

Progress Report:
Modeling the MTQ's plan for the Turcot Interchange

Researchers: Antonio Loro and Guilherme Iablonski
Supervisor : Jason Prince
Date : June 24th, 2012



CURA Research Highlights 2012

Overview:

In preparation for the launch of an interactive website (yousaycity.com) designed to give the public easy access to 3D visualizations of proposed urban projects, as well as a forum for discussion on these projects, CURA is developing a 3D virtual model of the MTQ's plan for the Turcot interchange. Visitors to the website will be able to compare three different virtual models: a model of the existing interchange, a model of the plan developed by the *Ministère de Transports du Québec* (MTQ) for the interchange, and a model of an alternative approach entitled Turcot 375 that was developed by Pierre Gauthier and Pierre Brisset.

The CURA researchers in this project are using publicly available information on the MTQ plan to develop the 3D model. The model is being developed in Google SketchUp.

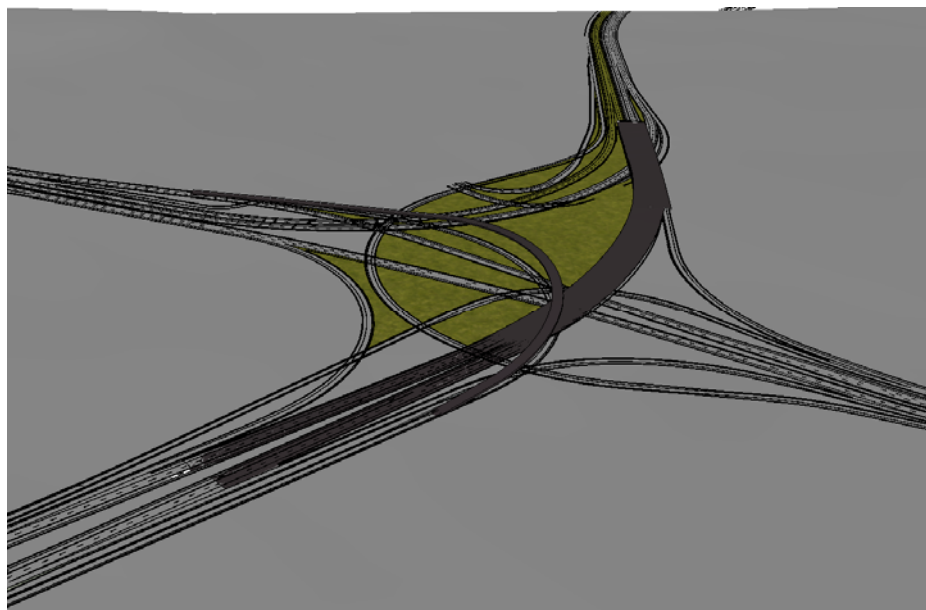
Key results to date:

To date, approximately 100 hours of work have been dedicated to this project:

- an initial phase of research on the MTQ plan, which consisted of gathering available data on the MTQ plan (in the form of plans, maps, and renderings) **(10 hours)**
- a second phase of determining horizontal and vertical alignments of ramps and roadways from the source images (primarily consisting of 'cleaning up', i.e., extracting relevant data from an MTQ plan) and in consultation with Pierre Brisset in order to create a base map **(50 hours)**
- a third phase of building the ramps and roadways in SketchUp **(40 hours)**

We estimate that the macro-structure (i.e., the basic forms of the ramps and roadways) of the model will be complete in mid-July, at which point approximately 125 to 130 hours will have been dedicated to the project. Smaller details (such as rough cross-sections and any other desired details) will then be added. The level of detail in the model will depend on the amount of time available to dedicate to the project. The model can then be uploaded to YouSayCity so that citizens can better understand the project and its impact on communities.

Below is a screenshot of the SketchUp model in its early stages:



Preliminary output of Turcot Interchange in Sketch Up