A new public transit network for the east end of Montreal

Technical presentation

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East and northeast sector of Montréal

Well-known challenges in the east and northeast

A second second second

Very few major investments made in public transit in recent decades

Residential neighbourhoods **poorly connected** to public transit networks Low modal share of public transit for travel between attraction centers in the East

Bus networks impacted by **traffic**

The current situation is

a major hindrance to development in the east

Analysis of the east and northeast sector

Exhaustive mobility analysis

- Regional diagnosis in terms of mobility services
- Corridor options
- User travel modes

Multi-criteria assessment of identified scenarios

- Service for the population and travel hubs
- Consideration of the city's development plans and policies
- Optimization of connections with other transit networks

Analysis of the stakes

- Technical feasibility
- Social and environmental acceptability
- Economic viability of the project

Strategic areas to service



Analysis of the east and northeast sector of Montréal The travel corridors studied



Technology to be identified



Technology to be identified



Advantages of the elevated structure



The proposed solution: REM de l'Est



Boul. René-Levesque

Notre-Dame Street

Marie-Victorin Branch

Sherbrooke Street

- Avoids numerous buried infrastructures (catch basins, metro, public utilities, foundations)
- Offers new views of downtown and the river

- Will harmonize with future redevelopment as an urban boulevard
- Maximizes the safety of pedestrians, cyclists and cars
- Offers **new views** from the river bank

- Integrates into a dense
 residential area composed of
 low-height buildings
- ✓ Prevents expropriations

- Minimizes impact on existing development
- Maximizes safety for pedestrians, cyclists and cars
- No impact on commercial or residential driveways



The proposed solution

A network integrated with other modes



Four structuring effects for Greater Montréal



Mobility





Mobility

Generates significant time saved

	By car	By current public transit	With REM de l'Est	% of time saved compared to car
Pointe-aux-Trembles ↔ Downtown	40 to 80 minutes on average	45 to 60 minutes on average	25 minutes	35 to 70%
Cégep Marie-Victorin ↔ Downtown	40 to 75 minutes on average	55 to 70 minutes on average	30 minutes	25 to 60%
Maisonneuve Park ↔ Downtown	15 to 35 minutes on average	35 to 55 minutes on average	10 minutes	30 to 70%

Monday 12:00

From the Cégep Marie-Victorin to the Place des Festivals



Time saved

even outside

peak hours

Mobility

Improves the fluidity of travel

133,000 users/day (by 2044)

380 million

passenger-km per year (by 2044)

165 million vehicle-km saved (2044)

Better quality of life

- Reduces traffic congestion associated with "solo cars"
- Offers frequent service, even outside rush hours
- Allows communities to benefit from the advantages of urban environments

Simplified travel

- Doubles the coverage of the metro network in Montréal's east end (x 2.5)
- ✓ Services destinations other than downtown
- Relieves congestion in the Montréal metro

Integration





An architectural signature to distinguish Montréal

Elevated structures and stations designed with a **modern and emblematic aesthetic** for downtown Montréal, in the manner of major metropolises around the world Upstream development of **guidelines** through a concerted approach led by experts for the architectural, urban and landscape integration of the network A design that **adapts to the defining elements** of each segment

Integration

REM de l'Est advisory committee on urban integration

Proposed mandate

- Make recommendations to the design team in order to ensure a harmonious integration of the REM de l'Est's infrastructures into their environment
- Comment on the guidelines for the architectural signature and urban integration of the REM de l'Est

Examples of subjects dealt with by the committee The stations Works of art The materials Indoor and outdoor furniture Landscaping Integration of works of art The ambiance (visual, sound, tactile) Distinctive elements according to the neighborhoods

Model underground station – Saint-Léonard

Contributes to revitalization of Notre-Dame Street

Examples of international station architecture





Examples of international urban integration





an, Pays-Bas



Environment





Environment

Contributes to sustainable development

35 000 tons

of GHGs prevented per year

165 million

vehicle-km prevented

More service

- Favours sustainable mobility
- Encourages modal transfer from "solo car" to **public transit**
- Reduces noise pollution associated with traffic congestion
- Fits within the government's strategy to electrify transport

More environmentally friendly

- Acts as an important vector for rehabilitation of contaminated brownfields in Montréal's east end
- Contributes to improving the overall environmental performance in Montréal's east end
- Includes a GHG compensation strategy during the construction phase

Economy





Economy

Structures development in the east

DURING CONSTRUCTION

+ 6.3 B \$ contributed to Quebec's GDP

+ 60,000 jobs and indirect jobs

+ Largest investment ever made in public transit infrastructure in Quebec

 Services industrial parks, including the Port of Montréal and the Olympic Stadium

- Serves as a lever for the development of the Pointe-de-l'Île and Assomption Sud – Longue-Pointe industrial sectors
- Decreases economic losses associated with traffic congestion (estimated at \$4.2B/year in the greater Montréal area)

- Contributes to revitalizing commercial arteries
- Improves recruiting and retention of the workforce
- Serves 27 million square feet of vacant land, conducive to redevelopment

The next steps





The next steps



In the next decade





In the next decade

Integrated networks to support Montréal's growth

For users: breathtaking views of the city and its districts, an enhanced mobility experience

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