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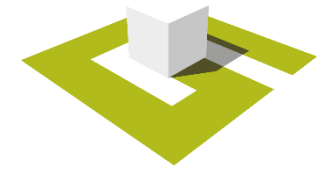


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# FROM HIGHWAY TO URBAN PLAZA A CASE STUDY FOR SUSTAINABLE DESIGN

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Mélanie Glorieux, Landscape Architect, M. Ing.  
Partner

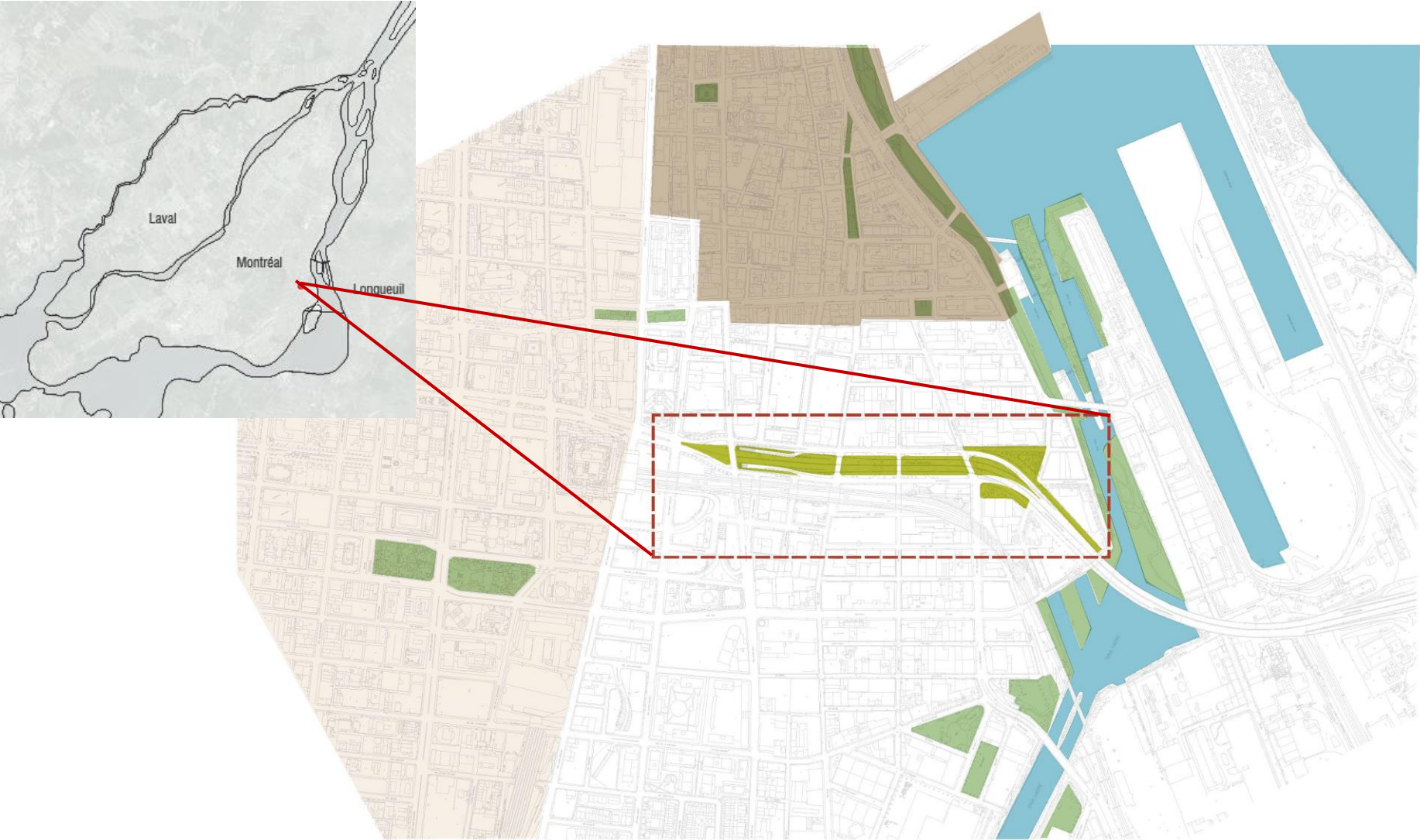


March 20th, 2019

[www.rousseau-lefebvre.com](http://www.rousseau-lefebvre.com)



# Entrance to the downtown core





# A transformation on a large scale





# A transformation on a large scale





# Les lieux publics Bonaventure

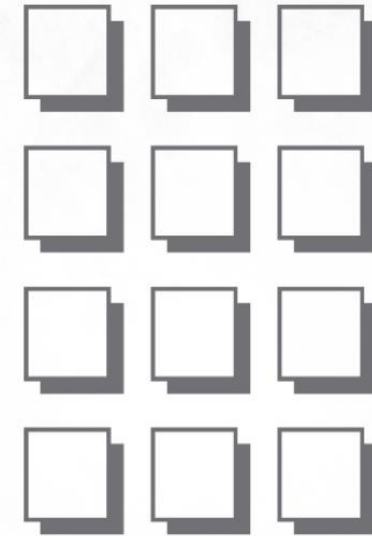
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- > Over 10 years in the making
- > Project type: Streetscape / Transportation Corridor
- > Size 383 000 sq. ft
- > Site context: Urban
- > Previous function: Highway
- > Terrestrial biome: Temperate Broadleaf and Mixed Forests
- > Budget: \$21 000 000





THE Sustainable  
**SITES**  
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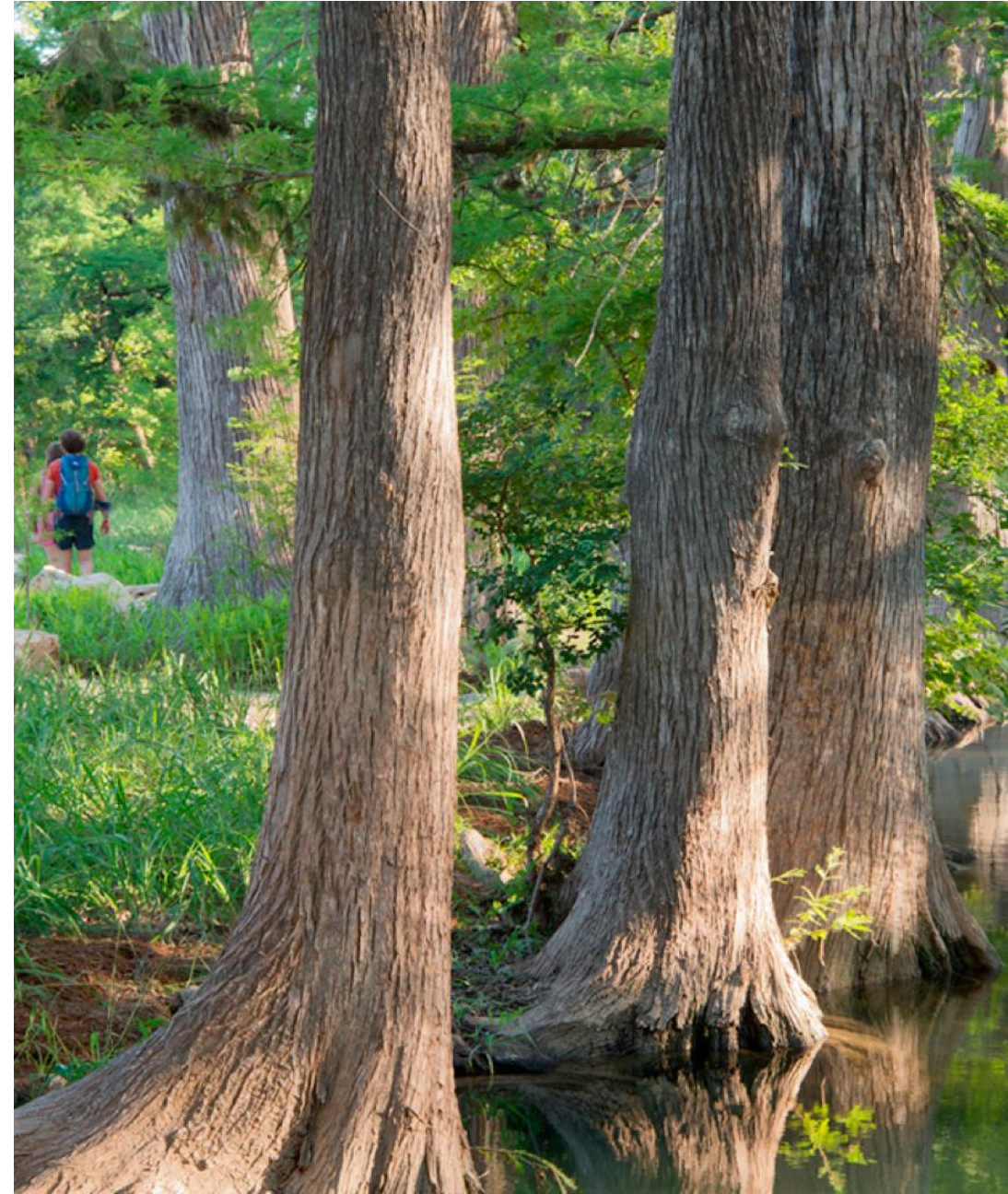
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# SITES

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- > Every project holds the potential to conserve, restore and create benefits provided by healthy ecosystems.



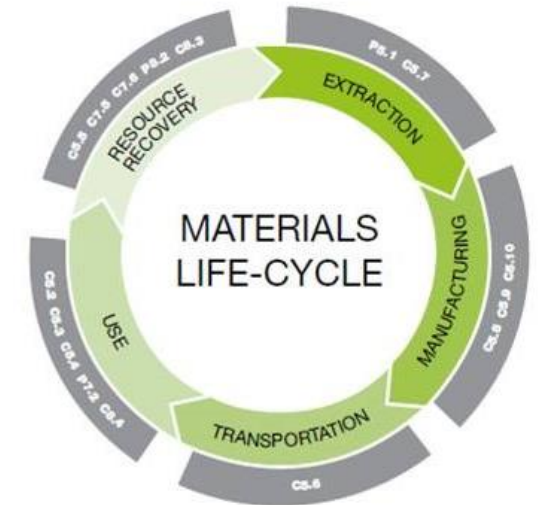
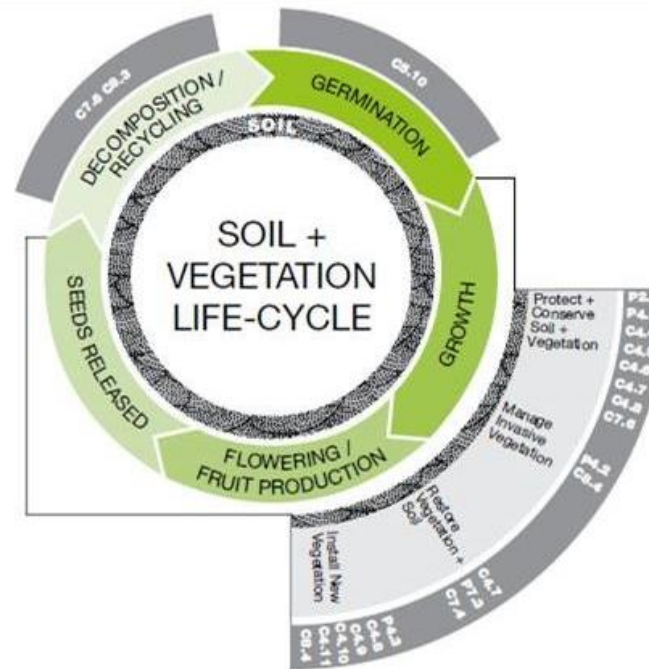
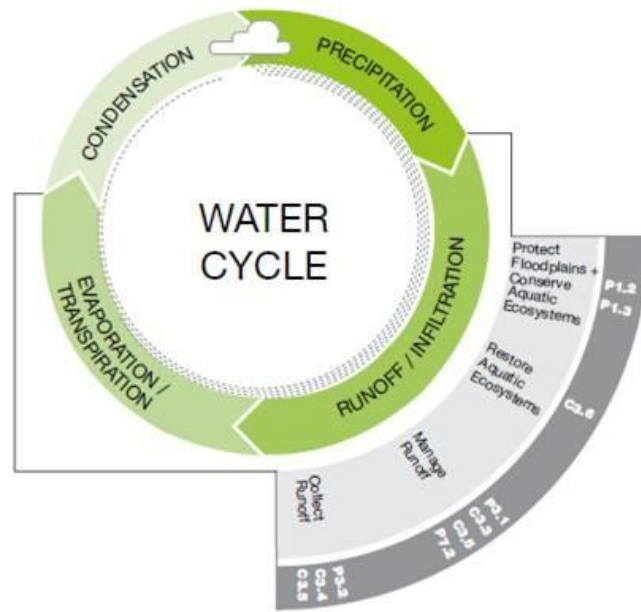


# The SITES approach





# The SITES approach





# Planning at every step of the project





# Les lieux publics Bonaventure



International-Civil-Aviation Plaza

Experiential walkway

Active area

Main gathering space

Contemplative area



# Stormwater amenities



85%



# Stormwater amenities

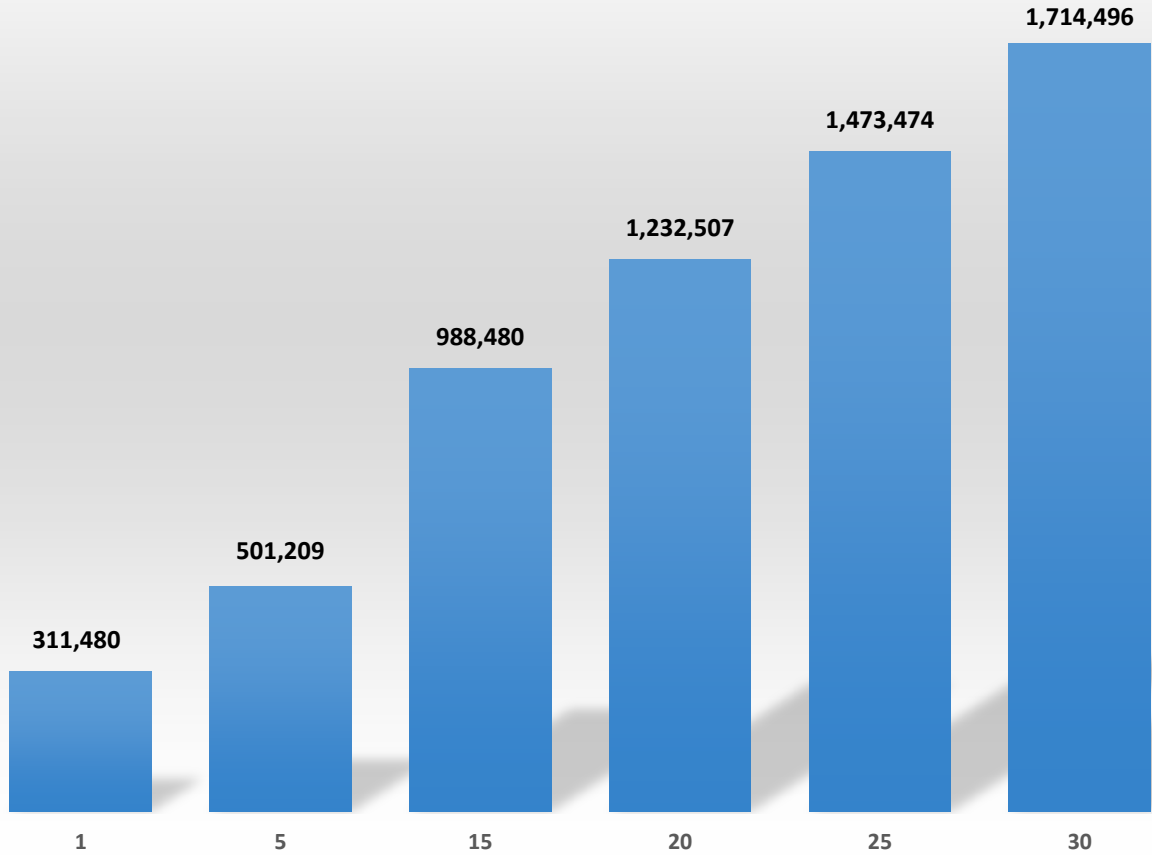




# Plants and biomasse

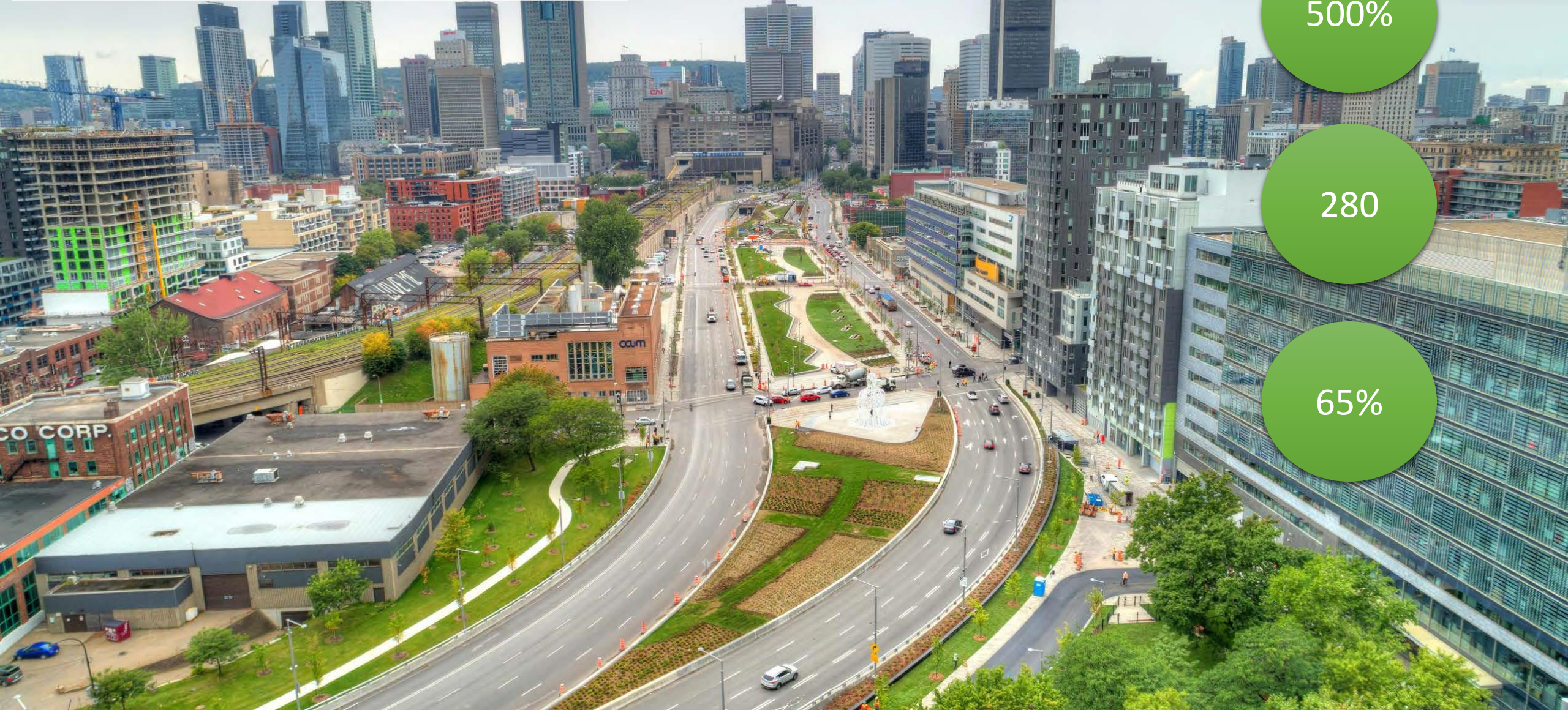


Litres of rain intercepted by the trees over the next 30 years





# Plants and biomasse



500%

280

65%

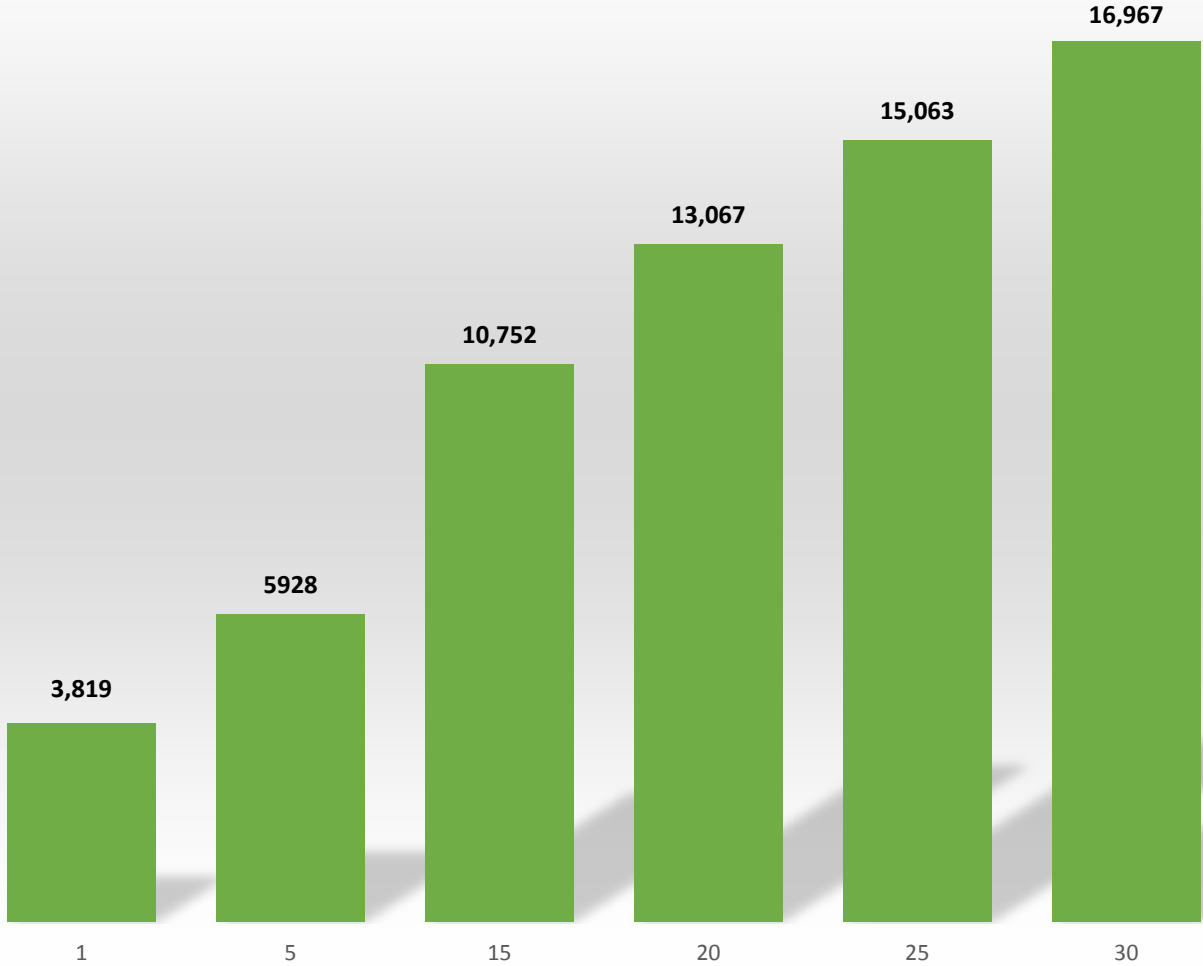




# Plants and biomasse



Kilogrammes de CO<sub>2</sub> séquestrés  
over the next 30 years





## Use of potable water



- > No irrigation system required
- > Water recuperation strategy for planted mound





# Construction – Divert materials from disposals





# Construction – sediment control





# Construction – design for disassembly





# Historical references





# Equitable site use and mental restoration





# Physical activity





# Integration of public art





# A transformation on a large scale





# A transformation on a large scale





# A transformation on a large scale





# A new entrance to the downtown core









# First SITES certified project in Canada



THE Sustainable  
**SITES**  
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Thank you!



**Mélanie Glorieux**, architecte paysagiste, M. Ing., SITES AP  
Directrice de projets  
e: [m.glorieux@rousseau-lefebvre.com](mailto:m.glorieux@rousseau-lefebvre.com)  
t: 450.663.2145, p.229 f: 450.663.2146





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