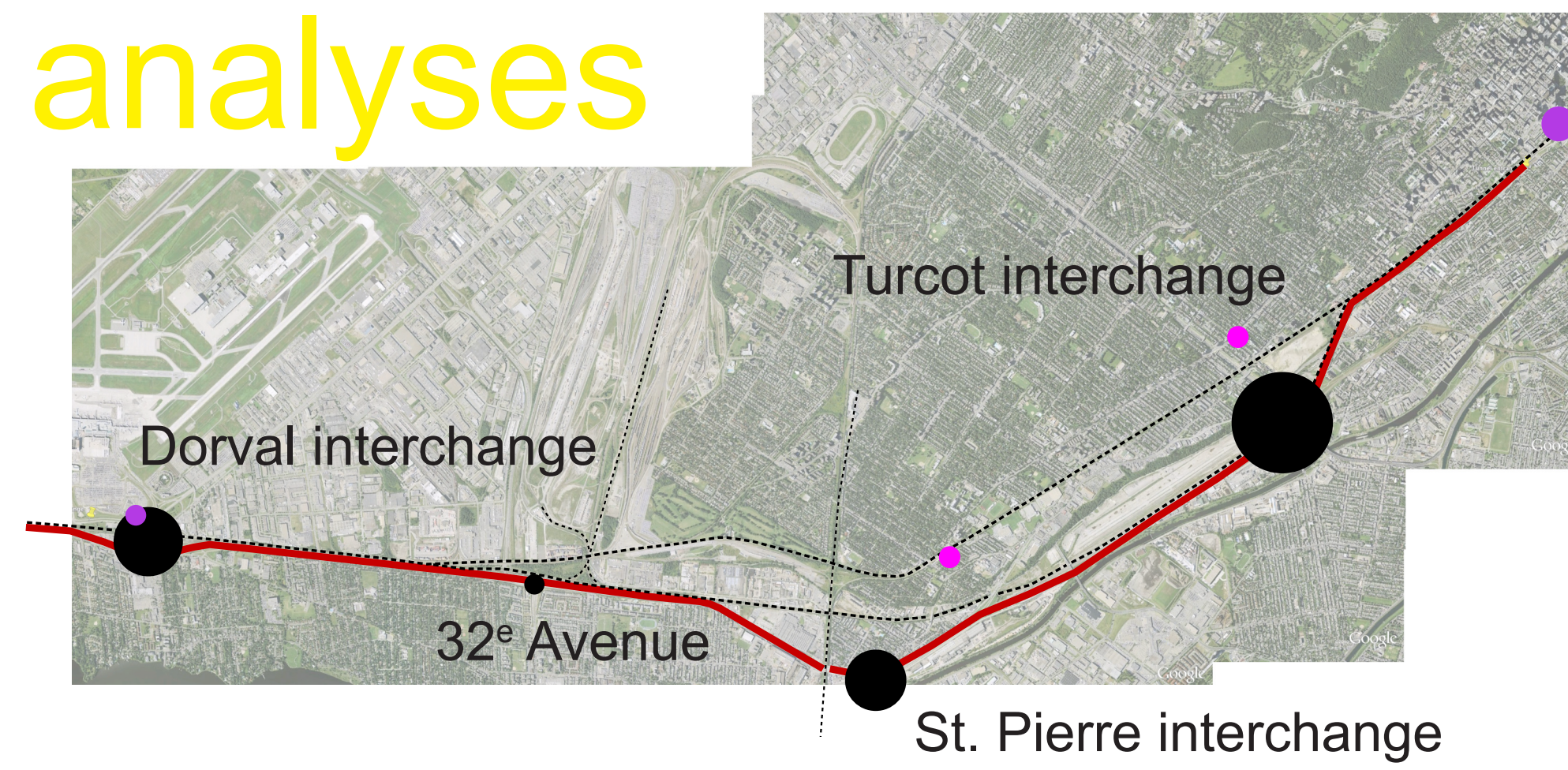


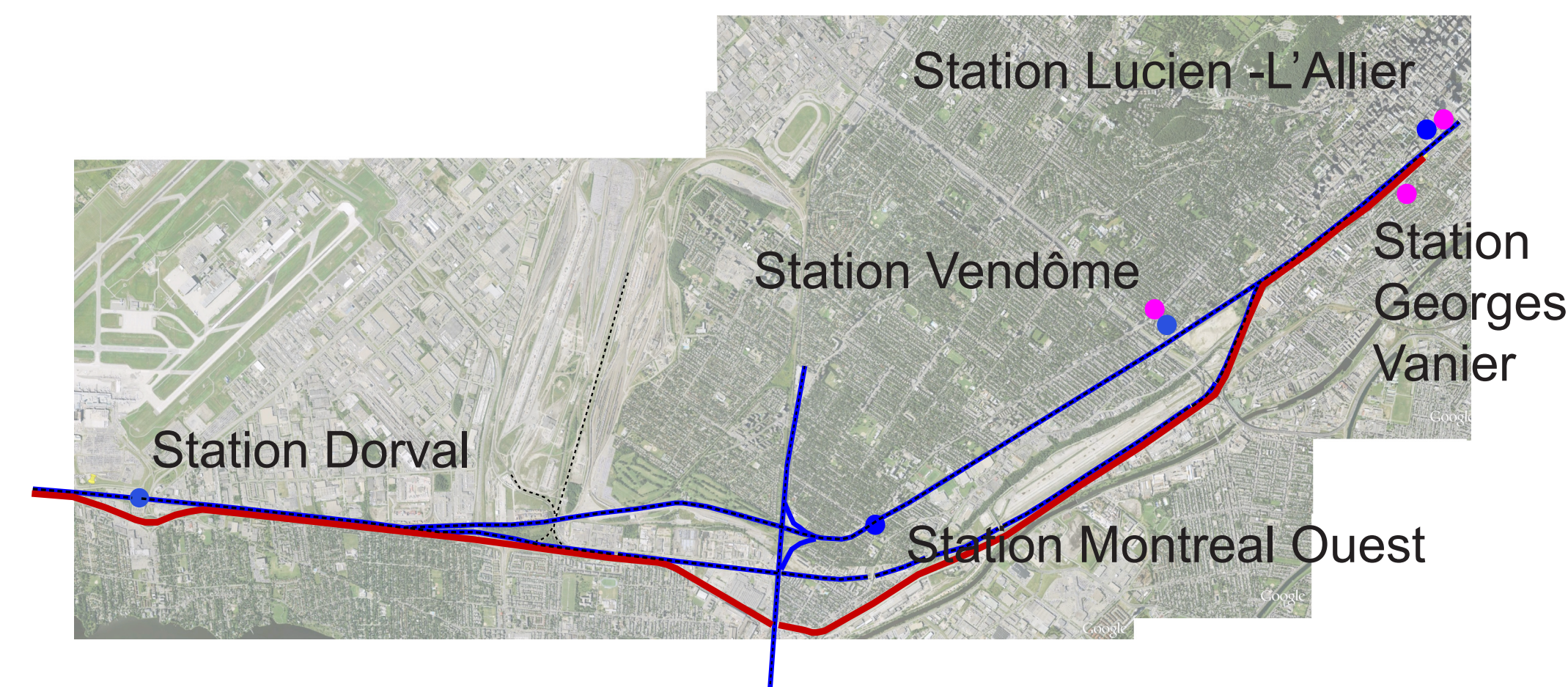
CORRIDOR D'OR

analyses



main car flow

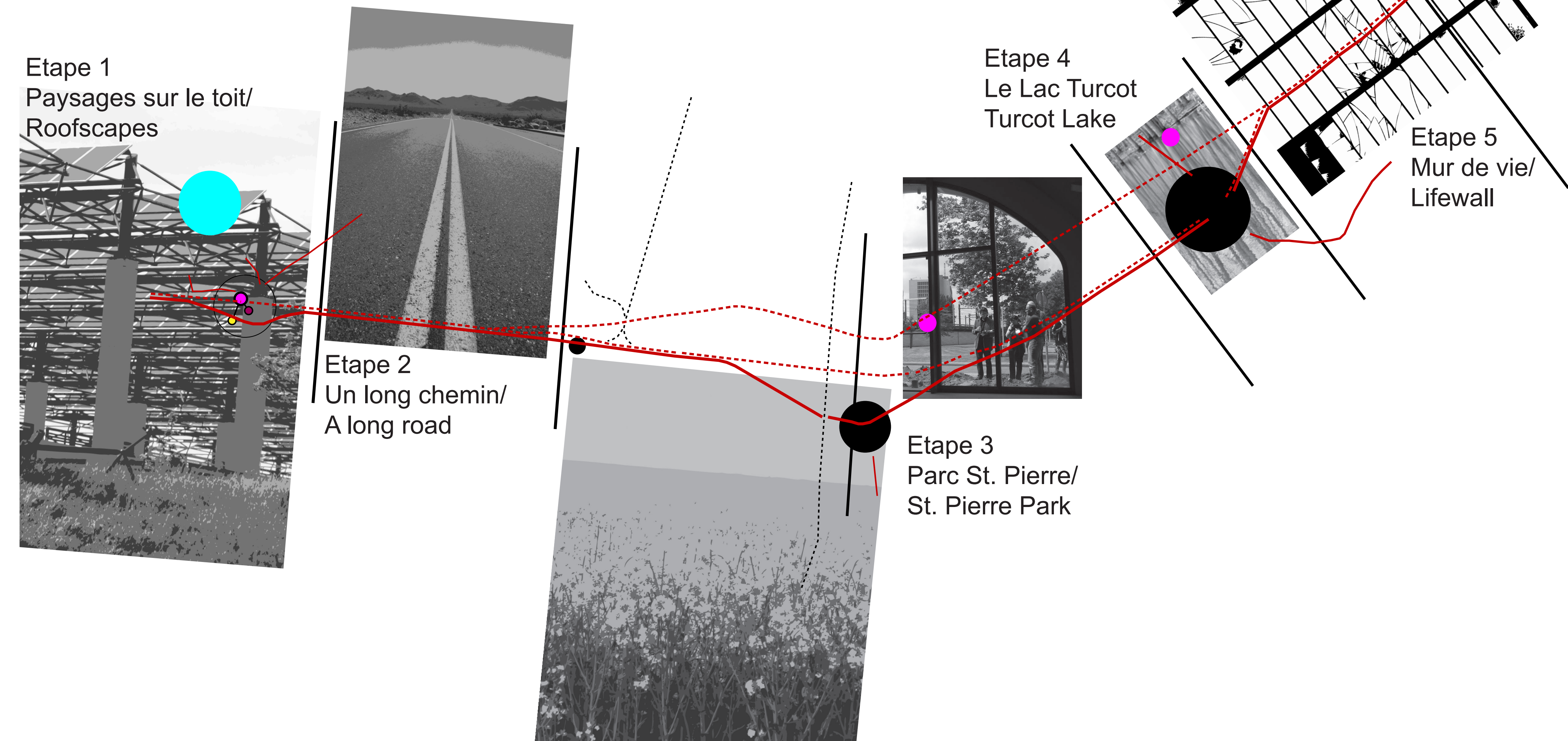
The local neighbourhood traffic mixes with the regional traffic.



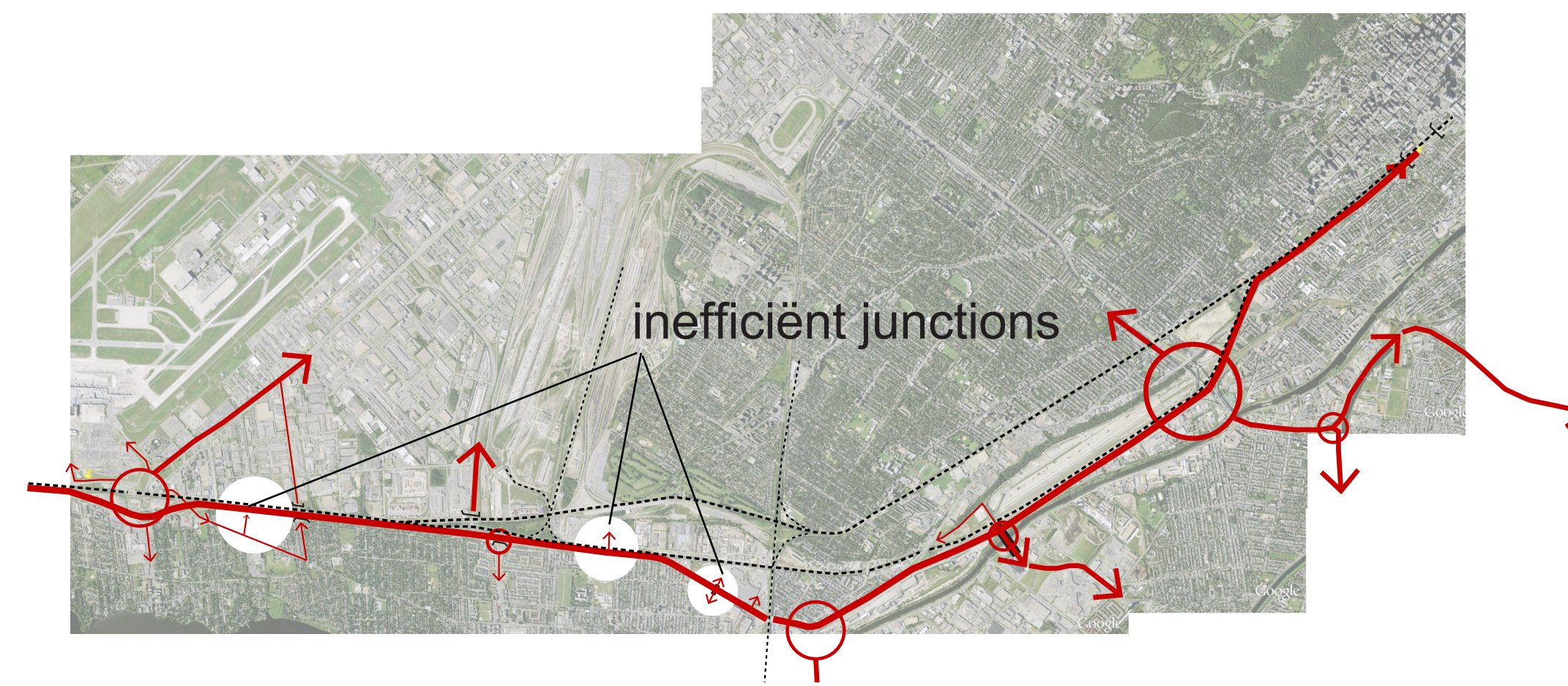
main rail network

The airport needs direct access to the trainnetwork. We make more multimodal efficient interchanges.

scenario concept



principles plan



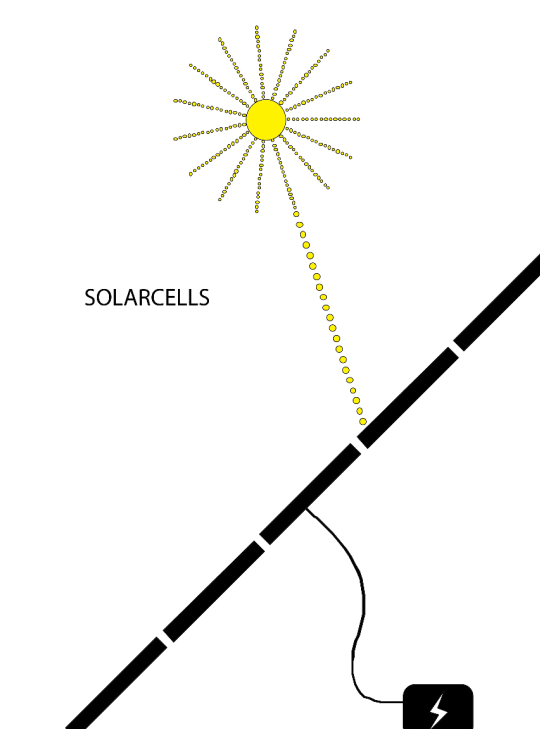
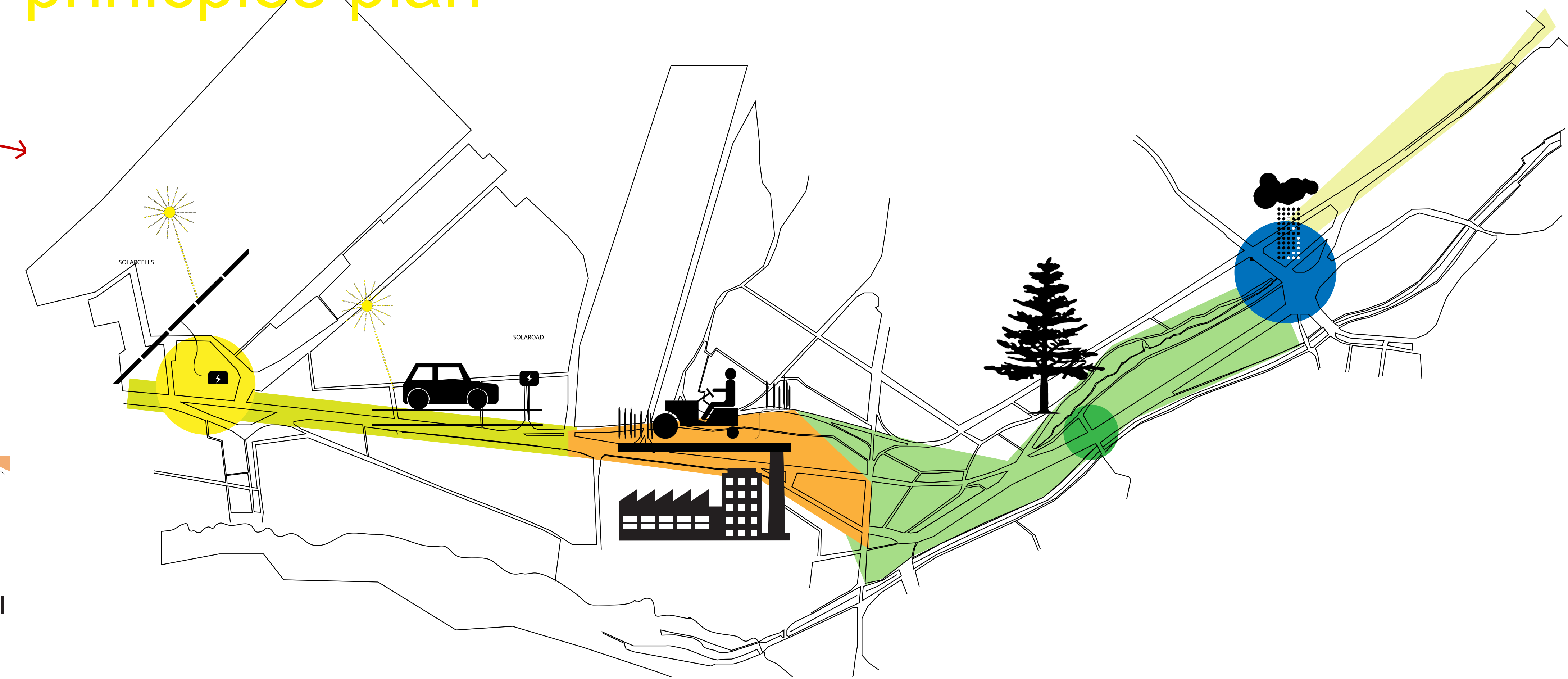
bottlenecks

Less local junctions, more efficient flow.



spatial framework

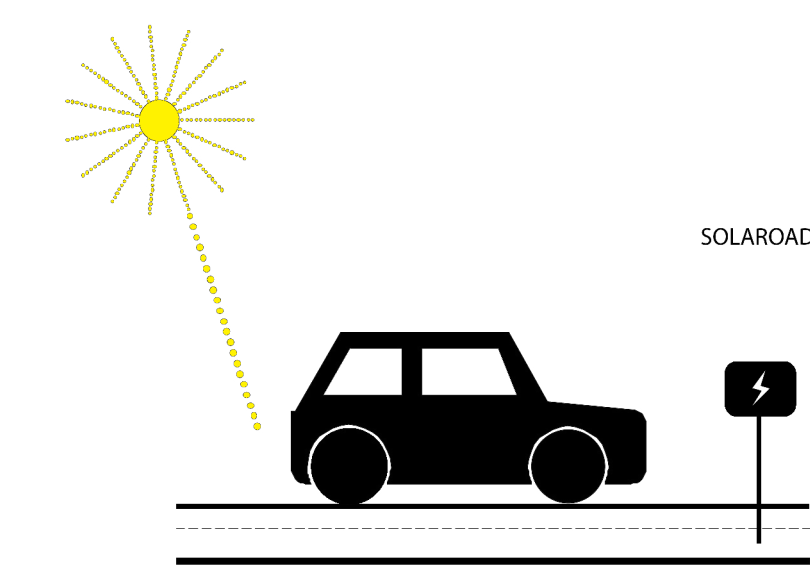
Redeveloping orphaned territories. Industrial and business area's will be a part of a larger energy generating system.



Solar cells:
10 m2 of solar panels can cover the electricity needs of one household.

The total area with solar cells is 180,000 m2. This will generate 328,500,000 kWh.

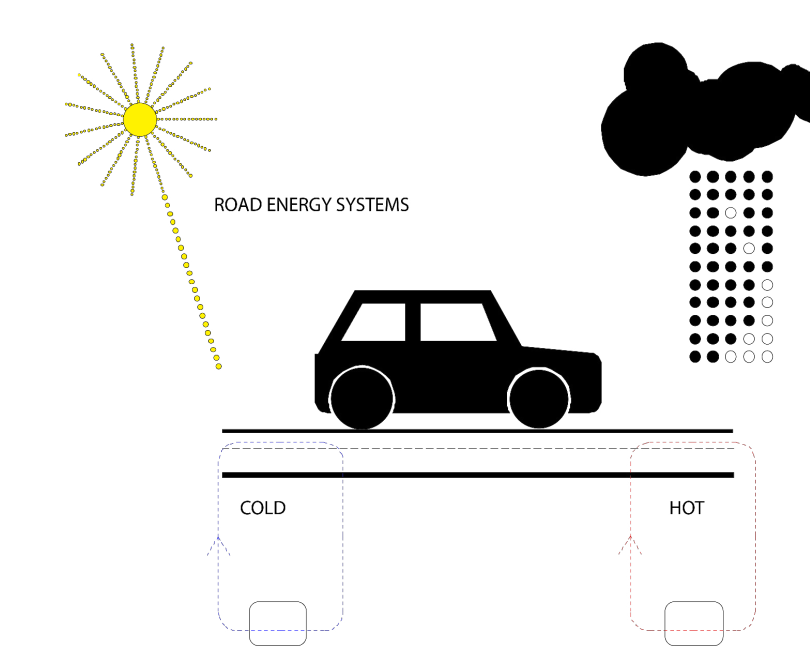
The energy produced by the cells needs to be saved when it's abundant and released later when is needed.



Solaroad:
Using asphalt to generate energy
This type of road (a combination of layers of glass, solar cells, optical layers and concrete) is able to generate 50kWh a year per m2.

An average family of 4 in Canada consumes 50kWh a day.

The total area of the road in the corridor d'or is at least 400,000m2. That will induce 20,000,000 kWh per year.

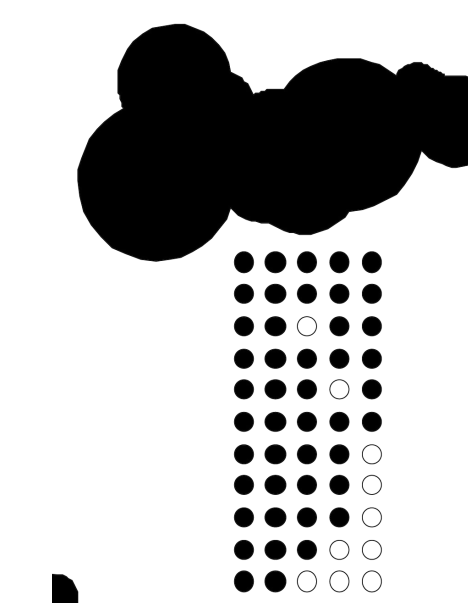


Road energy systems:
The road will be used to store and re-use warmth. With a heat pump the roads (and/ or surrounding buildings) can be cooled during summer and heated during the winter.

Especially for the roads this will enhance safety and reduce the amount of work/energy that will be needed to keep the roads snow free.

Biofuel:
Biofuel plants and production units will produce energy and release the pressure on the food production fields.

The plants are next to the road, on top of buildings and in the park.



Water:
Local rainwater can be stored in the Turcot lake. This will have a positive effect on the local climate in the area.

The water also can be used for industrial purpose. The lake has the capacity to store 51,000 m³.



Nature:
Additionally, adding a large amount of different types of trees will also greatly improve the quality of the air and has a biomass potential.

Broad leaved trees can be used to clean the air from gaseous pollution like NOx and O3.

Also the rainwater will be partly absorbed by the trees and filtered by the soil beneath the trees. This will lead to a better quality of water in the ground and will reduce the need for drainage systems.

All these, relative simple, solutions will greatly enhance the quality of life around the corridor.