TOWARDS A CIRCULAR ECONOMY

February 21th 2018
MONTRÉAL – A BRIEF PROFILE

Approximately 2 million inhabitants
The most populous French-speaking city in North America
Québec’s metropolis and the heart of its economic activity
A green city
An extensive public transit network
World’s best city for students in 2017
Intelligent Community of the Year in 2016
THE MONTRÉAL APPROACH
Circular economy: a priority

4 priorities for intervention

- Reduce GHG emissions and dependence on fossil fuels
- Add vegetation, increase biodiversity and ensure the continuity of resources
- Ensure access to sustainable, human-scale and healthy neighbourhoods

Make the transition toward a green, circular and responsible economy
THE MONTRÉAL APPROACH

Partner Organization Action Plan

<table>
<thead>
<tr>
<th>Priority</th>
<th>Make the transition toward a green, circular and responsible economy</th>
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<tbody>
<tr>
<td>Action 16</td>
<td>Integrate the principles of the circular economy into the organization’s business practices.</td>
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Municipal Administration Action Plan

<table>
<thead>
<tr>
<th>Priority</th>
<th>Make the transition toward a green, circular and responsible economy</th>
<th>Reference year 2015</th>
<th>2020</th>
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<td>Action 15</td>
<td>“Green” the economy</td>
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<td>Develop and implement the TM21 initiative, with the goal of beginning Montréal’s transition to an ecological economy</td>
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<td>Create an initial portrait of the development of Montréal’s circular economy</td>
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<td>Complete an action study in order to operationalize existing industrial synergies in the eastern part of the island</td>
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FIRST STEP: Initial mapping of the development of Montréal’s circular economy

- Joint initiative of the Sustainable Development Office and the Economic Development Service of Montréal

- Mandate given to the Institut de l’environnement, du développement durable et de l’économie circulaire (Institut Eddec) to map out the players and initiatives in circular economy on the Montréal territory

**Objective**

To better understand the actors and initiatives that already contribute to a better circularity of resources in the city in order to better target and formulate priorities for actions, policies and strategies.
KEY RESULTS: Initial portrait of the development of Montréal’s circular economy

• Variety of existing players and initiatives: in sizes, thematics, geographic location

• Circular economy very present on the territory - nearly 300 initiatives

• Existing initiatives relating mainly to:
  • Functionality / collaborative economy (sharing)
  • Sustainable procurement / reduction at source
  • Longer service life (maintenance and repair, re-use, reconditioning)
  • Recycling and recovery of materials

• Significant presence in circular economy initiatives in 3 boroughs that have in common:
  • Many community-based organizations
  • A population composed largely of responsible and conscientious consumers
  • Innovative local environments
  • Policy favoring the deployment of the circular economy
MONTRÉAL EXEMPLARY
Parc Frédérick-Back & Complexe environnemental de Saint-Michel
MONTREAL IS PARTNERING TO FOSTER CIRCULAR ECONOMY

SYNERGIE MONTRÉAL

A success story of an industrial symbiosis

An industrial symbiosis as a mean to a sustainable economic development
An industrial symbiosis as a mean to a sustainable economic development
PRESENTATION PLAN

I. Circular economy and industrial ecology
II. An industrial symbiosis in the East-end of Montreal
III. The mechanics of Synergie Montreal
IV. First results
V. Futur aims of the projet
I. CIRCULAR ECONOMY AND INDUSTRIAL ECOLOGY
II. AN INDUSTRIAL SYMBIOSIS IN THE EAST-END OF MONTREAL

7,970 business places
- 700 manufacturing businesses
  - Plastics
  - Metal works
  - Wood and furniture
  - Chemistry and petrochemistry
III. THE MECHANICS OF SYNERGIE MONTREAL

I. Audit: input – output – industrial processes
II. Connection between local providers and potential users/buyers
III. Research of opportunities for by-products without local prospects
IV. FIRST RESULTS

- **522** Businesses approached
- **53** Members or participating businesses
- **474** Informed and sensibilised individuals
- **34** Operationnalized or ongoing synergies
- **123,947 $** Generated revenues, tax credits or cost savings
- **1,283 tons** Of by-products diverted from landfill or recycling
- **163** Avoided garbage trucks
- **30,000 $** Value of mutualized equipment
- **75 hours** Of technical and scientific support to members
V. FUTURE AIMS OF THE PROJECT

SUSTAINABILITY FOR MONTREAL AS TO REACH OUT TO ALL STAKEHOLDERS

SYNERGIE MONTREAL’S PART
THANK YOU!

For further information

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