops/ supermarkets / retail outlets







The Joint Venture of Major Transport Operators

KCR
64.02%

22.1%

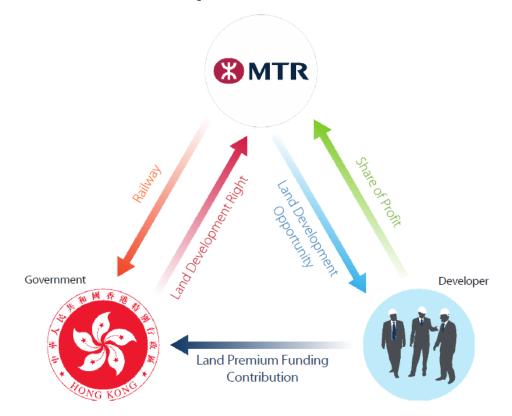
新渡輪
SUN FERRY

13.83%

0.05%

MTR

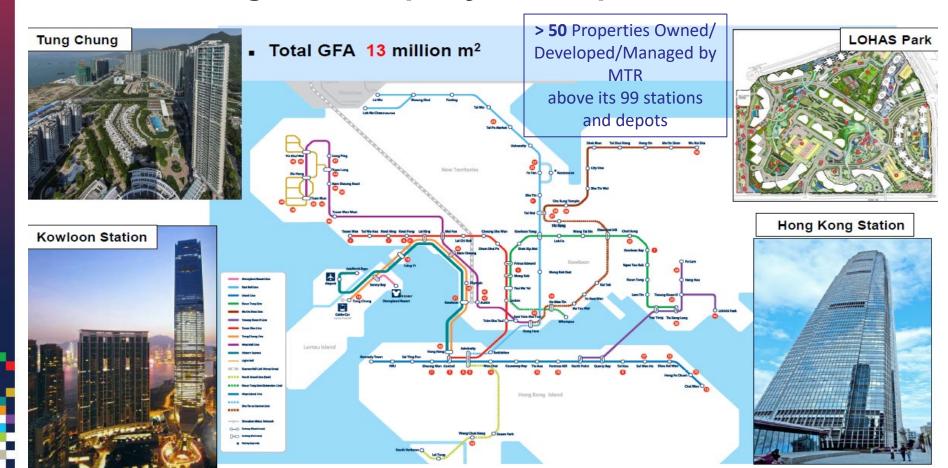
Our sustainable TOD model supports community development without public investment





MTR Corporation 21/6/2023 Page 9

MTR Integrated Property Developments





Download Report from ULI Knowledge Finder



To learn more, scan this QR code



Join the movement at uli.org/infrastructure



Shape by Five Forces for Change

Align Actions with Innovative Initiatives

Streamline Infrastructure Delivery Make Infrastructure Multifunctional Apply Walkable Catchment Decisions

Bringing Infrastructure to Life with "One"

Transform by Six Leadership Strategies



Decarbonize Metro regions with TOCs



Diversify CBDs into Live-in Downtowns



Humanize & Heat-proof Edge Cities



Innovate Suburban Densification



Transform Malls into Communities



Activate Exurbs as Working NBS

Integrate by Five Infrastructure Systems

One Vision

One Environmental One Community One Energy One Mobility



