



Ponts
JACQUES CARTIER +
CHAMPLAIN
Bridges
Canada

Deconstruction of the Original Champlain Bridge Public Meeting

December 6, 2021



Presenters

- **Moderator: Jacques B nard**
Senior Vice-President, Hill & Knowlton Strategies
- **Nathalie Lessard**
Director, Communications, JCCBI
- **Olivier Vincent**
Project Director, Champlain Deconstruction, JCCBI
- **Simon H bert**
Assistant Project Director, Nouvel Horizon Saint-Laurent

Agenda

- + Deconstruction Project Overview
- + Site Update and Upcoming Work
- + Other Project Components
- + Stay Up to Date with the Project
- + Question Period



Ask a question

1. Click on the “chat” icon with a question mark at the top right of your screen
2. Enter your question at the bottom right of your screen
3. Click “Send”





Deconstruction Project Overview

Olivier Vincent, Eng.,
Project Manager, Champlain Deconstruction



Deconstruction Project Summary

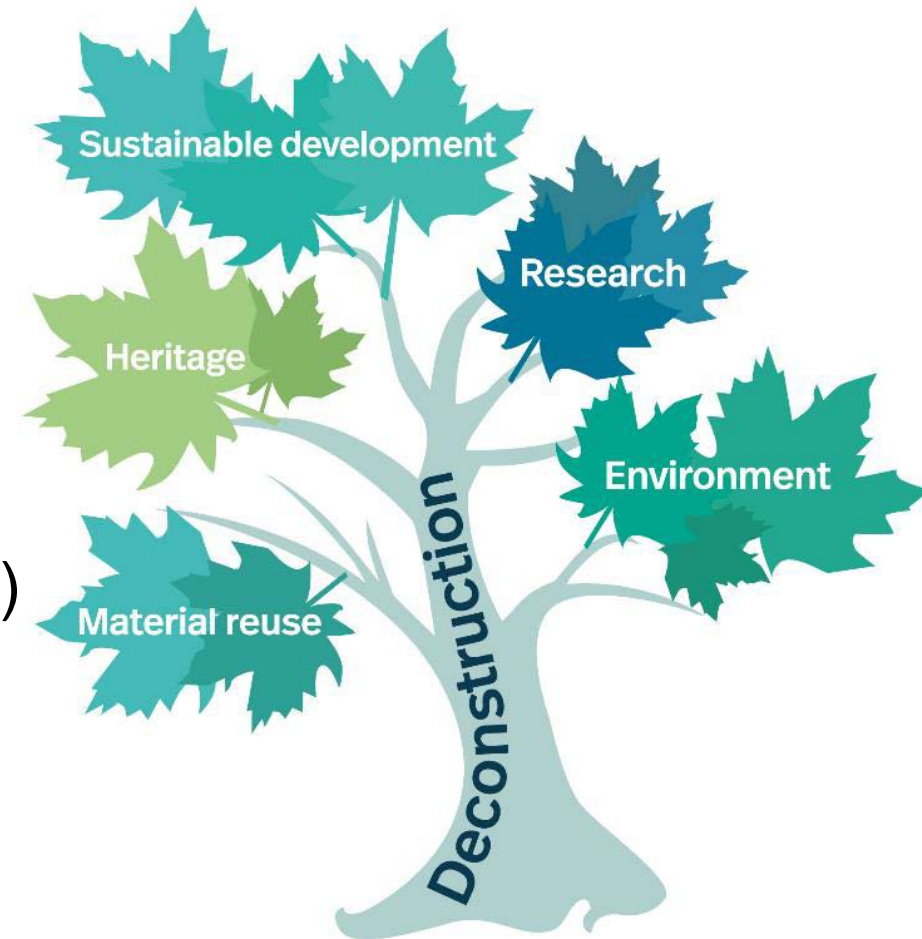


5 components:

1. Deconstruction work
2. Environmental measures
3. Material reuse
4. 12 Research & Development projects
5. Héritage Champlain (shoreline redevelopment)

Deconstruction duration: **43 months**

Scheduled end date: **January 2024**



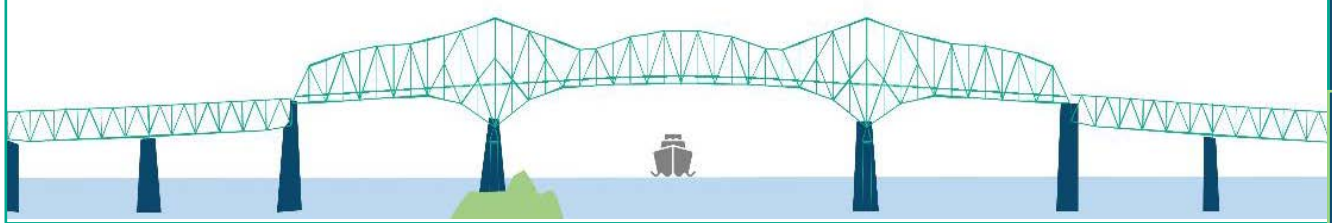
General Timetable



Section 5: St. Lawrence River | August 2020 – January 2024



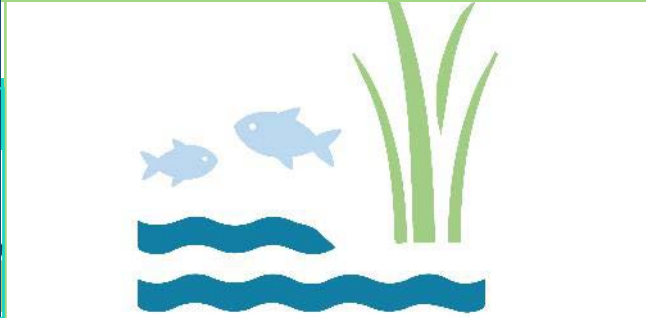
Section 6: Seaway | April 2021 – January 2024



Section 7: Brossard | May 2022 – January 2024



Shoreline Redevelopment: 2024-2025



2020			2021			2022			2023			2024			2025			
JL-SE	OC-DE	JA-MR	AL-JN	JL-SE	OC-DE	JA-MR	AL-JN	JL-SE	OC-DE	JA-MR	AL-JN	JL-SE	OC-DE	JA-MR	AL-JN	JL-SE	OC-DE	JA-MR



Site Update and Upcoming Work

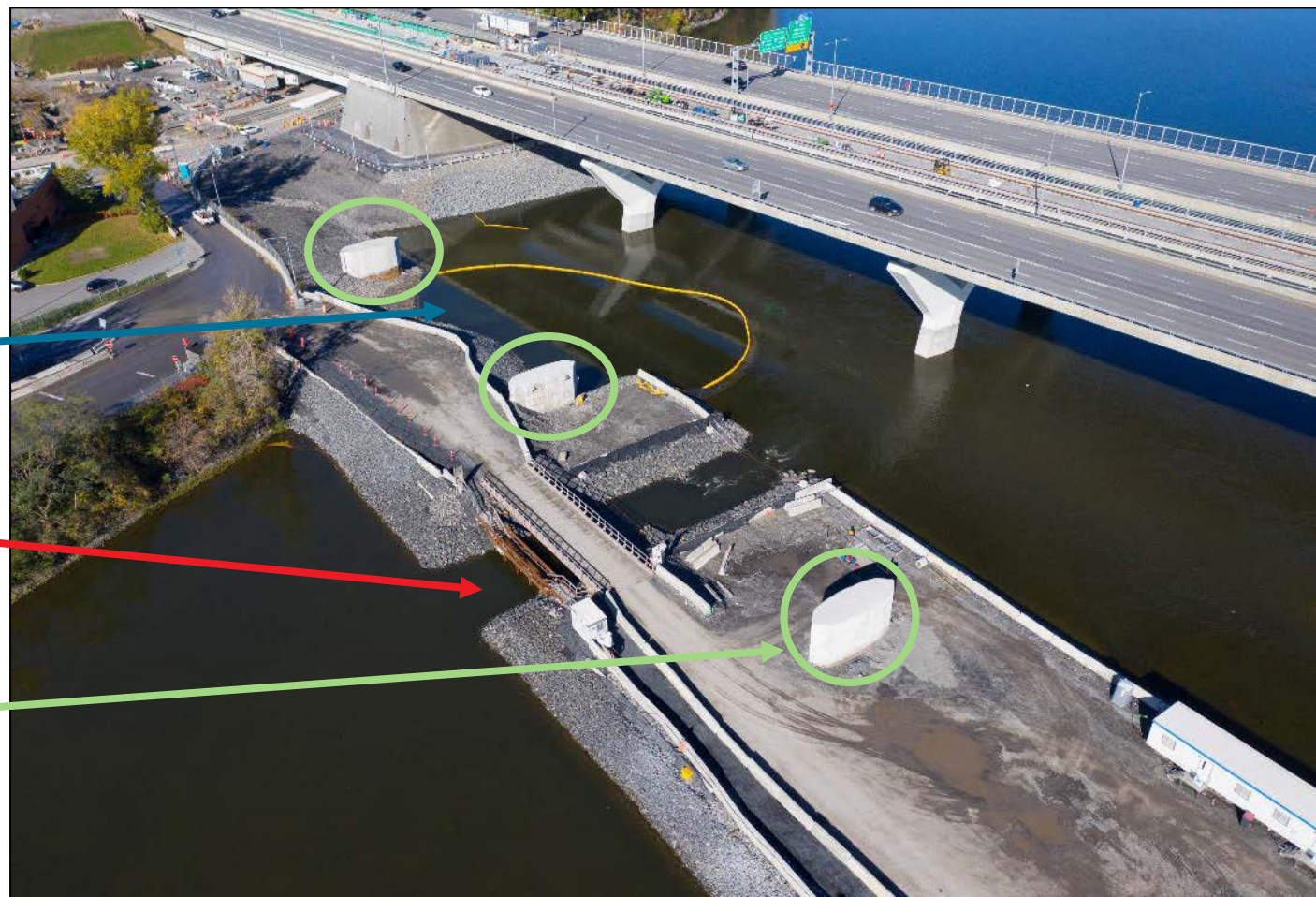
Simon Hébert, Assistant Project Director, NHSL



Deconstruction: Île des Sœurs Sector



- + **Deconstruction mostly completed:**
3 remaining footings on the jetty
- + **IDS jetty partially removed** from the shoreline near the bicycle path
- + **2 fish migration corridors** kept in place (in the jetty)
- + **3 piers preserved** for the Héritage Champlain project



Site Images – Île des Sœurs Sector



September 7, 2020

**René-Lévesque Blvd.
(IDS)**



September 17, 2021



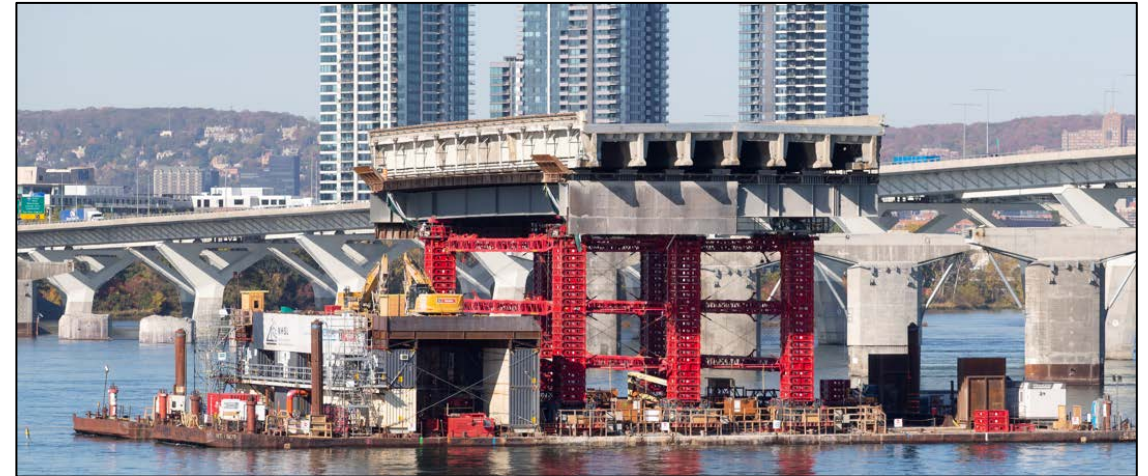
Work in Progress – River Sector



Finalization of removal of modular trusses under the marine spans



Removal of span with the catamaran barge



Deconstruction of piers (above water) and footings (under water)



Deconstruction From the River



Over 50% of marine spans removed (18/30)

Method: System of platforms attached to lifting towers (red structure) installed on a catamaran barge

Work will continue over the winter



Deconstruction From the River



Span and footing removal

- + 2-step deconstruction
 1. Pier cap and pier (above water)
 2. Base and footing in a cofferdam (under water)
- + Concrete transportation on barge



In 2022: Lowering of the Suspended Span

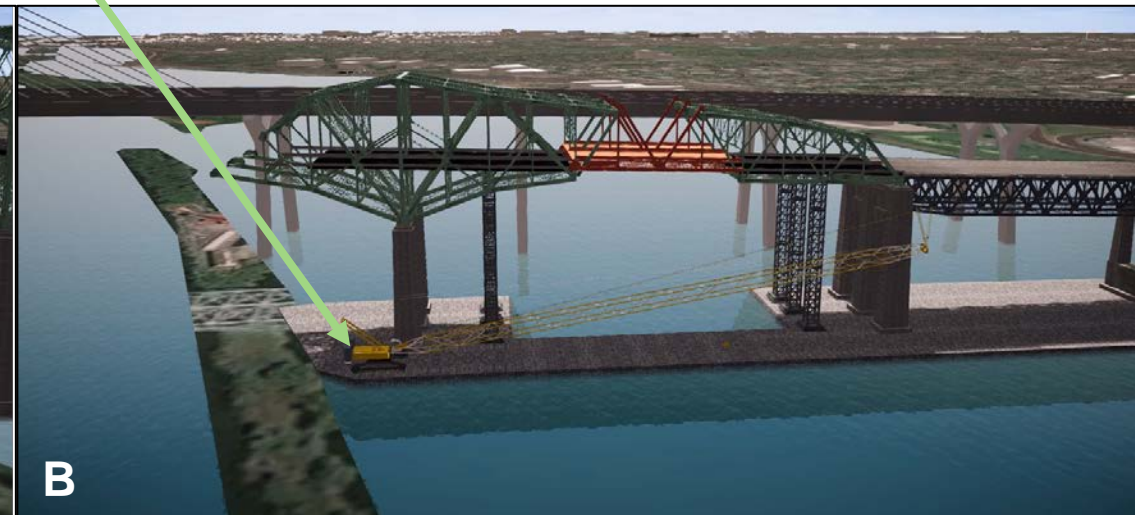


A- Suspended steel span (length of 117.5 m and 2,200 tonnes)

- Removal and lowering onto a barge using strand jacks (winter 2022)
- Transport by barge over the Seaway to the temporary storage site (winter 2022)
- Dismantling and transportation to an authorized recycling centre (spring 2022)

B- Cantilever sections and anchor spans

- Taken apart piece by piece using a crane on the jetties and the dike



Update on Léon-Gravel Park



+ The Park was not selected:

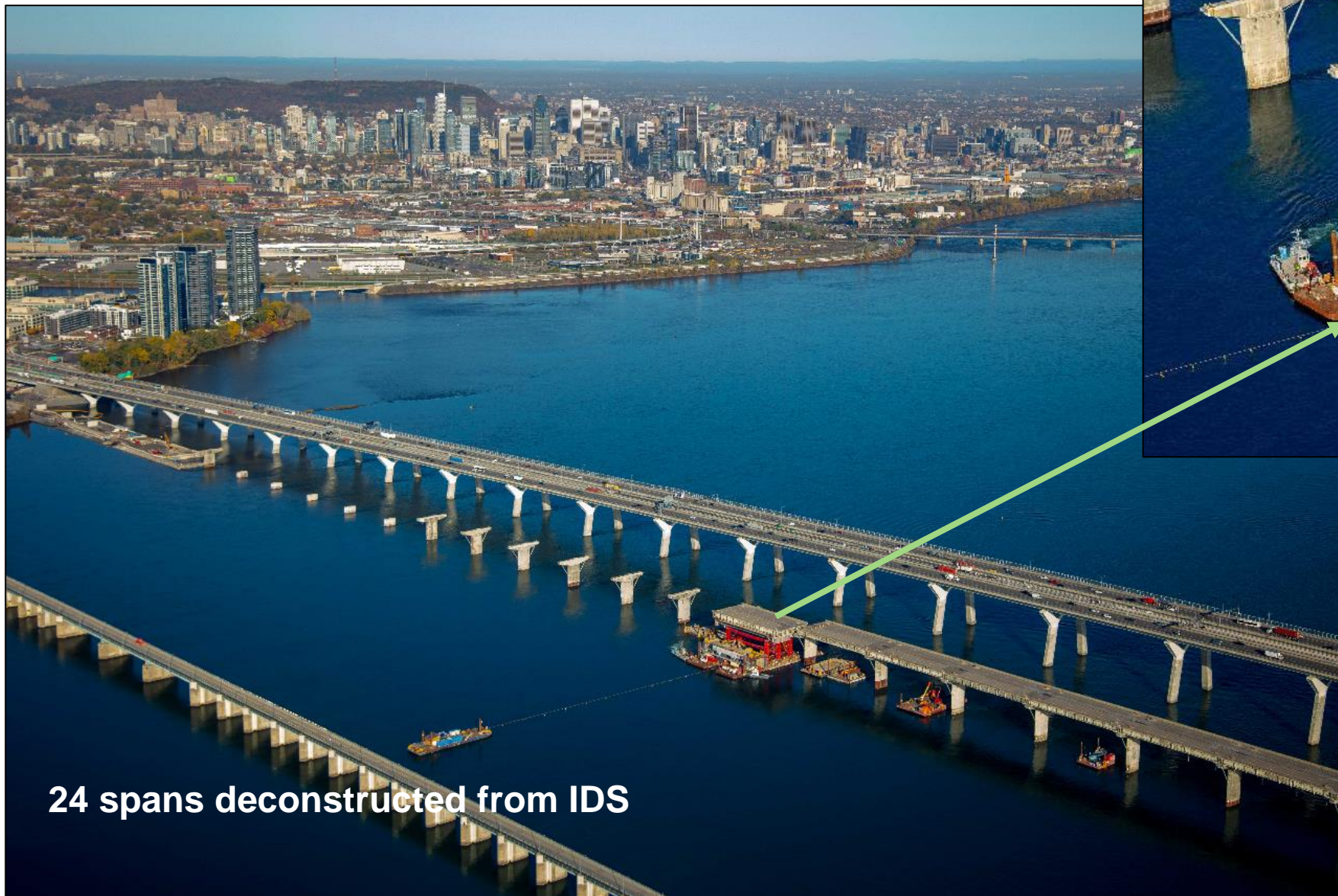
- No work will be done in the park and no impact on park users

+ However, environmental studies will be carried out

+ The span will be secured to a barge in the St. Lawrence Seaway (in front of Léon-Gravel Park)



Work in October 2021



24 spans deconstructed from IDS



Air Quality



Data released once a month

- + The work may affect air quality by generating airborne particulates from various sources
- + Two types of monitoring are performed:
 - Real-time monitoring at the edge of the site
 - Constant from fixed stations near communities
- + This monitoring is done at fixed stations set up in residential areas

November 2021

Sites	# of samples	# of times allowances exceeded
IDS	255	0
Brossard West	51	0
Brossard North	91	0



Sound Levels



Noise management plan

- + Allowed limits:
 - Between 7:00 a.m. and 7:00 p.m.: limit of 75 dBA for ambient noise
 - Between 7:00 p.m. and 7:00 a.m.: limit of no more than 5 dBA above the reference level*
 - More information available from JCCBI's website
- + Noise levels are measured during work that is likely to generate significant noise

November 2021

Sites	# of 30-minute recordings	# of times allowances exceeded
I1-01	144	0
I2-04**	144	0
B3-05	144	0

*The reference level is the ambient noise level measured in sensitive areas before the start of the work. This level varies from 51 dBA to 67 dBA, depending on the sector.

** I2-04 is on the same street as I2-01.





Other Deconstruction Project Components

Olivier Vincent, Eng.
Project Director, Champlain Deconstruction



On-Site Measures



- + JCCBI has ensured that measures are implemented at the site to uphold residents' quality of life
 - Sonometers
 - Air quality monitoring stations
 - Work supervision
- + Close coordination between JCCBI and NHSL
- + Fast response time if there is an issue

Only 2 complaints in 17 months!



Environmental Protection Measures



- **Two fish migration corridors (IDS jetty)**

- **Habitat compensation projects**

- **Fish habitat:** Redevelopment of farmland in St-Ignace-de-Loyola
 - Planting work: summer 2022
 - Permanent benefits!
- **Cliff swallows:** Compensate for habitat loss through nesting habitats under the Estacade





Research and Development

- Partial delivery
- Delivered to storage site
- Delivered at the university
- Testing at storage site
- Lab. testing
- Ongoing test

#	Entity	Progress	
		Delivery	Research
D1	Polytechnique		
D2	CNRC		
D3	Sherbrooke + ETS		
D4	ETS	<input checked="" type="checkbox"/>	
D5	Sherbrooke	<input checked="" type="checkbox"/>	
D6	Sherbrooke + Laval	<input checked="" type="checkbox"/>	
D7	Laval	<input checked="" type="checkbox"/>	
D8	McGill	<input checked="" type="checkbox"/>	
D9	Ottawa	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	
D10	Polytechnique	<input checked="" type="checkbox"/>	



Material Reuse



250,000 tonnes of concrete
25,000 tonnes of steel
12,000 tonnes of asphalt

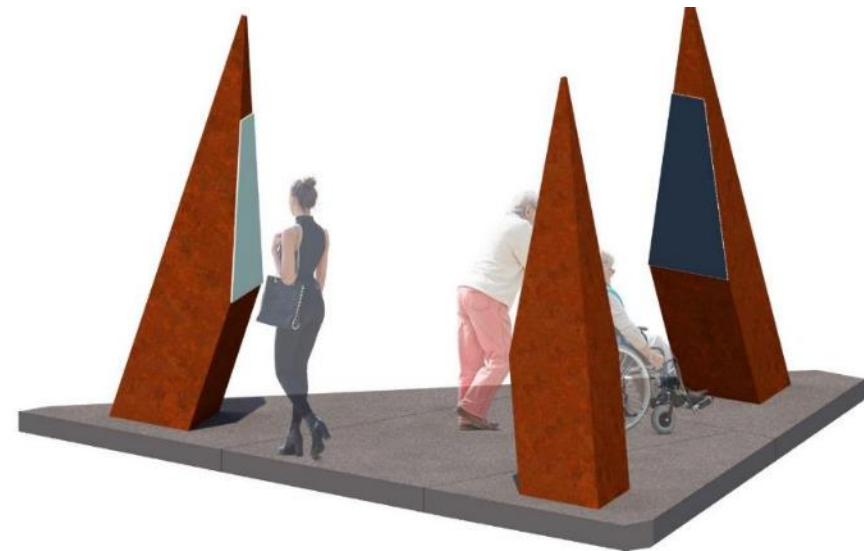


- + Reuse of 400 steel components (online catalogue)
- + Call for Participation until December 31: Submission Form from deconstructionchamplain.ca
- + Personal, corporate or public projects: artistic, recreational, cultural, infrastructure or urban ecology projects
- + **Recognition: Québec circulaire** : 2021 Circular Initiatives Award (municipality, institution and government category)

Material Reuse



- Components from the Champlain Bridge used in the l'**Union Québécoise de Réhabilitation des Oiseaux de Proie**'s new *Chouette à voir* bridge!
- Slabs from the Champlain Bridge will be reused under the **Jacques Cartier Bridge**: these slabs will support information steles
- Other initiatives being discussed with different municipalities



Héritage Champlain – Overview



4 sectors



4 orientations

Connectivity

- Routes/circuits
- City/river
- Shoreline sites

Citizen ownership

- Access to the water
- Window onto the river
- Recreational activities

Biodiversity

- Renaturalization
- Vegetation
- Habitats

Commemoration

- Interpretation
- Remains/monuments
- Past eras
- Intangible heritage

Concepts are being developed and will be presented in 2022



Stay Up to Date With the Project

Nathalie Lessard, Director, Communications



Communication Tools



Platforms:

- + Website: champlaindeconstruction.ca
 - Details about all aspects of the project
 - Cameras with live images from the site
 - Work advisories
- + [Newsletter](#)
- + Public meetings with the residents of Brossard and IDS
- + Questions and complaints: communications@pjcci.ca
- + Social media





DÉCONSTRUCTION **PONT CHAMPLAIN**
CHAMPLAIN BRIDGE DECONSTRUCTION

Participez à la conversation / Join the conversation

JacquesCartierChamplain.ca

