

4th NEARCTIS Summer School
3rd Multitude Summer School
Assessment of ITS Solutions
Paris (Marne-la-Vallée), France
June 12-14, 2013



Who should attend?

The school targets young professionals (engineers, consultants, practitioners and public servants), graduate and PhD students, and researchers, who wish to improve their understanding of the assessment of ITS solutions, especially by using simulation tools.

Goals of the summer school

At the end of the summer school the participants will be able to:

- Set up an assessment framework of ITS measures,
- Analyze the current performances of a transportation system with the measure of performance that will allow comparison with the project situation,
- Identify the main pitfalls of assessments studies,
- Use efficiently simulations tools to quantify the expected performances including calibration, validation and multi-criteria analysis.

Several case studies on the implementation of ITS solutions will be presented with a particular focus on their evaluation.

The participants will be provided with NEARCTIS shared ITS resources (simulation software and datasets) for the exercises.

Venue

The summer school will be held in the brand new IFSTTAR building in Marne-la-Vallée, near Paris. Connections by urban trains with the centre of Paris and the main airports are easy.



Ifsttar: French institute of science and technology for transport, spatial planning, development and networks
14-20 Boulevard Newton, Cité Descartes, Champs sur Marne
F-77447 Marne la Vallée Cedex 2
Tél. : +33 (0)1 81 66 80 00
<http://www.ifsttar.fr/en/welcome/>

Calendar

Registration is open until April 30, 2013. Attendees will be informed of acceptance or rejection of their application by mid-May.

Fees

250 € for academics, 500 € for professionals.

Certificates

Attendance certificate will be provided after receiving the report presenting the results of the exercises, which will be realized by groups of 3-4 students.

NEARCTIS

Is a Network of Excellence for Advanced Road Cooperative traffic management. It focuses on modelling, optimization and control, as well as evaluation methods. It also targets communication, deployment and implementation issues. www.nearctis.org

MULTITUDE

Is a COST project which aims to develop, implement and promote the use of methods and procedures for supporting the use of traffic simulation models, especially regarding model calibration and validation, to ensure their proper use and the validity of the results and the decision made on them. www.multitude-project.eu

12 June 2013 – Day 1 Assessment framework

When	What	Who
9:00	Introduction	
9:05	Tutorial – 1 Introduction to the Assessment of ITS Measures	K. El-Araby (Transver)
10:05	Coffee break	
10:30	Tutorial – 2 Assessment Methodology	E. Cascetta (Naples Univ.)
11:30	Poster session – this will be the opportunity for the trainees to meet each other and meet the teachers to discuss some of their results. Presentation of a poster is not mandatory; already-presented material can be reused.	All
12:30	Lunch	
14:00	Exercise – 1 Introduction: Problem definition and assessment framework: data, actors, indicators, etc.	W. Daamen (TU Delft), B. Ciuffo (JRC) and C. Buisson (IFSTTAR)
16:00	Coffee break	
16:30	Exercise – 2 Definition of alternatives and scenarios, quantitative analysis of the base scenario.	W.D., B.C., C.B
18:30	End of the day	

13 June 2013 – Day 2 ITS assessment studies: the role of modelling

When	What	Who
08:30	Tutorial – 3 Key requirements for a successful assessment simulation study (part 1) : <ul style="list-style-type: none"> • Ability of simulation tools to reproduce observed physical phenomenon • Network representation and coding and definition of alternatives 	S. Hoogendoorn (TU Delft)
10:30	Coffee break	
11:00	Tutorial – 4- From data to the Measures of Effectiveness	C. Buisson (IFSTTAR)
11:45	Case Study – 1 Point to point speed enforcement: impacts on traffic, pollutant emissions and road safety	V. Punzo (Naples Univ.)
12:30	Lunch	
14:00	Exercise – 3 Simulation, calibration, output gathering and validation on the base case.	W.D., B.C., C.B
16:00	Coffee break	
16:30	Exercise – 4 Definition of alternatives and scenario.	W.D., B.C., C.B
18:00	End of the day	
19:00	Gala Dinner	

14 June 2013 – Day 3 The role of simulation in the assessment of ITS impacts

When	What	Who
08:30	Tutorial – 5 Key requirements for a successful assessment simulation study (part 2) <ul style="list-style-type: none"> Parameters, calibration, validation Stochasticity 	S. Hoogendoorn (TU Delft)
10:30	Coffee break	
11:00	Case Study – 2 Design and evaluation of traffic signal control strategies for the City of York (UK)	M. Smith (York Univ.)
11:45	Case Study – 3 Assessment of bus and taxi special lane on the A1 northern entrance of Paris	S. Cohen (IFSTTAR)
12:30	Lunch	
14:00	Exercise – 5 Multi-criteria assessment	W.D., B.C., C.B
16:00	Coffee break	
16:30	Exercise – 5 Uncertainty analysis of results	W.D., B.C., C.B
18:00	Closing and evaluation	

Hotels, lunches and gala dinner

All attendees and teachers can stay in Ibis hotel in the immediate vicinity of the summer school location. This hotel offers breakfast and dinner. Lunches will be taken collectively (cost included in the fees) in the same building as the summer school. A gala dinner will be organised on Thursday 13th (the second day).

Access map

