

Envision: The Value of Shared Sustainability Frameworks

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Types of Infrastructure Envision Rates



ENERGY

Geothermal
Hydroelectric
Nuclear
Wind
Solar
Biomass



WATER

Potable water
distribution
Capture/storage
Water Reuse
Stormwater
Management
Flood Control



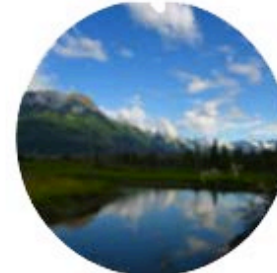
WASTE

Solid waste
Recycling
Hazardous
Waste
Collection &
Transfer



TRANSPORT

Airports
Roads
Highways
Bikes
Pedestrians
Railways
Public Transit
Ports
Waterways



LANDSCAPE

Public Realm
Parks
Ecosystem
Services
Natural
Infrastructure



INFORMATION

Telecommunications
Internet
Phones
Data Centers
Sensors

64 Credits in 5 Categories



Quality of Life

14 Credits

Wellbeing, Mobility, Community



Leadership

12 Credits

Collaboration, Planning, Economy



Resource Allocation

14 Credits

Materials, Energy, Water



Natural World

14 Credits

Siting, Conservation, Ecology



Climate & Resilience

10 Credits

Emissions, Resilience

Envision Credit List



**Quality
Of Life**
14 Credits

WELLBEING

- QL1.1** Improve Community Quality of Life
- QL1.2** Enhance Public Health & Safety
- QL1.3** Improve Construction Safety
- QL1.4** Minimize Noise & Vibration
- QL1.5** Minimize Light Pollution
- QL1.6** Minimize Construction Impacts

MOBILITY

- QL2.1** Improve Community Mobility & Access
- QL2.2** Encourage Sustainable Transportation
- QL2.3** Improve Access & Wayfinding

COMMUNITY

- QL2.1** Advance Equity & Social Justice
- QL2.2** Preserve Historic & Cultural Resources
- QL2.3** Enhance Views & Local Character
- QL2.4** Enhance Public Space & Amenities

QL0.0 Innovate or Exceed Credit Requirements



Leadership
12 Credits

COLLABORATION

- LD1.1** Provide Effective Leadership & Commitment
- LD1.2** Foster Collaboration & Teamwork
- LD1.3** Provide for Stakeholder Involvement
- LD1.4** Pursue Byproduct Synergies

PLANNING

- LD2.1** Establish a Sustainability Management Plan
- LD2.2** Plan for Sustainable Communities
- LD2.3** Plan for Long-Term Monitoring & Maintenance
- LD2.4** Plan for End-of-Life

ECONOMY

- LD3.1** Stimulate Economic Prosperity & Development
 - LD3.2** Develop Local Skills & Capabilities
 - LD3.3** Conduct a Life-Cycle Economic Evaluation
- LD0.0** Innovate or Exceed Credit Requirements



**Resource
Allocation**
14 Credits

MATERIALS

- RA1.1** Support Sustainable Procurement Practices
- RA1.2** Use Recycled Materials
- RA1.3** Reduce Operational Waste
- RA1.4** Reduce Construction Waste
- RA1.5** Balance Earthwork On Site

ENERGY

- RA2.1** Reduce Operational Energy Consumption
- RA2.2** Reduce Construction Energy Consumption
- RA2.3** Use Renewable Energy
- RA2.4** Commission & Monitor Energy Systems

WATER

- RA3.1** Preserve Water Resources
- RA3.2** Reduce Operational Water Consumption
- RA3.3** Reduce Construction Water Consumption
- RA3.4** Monitor Water Systems

RA0.0 Innovate or Exceed Credit Requirements



**Natural
World**
14 Credits

SITING

- NW1.1** Preserve Sites of High Ecological Value
- NW1.2** Provide Wetland & Surface Water Buffers
- NW1.3** Preserve Prime Farmland
- NW1.4** Preserve Undeveloped Land

CONSERVATION

- NW2.1** Reclaim Brownfields
- NW2.2** Manage Stormwater
- NW2.3** Reduce Pesticide & Fertilizer Impacts
- NW2.4** Protect Surface & Groundwater Quality

ECOLOGY

- NW3.1** Enhance Functional Habitats
- NW3.2** Enhance Wetland & Surface Water Functions
- NW3.3** Maintain Floodplain Functions
- NW3.4** Control Invasive Species
- NW3.5** Protect Soil Health

NW0.0 Innovate or Exceed Credit Requirements



**Climate and
Resilience**
10 Credits

EMISSIONS

- CR1.1** Reduce Net Embodied Carbon
- CR1.2** Reduce Greenhouse Gas Emissions
- CR1.3** Reduce Air Pollutant Emissions

RESILIENCE

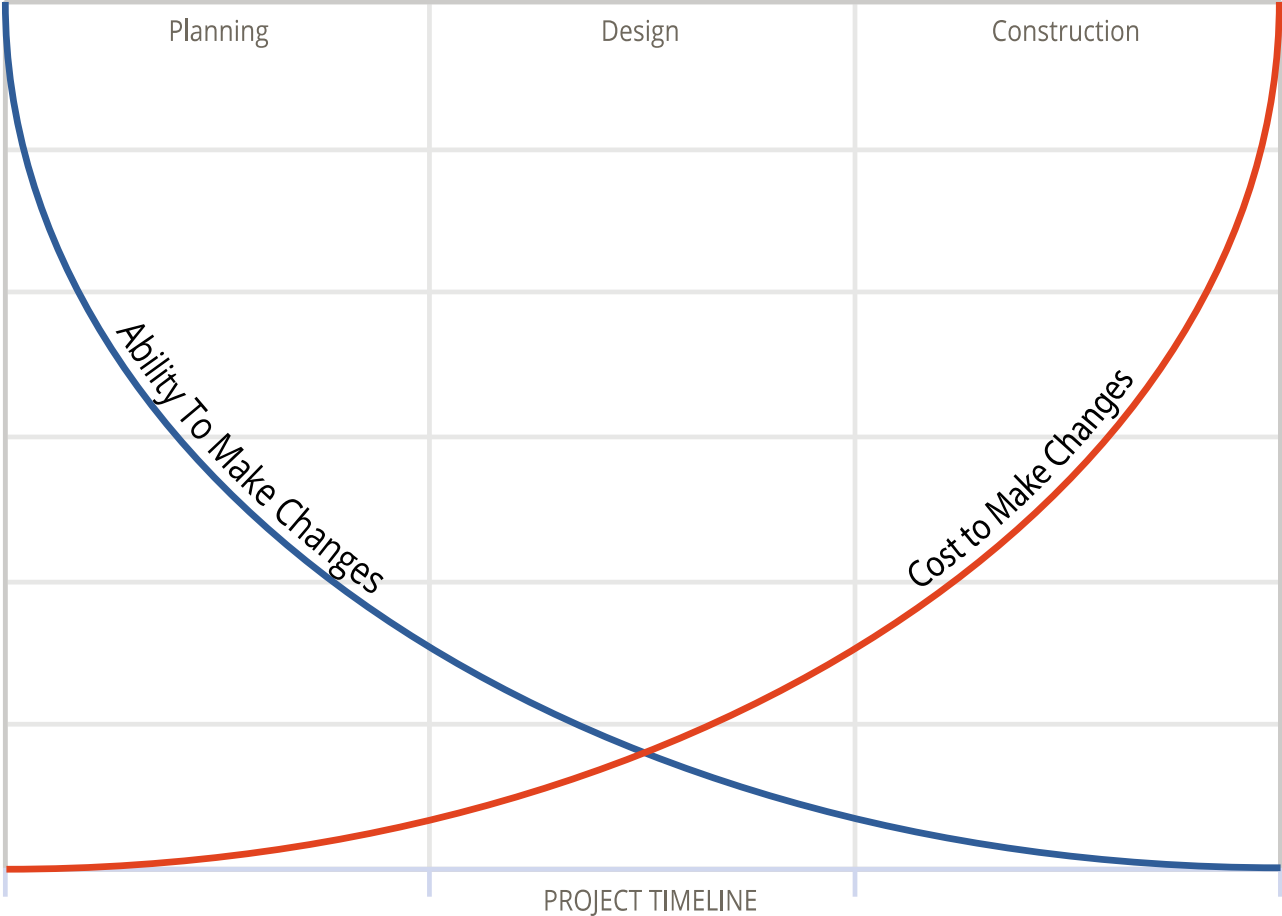
- CR2.1** Avoid Unsuitable Development
- CR2.2** Assess Climate Change Vulnerability
- CR2.3** Evaluate Risk & Resilience
- CR2.4** Establish Resilience Goals and Strategies
- CR2.5** Maximize Resilience
- CR2.6** Improve Infrastructure Integration

CR0.0 Innovate or Exceed Credit Requirements

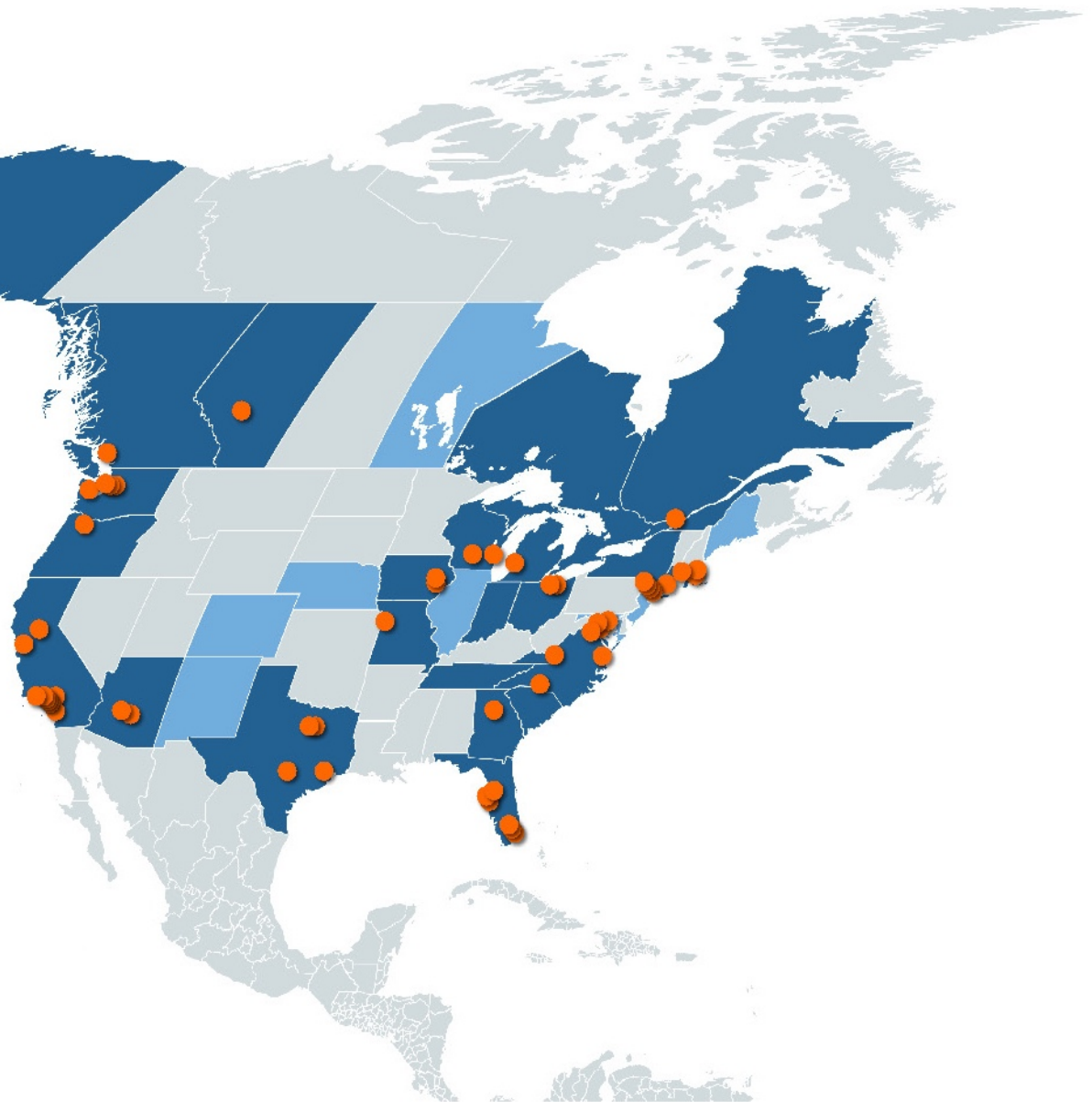
Shared Sustainability Frameworks

- A shared definition/language improves efficiency reduces errors
- A system for establishing shared goals, benchmarking progress, and achieving higher performance
- A framework for assigning responsibility and accountability
- A tool that facilitates communication and engagement with the public and stakeholders
- An award for recognizing projects that safeguard the public interest and add value to communities.

Making the Most of Opportunities



-  States/Provinces with verified projects
-  New states/Provinces with projects in verification
-  Cities/agencies with formal Envision membership



Boston Landing Station

Boston, Massachusetts (Envision Silver)



Kansas City Streetcar

Kansas City, Missouri (Envision Platinum)



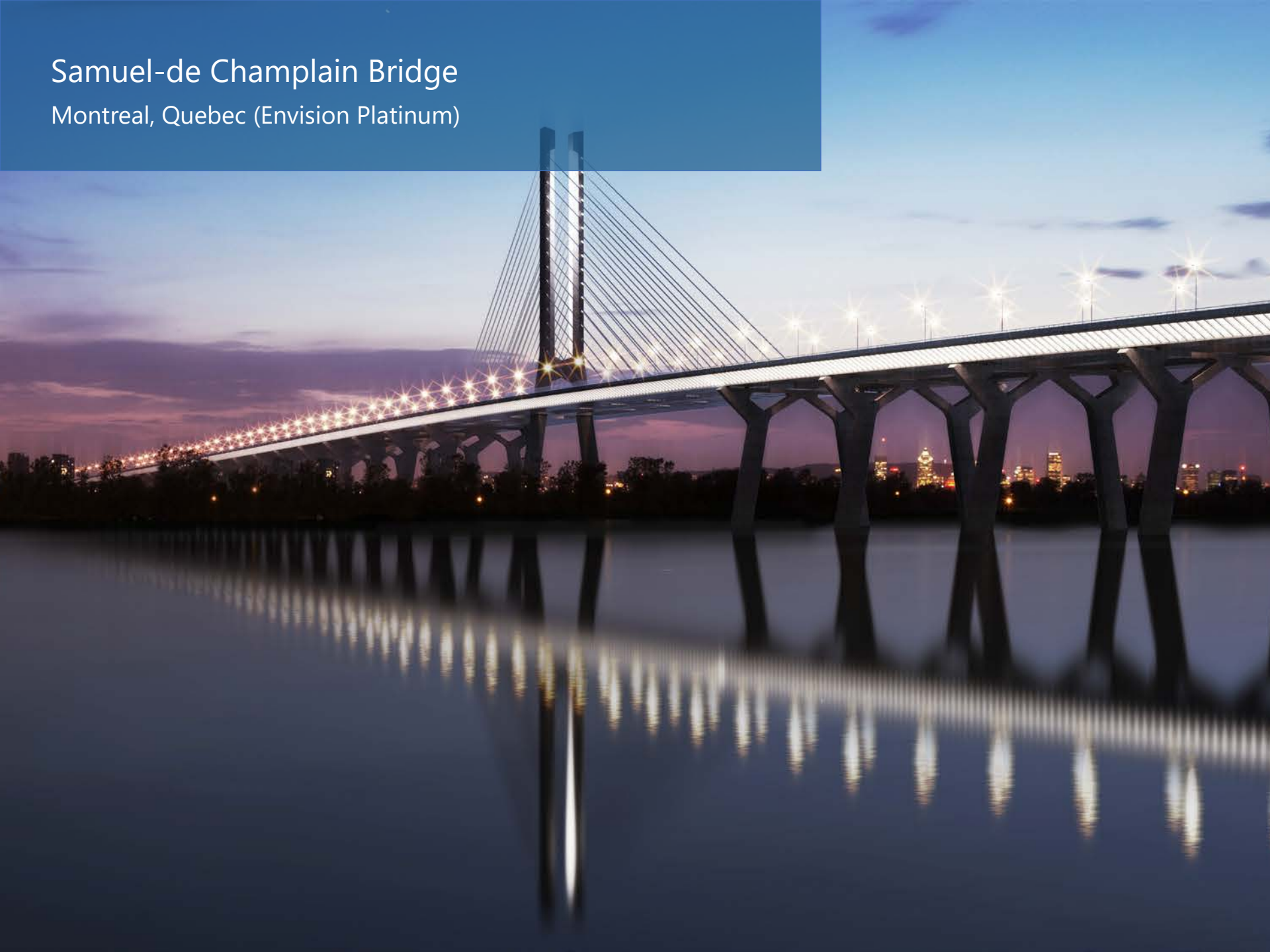
OC Streetcar

Orange County, California (Envision Silver)



Samuel-de Champlain Bridge

Montreal, Quebec (Envision Platinum)



Low Level Road

Vancouver, British Columbia (Envision Platinum)



Thank you.