



Technical Advisory Services for Metrolinx Regional Express Rail (RER)

Project Overview

The Metrolinx Regional Express Rail (RER) Program is a 10-year initiative to provide faster and more frequent service to the Greater Toronto and Hamilton Area (GTHA). As Canada's largest commuter rail project, this transit expansion involves more than 200 separate projects across 40 municipalities with the construction of new track, GO stations and maintenance facilities; upgrade of existing infrastructure; and electrification of core segments. Upon the completion, GO Transit will operate a two-way, all day regional transportation service, increasing the number of weekly trips approximately 300% by 2025.

WSP, as a member of the 4Transit Joint Venture is providing Technical Advisory Services to Metrolinx for Packages 1 and 2 under the RER Program.

What innovations and future trend(s) did we consider?

- Growing demand for mixed-use developments as links for commercial, leisure and residential spaces
- Rapid urban population growth within the GTHA
- Energy and resource efficiency

How did we consider these trends?

GO Stations are being designed to integrate various facilities including retail areas, parks and plazas as well as direct access to adjacent residential and commercial developments. Station and site plan designs

which facilitate seamless transition to and from various modes of transportation (cycling, walking, bus, rail, uber).

The GTHA is one of the fastest growing regions in North America, expected to add approximately 110,000 new residents every year between 2011 and 2041. Existing infrastructure is leveraged to support the expansion of the system and stations are located strategically to accommodate population growth and future demands.

Station facilities are designed to meet and exceed LEED requirements as well as to accommodate Electrification of the GO Train system. Our team is developing new Sustainability standards, rating systems and KPIs to help ensure future designs address these new requirements

How was our final approach better?

Due to the vastness and complexity of the RER Program, WSP is involved in multiple projects at various stages including feasibility studies, preliminary design, procurement and engineering during construction.

On all assignments, our teams work closely with Metrolinx and stakeholders, including Provincial and Municipal Authorities to better understand project challenges and develop a customized approach to meet each project's requirements. Specifically, through interactive workshop meetings, our team members utilizes audio-visual materials to help participants communicate and understand each other's perspective.

Our approach focuses on collaboration amongst our planners, designers and engineers to go beyond standard project services to ensure that the new infrastructure will cope with future demand patterns.

The outcome

WSP will continue its work to deliver an integrated, more sustainable and efficient transit system capable of meeting the evolving demands of the GTHA population.

For more information:

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