



Ponts
JACQUES CARTIER +
CHAMPLAIN
Bridges
Canada

Deconstruction of the Original Champlain Bridge Public Meeting

May 10, 2022



Presenters

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

Agenda

- + Overview of the deconstruction project
- + Update about the project and upcoming work
- + Other project components
- + Keep up to date with the project
- + Question period



To ask a question

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

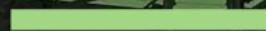




Overview of the Deconstruction Project

Olivier Vincent, Eng.

Project Director, Champlain Deconstruction, JCCBI



Summary of the Deconstruction Project

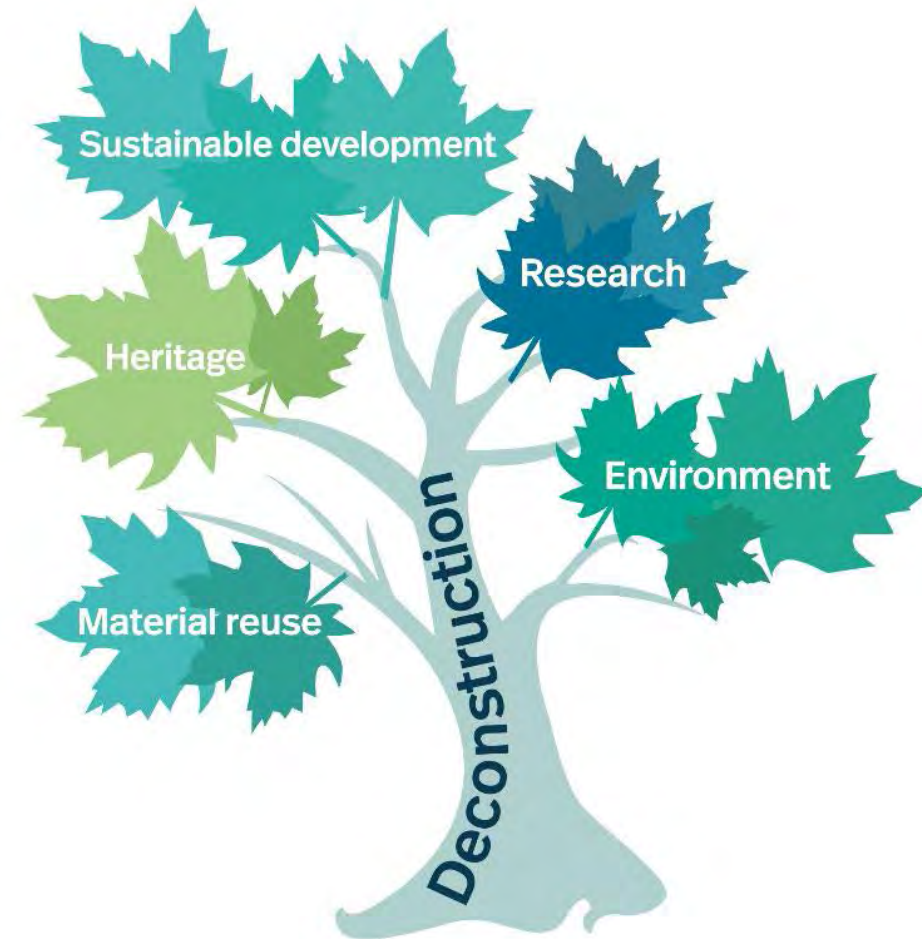


5 components:

1. Deconstruction work
2. Environmental measures
3. Material reuse
4. 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



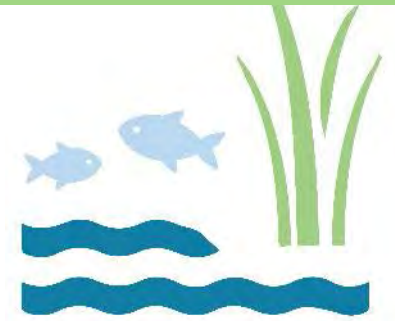
Section 6: Seaway | April 2021 – January 2024



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



Update About the Project and Upcoming Work

Simon Hébert, Assistant Project Director, NHSL



Lowering of the Suspended Span



+ Located above the St. Lawrence Seaway

+ Lowered from January 6 to 8, 2022

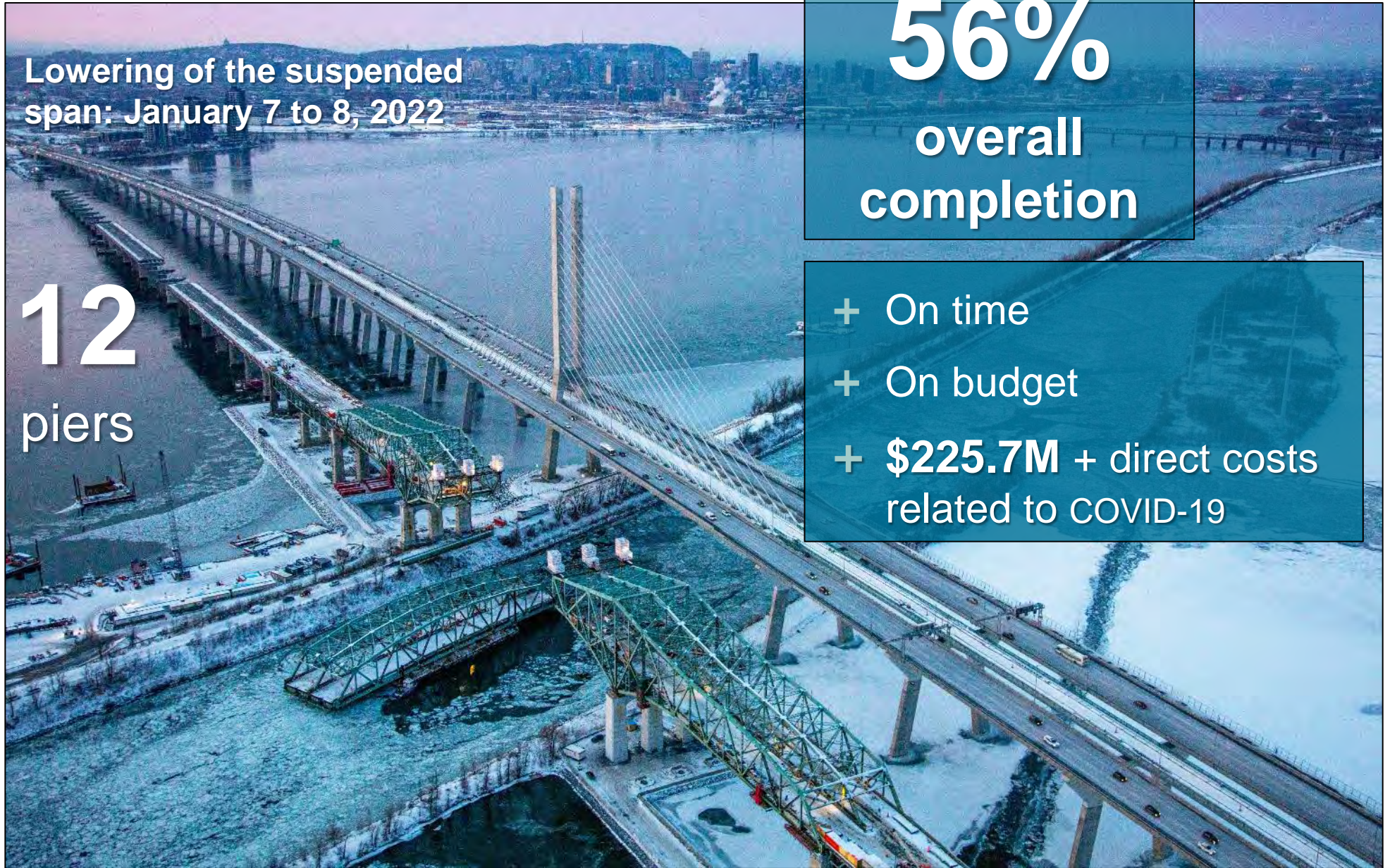
1. Cutting the span: 15 hours

2. Lowering the span: 17 hours

3. Transporting the span: 4 hours to the temporary storage site in Brossard – dismantling started in March



Work completed as of March 31, 2022



Lowering of the suspended span: January 7 to 8, 2022

56%
overall completion

- + On time
- + On budget
- + **\$225.7M** + direct costs related to COVID-19

24
spans

6
footings

12
piers

2
complaints
in 21 months

Work in Progress – River Sector



Pier deconstruction

- + 2 barges surround the pier
- + Deconstructed with hydraulic percussion hammers installed on excavators
- + Operation time: 10 days / pier



Footing deconstruction

- + 2 barges surround the footing, which is contained
- + GPS-equipped excavators extract the footings from under the water
- + Operation time: 20 days / footing





Deconstruction of the cantilever section of the east span

- + Installation of temporary support towers
- + Torch cutting and lifting of the steel components with a crane
- + Steel components placed on the ground
- + Component management: reuse, R&D or recycle
- + Complete traceability for each component

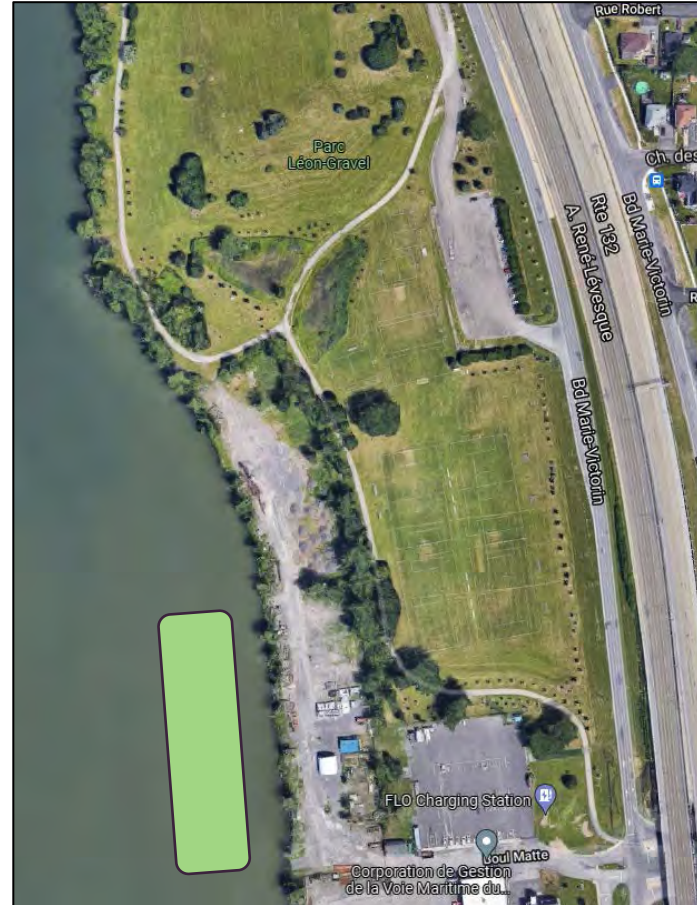


Work in Progress – Brossard Sector



Dismantling of the main span

- + Wharf of the St. Lawrence Seaway Management Corporation in Brossard
- + Dismantling piece by piece with a crane + cut apart on the ground
- + Materials transported to authorized recycling sites
- + Expected completion: June 2022



Work Upcoming in 2022



1. Reinforcements installed on the **cantilever section** of the west span
2. **Trusses** removed from the La Prairie Basin section in Brossard
3. Preparatory work to deconstruct the **spans** over Hwy. 132 in Brossard and in the La Prairie Basin



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

March and April 2022

Sites	March		April	
	# of samples	# of times allowances exceeded	# of samples	# of times allowances exceeded
IDS	236	0	183	1*
Brossard West	31	0	32	1*
Brossard North	93	3*	88	1*



*These results were invalidated since there was no work likely to affect air quality. These results would have been caused by dust on the service roads and the highway, and abrasives on these roads or strong winds.

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

March and April 2022

Sites	# of 30-minute recordings	# of times allowances exceeded
N/A	No recording	N/A

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





Other Project Components

Olivier Vincent, Eng.

Project Director, Champlain Deconstruction, JCCBI



Residents' Quality of Life



Review of different measures at the site

- + 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 2 complaints in 21 months of work!





Fish habitat compensation project

- + Redevelopment of a piece of farmland in Saint-Ignace-de-Loyola (Lake Saint-Pierre) into a floodplain
- + Over 30,000 plants planted in 2022



Protection of cliff swallows

- + 14 nesting boxes = 40 nests installed under the Estacade to compensate for habitat loss



Environmental Protection Measures



1. **Minimize GHG emissions:** Takers of recyclable materials located within a 150-km radius of the deconstruction site
2. Creation of **two fish migration corridors** around the IDS jetty



Fish passage in the corridors



3. **Material traceability program:** Real-time tracking of materials that travel from the construction site to the taker's site



10 Research and Development Projects



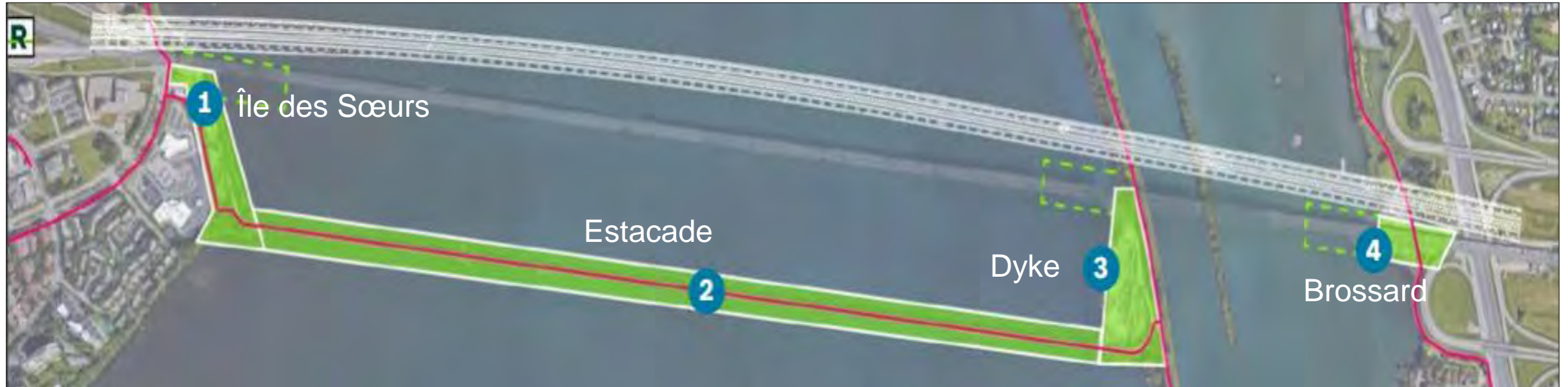
- + **7 Canadian research bodies**
- + Projects that affect the structural components of the bridge (concrete, steel and reinforcements) + a project on the effectiveness of the fish migration corridors
- + The R&D projects will be carried out as per NHSL's schedule
- + **70% of these research bodies** have recovered all or part of the bridge components for their work
- + Approximately **300 components** for reuse and for R&D projects have been removed



Héritage Champlain – Overview



4 sectors



4 orientations:

Connectivity

- Pathway/circuits
- City/river
- Shoreline sites

Citizen ownership

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

Biodiversity

- Naturalization
- Vegetation
- Habitats

Commemoration

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

Concepts are being developed and will be presented later in 2022



Reuse of **400** steel components from the Champlain Bridge
(online catalogue)



- + Call for participation from **June 1 to December 31, 2021**
- + Personal, corporate or public projects: artistic, recreational, cultural, infrastructure or urban ecology projects
- + The selected projects will be announced in the spring



Keep 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: **Contact Us** page at jacquescartierchamplain.ca
- + Social media





DÉCONSTRUCTION **PONT CHAMPLAIN**
CHAMPLAIN BRIDGE DECONSTRUCTION

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JacquesCartierChamplain.ca

