



Ponts  
JACQUES CARTIER +  
CHAMPLAIN  
Bridges  
Canada

# Planning 2021

## Presentation of Major Work

### Technical Media Briefing

May 4, 2021





## Presenters

- + **Sandra Martel**  
Chief Executive Officer  
JCCBI
- + **Nathalie Lessard**  
Director, Communications  
JCCBI
- + **Dominique Blouin**  
Senior Director, Projects  
JCCBI
- + **Simon Hébert**  
Assistant Project Director  
NHSL

## Outline

- + Our Mission and Work
- + Projects Planned for 2021
- + Deconstruction of the Original Champlain Bridge: Update
- + Question Period





# Our Mission and Work

Sandra Martel, Eng., Chief Executive Officer



# Our mission and work



## + The four key aspects of our mission:

- **Mobility**: Help users get where they need to go
- **Safety**: For users and our infrastructure
- **Longevity**: Make sure our structures last long into the future
- **Sustainable development**: An approach that guides our actions

## + This work is part of our proactive asset management:

- Avoid corrective work
- Perform planning to limit impacts on mobility
- Plan work and developments as part of a network
- Optimize investments



# Investments planned for 2021-2022



**Jacques Cartier  
Bridge**

**\$69M**



**Champlain Bridge  
Deconstruction**

**\$108M**



**Honoré Mercier  
Bridge**

**\$33M**



**Estacade**

**\$2.3M**



**Bonaventure  
Expressway**

**\$15M**



**Melocheville  
Tunnel**

**\$2.7M**

**Total planned investment of \$230M and creation of 675 direct jobs.  
Contribution to the economic recovery!**

# Two awards of excellence



## IAP2 Excellence in Public Participation Awards

Honourable Mention  
Participatory Approach,  
Champlain Bridge Deconstruction  
5,000 participants (2019)



## Grand Prix d'excellence en transport from the AQTr

Winter Viability  
Winter operation simulation project,  
Jacques Cartier Bridge  
multipurpose path and sidewalk (2019-2020)







# Projects Planned for 2021

Dominique Blouin, Eng., Senior Director, Projects

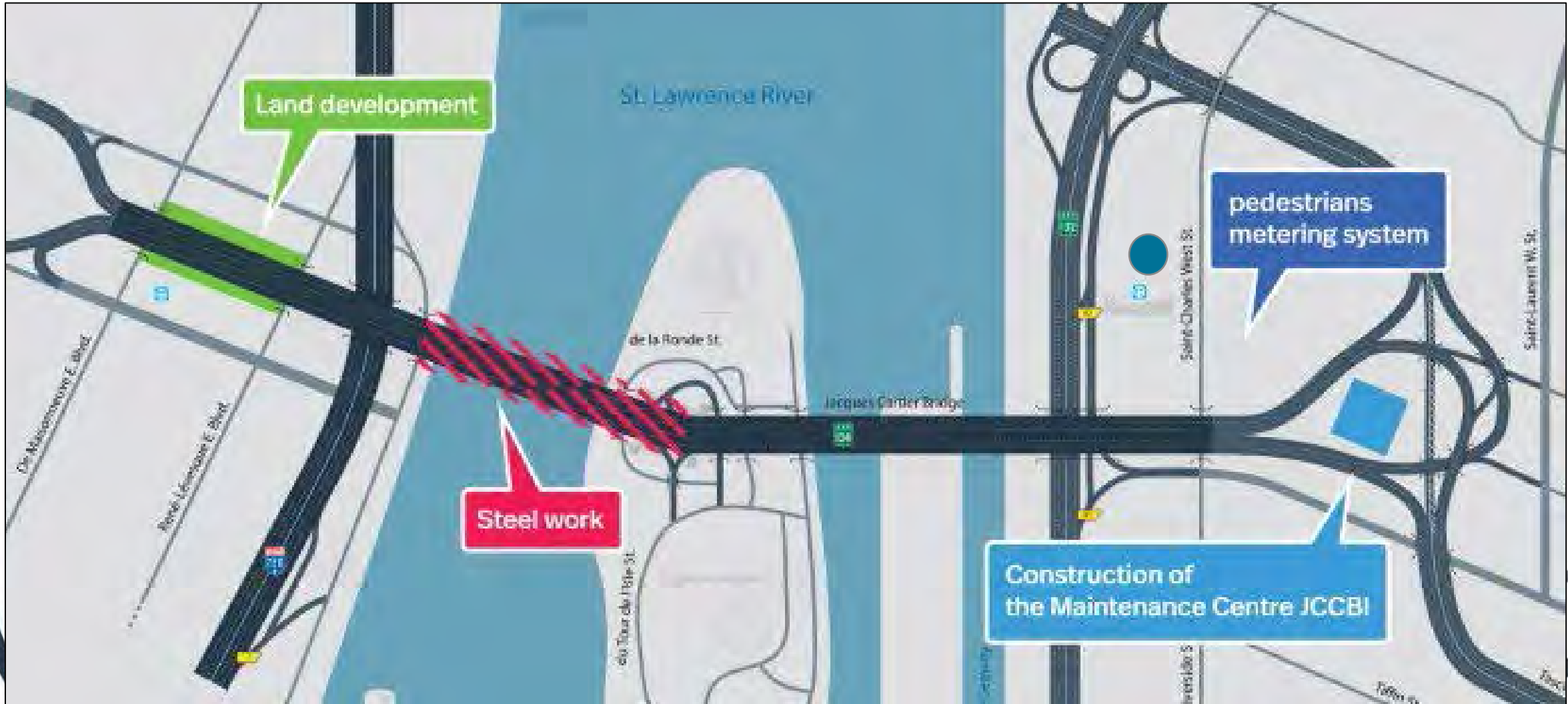




# Jacques Cartier Bridge



# Jacques Cartier Bridge



# Jacques Cartier Bridge



## Work to revitalize the land under the Jacques Cartier Bridge (Zones B to H)

- Installation of bioretention basins to manage drainage water from the bridge
- Creation of pedestrian paths
- Planting of trees, shrubs and perennials
- Street furniture and lighting

### Local traffic hindrances expected





# Jacques Cartier Bridge



## Steel reinforcement and painting

- **Partial** closure of 2 lanes in each direction (7 nights)
- **Complete** closure of the sidewalk (5 nights)
- **Complete** closure of the multipurpose path (5 nights)



# Jacques Cartier Bridge



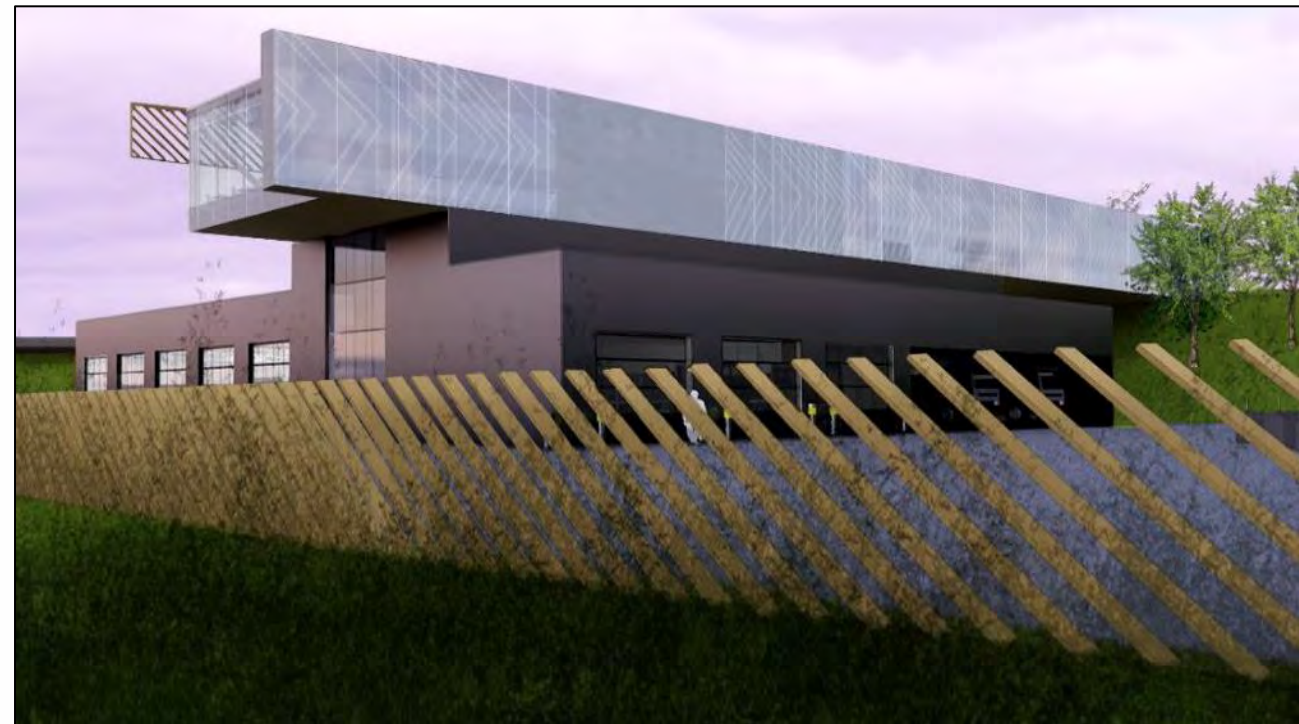
## Construction of the new JCCBI Maintenance Centre:

- Offices for the Operations and Maintenance Team
- Storage space for equipment (signs, construction parts, etc.)
- Workshops (welding, electrical)
- Garage for maintenance vehicles
- Outdoor parking and refuelling area for vehicles

Work start: 2019

Building to be occupied: **Fall 2021**

Deconstruction of the existing building  
(former toll station): Spring 2025







# Honoré Mercier Bridge



# Honoré Mercier Bridge





# Honoré Mercier Bridge

## Levelling and paving of on-ramps and off-ramps

- 8 weekend blitzes and 15 weekday night closures: **complete** closure of on-ramps and off-ramps (between June and September)
- 2 periods of 19 days: **partial** closure of the Hwy. 138 East access ramp (toward Montreal)







# Bonaventure Expressway



# Bonaventure Expressway (May to Nov. 2021)



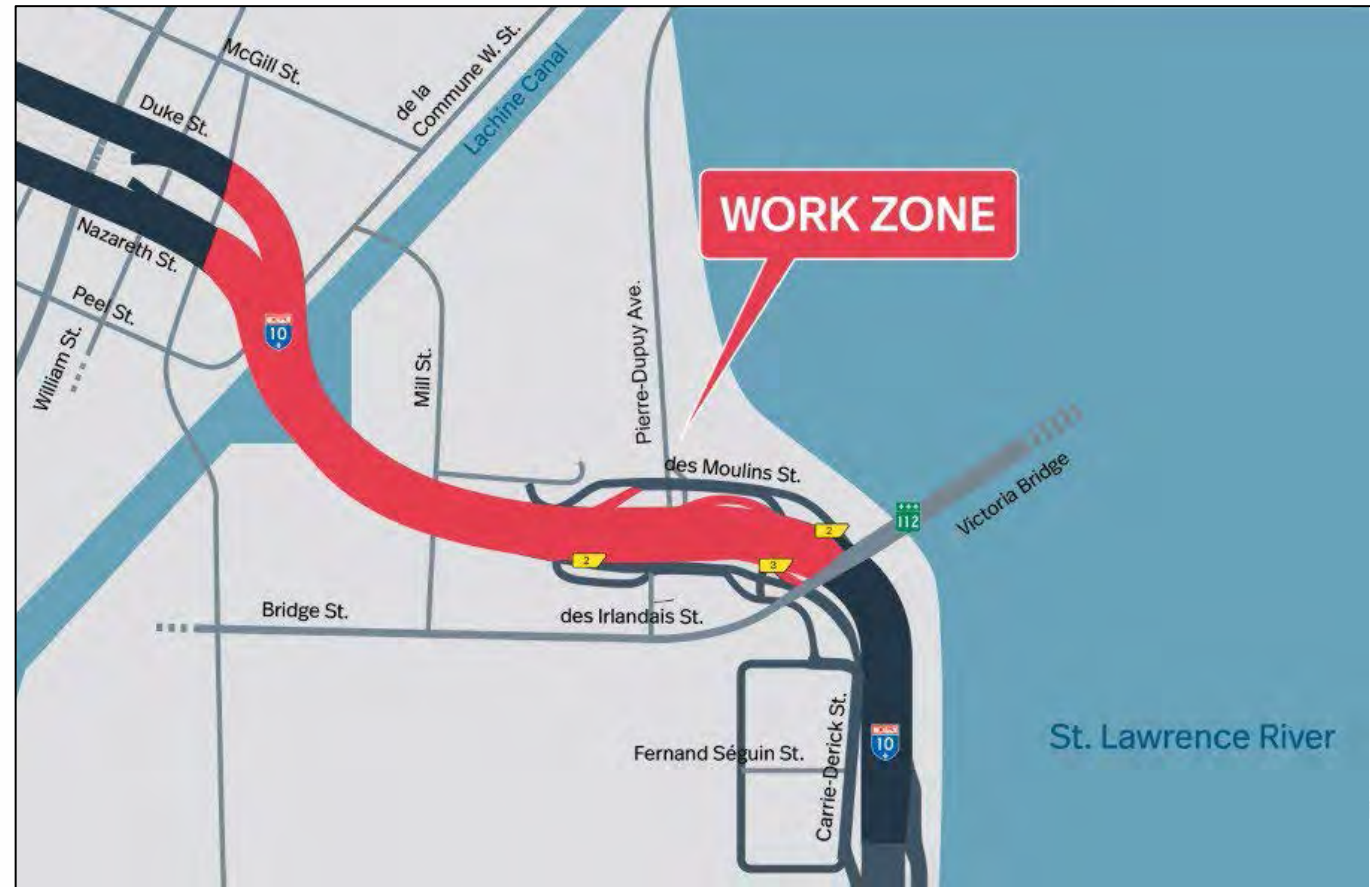
## Repairs to box beams

### Toward downtown:

- **Complete** closure at Exit 2 (3 weekends and 27 nights)
- **Partial** closure at Exit 2 (12 weekends)
- **Partial** closure of 2 right-hand lanes (22 weeks)

### Toward Samuel De Champlain Bridge:

- **Complete** closure at Wellington (3 weekends and 26 nights)
- **Partial** closure at Wellington (12 weekends)







# Deconstruction of the Original Champlain Bridge Update

Dominique Blouin, Eng., Senior Director, Projects  
Simon Hébert, Assistant Project Director, NHSL



# Summary of the deconstruction project

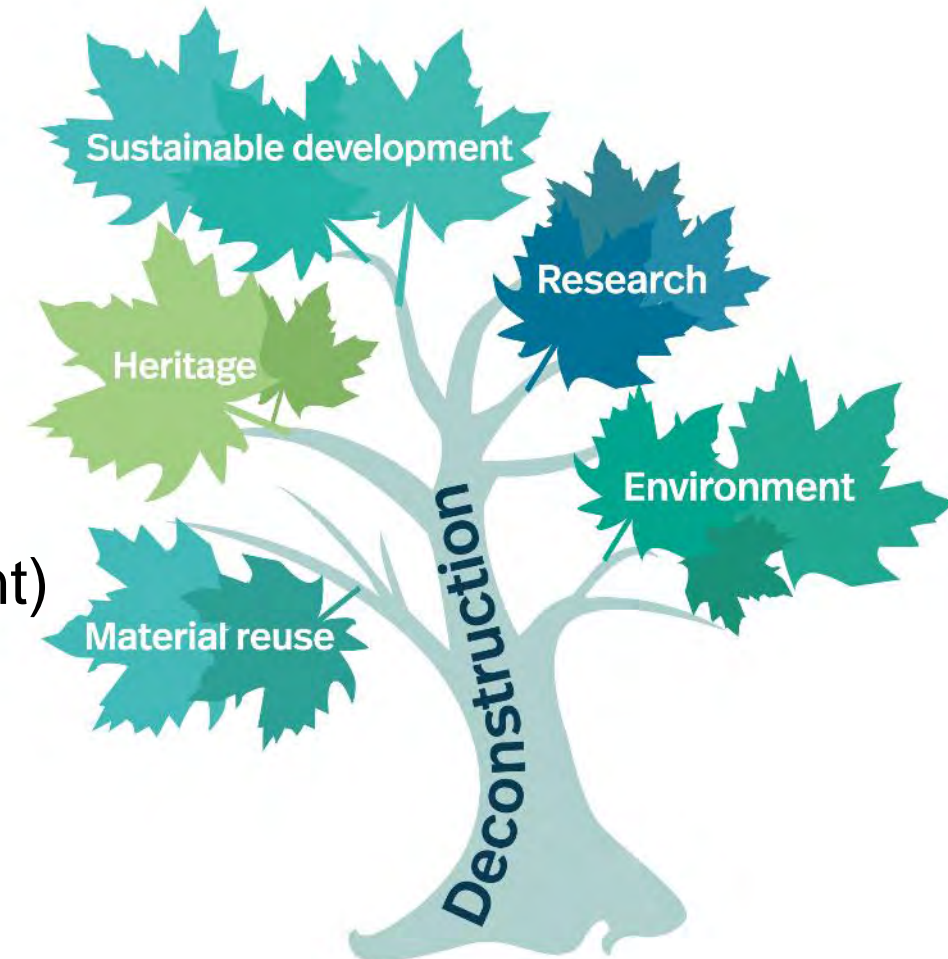


## 5 components:

1. Deconstruction work
2. Environmental measures
3. Material reuse
4. 11 research and development projects
5. Héritage Champlain (shoreline redevelopment)

Deconstruction duration: **43 months**

Scheduled end date: **January 2024**



# 43 months for the deconstruction



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



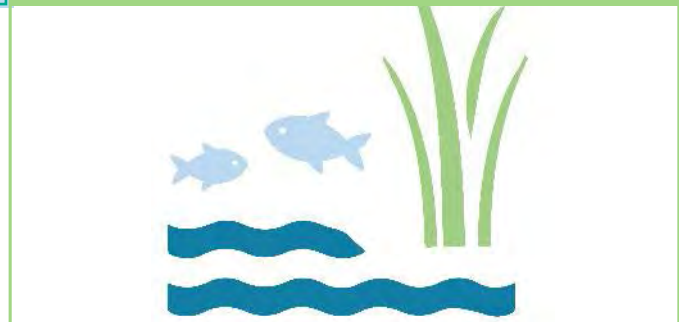
## Section 6: Seaway | April 2021 – January 2024



## 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





# Work Update

Simon Hébert, Assistant Project Director NHSL





# Deconstruction: Île des Sœurs sector



- + **Bridge abutment and 9 spans** deconstructed over Île des Sœurs and the jetty
- + Construction of two fish **migration corridors**
- + Approximately **100 items** for reuse and for the R&D projects were removed

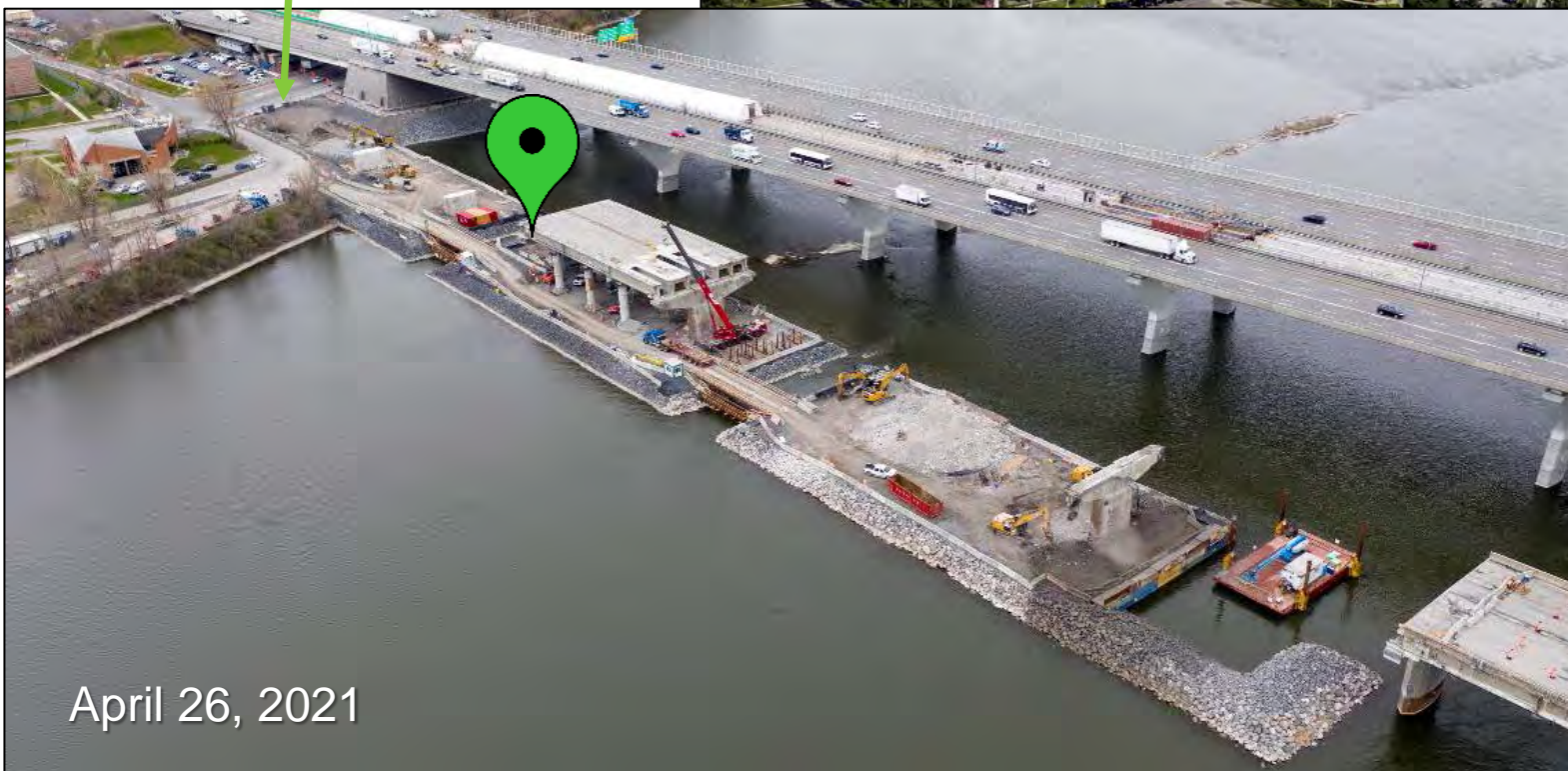




# The construction site in pictures



René-Lévesque Blvd.  
(IDS)





# Ongoing work



Removal of permanent reinforcements (modular trusses) under the edge girders



Start-up of marine equipment: cranes, catamaran barges, tugs, lifting equipment





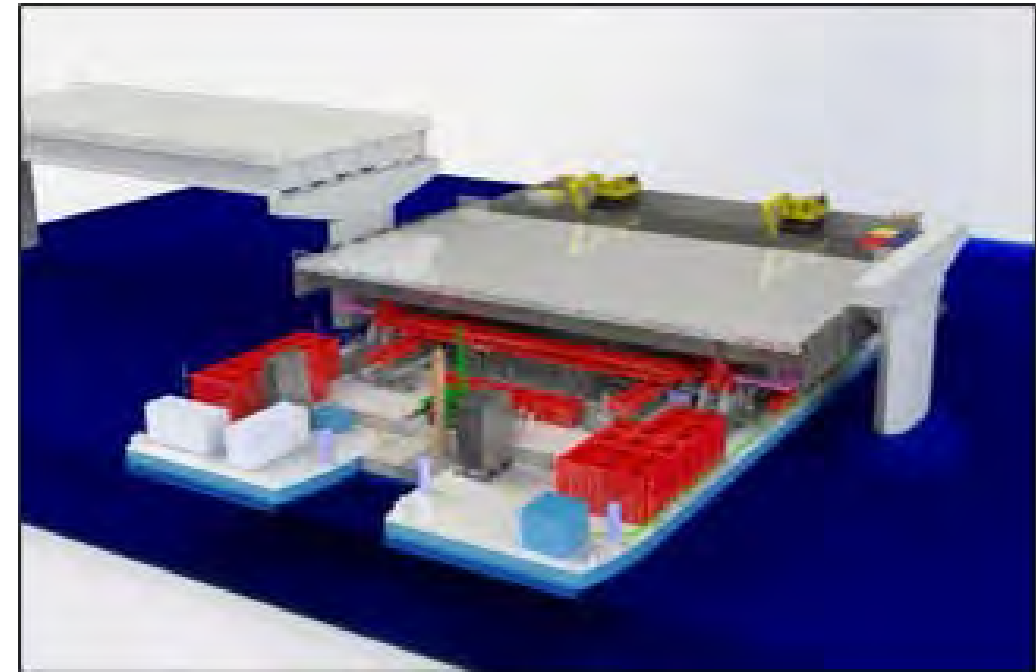
# Deconstruction over the river



**65% of the project: Away from residences**

**Method: System of platforms attached to lifting towers installed on a catamaran barge**

1. Preparatory work – dismantling and removal of:
  - Signage, street lights, etc.
  - R&D components
  - Permanent reinforcements
2. Span recovered with the platform system and deconstructed on the barge
3. Barge-based mechanical deconstruction of the piers and footings above and below the water level
4. Debris disposal by barge







# Other Aspects of the Deconstruction Project

Dominique Blouin, Eng., Senior Director, Projects





# Residents' quality of life



## On-site measures in place

- + Marked transportation routes
- + Restricted transportation hours: about 20 trucks/day
- + Dust control (foggers, windbreaks, road maintenance, etc.)
- + Sound level meters (sound levels)
- + Air-quality measuring stations
- + Real-time monitoring at the site

**Only 1 complaint during 9 months of work!**



# Environmental protection measures



- + **Fish habitat compensation** project: Redevelopment of a piece of farmland in Saint-Ignace-de-Loyola (Saint-Pierre Lake) into a floodplain
- + **Minimizing GHG emissions**: Takers of recyclable materials located within a 150-km radius of the deconstruction site
- + Creation of **two fish migration corridors** around the IDS jetty
- + **Material traceability** program: Real-time tracking of materials, from the construction site to the taker's site





# 11 research and development projects



- + **7 Canadian research bodies**
- + Projects involving structural components from the bridge (concrete, steel and reinforcements)
- + Recovery of some bridge components for the program
- + R&D projects planned as per NHSL's schedule
- + Research project on the efficacy of fish migration corridors (INRS)

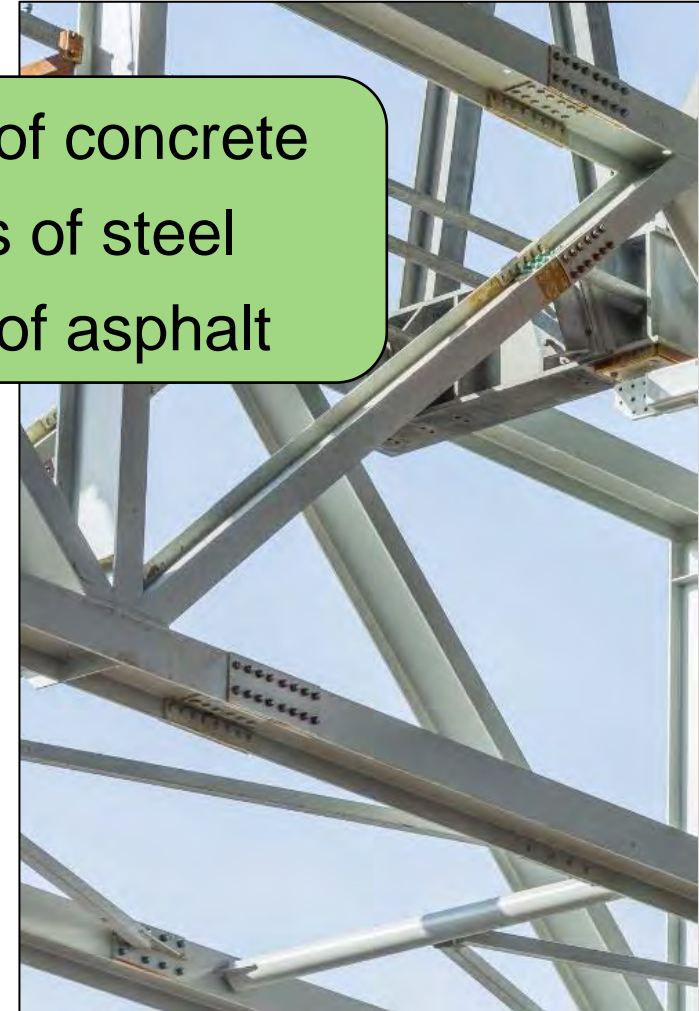


# Material reuse



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 in progress: competition submission form
- + Personal, corporate or public projects: artistic, recreational, cultural, infrastructure or urban ecology projects

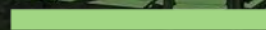






# To follow the progress of the project

Nathalie Lessard, Director, Communications





# Communication tools



## Various platforms:

- + Website: [champlaindeconstruction.ca](http://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](mailto:communications@pjcci.ca)
- + Social media







## Les Ponts Jacques Cartier et Champlain Inc. The Jacques Cartier and Champlain Bridges Inc.

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Participez à la conversation / Join the conversation

**[JacquesCartierChamplain.ca](http://JacquesCartierChamplain.ca)**

