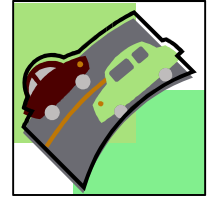




MONTREAL SECTION - www.aaceimontreal.org

Monday November 10, 2014

RISK ASSESSMENT AND MITIGATION IN TRANSPORTATION PROJECTS



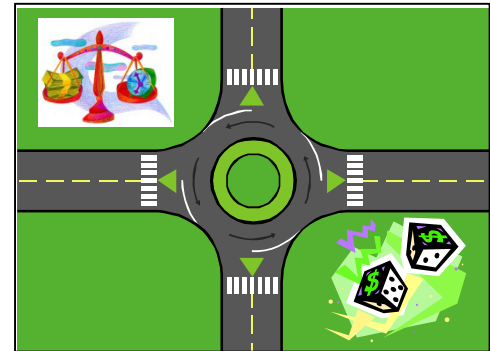
Presenter: Professor **Ali Touran, Ph.D., P.E.**, is a Professor of Civil Engineering at Northeastern University in Boston and has consulted on several major transit projects for their risk assessment process including transit projects in Las Vegas, Salt Lake City, New York City, and Washington, D.C. He has made presentations on risk assessment in highway projects as part of the *Everyday Counts* initiative of the Federal Highway Administration in 2013. Also, Dr. Touran has been working on project delivery methods in transportation projects and has completed several projects sponsored by the TRB. He was the lead author of ACRP and TCRP guidebooks for selecting capital delivery methods. Dr. Touran is a Fellow of ASCE, President of the Boston Society of Civil Engineers (BSCES), and a member of the Board of Construction Management Association of America (CMAA).

Abstract: Problems of cost overrun and delays have been plaguing major capital projects. In order to cope with cost overrun and delays, and identify risk factors early on, public transportation agencies have started using formal probabilistic risk assessment for their capital projects. The general objective has been to develop a systematic methodology to identify, quantify, and mitigate risks that threaten project's budget and schedule.

This presentation will describe the general approach used by many agencies for the conduct of a probabilistic risk assessment in a transportation project.

The main steps of the process have been implemented by the author in several risk assessments. These steps include:

- Validation of the base conditions, identification and quantification of risks;
- Establishment of budget contingency;
- Development of a risk mitigation plan;
- Implementation and monitoring of the risk program.



Several issues of interest such as modeling the cost uncertainty, development of risk register, and the Monte Carlo simulation approach will be described. Benefits and pitfalls of risk assessment programs will be highlighted.

The methodology used by the U.S. Federal Transit Administration using a top-down approach will be discussed and compared with the traditional approach in risk modeling. The main emphasis in this presentation is practical aspects of risk modeling and assessment.

Refreshments from 5:15 pm Meeting from 6:00 to 7:00 pm

Location: Rio Tinto Alcan, 2200 Stanley, Ground Floor Atrium
The presentation will be in English

Cost: AACEI and PMI Members: \$ 20 Students: \$ 10 Non-Members: \$ 25

PAYMENT BY CASH OR CHEQUE MADE TO THE ORDER OF AACEI MONTREAL

Please confirm your presence before Friday, Nov. 7, 2014 to Celina Ma
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