Megaproject Management in Traffic Engineering
Avoiding Clogging in the Pulse of Mobility

31 May - 04 Jun 2020, Dubai
Introduction

This GLOMACS Megaproject Management in Traffic Engineering training course will present the next step in solving challenges in megaprojects related to traffic and transportation planning and management of the mobility within the urban areas as well as between the urban areas.

This will emphasize the unprecedented planning and engineering involved in megaprojects related to the traffic engineering, as they most often if not always encounter delays, cost overruns and even from time to time different technical failures, therefore underscoring the requirements for adequate planning, risk management and improvement through design in the traffic and transportation projects, as they are quite often dependent on the traffic flows and the behavior of the people that use the network.

This GLOMACS training course will highlight:

- The stakeholders in megaprojects related to traffic and transport
- Defining characteristics of megaprojects
- Mega-risks associated with megaprojects
- Time and money management in megaprojects
- Improvement while under construction
- Technical complexities of megaprojects related to traffic
- Overdesign or under-design issues in megaprojects
- Complex Dynamics of Traffic Management

Objectives

By the end of this GLOMACS training course, participants will be able to:

- Understand the issues related to the high number of stakeholders in megaprojects
- Use adequate techniques of time and money management in megaprojects
- Create a risk management adaptive planning approach for the megaprojects
- Evaluate complex dynamics of traffic management in a modern environment
- Plan and prioritize the traffic engineering activities in megaprojects
- Identify possible improvement options while the megaproject is ongoing
- Remove the problems of over or under design

Training Methodology

The participants will receive thorough training on the subjects covered by the course outline utilizing a variety of adult learning techniques tailor-made for the application in the traffic engineering discipline. The focus on actual case studies from Europe, Asia, US, and developing countries and solving of actual problems through the guided examples. The Instructor will use a theoretical basis, extended onto the practical examples of issues addressed in different projects, with the videos and tabletop exercises.

Organisational Impact

The organizations will acquire a structured and effective method to understand the common pitfalls that have plagued most of the megaprojects, especially focusing on the overestimation of demand and underestimation of costs associated with traffic engineering megaprojects.

- Benefiting from the understanding of common issues in traffic engineering megaprojects
- Adopt an organized and planned way megaprojects management
- Improve the risk identification and risk management practices in traffic engineering megaprojects
- Improve its responses to under or over design issues
- Reduce costs through improvement while under construction
- Developing an innovation within the megaproject planning
- Reduce costs and time required for traffic engineering projects construction
- Improve the management of public funds in traffic engineering megaprojects

Personal Impact

All participants will gain a deep and solid understanding and practical experience in working on traffic engineering megaprojects, as the learning by doing approach to traffic engineering projects has proven itself to be quite costly and risky.

This GLOMACS training course will personally benefit the participants by providing:

- Learn how to prepare adequate designs and cost evaluations
- Develop an adequate conceptual design which can be adopted as the time progresses
- Learn the risks that are common to all megaprojects
- Use the modern institutional lessons on making transport infrastructure policy
- Planning and budgeting for extended schedules
- Recognize the proper way of ensuring the robustness of traffic engineering megaprojects
- The tie-in between existing infrastructure and planned infrastructure

Who Should Attend?

This GLOMACS Megaproject Management in Traffic Engineering training course is beneficial for who is involved or can be involved in megaprojects related to road, rail, port, airport and other mobility infrastructure.

This GLOMACS training course is a suitably wide range of professionals but will significantly benefit:

- Project Managers
- Highway and Road Engineers
- Traffic and Transportation Planners
- Incident Response Team Members
- Application Designers
- Law Enforcement Professionals
- IT Professionals
Seminar Outline

DAY 1

What are Megaprojects?
- Megaproject Definition
- Megaproject Framework
- Characteristics of Megaprojects
- Collaborative Partnerships in Megaprojects
- What can Constitue a Megaproject?

DAY 2

Traffic Management Complexity
- Standard Traffic Theories and their Failure in Real World Applications
- The New Paradigms
- Three-Phase Traffic Theory
- Empirical Nature of Traffic Breakdown
- Congested Pattern Control Approach
- Importance of Traffic Demand Planning in Megaprojects

DAY 3

Megaproject Risk Management
- Cost / benefit Analysis of Wider Issues of Megaprojects
- Risk Management Framework for Megaprojects
- Risk Management Optimization
- Under-design and Overdesign Risks
- Change and Integration as a Constant in Megaprojects
- Mitigation of Stakeholder Concerns

DAY 4

Megaproject Cost Management
- Megaproject Governance Framework – Incorporation of Multiple Governance Frameworks
- Scope Management of Megaprojects
- Triple Constraint
- The Megaproject Budget Process and Cost History
- Cost Centers and Cost Management Teams
- Strategies to Avoid Scope Creep and Cost Escalation
- Structured Change Process through the Time of Project Delivery

DAY 5

Dynamic Schedules in Megaprojects
- Impact of Design Development on Schedule
- Parallel Schedules
- Impact of Simultaneous Operations
- Scope Evolution and Scope Creep Planning
- Lessons from Different Megaprojects: EU, Asia, USA, Africa

Approved Centre

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REGISTRATION DETAILS

LAST NAME: __________________________________________
FIRST NAME: _________________________________________
DESIGNATION: _______________________________________
COMPANY: _________________________________________
ADDRESS: __________________________________________
____________________________________________________
CITY: ______________________________________________
COUNTRY: __________________________________________
TELEPHONE: ________________________________________
MOBILE: ___________________________________________
FAX: _______________________________________________
EMAIL: _____________________________________________

AUTHORISATION DETAILS

AUTHORISED BY: _____________________________________
DESIGNATION: _______________________________________
COMPANY: _________________________________________
ADDRESS: __________________________________________
____________________________________________________
CITY: ______________________________________________
COUNTRY: __________________________________________
TELEPHONE: ________________________________________
MOBILE: ___________________________________________
FAX: _______________________________________________
EMAIL: _____________________________________________

PAYMENT DETAILS

☐ Please invoice my company
☐ Cheque payable to GLOMACS
☐ Please invoice me

CERTIFICATION

Successful participants will receive GLOMACS’ Certificate of Completion

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<thead>
<tr>
<th>Code</th>
<th>Date</th>
<th>Venue</th>
<th>Fees</th>
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<tbody>
<tr>
<td>TE007</td>
<td>31 May - 04 Jun 2020</td>
<td>Dubai</td>
<td>$4,950</td>
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TERMS AND CONDITIONS

- Fees - Each fee is inclusive of Documentation, Lunch and refreshments served during the entire seminar.
- Mode of Payment - The delegate has the option to pay the course fee directly or request to send an invoice to his/her company/ sponsor. Credit card and cheque payments are both acceptable.
- Cancellation / Substitution - Request for seminar cancellation must be made in writing & received three (3) weeks prior to the seminar date. A US$ 250.00 processing fee will be charged per delegate for each cancellation. Thereafter, we regret that we are unable to refund any fees due, although in such cases we would be happy to welcome a colleague who would substitute for you.
- Hotel Accommodation – is not included in the course fee. A reduced corporate rate and a limited number of rooms may be available for attendees wishing to stay at the hotel venue. Requests for hotel reservations should be made at least three (3) weeks prior to the commencement of the seminar. All hotel accommodation is strictly subject to availability and terms and conditions imposed by the hotel will apply.
- Attendance Certificate – a certificate of attendance will only be awarded to those delegates who successfully completed/ attended the entire seminar including the awarding of applicable Continuing Professional Education Units/Hours.
- Force Majeure – any circumstances beyond the control of the Company may necessitate postponement, change of seminar venue or substitution of assigned Instructor. The Company reserves the right to exercise this clause and implement such amendments.
- Fair Access / Equal Opportunities – In the provision of its services as a world-class Training Provider, the Company is committed to provide fair access / equal opportunities throughout the delivery of its courses and assessment leading to the completion of training seminars, or 3rd party qualifications/certifications.