

Transit Security - Assessments, Operational Reviews, ITS Based Design and Deployment

LEA Consulting Ltd. In partnership with Globe Risk provides Transit Agencies with comprehensive expertise in the area of Transit Security to meet the needs of today's heightened security climate.

LEA Consulting Ltd. provides a full range of services for planning, design, procurement, contract management, and systems integration of simple and complex transportation systems to government sector and transportation industry clients around the world.

Through its expanding endeavors in the unique field of infrastructure security, LEA has developed an alliance with Globe Risk Holdings with a view to providing a comprehensive package of Transit Security services from Threat Risk and Vulnerability Assessment (TRVA) studies through to deployment of security systems and operations training. Our team's personnel have at least a "SECRET" level security clearance and LEA's offices have Government of Canada site facility clearance.

Aside from LEA staff with transit, transportation, structural, and systems and technology expertise, our project team is also comprised of Alan Bell, President of Globe Risk Holdings Inc. - an expert in international counter-terrorism. His distinguished career includes more than 22 years of Special Forces military experience related to global terrorist and security issues. He and his team of specialists developed emergency and crisis management plans, conduct threat, risk and vulnerability assessments and corporate due diligence audits, and provide security consulting to a broad base of international clients, including major crown corporations and governments.



In association with Globe Risk, LEA has developed a specialized team that is among the most unique in Canada for transportation infrastructure TRVA's. By way of example, the fundamental framework of our studies for bridge security is presently being incorporated into best practices for security assessments of Federal bridge assets in Canada.

The LEA team has completed Transit TRVA's for cities such as Edmonton and Mexico City - one of the largest transit systems in the world - and were instrumental in developing the Security framework for York Region Transit's VIVA systems, including establishing their Fare Enforcement and Special Constable programs.

LEA provides expertise in the following Transit Security areas:

- ◆ **Threat Risk and Vulnerability Assessments -** TRVA studies are integrated work efforts involving a multi-disciplinary team of military and police security specialists, structural engineers, transportation engineers, and Intelligent Transportation Systems (ITS) engineers, expert in the design of counter measures such as specialized covert and overt surveillance and detection systems.
- ◆ **Transit Security Systems Design -** LEA's team of Systems Engineers and Designers have deep expertise in the design and installation of



infrastructure security systems including terminal and on-board CCTV, Access Control, Digital Video, and Network Design based on TRVA recommendations.

- ◆ **Security Operations and Framework Definition –** LEA and Globe Risk provide expertise on enforcement, training, and operations procedures necessary to implement TRVA strategies. LEA has developed operations framework.

PROJECT SUMMARY

Clients:

**Edmonton Transit Service,
York Region Transit,
Transport Canada,
Public Works and Government
Services Canada,
Mexico City Transit.**

**Transportation Infrastructure
Authorities including:**

- **Federal Bridge Corporation Limited;**
- **Michigan DOT-USA;**
- **Thousand Islands Bridge Authority-Canada and USA.**

Location:

Canada and USA

Services Provided:

**Threat and Vulnerability Risk
Assessment,
Systems Concept Planning,
Detailed Systems Design and
Specifications Preparations,
Contract Supervision.**



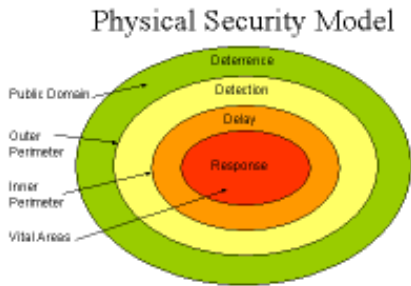
www.LEA.ca

Focus on TRVA

LEA's methodology for Transit TRVA's involves several phases and is much more than a generic checklist audit of existing security measures and deficiencies. The methodology includes:

- ◆ Gathering background information
- ◆ Conducting on-site assessments of assets and the surroundings
- ◆ Developing an assessment of each site
- ◆ Identifying and investigating cost mitigating measures
- ◆ Conducting feasibility assessments

LEA's process utilizes the Physical Security Model concept, outlined in the diagram below. This involves establishing zones and perimeters for protection of assets.



LEA successfully completes Transit TRVA's by incorporating specific issues related to transit infrastructure and operations, derived from our extensive

background as a Transportation Consulting firm. These include:

- ◆ Significant and Diverse Physical Assets of Transit Agencies
- ◆ Commercial Impact of Security Threats on Transit Operations
- ◆ Cash Based Operations and impact of Security Threats

Sample Project Highlight

Edmonton Transit Service – Transit Security Best Practices Review and TRVA

In a continuous pursuit of customer and employee safety, Edmonton Transit Service (ETS) regularly reviews its safety and security process. ETS employs over 1600 personnel and has a fleet of over 790 buses, 37 light rail vehicles, and 123 DATS vehicles. LEA was retained by ETS to conduct a Security Review identifying security needs based on a TRVA model and develop an agency wide security strategy. The review consisted of employee surveys, site visits, investigation of best practices, and development of a security assessment model for the transit systems and facilities, TRVA, and assessment of existing ETS security services. In addition to the Security Review, LEA developed a Strategic Plan that addressed the needs documented in the Security Review and conformed to best practices in the transit Industry.

Additional Information

Please note that the details of LEA's work are classified and cannot be disclosed with respect to individual sites for security reasons. However, further detail or references of these services may be provided by contacting our firm. Professional staff will be pleased to discuss your infrastructure protection needs and outline a comprehensive, but practical approach to cost-effective baseline security as well as anti-terrorist counter measure planning and design.

Contact:

John Greenough, M.Eng., P.Eng.
Vice President and Director
LEA Consulting Ltd.
625 Cochrane Drive, Suite 900
Markham, ON, Canada, L3R 9R9
Tel.: 905-470-0015 x 228
Email: jgreenough@LEA.ca

LEA Team Principals:

- ◆ **John Greenough**, P.Eng., VP Head, Transportation Systems Group
- ◆ **Alan Bell**, President, Globe Risk Holdings - Former British SAS Commando, deployed on covert international missions, trainer to counter terrorist teams and Special Forces units worldwide, and a provider of direct support to both MI5 and MI6 operations, as well as protecting the British Royal Family.

