Advanced Intelligent Transportation Systems
Driving to the Future

13 - 17 Dec 2020, Dubai
Introduction

After great success with the GLOMACS Intelligent Transportation Systems (ITS) training course for beginners, this is a continuation of the previous course. We are witnessing that technology is evolving at a high rate of speed, and many systems that were a major discovery until yesterday are being replaced by even greater discovery today. This is also happening with the Intelligent Transportation Systems (ITS), and their implementation is becoming rather a necessity than the innovation.

Intelligent Transportation Systems (ITS) is increasing its footprint, with the introduction of the Big Data, Artificial Intelligence (AI) and IoT. The Intelligent Transportation Systems (ITS) of yesterday are in a way becoming legacy systems as the new technology is rapidly developing and it is creating new opportunities. It is all more and more user centric, and no longer are the drivers at the core of the systems, as the Intelligent Transportation Systems (ITS) is now having vehicles and infrastructure at its core, while all other users are the beneficiaries of the system.

This GLOMACS training course will highlight:

- Intelligent Transportation Systems (ITS) innovation strives
- Intelligent Transportation Systems (ITS) benefits to governments, industries and users
- Design of user centric Intelligent Transportation Systems (ITS)
- Data gathering and analysis from vehicles
- Using drones and video analysis for traffic counting
- Road asset data collection from vehicles
- Pattern recognition and Artificial Intelligence in Intelligent Transportation Systems (ITS)

Objectives

At the end of this GLOMACS Advanced Intelligent Transportation Systems (ITS) training course, participants will learn to:

- Understand the Intelligent Transportation Systems (ITS) benefits and possibilities of innovation
- Apply the tools and techniques of Big Data analysis in Intelligent Transportation Systems (ITS)
- Recognize the Artificial Intelligence (AI) implementation within the Intelligent Transportation Systems (ITS)
- Prepare for Intelligent Transportation Systems (ITS) management of change
- Get acquainted with the use of visualization techniques of traffic data
- Use pattern recognition in traffic monitoring, control and traffic infrastructure maintenance and planning

Organisational Impact

The organization will benefit from understanding the principles of innovation within the Intelligent Transportation Systems (ITS) as well as its interoperability and compatibility with other elements of the Smart City. There is no Smart City without the Smart Mobility and this course will help the organizations build and maintain the pillar of Smart Cities related to mobility, as it is also a connection for all other Smart City pillars.

Impact on the organisation from delegates attending this GLOMACS training course includes the following benefits:

- Budgeting optimization and improvement
- Lowering the costs of system use
- Enhancing the level of service without the massive investment
- Improve the mobility within the cities, areas, countries and even cross-borders
- Open the gates of Industry 4.0 within their systems
- Reduce project delays and public trust issues

Personal Impact

The participants will gain or enhance their understanding by the following:

- Identify the Intelligent Transportation Systems (ITS) possibilities
- Learn the details of Intelligent Transportation Systems (ITS) innovation streams
- Acquire the knowledge related to IoT and AI in Intelligent Transportation Systems (ITS)
- Learn the data visualization requirements for successful Intelligent Transportation Systems (ITS)
- Adopt the modern technologies across the whole mobility sector
- Recognize the benefits of Intelligent Transportation Systems (ITS) technologies in other areas
- Accelerate their career development
- Adopt the use of data from Intelligent Transportation Systems (ITS) systems to improve road asset management

Who Should Attend?

This GLOMACS Intelligent Transportation Systems (ITS) training course is suitable for people who have already attended the first part of the course, as well as for clients whose knowledge is higher than ordinary. It is designed for the people involved in traffic and transport planning and organization, IT experts, as well as researchers and consultants involved into management, analytics, optimization, project management and transport optimization.

This GLOMACS training course is suitable to a wide range of professionals but will greatly benefit:

- Project Managers
- Professionals in Urban Planning
- Strategic Development Personnel
- Architects involved in Urban Design
- Traffic Engineering and Researchers
- Transport Engineers and Researchers
- Technology Engineers, CTOs and CIOs

Training Methodology

The participants to this course will receive a thorough training on the subjects covered by the course outline with the instructor utilizing a variety of proven adult learning teaching and facilitation techniques, with examples of traffic data visualization from worldwide cities. use of pattern recognition in the vehicles and connecting the data from the vehicles to the road and traffic equipment maintenance, as well as automatic updates of navigation maps. This include active presentation of technologies and its applications in different countries of the world.
## DAY 1

### Intelligent Transportation Systems (ITS) and Big Data

- Big Data Use in Intelligent Transportation Systems (ITS) Projects
- Data Visualization for Urban Planning
- Intelligent Transportation Systems (ITS) Data Collection and Analysis
- The Data Sources and Its Correlation in Intelligent Transportation Systems (ITS)
- Data Sharing and Additional Data Sources

## DAY 2

### Intelligent Transportation Systems (ITS) and Artificial Intelligence (AI)

- Artificial Intelligence in Traffic Control and Monitoring Systems
- Artificial Intelligence in Vehicles
- Pattern Recognition and Use of Drones
- Traffic Signs Recognition and Navigation Map Updates
- Intelligent Transportation Systems (ITS) for Self-driving Cars
- The Multi-layered Traffic System

## DAY 3

### Urban Mobility Improvement Through ITS

- Travel Time Reduction
- Automatic Routing and Re-routing
- Proximity Detection
- Energy Conservation
- Mobility Social Networking

## DAY 4

### The ITS and IoT for User Centric Design

- User - Vehicle - System Communication
- System Adaptation of User Behavior Patterns
- Adoptive Speed Limits
- Adoptive Parking
- Multimodal Intelligent Transportation Systems (ITS)

## DAY 5

### Intelligent Transportation Systems (ITS) Sustainability

- Intelligent Transportation Systems (ITS) Sources of Finance
- Intelligent Transportation Systems (ITS) Cost Reduction Analysis
- Intelligent Transportation Systems (ITS) Adaptation for Road Asset Management
- Intelligent Transportation Systems (ITS) as a Profit Center
- The future of Intelligent Transportation Systems (ITS)
Advanced Intelligent Transportation Systems
Driving to the Future

<table>
<thead>
<tr>
<th>Code</th>
<th>Date</th>
<th>Venue</th>
<th>Fees</th>
</tr>
</thead>
<tbody>
<tr>
<td>TE003</td>
<td>13 - 17 Dec 2020</td>
<td>Dubai - UAE</td>
<td>$4,950</td>
</tr>
</tbody>
</table>

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

4 WAYS TO REGISTER

Tel: +971 (04) 425 0700
Fax: +971 (04) 425 0701
Email: info@glomacs.com
Website: www.glomacs.com

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.

GLOMACS
P.O. Box 74653 Dubai, U.A.E.
T: +971 (04) 425 0700    |    F: +971 (04) 425 0701
E: info@glomacs.com     |    W: www.glomacs.com

Connect with Us On LinkedIn
Scan the QR Code* to visit and connect to our LinkedIn profile.

*Requires QR code reader/scanner application to be installed on your smartphone.