

LOCAL SUSTAINABLE DEVELOPMENT PLAN

2018-2020

Borough of Pierrefonds-Roxboro



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A Word from the Mayor



Here we are at the beginning of 2018, and ready to present the second edition of the Local Sustainable Development Plan for the Borough of Pierrefonds-Roxboro. The first local plan, launched in 2012, led to the implementation of mechanisms for administration and decision-making that have guided us ever since in our everyday practices, operations planning and development of new projects.

In Québec, sustainable development is defined as a “development that meets the needs of the present without compromising the capacity of future generations to meet their own needs. Sustainable development is based on a long-term approach that takes into account the inextricable nature of the environmental, social and economic dimensions of development activities.”

By renewing our local sustainable development plan for the next three years, we are demonstrating our desire to commit ourselves to the residents of Pierrefonds-Roxboro, current and future, to ensure the harmonious economic and social development of our Borough, while at the same time preserving their environment and their quality of life.

I am proud of the direction we took in 2012, and even prouder when I look at the concrete results that have already been achieved, thanks to the exceptional contribution and commitment of all Borough staff members. I also want to thank the residents of Pierrefonds-Roxboro for their dedication to conserving, improving and enhancing our environment. Please continue your efforts in this regard.

Together, we can make a difference for our Borough, now and for the future.

Your Borough Mayor,



Dimitrios (Jim) Beis

A Word from the Borough Director

Pierrefonds-Roxboro adopted its new Local Sustainable Development Plan - "Horizon 2020" in 2018. This plan ensures continuity with the Borough's 2015-2018 Strategic Plan in order to achieve the 2030 vision for the future, which is to increase and strengthen the feeling of belonging to the Borough for residents, and to encourage diversity and harmonious development in its living environments.

Compared to the previous Plan, this one has a limited number of actions. We are therefore able to concentrate our efforts on our priorities and establish a realistic action plan with the goal of achieving the objectives of the Sustainable Montréal 2016-2020 plan. The 19 actions are divided into four categories: reducing GHG emissions; adding vegetation, increasing biodiversity and ensuring the continuity of resources; ensuring access to sustainable, human-scale, healthy neighbourhoods; and making the transition towards a green, circular, responsible economy.

I would like to thank all those involved in preparing this plan. The seriousness with which they carried out their work, as well as their commitment, will make a positive contribution to implementing these actions and thus will help attain a sustainable future for the generations to come.

Your Borough Director,

A handwritten signature in black ink, appearing to read "D. Jacob".

Dominique Jacob

The notion of sustainable development

Sustainable development is an internationally recognized concept. The Borough of Pierrefonds-Roxboro, just like the Ville de Montréal, subscribes to the definition of “sustainable development” coined in the paper released by the World Commission on Environment and Development (Brundtland Commission) entitled “Our Common Future” (1987). Sustainable development is defined as:

“...development that meets the needs of the present without compromising the ability of future generations to meet their own needs. It contains two key concepts: The concept of “needs”, in particular the essential needs of the world’s poor to which overriding priority should be given, and the idea of limitations imposed by the state of our technology and social organization on the environment’s ability to meet present and future needs.”

Sustainable development supposes development that is economically efficient, socially equitable and ecologically sustainable, all based on a new form of governance that encourages the mobilization and the participation of all members of society in the decision-making process.

Context

Here is an outline of **Montreal's approach to sustainable development 2016-2020**.

TOGETHER FOR A SUSTAINABLE METROPOLIS

In June 2016, the Agglomeration Council of Montréal adopted the *Sustainable Montréal Plan 2016-2020* following an extensive coordination exercise involving more than 230 partners from several Montréal organizations and related towns, boroughs and central services.

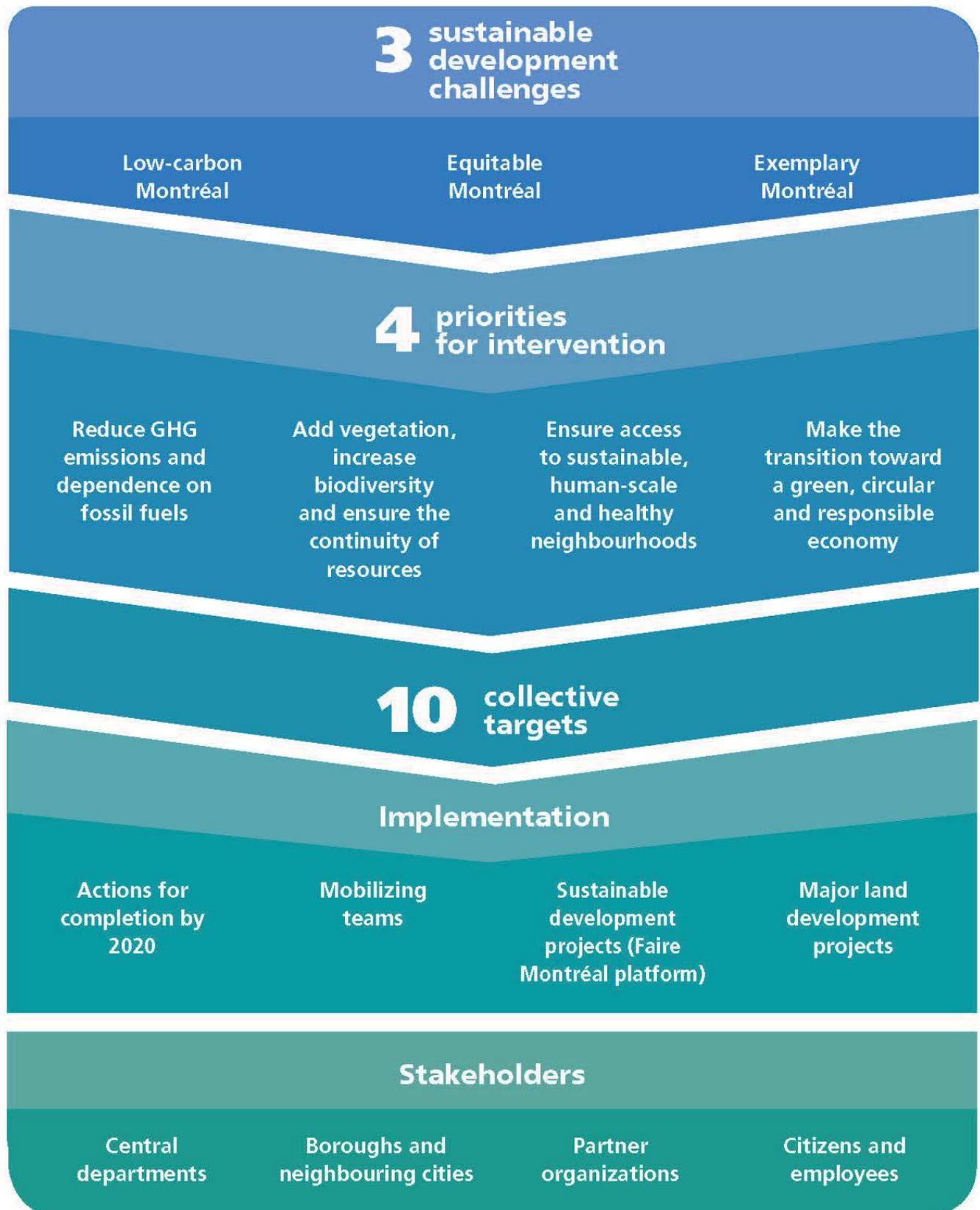
These partners identified 3 challenges and 4 priorities for intervention that require concerted action and consolidation of the interventions on the regional and local scale. Montréal's 3 challenges in terms of sustainable development for the 2016-2020 planning exercise were identified as being:

- 1 LOW-CARBON MONTRÉAL**
Reduce GHGs by 80% by 2050
Reduce and adapt
- 2 EQUITABLE MONTRÉAL**
Improve access to services and facilities
Fight inequalities and promote inclusiveness
- 3 EXEMPLARY MONTRÉAL**
Adopt exemplary sustainable development practices
Lead the way and mobilize

To meet these challenges, the *Sustainable Montréal Plan 2016-2020* sets out 4 priorities that are broken down into 20 actions. For maximum impact across the entire territory, these priorities and actions are incorporated into the steps Montréal is taking:

- action plan for municipal administration
- local sustainable development plans for boroughs and towns within the city
- action plan for partner organizations

In summary, the *Sustainable Montréal Plan 2016-2020* outlines the **common objectives** that developed from the **various planning exercises** and lists the **commitments made on the international level**.



Historical background of the Borough

2012

The first local sustainable development plan for the Borough 2012-2015

orientations 2012 - 2015

In January 2012, the Borough of Pierrefonds-Roxboro adopted its first *Strategic Plan (local) for sustainable development 2012-2015 (SPSD)*. On the basis of the *Montréal Community Sustainable Development Plan 2010-2015*, Pierrefonds-Roxboro's Plan set out the actions to be carried out between 2012 and 2015. These actions were structured in terms of 5 orientations:

1. Improve air quality and reduce greenhouse gas emissions
2. Ensure the quality of residential living environments
3. Practise responsible resource management
4. Adopt best practices for sustainable development in industries, businesses and institutions
5. Improve protection of the biodiversity of natural environments and green spaces

2012 - 2015 review

At the end of the Plan 2012-2015 exercise, there was a grand total of **252 actions**. The number of actions varied from one year to the next, because the Borough is in constant evolution and because adaptations were made annually. The results obtained over the years bear witness to the issues and challenges faced by the Borough. Thus some actions were withdrawn or replaced, while others are still in progress and will be priorities in this new *Local Sustainable Development Plan 2018-2020*.

The last review carried out in 2015 helped us understand the overall portrait of the Borough in terms of sustainable development. Here is a quick look at the accomplishments and successes during 2012-2015.

2012-2015 REVIEW

Averages for local actions

40% carried out
12% partially carried out
11% underway
12% continuous
22% postponed
3% cancelled or replaced

Averages for corporate actions

43% carried out
14% partially carried out
21% underway
9% continuous
10% postponed
2% cancelled or replaced

Orientation 1: Improve air quality and reduce GHG emissions

- New reserved bus lanes on Boulevard des Sources

Orientation 2: Ensure the quality of residential living environments

- A community garden was installed at Borough Hall
- The Borough kept its 4 *Fleurons*
- In August 2015, Pierrefonds-Roxboro became the first borough/municipality in Québec to install permanent dry toilets in its parks



A community garden was installed at Borough Hall

Orientation 3: Practise responsible resource management

- 120 composters were sold through the composting program, most during the Ecological Gardening Day
- The collection of green waste was included in the new organic material collection, which began in Spring 2016



A Tree for my Neighbourhood

Orientation 4: Adopt best practices for sustainable development in industries, businesses and institutions

- New standards for sustainable development were incorporated into the urban planning by-laws

Orientation 5: Improve the protection of biodiversity, natural environments and green spaces

- "A Tree for my Neighbourhood" campaign
- The public riverbank clean-up program bore fruit during the summer period



Ecological Gardening Day on May 23, 2015

2015

Strategic Plan 2015-2018

Adopted on June 29, 2015, the *Strategic Plan 2015-2018* for the Borough of Pierrefonds-Roxboro had as its objective the consolidation of the main axes for development in the Borough until 2018. The principal projects and orientations that were prioritized between 2015 and 2018 are presented in this document.

issues

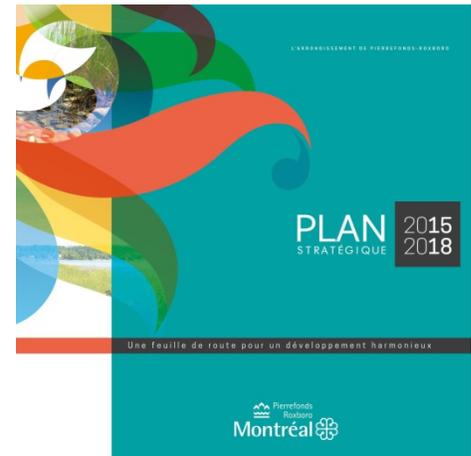
The *Strategic Plan* was structured around 4 main issues, several actions of which are in line with the Strategic Plan for Sustainable Development:

1. Consolidation of the feeling of belonging
2. Continuation of efforts aimed at improving quality of life
3. Intensifying efforts to protect the natural heritage
4. Support for commercial development.

steps

A huge concerted effort by elected officials, managers and their teams allowed the most innovative actions, and the orientations for the design of the strategic plan, to be identified. This work was carried out in the perspective of sustainable development and optimizing resources, while encouraging the continued improvement of services and quality of life for residents.

Partners and residents also participated in the preparation of the strategic plan with their comments and suggestions during the various consultation events, especially at the consultation meetings on the *Strategic Plan for Sustainable Development*, the *Montréal Tomorrow* event, the *Master Plan for Recreational Facilities*, and during question periods at Council meetings and during *Citizens' Saturdays*.



Strategic Plan 2015-2018

2030

The Borough's Vision 2030

The vision of this *Local Sustainable Development Plan 2018-2020* is in line with the main guidelines for the Vision 2030 established by the Borough of Pierrefonds-Roxboro in its Strategic Plan 2015.

vision 2030

A community of **belonging**, a **variety of living environments**, **harmonious development**.

Within fifteen years, the Borough of Pierrefonds-Roxboro will be recognized as a district offering a **protected natural environment** and **living environments** that meet the needs of a **multi-cultural, young, connected** population.

The centre of the Borough will become a highly animated place, much frequented by the entire population, the "**identifying heart**" of Pierrefonds-Roxboro. Circulation between the neighbourhoods and public areas will be made easier by a network of **multi-purpose and bike paths**, as well as by an efficient **public transit** system. The Borough will offer a range of modern, accessible **cultural and sports facilities**.

Revitalization efforts will have decisive results: neighbourhoods will keep their specific colours, while allowing for a **multitude of lifestyles**. Residents will reap the full benefits of the priority given to **protecting and enhancing their green spaces and aquatic areas**.

Today

Portrait of the Borough

“Learn from the past,
Read about the present and
Chart the future... ”

Author unknown

The population

The Borough of Pierrefonds-Roxboro occupies an **area of 27 km²** and has a population of **69,297 inhabitants** (Statistics Canada, 2016). Situated in the north-west portion of the Island of Montréal, the Borough of Pierrefonds-Roxboro stretches along Rivière des Prairies for a distance of 29.5 km and is bordered in part by Lac des Deux Montagnes. The Borough of Pierrefonds-Roxboro is bordered by several towns associated with the Agglomération de Montréal (Senneville, Sainte-Anne-de-Bellevue, Kirkland, Dollard-des-Ormeaux) and three boroughs of the Ville de Montréal (Île-Bizard–Sainte-Geneviève, Saint-Laurent and Ahuntsic-Cartierville).

There are two major neighbourhoods on the territory of the Borough of Pierrefonds-Roxboro: **Pierrefonds-Est/Roxboro** and **Pierrefonds-Ouest**. They lie on either side of Boulevard Saint-Jean. These two neighbourhoods present very distinct living environments and populations with different socio-demographic characteristics.

A more numerous and more dense population

There has been an increase of **1.3%** in population over 5 years, with 68,410 inhabitants in 2011 compared to 69,297 in 2016. The population density of Pierrefonds-Roxboro is **2,560.9 inhabitants per square kilometre**. As an example, this density is lower than that found in Anjou or Verdun, but higher than that in Lachine, Saint-Laurent and Île-Bizard–Sainte-Geneviève. In 2016, the Borough was **ranked 14th** out of the 19 most populated boroughs in the Ville de Montréal (compared to the 15th ranking in 2006, taking the place of Verdun), as shown in the following table:

Table 1 Population, land area and density, 2016

	Ranking	Population 2016	Area (km ²)	Density (inhab./km ²)
Côte-des-Neiges–Notre-Dame-de-Grâce	1	166,520	21.4	7,766.8
Villeray–Saint-Michel–Parc-Extension	2	143,853	16.5	8,723.7
Le Plateau-Mont-Royal	7	104,000	8.1	12,792.1
Saint-Laurent	8	98,828	42.8	2,310.7
Verdun	15	69,229	9.7	7,126.0
Pierrefonds-Roxboro	14	69,297	27.1	2,560.9
Île-Bizard–Sainte-Geneviève	19	18,413	23.6	780.2
Ville de Montréal	-	1,704,694	365.2	4,668.3

Source: Ville de Montréal, Socio-demographic Profiles – Statistics Canada, 2016 population census.

The population of the Borough of Pierrefonds-Roxboro has continued to grow over the years, as shown in the following table. The strongest population growth took place between 1986 and 1996, going from 45,743 to 58,936 residents, a difference of **19.4%**.

Table 2 Total population and variation between 1966 and 2006

	1966	1971	1976	1981	1986	1991	1996	2001	2006	2011	2016
Population	35,854	40,645	42,508	44,682	45,743	54,614	58,936	60,605	65,041	68,410	69,297
Variation	-	13.4%	4.6%	5.1%	2.4%	19.4%	7.9%	2.8%	7.3%	5.2%	1.3%

Source: Ville de Montréal, Statistical yearbook, 2006; Ville de Montréal, Socio-demographic Profiles – Statistics Canada, 2011-2016 population censuses.

Close to one-third of the population in under the age of 25

The Borough is known as a sought-after living environment for families. As shown in the following table, children **under the age of 14** represented **18%** of the population in 2016, compared to 20% in 2006. The **15-24 age group** has seen a slight increase, going from 13% to **14 %** in 10 years.

The young adult group (**25 to 34**) has remained stable at **11%** of the population from 2006 to 2016. Adults between the ages of **35 and 64** represented **43%** of the population in both 2006 and 2016; however the composition of this group changed because the number of older people (50 to 64) increased, while the number of younger adults (35 to 49) decreased. Finally, the **65 to 79 cohort** represented **11%** of the population, compared to 9.3 % in 2006, whereas people aged 80 and over represented **4%** in 2016 compared to 2.7% in 2006.

The **median age** of the population of Pierrefonds-Roxboro is **41**.

Table 3 Age Groups, 2006-2016

Age	Men	Women	Total	%2016	%2006
0 to 4	1,860	1,835	3,690	5.3%	5.7%
5 to 9	2,215	2,115	4,330	6.2%	6.8%
10 to 14	2,285	2,200	4,490	6.5%	7.7%
15 to 19	2,485	2,315	4,795	6.9%	7.1%
20 to 24	2,425	2,310	4,735	6.8%	6.2%
25 to 29	1,830	1,835	3,660	5.3%	5.4%
30 to 34	1,815	1,955	3,770	5.4%	6%
35 to 39	1,955	2,340	4,295	6.2%	7.7%
40 to 44	2,180	2,465	4,645	6.7%	9.1%
45 to 49	2,580	2,780	5,360	7.7%	8.7%
50 to 54	2,815	2,965	5,780	8.3%	7.1%
55 to 59	2,600	2,700	5,295	7.6%	6%
60 to 64	2,055	2,195	4,245	6.1%	4.5%
65 to 69	1,610	1,765	3,375	4.9%	3.6%
70 to 74	1,135	1,425	2,560	3.7%	3.2%
75 to 79	790	1,045	1,835	2.6%	2.6%
80 to 84	560	780	1,340	1.9%	1.6%
85 and over	400	685	1,090	1.6%	1.1%
Total	33,600	35,705	69,300	100%	100%

Source: Ville de Montréal, Socio-demographic Profile – Statistics Canada, 2006-2016 population censuses.

Few single-parent families

In 2016, the Borough of Pierrefonds-Roxboro had **19,265 families**, 15,815 **with spouses (82.1%)** and 3,450 **single-parent families (17.9%)**. The portrait for families in 2016 is similar to the portrait for 2006. The Borough offers an **attractive living environment for families**, with its abundance of parks and green spaces on the territory, and a full and varied offer in cultural and educational opportunities.

Table 4 Families according to the ages of the children living at home, 2006-2016

	Number	% 2016	% 2006
Total number of families	19,265	100%	100%
Families with spouses	15, 815	82.1%	83%
Single-family parents	3,450	17.9%	16.9%
Number of families with children	13,600	70.6%	69.1%
Families with no children	5,660	29.4%	30.1%

Source: Ville de Montréal, Socio-demographic Profile – Statistics Canada, 2006-2016 population censuses.



The Borough of Pierrefonds-Roxboro offers an attractive living environment for families

Average of 2.7 people per household

The **average size** of households in the Borough in 2016 was the same as it was 10 years ago: **2.7 people**. This average was higher than that for the Ville de Montréal, which was 2.1 people.

In 2016, the Borough of Pierrefonds-Roxboro had 25,355 households. The most common type of household was that composed of **two people** (27.7%); however, we also observed a large proportion of households composed of people living alone (24.3%).

Table 5 Size of and variation in households, 2001-2016

	2001	% 2001	2006	% 2006	Variation 2001-2006	2016	% 2016	Variation 2006-2016
Number of households	22,105	100%	23,745	100%	7.4%	25,355	100%	6.8%
1 person	5,065	22.9%	5,560	23.4%	9.8%	6,165	24.3%	10.9%
2 person	6,565	29.7%	6,875	29%	4.7%	7,030	27.7%	2.3%
3 person	3,835	17.3%	4,200	17.7%	9.5%	4,465	17.6%	6.3%
4 or more people	5,870	26.6%	6,190	26.1%	5.5%	7,730	30.5%	24.9%
Average number of people in a household	2.7	-	2.7	-	0%	2.7	0%	-

Source: Ville de Montréal, Socio-demographic Profile – Statistics Canada, 2016 population census..

Considerable cultural diversity

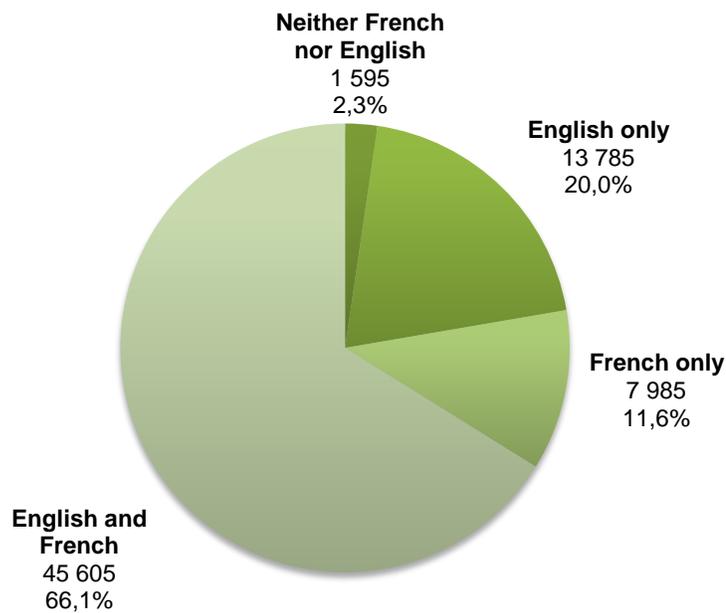
In 2016, **91%** (62,490) of the population was composed of Canadian citizens, while 9% (6,350) were not Canadian citizens. There were 27,745 immigrants in the Borough, representing 40% of the Borough's total population.

Bilingual population

66% of the population were able to hold a conversation in both French and English, whereas **12%** of the population were unilingual Francophones and **20%** were unilingual Anglophones. **2%** of the population spoke neither French nor English.

In 2016, **88%** of people spoke only one language in the home, compared to 95% in 2006. French is the language spoken most often in the home for **30%** of the population, while for 45% it was English. **25%** spoke another language in the home.

Table 6 Knowledge of the official languages, 2016



Source: Ville de Montréal, Socio-demographic Profile – Statistics Canada, 2016 population census.

High average income for households

In **2015**, the average income for households in the Borough was **\$61,361** after income taxes, which is significantly higher than the average income for households in the Ville de Montréal (**\$44,737**).

Table 7 Total annual household income in 2015

	Number	%
Below \$5,000	295	1.2
\$5,000 to \$9,999	265	1
\$10,000 to \$14,999	520	2
\$15,000 to \$19,999	910	3.6
\$20,000 to \$24,999	960	3.8
\$25,000 to \$29,999	1,015	4
\$30,000 to \$34,999	1,030	4.1
\$35,000 to \$39,999	1,050	4.1
\$40,000 to \$44,999	1,110	4.4
\$45,000 to \$49,999	1,180	4.6
\$50,000 to \$59,999	2,290	9
\$60,000 to \$69,999	1,975	7.8
\$70,000 to \$79,999	1,775	7
\$80,000 to \$89,999	1,565	6.2
\$90,000 to \$99,999	1,450	5.7
\$100,000 and over	8,000	31.5
<i>\$100,000 to \$124,999</i>	<i>2,770</i>	<i>10.9</i>
<i>\$125,000 to \$149,999</i>	<i>1,915</i>	<i>7.5</i>
<i>\$150,000 to \$199,999</i>	<i>1,905</i>	<i>7.5</i>
<i>\$200,000 and over</i>	<i>1,410</i>	<i>5.6</i>
Total number of households	25,385	100

Source: Ville de Montréal, Socio-demographic Profile – Statistics Canada, 2016 population census.

Built Environment

Residential use is the most widespread land use

Residential use is the land use that is most widespread in the Borough. In 2016, there were **25,385 private, occupied, dwelling units** on the territory. In this regard, **detached homes** represent the housing type most frequently found on the territory (50.8% of all dwelling units). The land use density is considered to be *low*.

The following table shows the evolution of dwelling units between 2011 and 2016. The situation has remained relatively similar over the past 5 years.

Table 8 Types of dwelling units 2011-2016

	2011		2016	
	Number of dwelling units	%	Number of dwelling units	%
Total - Private, occupied dwelling units according to the type of dwelling unit	24,895	100	25,385	100
Detached house	12,895	51.8	12,905	50.8
Apartment in a building 5 or more storeys high	1,145	4.5	1,325	5.2
Other integral dwelling unit	10,855	43.6	11,110	43.8
Semi-detached house	1,250	5	1,315	5.2
Row house	1,860	7.5	1,925	7.6
Apartment or ground-level unit in a duplex	275	1.1	275	1.1
Apartment in a building less than 5 storeys high	7,455	29.9	7,590	29.9
Other individual attached house	15	0.1	35	0.1
Mobile home	5	0	0	0

Source: Ville de Montréal, Socio-demographic Profile – Statistics Canada, 2016 population census.

To support the residential use, **stores** for the local population's everyday needs can be found along the main transportation axes:

- Boulevard des Sources
- Boulevard Saint-Jean
- Boulevard Saint-Charles
- Boulevard de Pierrefonds
- Boulevard Gouin Ouest

Industrial use in the Borough is rare; a few enterprises are located on either side of the right-of-way for Highway 13 south of the railway line.

The **central sector** of the Borough of Pierrefonds-Roxboro consists of Borough Hall, the Pierrefonds Library, the CLSC, the Pierrefonds Cultural Centre, the Marcel Morin Community Centre and coming soon, the new Pierrefonds Library. This sector has strong development potential, considering its location at the intersection of three of the Borough’s structuring road axes: boulevards Gouin, de Pierrefonds and Saint-Jean.

Transportation infrastructures

Need for east-west service

In view of the elongated shape of the Borough’s territory and the story behind the planning of the street layouts, there are **very few east-west traffic routes**. The Borough of Pierrefonds-Roxboro is accessible from Highway 40 via boulevards Saint-Charles, Saint-Jean, des Sources and Sunnybrooke, and via Chemin de l’Anse à l’Orme.

The only highway infrastructure on the Borough’s territory is a short section of Highway 13, on the eastern edge. The one route that crosses the entire territory is Boulevard Gouin. Another major axis is Boulevard de Pierrefonds, which starts near the intersection of boulevards Gouin and des Sources and ends at the right-of-way for Highway 40 at the extreme western end of the Borough. Chemin de la Rive-Boisée, Boulevard Lalande and rue Saraguay run along Rivière des Prairies in the eastern portion of the Borough.

Enhancement of public transit services

The Borough is served by **several bus lines**. Despite their numbers, many only offer service during the morning and evening rush hours, while others offer no service on weekends. Some lines are not optimized and sectors are still poorly served. The frequency of bus service (outside the rush hours) is generally every 30 minutes.

The Borough has public transit by rail via two commuter train stations, both located in the eastern part of its territory: Sunnybrooke and Roxboro-Pierrefonds stations (Deux-Montagnes line).

Table 9 Parking spaces and ridership numbers for the Roxboro-Pierrefonds and Sunnybrooke stations, 2014

Station	Incentive parking			Occupancy rate	Ridership
	N° bike spaces	N° car spaces	N° electric car spaces		2014
Roxboro-Pierrefonds	44	918 + 7 carpool spaces + 171 pilot project spaces	2	92%	1,367,200
Sunnybrooke	21	515 + 5 carpool spaces	2	98%	787,900

Source: AMT, PTI 2015-2016-2017.

Bike path network growing fast

The Borough of Pierrefonds-Roxboro has **over 23 kilometres of bike paths**. Bike paths are the responsibility of the Ville-centre. There are also multi-purpose paths that are mostly located in parks. They are designed to suit different travel methods and can accommodate pedestrians and cyclists at the same time. These multi-purpose paths are under the jurisdiction of the Borough of Pierrefonds-Roxboro.



Pierrefonds-Roxboro has over 23 kilometres of bike paths on its territory

Action Plan 2018-2020

“There are no passengers on Spaceship Earth.
We are all crew.”

Herbert Marshall McLuhan, Canadian philosopher and intellectual

In light of the issues and challenges presented in the latest portrait of the territory, we have now been able to prepare the **action plan for the Borough of Pierrefonds-Roxboro for the years 2018 to 2020**. Based on the directives in the *Sustainable Montréal 2016-2020*, the most pertinent, highest priority and realistic actions have been selected to be incorporated into the Borough’s own **challenges** as well as into the **needs** of partner organizations that have demonstrated a commitment to sustainable development.

Certain key actions in the very first sustainable development plan (2012-2015) are also being maintained and improved in this new action plan, so as to ensure that there is **continuity in the steps** already undertaken in sustainable development. The new Local Sustainable Development Plan is a document that **will evolve over time** to adapt in real time to the new realities and priorities in the future. The **priorities for intervention** in the *Action Plan 2018-2020* are presented on the following pages. They will guide us towards a **sustainable future** for the Borough.

Steps towards the Local Sustainable Development Plan 2018-2020

Some pertinent, concrete actions

Keep actions **precise, measurable and quantifiable** to provide a clear objective that respects **the vision** of Pierrefonds-Roxboro (vision 2030)

Choose **priorities** for intervention

Consider the **capacity to act** as being **efficient and realistic** (budget, time, resources, etc.)

Some pertinent and responsible players involved

Form a **Management Committee dedicated** to the Local Sustainable Development Plan (LPSD)

Organize Working Table days with the **partner organizations involved** in the actions

Annual follow-ups with the Management Committee and partner organizations

Ensure that meetings are held with the Management Committee **before, during and after** the LPSD is submitted

Plan **4 annual meetings between now and 2020** to ensure that the actions are followed up

1 First priority for intervention: Add vegetation, increase biodiversity and ensure the continuity of resources

In brief:

Access to Rivière des Prairies

The Borough of Pierrefonds-Roxboro has about 29 kilometres of riverbank. Several access points have been developed, but as is the case for several Montréal boroughs, the feeling of proximity, as well as access, to the water is not the best. Most access points to the river are isolated and apart from the nature parks, there are few linear parks offering trails alongside the Rivière des Prairies. However, access to the water must not have priority over protecting the waterfront. It is therefore essential to replant these buffer strips.

Sites of natural interest

The Agglomeration of Montréal has set an objective for increasing the canopy area index from 20% to 25% between now and 2025 (Canopy Action Plan 2012-2021, 2012). The Borough of Pierrefonds-Roxboro has a natural heritage that is rich, diverse and very extensive. There are two eco-territories and three nature parks in the Borough. Here are a few details about these sites of natural interest.

Parc-nature du Bois-de-Liesse is a 159-hectare conservation park in an urban setting. Several activities are offered here by the *Groupe uni des éducateurs naturalistes et professionnels en environnement* (GUEPE), a non-profit organization whose mission is to offer youths and younger children educational and professional services in the environmental and natural sciences fields. (<https://www.guepe.qc.ca/>)

Parc-nature de l'Anse-à-l'Orme is an 88-hectare linear park bordering Lac des Deux Montagnes.

Parc-nature du Cap-Saint-Jacques is located between Lac des Deux Montagnes and Rivière des Prairies. With an area of 288 hectares, it is the largest park in Montréal's *Réseau des grands parcs*. With its numerous berry bushes, Parc-nature du Cap-Saint-Jacques is known for the diversity of its fauna.



Parc-nature du Bois-de-Liesse – Ruisseau Bertrand

Éco-territoire Rapides-du-Cheval-Blanc is located on the banks of Rivière des Prairies, on the Borough's eastern boundary. This site of natural interest has a very rich ecology, especially in the context of the Ville de Montréal's *Politique de protection et de mise en valeur des milieux naturels*. The plan for this strip of waterfront is for it to be enlarged to ensure a natural balance between the aquatic environment and the banks. Thus a new park measuring 44 hectares should soon be added to Montréal's list of *Grands parcs*.



Parc-nature du Cap-Saint-Jacques

The Écoforêt corridor in the Éco-territoire Rivière à l'Orme is situated, in part, on the territory of the Borough, and links three large parks: Parc-nature de l'Anse-à-l'Orme, Parc agricole du Bois-de-la-Roche and Parc-nature du Cap-Saint-Jacques. This eco-territory creates a strategic link for flora and fauna.



Éco-territoire Rapides-du-Cheval-Blanc

Heat islands

As many households own at least two cars, and street parking is prohibited at night during the winter, we are seeing **a multiplication of hard surfaces** in the Borough. This substantial number of above-ground parking areas is contributing to the heat island effect during the day, and is reducing the natural absorption of water by the soil at night.

The **main heat islands** on the Borough of Pierrefonds-Roxboro's territory are the following:

- central sector or institutional core
- parking lots for the Cloverdale Housing Co-operative sector
- AMT incentive parking lots
- sector at the intersection of boulevards des Sources, Gouin and de Pierrefonds

Sustainable development

The urban planning regulations are an interesting tool for ensuring that standards to **optimize the application of the principles of sustainable development** (adding vegetation, rainwater management, sustainable materials, etc.) are incorporated into the planning exercises for construction projects and existing or future developments, especially in parking lots. In this way, these provisions will reduce the negative impact of heat islands, ensure that **land use is more efficient** and thereby **develop friendly living environments and respect for their needs** (human-scale neighbourhoods, better planning for transportation, density by means of building vertical mixed-use spaces, protecting natural resources, etc.).

Measures for the implementation of Priority for intervention 1

Add vegetation, increase biodiversity and ensure the continuity of resources

Action 1 Protect and enrich the urban forest and biodiversity

Measures for implementation		2017 (reference year)	2020 (targets)
1.	Identify suitable sites and plant trees on public property (Canopy Action Plan 2012-2021)	450 trees planted in 2017	Plant 1,500 trees (500 trees per year)
2.	Encourage large landowners (ICI) and residents to plant trees on their properties (Canopy Action Plan 2012-2021) and introduce incentives for the replacement of trees felled with a permit while ensuring that trees that have to be felled are replaced.	About 90 obligations to replant were carried out on private properties in 2017	Incorporate the most restrictive provisions for replacing trees into the by-laws Promote the <i>Programme de remplacement des arbres avec la Ville de Montréal</i> (Emerald Ash Borer) Have 1,000 trees on private property by promoting tree planting on vacant lots
3.	Introduce landscaping that encourages biodiversity on public property (presence of the 3 main strata of vegetation, indigenous plants that attract birds and pollinators, etc.)	-	Sites suitable for biodiversity: Parc Graham, Parc Yuille, Parc Villeret and Parc du Château-Pierrefonds Plan 3 plantings of milkweed to attract pollinating insects like the Monarch butterfly, in particular on the lot for the new library and at the centre of the Saint-Jean island
4.	Promote the program " My Space for Life Garden " which encourages landscaping of the biodiversity zone on private property	31 candidates for the My Space for Life site in 2017	30 candidates for the My Space for Life site between now and 2020
5.	Make the population aware of the benefits of urban trees and distribute indigenous tree seedlings * ¹	<i>A tree for My Neighbourhood</i> program: 93 trees sold in 2017	Continue the <i>A tree for My Neighbourhood</i> program Distribute between 100 and 200 per <i>Éco-quartier</i> , per year

¹ The measures for implementation marked with an asterisk (*) are the measures already included in the Strategic Plan for Sustainable Development 2012-2015 and that have been updated for 2018-2020.

Action 2 Increase vegetation in the built environment

Measures for implementation		2017 (reference year)	2020 (targets)
6.	Amend the urban planning by-laws to require a minimum amount of vegetation when a building is constructed or renovated	Added between 20% and 50% of current vegetation for front yards included in the urban planning by-laws	Allow commercial greenhouses by means of a conditional by-law, from the perspective of urban agriculture
7.	Favour indoor or underground parking levels	<p>Certain standards already included in the urban planning by-law, in particular:</p> <ul style="list-style-type: none"> ▪ For housing with 12 or more dwelling units, at least 80% of the parking spaces must be indoors or underground² ▪ 25% reduction in minimum requirements for a dwelling unit at least 500m from a station³ ▪ Etc. 	Include a minimum percentage of indoor or underground parking for all use groups
8.	Encourage green/white roofs in new development projects	Green roofs are authorized in the urban planning by-law ⁴	<p>Encourage the installation of green roofs and include regulatory provisions authorizing these constructions, while ensuring access to them is safe (greenhouse production, installation of containers, etc.)</p> <p>Identify buildings suitable for pilot projects (affiliation with academic projects)</p>

² Article 206 of Zoning By-law Number CA29 0040

³ Article 207 of Zoning By-law Number CA29 0040

⁴ Article 249.1 of Zoning By-law Number CA29 0040

Action 3 Reduce and recover residual materials

Measures for implementation		2017 (reference year)	2020 (targets)
9.	Make residents and Borough employees aware of reduction at source, re-use, recycling, organic waste material and recycling of residual materials (HHW, ICT, bulky items, etc.), in order to increase participation in waste collection and other services	Promotional campaign for Borough employees, installation of notices to encourage people to turn off lights and appliances at the end of the day (2015)	<p>Include training sessions to make employees aware of the proper use of garbage bins</p> <p>Adopt a directive aimed at eliminating the use of single-use plastic water bottles at meetings and other local administration activities</p> <p>Optimize waste collection operations (waste and recycling) through an information campaign and by making the population aware in spring by ensuring that all residents receive the information</p> <p>Install bins in areas where food is consumed in 3 administrative buildings per year</p>

Action 4 Optimize water management

Measures for implementation		2017 (reference year)	2020 (targets)
10.	Favour and encourage best practices for rainwater management (rain gardens, rain barrels, soakaways, permeable paving, depressions, ditches, retention basins, etc.) in the territorial planning, and make residents aware of, and motivate them about, the ecological management of rainwater (e.g., use of rainwater collection barrels, filtering, rain gardens, ecological maintenance of ditches, disconnecting gutters)	<p>Éco-quartier oversees rainwater management and the sale of rain barrels throughout the year, in collaboration with the Blue Patrol (2015)</p> <p>2 rainwater barrels sold in 2017 at \$75 each</p>	<p>Make the population aware of the use of rain barrels to increase the number of barrels distributed: offer a subsidy for purchasing, review the best techniques for using and incorporating them, etc.</p> <p>Aim to sell 30 barrels by 2020</p>
11.	Adopt a regulatory framework limiting certain types structures and uses in topographical low points and incorporate these regulations into the evaluation criteria for the projects submitted to the planning advisory committees (CCU) in order to eliminate the risk of flooding	Standards already included in the urban planning by-law	Incorporate new standards into the planning regulations that are better adapted to the environment, with particular attention to the 0-20 year and 0-100 year flood zones

Measures for implementation		2017 (reference year)	2020 (targets)
12.	Correct cross-connections and prevent them in new housing projects*	12 corrections in 2015 25 corrections in 2016 24 corrections in 2017	Correct 25 cross-connections per year and avoid them in future projects

2 Second priority for intervention: Ensure access to sustainable, human-scale and healthy neighbourhoods

In brief:

Potential demographic growth

There is little land available for residential development in the Borough, and the population has been growing at a slower rate over the last five years. However, the **Pierrefonds Ouest** project is offering a major real estate development that includes a large population increase in the years to come. This project would **create areas for conservation** and involve the construction of an **urban boulevard and an integrated neighbourhood** offering a wide variety of neighbourhood services. The creation of a quality living environment and the protection of the natural heritage are integral elements in this project. At this time, the real estate development would include more than 5,000 new dwelling units and close to 23 hectares of parks and retention basins. The portion set aside as conservation areas would take up 180 hectares.

Major cultural diversity

As two out of every five people were born outside Canada, it is essential for the Borough that the services and activities it offers its population are representative of this demographic.

Low-density land use

The West Island of Montréal is marked by **poor service in terms of public transit** and there is **heavy dependency on the car**. These two elements encourage low-density land use in the Borough.

Access to housing difficult

The number of interventions related to homelessness has **tripled** in the West Island since spring 2017.

Over time, the difficulties associated with access to housing have created a problem of **hidden homelessness**. In fact, we are seeing an increase in the numbers of asylum seekers and people with no status, creating housing instability.

Neighbourhood development on a human scale

The areas around commuter train stations are strategic places for the development of *Transit-Oriented Development* (TOD) sectors. This type of development, driven by the presence of facilities or infrastructure for public transit, favours high land use densities, a mix of land uses and urban design that encourages the use of active transportation. Moreover, in the Metropolitan Land Use and Development Plan (PMAD) for the Montréal Metropolitan Community, all commuter train stations are targeted for the installation of this type of development. A minimum threshold for land use density of 40 dwelling units per gross hectare is prescribed for the areas around the Borough's two stations (Sunnybrooke and Roxboro-Pierrefonds).

Little space available for new employment hubs

For the most part, service and retail businesses are located along the main transportation routes, i.e., boulevards des Sources, Saint-Jean, Saint-Charles and de Pierrefonds. There are also a few businesses dotted along Boulevard Gouin. The Borough's many residential sectors have few neighbourhood services, resulting in long-distance trips to purchase everyday consumer goods.

Apart from service and retail businesses, **very little space** remains for **businesses that create jobs**. The largest industrial job sector in the Borough is located on either side of Highway 13, south of the railway line.

According to the latest list of businesses from *Emploi Québec* on the information portal for establishments, there are **1,023 registered enterprises** on the territory with **8,840 jobs**. The Borough of Pierrefonds-Roxboro is the largest employer on the territory, followed by the wholesaler Chiron Inc and Collège Charlemagne.

Measures for the implementation of Priority for intervention 2

Ensure access to sustainable, human-scale and healthy neighbourhoods

Action 5 Fight inequality and promote inclusion

Measures for implementation		2017 (reference year)	2020 (targets)
13.	Abide by the principles in the Municipal Action Plan for Seniors and implement them locally	-	<p>Create a Seniors' Council and make accessibility and safety for seniors the priorities</p> <p>Adopt an action plan for seniors</p>
14.	Abide by the Policy on Children and its action plan	-	<p>Create a Youth Council and make food security and access to housing the priorities</p> <p>Adopt an action plan for youths</p>
15.	Encourage the allocation of vacant premises to NPOs and social economy enterprises that contribute to the quality of community life	-	Evaluate the possibility of offering local vacant premises at less cost
16.	Improve access to social housing and housing not supported by the community	-	Encourage the setting up of more social stakeholders on the ground in order to cover the territory fairly and provide more resources to facilitate access to social housing

Action 6 Preserve heritage and promote culture

Measures for implementation		2017 (reference year)	2020 (targets)
17.	Ensure the protection and enhancement of buildings, the overall assembly, areas of heritage interest including modern heritage and industrial heritage, and landscapes of interest	Measures exist for protecting buildings of interest in the by-law concerning site planning and architectural integration	Implement standards and instruments for best practices to further protect and enhance the heritage areas and landscapes of interest, in particular the circuits along Gouin and in Old Roxboro
18.	Develop an innovative cultural services offer that responds to the cultural, linguistic and artistic diversity specific to the Borough of Pierrefonds-Roxboro*	The cultural services offer has seen an increase of 22% (2015)	Examine the cultural offer to produce a Local Action Plan for culture Recapture and upgrade the cultural vocation of the Pierrefonds Cultural Centre Increase the cultural services offer by 20%

Action 7 Improve access to municipal services and facilities as well as infrastructures

Measures for implementation		2017 (reference year)	2020 (targets)
19.	Apply the principles of universal accessibility in cultural and recreational facilities and during events and activities organized by the local administration. Subscribe to the principles universal accessibility during the construction or renovation of buildings	Chalets were constructed in Parc Brook, Parc Alexander and Parc Roxboro in 2015 Chalets were constructed in Parc Grier and at the Marcel Morin Community Centre in 2016	Incorporate measures for universal accessibility in the following buildings: <ul style="list-style-type: none"> ▪ Chalet at the George Springate Sports Centre ▪ Access to the Public Works building ▪ Parc Alexander ▪ Parc Cyril-W.-McDonald

Action 8 Make urban agriculture and healthy lifestyle habits part of the DNA of neighbourhoods

Measures for implementation		2017 (reference year)	2020 (targets)
20.	Support new seasonal markets and allow schools and other organizations to host markets throughout the year	Currently 1 public market: <ul style="list-style-type: none"> ▪ Pierrefonds-East public market 	<p>Improve and upgrade existing markets by promoting local food products</p> <p>Install a new market in a strategic location where there is a demand for these products (perhaps in the west of the Borough)</p>
21.	Improve the service offer in sports and recreation (swimming pool, sports centres, parks, playgrounds, sports fields, etc.)	<p>Programming for self-directed activities available but limited</p> <p>Municipal sports facilities:</p> <ul style="list-style-type: none"> ▪ 13 soccer fields ▪ 23 mini-soccer fields ▪ 4 football fields ▪ 16 baseball fields ▪ 30 tennis courts ▪ 14 multi-sport fields ▪ 3 athletics tracks ▪ 6 parks with an least 1 bocce court or similar ▪ 0 indoor swimming pool ▪ 6 outdoor swimming pools ▪ 5 outdoor skating rinks ▪ 3 water features 	<p>Construct new facilities and installations for self-directed activities in the parks:</p> <ul style="list-style-type: none"> ▪ 1 new water feature ▪ 1 new skate park <p>Increase the time periods for gym users by 10% for self-directed activities and favour offering these and other self-directed recreational activities free of charge</p>
22.	Make the Borough's population aware of urban agriculture, and encourage residents to identify potential sites as well as ways of implementing and promoting urban agriculture in school yards*	<p>One community garden installed at Borough Hall</p> <p>Total of 26 schools in Pierrefonds-Roxboro and almost all have installed gardens in the schoolyards over the past few years, only 3 do not have a vegetable garden (Kingsdale LBPSB, École St-Charles LBPSB and École Thorndale CSMB)</p>	<p>Continue to encourage the schools who are already involved in urban agriculture and promote the installation of vegetable gardens in the 3 last schools that do not have them yet</p> <p>Maintain and enlarge the community garden at Borough Hall</p> <p>Use available vacant lots for the installation of community gardens</p>

Action 9 Continue the development of sustainable neighbourhoods

Measures for implementation		2017 (reference year)	2020 (targets)
23.	Maintain, consolidate and diversify the neighbourhood stores and businesses that meet the needs of residents in the neighbourhoods	Commercial and services offer located on the main transportation routes (boulevards St-Jean, de Pierrefonds, etc.)	<p>Prepare an economic portrait in order to evaluate the offer and the demand, and define the market more accurately</p> <p>Maximize the use of the spaces in schools, churches and other buildings that are under-used and make the spaces available for self-directed activities (evenings and weekends)</p> <p>Promote the feeling of belonging to their place of learning for students by making the institutional spaces more accessible</p>
24.	Ensure a diversified housing offer that responds to the needs of the entire population (families, seniors, etc.)	<p>Little land available for residential development</p> <p>Access to social housing is difficult and has no community support</p>	Amend the by-laws in order to include mixed types of housing in the same neighbourhood that is able to meet a variety of needs, to discourage use segregation
25.	Implement detailed planning for the central sector of the Borough (multi-purpose sector)	Planning for the central sector underway	Incorporate the criteria into a by-law on specific construction, alteration or occupancy proposal for a building (PPCMOI) to define the detailed planning of the central sector

Action 10 Protect the quality of waterways and promote sustainable recreational activities

Measures for implementation		2017 (reference year)	2020 (targets)
26.	Support the consolidation of Greater Montréal's " <i>Trame verte et bleue</i> " by protecting, enhancing and improving access to riverbanks and bodies of water	No public access for swimming or to the riverbanks (other than the landing stages for boats)	Create new access points while maintaining and confirming the public character of existing access points to Rivière des Prairies: New marina (<i>Port de Plaisance</i>) for non-motorized craft Versailles
27.	Continue and expand the program to clean the public riverbanks*	Several kilometres were cleaned each summer in the program to clean the public riverbanks (2015): <ul style="list-style-type: none"> ▪ Parc des Rapides-du-Cheval-Blanc ▪ Parc de l'Île Roxboro ▪ Parc-nature de l'Anse-à-l'Orme ▪ Parc des Arbres (cleaning along the edges of bodies of water) 	Clean 5 kilometres of riverbanks each year

3 Third priority for intervention: Reduce GHG emissions and dependence on fossil fuels

In brief:

A need for connectivity and the pervasive use of the car

On the territory of the Borough of Pierrefonds-Roxboro, the car plays an important role. The elongated shape of the territory means that the **east-west routes** extend over long, linear distances, but they are few in number. These long, linear axes do not make for easy active transportation. The **very few pedestrian crossings** and the **lack of safe areas** bordering the routes do not encourage walking as a means of transportation.

Safer active transportation

When planning future housing developments, it will be essential to consider an orthogonal street layout and pedestrian crossings at strategic locations to **encourage travel by active transportation methods**.

The Borough wants to extend the network of bike paths, in particular to provide **safe access to elementary and high schools**. Integrating the modes of active transportation starting at a young age is crucial for the development of healthy life habits in children.

Promoting the commuter train and surrounding living environments

A few years ago, the commuter train was used more by people from outside the Borough, who would leave their cars in the AMT's incentive parking lots. Now, most of the parking spaces are occupied by Pierrefonds-Roxboro residents.

In compliance with the *Metropolitan Planning and Development Plan for the Montréal community*, an urban requalification project, inspired by the principles of **Transit-Oriented Development (TOD)**, should be undertaken around the stations and incentive parking lots. In the meantime, the AMT's incentive parking lots for the Roxboro-Pierrefonds and Sunnybrooke stations would benefit from being redeveloped to add some vegetation (planted medians and new trees). These immense parking lots are the source of major **heat islands** on the Borough's territory.

Measures for the implementation of Priority for intervention 3

Reduce GHG emissions and dependence on fossil fuels

Action 11 Increase the modal share of travel on foot, by bicycle and public transit

Measures for implementation		2017 (reference year)	2020 (targets)
28.	Install new bicycles stands in public areas and around municipal buildings, and encourage the installation of enclosed areas for bicycles during events	60 new bicycles stands in 2016	<p>Install 16 new bicycles stands</p> <p>Support an increase in the number of bicycle stands required for new constructions in the urban planning by-laws</p> <p>Increase the feeling of safety on the streets to encourage people to use active transportation (especially on Boulevard Gouin)</p>
29.	During any road repair work, systematically analyze the design of the street to incorporate traffic calming measures, features that will encourage active travel and measures for greening and to protect the existing vegetation*	<p>Traffic calming measures (2015):</p> <ul style="list-style-type: none"> ▪ Road marking plan ▪ Parking plan 	<p>Present traffic calming measures to be added during the work on the regulations and/or on the Special Planning Program (PPU) for the key sectors targeted, particularly the central sector:</p> <ul style="list-style-type: none"> ▪ Include safe pedestrian access separated from road and highway traffic ▪ Include protective surrounds for landscaping and trees, and include an access point for maintenance work during the road work <p>Promote harmony between the urban planning and engineering departments (include the engineering department in the steps favouring integration of new practices)</p>

Measures for implementation		2017 (reference year)	2020 (targets)
30.	Improve the bike path network and multi-use trails destined for active transportation: promote and make safe the bike paths to stations and schools*	<p><i>Plan d'action Vélo</i> (2015)</p> <p><i>Cycliste Averti</i> program (Vélo-Québec) that teaches children in grades 5 and 6 how to ride a bicycle safely and encourages the use of the bicycle as a means of transportation:</p> <ul style="list-style-type: none"> 2017: École Perce-Neige participated in this program (6 classes, about 120 students) 	<p>Follow the orientations of the <i>Plan action Vélo</i></p> <p>Install 1 bike path along Gouin</p>
31.	Encourage the use of public transit and carpooling by Borough employees*	-	<p>Draw up and distribute a carpooling program for employees at the new library:</p> <ul style="list-style-type: none"> The program consists of encouraging employees to carpool by sharing their availability for carpooling (bulletin board, intranet, etc.) The program can also include incentives for those who carpool, e.g., draw for movie tickets <p>Promote the <i>Cycliste Averti</i> (Vélo Québec) program in all schools:</p> <ul style="list-style-type: none"> 2018: 2 schools already registered (Perce-Neige and Thorndale for a total of 10 classes, or 190 students) <p>Make the population aware of public transit by increasing the frequency of the circuits and by rethinking the bus service to make best use of the existing infrastructures</p> <p>Create links between the boroughs via the public transit system</p>

Action 12 Electrify and et optimize Montréal transportation

Measures for implementation		2017 (reference year)	2020 (targets)
32.	Participate in efforts to electrify vehicles and install parking spaces for residents with electric cars (equipped with charging stations or self-service)	<p>0 electric municipal vehicles</p> <p>2 parking spaces for current residents with electric cars</p>	<p>Improve the offer in electric municipal vehicles:</p> <ul style="list-style-type: none"> ▪ 10 new electric municipal vehicles for the Borough <p>Target locations that are heavily used and parking is long duration for the installation of charging stations or spaces for electric cars:</p> <ul style="list-style-type: none"> ▪ 2 charging stations for residents at the new library ▪ 2 charging stations for municipal vehicles in the Public Works yard ▪ Other potential areas: office buildings, shopping centres and stations
33.	Make drivers aware of how to drive ecologically*	20 employees received this training, leading to average gas savings of 10% per trained employee (2015)	<p>Train 105 employees</p> <p>Install automatic shut-down systems on all vehicles in the Rolling Stock Department</p>

Action 13 Increase the number of sustainable buildings in Montréal

Measures for implementation		2017 (reference year)	2020 (targets)
34.	Favour the construction of eco-responsible buildings	-	Implement the measures on energy from the policy for sustainable development in municipal buildings: focus on the eco-responsible parameters without necessarily obtaining certification for the new Pierrefonds library
35.	Make demolition and major renovation permit applicants aware that they must have a plan for recuperating and re-using materials	Since the new sorting centre opened, materials are sorted directly at the sorting centre (2015)	Incorporate new provisions in the By-law on specific construction, alteration or occupancy proposal for an immovable (PPCMOI), in the Demolition By-law and in any other relevant by-law as needed

4 Fourth priority for intervention: Make the transition to a green, circular and responsible economy

In brief:

Pervasiveness of the car

On the territory of the Borough of Pierrefonds-Roxboro, the car plays an important role. The elongated shape of the territory means that the **east-west routes** extend over long, linear distances, but they are **few in number**. These long, linear axes do not make for easy active transportation. The **very few pedestrian crossings** and the **lack of safe areas** bordering the routes do not encourage walking as a means of transportation, and favour the use of cars.

Awareness activities associated with the environment

In collaboration with Éco-quartier Pierrefonds-Roxboro, The Borough is organizing several **awareness activities related to environmental issues** for the territory of the Borough of Pierrefonds-Roxboro. Éco-quartier's four main mandates are: cleanliness, the 4Rs (Reduce at source, Re-use, Recycle and Recover), nature in an urban setting and enhancement. As well as offering a whole range of useful information on subjects related to its mandate, Éco-quartier collects the following items at its premises: batteries, corks, print cartridges and cell phones.

Several awareness services are held in the Borough, in particular:

Green Line: The Green Line is a free consultation service offered by the Borough to answer questions from residents about the environment, especially on current problems related to ornamental horticulture and arboriculture, and on ecological practices such as composting, grass recycling, capturing rainwater and other activities of an environmental nature. (<http://ville.montreal.qc.ca>)

Blue Patrol: Initiated by the Ville de Montréal's Water Services Department, and the *Regroupement des éco-quartiers*, the Blue Patrol's mission is to promote the proper management of potable water and capturing rainwater to residents and private business owners. The Blue Patrol carries out its awareness activities in May of each year. (www.eqpr.ca/)

Green Patrol: The Green Patrol is an Éco-quartier resource with a mandate to advise residents on, and make them aware of, ways in which the environment can be better protected. Unlike municipal inspectors, the patrollers do not hand out fines. They merely offer advice. The Green Patrol carries out its awareness activities during the summer. (www.eqpr.ca/)

Measures for the implementation of Priority for intervention 4

Make the transition to a green, circular and responsible economy

Action 14 "Green" the economy

Measures for implementation		2017 (reference year)	2020 (targets)
36.	Adapt the by-laws to favour harmonious integration of equipment for the production of green energy into an urban environment	-	Incorporate provisions into the by-laws that favour green energy production (windmills, solar panels and others)

Action 15 Use responsible procurement practices

Measures for implementation		2017 (reference year)	2020 (targets)
37.	Train the employees concerned to use the principles of responsible procurement and how to use ecological products	All buildings have been maintained using ecological products since November 2014 (2015)	Train 10 employees on the principles of responsible procurement, maintenance and the use of ecological products Set up an ecological household maintenance program for the new library
38.	Have the by-law on potable water use respected	-	Target 100% of the neighbourhoods to respect the watering prohibition

Action 16 Organize eco-responsible events

Measures for implementation		2017 (reference year)	2020 (targets)
39.	Aim for eco-responsible certification for certain municipal events (standard BNQ 9700-253/2010)	0 eco-responsible events 0 employees trained in responsible event management Presence of single-use water bottles at events	Hold 3 eco-responsible events Train 3 employees in responsible event management Eliminate single-use water bottles at events

Measures for implementation		2017 (reference year)	2020 (targets)
40.	Make promoters holding events on public property aware of responsible event management*	The mobile Water Patrol was on site (Blue Patrol)	Install separate bins for collecting food at the events, especially at events that focus on food. In particular, include: <ul style="list-style-type: none"> ▪ The use of compostable plates ▪ Identification of brown bins. As needed, place resource people close to the bins to provide information ▪ Possibility of hiring a company to manage waste at events

Action 17 Mobilize organizations, residents and employees

Measures for implementation		2017 (reference year)	2020 (targets)
41.	Present and update the <i>Local Sustainable Development Plan</i> and inform employees about, and monitor the actions for, sustainable development	In 2016, a follow-up meeting was held following the review of the <i>Strategic Plan for Sustainable Development for 2012-2015</i>	Hold meetings with the Management Committee 4 times a year to bring progress on the actions undertaken in the LSDP to a close Add a section devoted exclusively to sustainable development in the newsletter <i>Life in Pierrefonds-Roxboro</i>
42.	Continue participation in the following campaigns: Centraide and Earth Hour*	Centraide in 2015 Earth Hour 2015	Participate in the following campaigns: <ul style="list-style-type: none"> ▪ Centraide ▪ Earth Hour

Action 18 Promote best practices and increase sustainable development initiatives

Measures for implementation		2017 (reference year)	2020 (targets)
43.	Participate in the meetings for partners of Sustainable Montréal 2016-2020	-	Participate in the meetings and be involved in the steps for the <i>Sustainable Montréal Plan 2016-2020</i>

Action 19 Expand here and internationally

Measures for implementation		2017 (reference year)	2020 (targets)
44.	Encourage employees to take part in international solidarity missions	-	Analyze requests from employees and look at the possibility of participation internationally
45.	Shine at the local level through participation in <i>Fleurons du Québec*</i>	The Borough kept its 4 <i>Fleurons</i> in the 2013-2015 edition	Keep the 4 <i>Fleurons</i>

Presentation of the Committee for Sustainable Development and its partners

MANAGEMENT COMMITTEE FOR THE LOCAL SUSTAINABLE DEVELOPMENT PLAN



The Management Committee comprises municipal managers and employees from all divisions in the Borough. The Committee will be responsible for preparing the annual review of the Strategic Plan for Sustainable Development and for ensuring that the actions are monitored through to 2020. The Committee will be responsible for organizing awareness activities, both for municipal employees and for Borough residents.

PARTNERS' COMMITTEE



Direction de l'aménagement urbain et des services aux entreprises (DAUSE)

The DAUSE (department of urban development and services to businesses) for the Borough of Pierrefonds-Roxboro deals in particular with the Borough's by-laws and planning in a broad sense, while making sure that the provisions set out at the central level are respected. This partnership also includes the Planning Advisory Committee (CCU) and the *Commissaire au développement économique de l'arrondissement*. (ville.montreal.qc.ca/)



Action Jeunesse de l'Ouest-de-l'Île (AJOI)

The mission of the AJOI is to establish and maintain street/neighbourhood worker intervention services (in proximity) for youths aged 12 to 25 years old at risk and/or in difficulty on the West Island. With a management style based on developing potential in participants, management runs its activities using the contingency approach, which is based on the values of humanistic psychology. (www.ajoi.info/)



Éco-quartier de Pierrefonds-Roxboro

The aim of the Ville de Montréal's Éco-quartier program is to make residents aware of, and involve them in, improving their quality of life. Éco-quartiers are awareness centres that procure environmental services for residents in relation to four mandates: residual material management, cleanliness, enhancement and nature in an urban setting. Éco-quartier also makes residents aware of responsible consumption, and it offers various services in this regard: sale of fair trade products, ecological cleaning products, reusable bags, etc. (www.eqpr.ca/)



Table de quartier du Nord-Ouest de l'Île de Montréal (TQNOÎM)

The TQNOÎM is a non-profit organization, the members of which are groups and individuals active in social development, as well as institutions and organizations wishing to improve the quality of life for residents of our Borough. The aim of local round tables is to improve the quality of life and the living conditions of the population. They gather together stakeholders from the community, coordinate the implementation of various projects, and support organizations in their intervention strategies. They work in the fields of healthcare, education, urban development, the environment, security and safety, and social and community life. (www.tqnoim.org/)

Borough of Pierrefonds-Roxboro

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Department of Urban Development and services to businesses

Department of Culture, Sports, Recreation and Social Development

Department of Public Works

Department of Administrative Services

Partners

Action Jeunesse de l'Ouest-de-l'Île

Planning Advisory Committee (CCU) for the Borough of Pierrefonds-Roxboro

Éco-Quartier de Pierrefonds-Roxboro

Table de quartier du Nord-Ouest de l'Île de Montréal

The Borough of Pierrefonds-Roxboro offers its sincere thanks to its partners and to the residents and municipal employees who participated in drawing up this plan.



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