# **MULTITUDE** Final Conference

Methods and tools for supporting the Use, calibration and validaTion of Traffic simUlations moDEls

(Cost Action TU0903 – www.multitude-project.eu)

EUROPEAN COOPERATION IN SCIENCE AND TECHNOLOGY









**Organizing Committee** Constantinos Antoniou, NTUA Mark Brackstone, IOMI

Vincenzo Punzo, UNINA/EC JRC

# **6**<sup>th</sup> ecember aples, Italy

"Congress Centre Federico II, via Partenope 36"

## The COST Action MULTITUDE

COST - European Cooperation in Science and Technology (www.cost.eu) is an intergovernmental framework aimed at facilitating the collaboration and networking of scientists and researchers at European level. COST funds pan-European, bottom-up networks of scientists and researchers across all science and technology fields. These networks, called 'COST Actions', promote international coordination of nationally-funded research.

The COST Action TU0903 MULTITUDE (www.multitude-project.eu) "Methods and tool for supporting the Use, caLibration and validaTIon of Traffic simUlations moDEls" is a research project undertaken in Europe under the aegis of the COST organization.

Its focus is the issue of uncertainty in traffic simulation and its main objective "to develop, implement and promote the use of methods and procedures for supporting the users to apply available traffic simulation models correctly, effectively and repeatably."

### **Final conference**

The objectives of the final conference are to disseminate the scientific outcomes of the Action and to foster the discussion and the scientific investigation on the topic of the management of the uncertainty in traffic simulation.

Its impacts on the transportation engineering practice and on the transportation decision making process will be debated, in particular, during the first day in a round table with eminent participants from the academia and both the consultant and the client worlds.

Three keynote speeches and a number of invited presentations will follow, covering many theoretical and practical aspects including calibration, validation, sensitivity analysis in traffic and pedestrian simulation, and traffic control.

## **CONFERENCE DRAFT PROGRAMME**

#### Wednesday 4<sup>th</sup>

14:00-14:30	Welcome and Registration	
14:30-15:10	Introduction (Massimo Marrelli, UNINA, Rector, t.b.c.; Bruno Montella, UNINA, Head of DICEA)	
14:40	Welcome speech (Vincenzo Torrieri, UNINA, High Technology District on Transport and Logistics, DATTILO)	
14:50	Introduction to COST (Thierry Goger, COST Office)	
15:00	Introduction to the COST Action MULTITUDE (Vincenzo Punzo, UNINA/EC JRC)	
15:10-16:30	The Management of Uncertainty in the Transportation Engineering Practice (Mark Brackstone, IOMI)	
15:10	Consultant view (Tom Van Vuren, Divisional Director at Mott MacDonald)	
15:30	Public Agency view (Vladimir Vorotovic, Traffic Modelling Specialist at Transport for London, t.b.c.)	
15:50	Decision Maker view (Robert Bertini, Portland State University, Past Deputy Administrator at the US DOT RITA)	
16:10	Decision Maker view (Ennio Cascetta, UNINA, Past Ministry of Transport of the Campania Region, Italy)	
16:30	Coffee break	
17:00-18:00	Round table: The Management of Uncertainty in the Transport Decision Making (Mark Brackston Participants: Vassili Alexiadis (Cambridge Systematics), Robert Bertini (Portland State University), Ennio Cascetta (UNINA), Craig Drury (UK Highway Agency), Tom Van Vuren (Mott MacDonald), Vladimir Vorotovic (Transport for London) t.b.c.	
		Scientific Committee
Thursday	5 <sup>th</sup>	- Constantinos Antoniou, NTUA
9.00-10.30	MULTITUDE Topics and Results (Vincenzo Punzo, UNINA/EC JRC)	- Jaume Barcelo, UPC - Mark Brackstone, IOMI
	Calibration and Validation Basic Principles (Jaume Barcelo, UPC)	- Christine Buisson, IFSSTAR
9:30		- Biagio Ciuffo, EC JRC
	Time dependent OD Demand Estimation (Constantinos Antoniou, NTUA)	- Serge P. Hoogendoorn, TUDelft
	Coffee break	- Ronghui Liu, ITS Leeds
	Keynote speech on traffic simulation and control (Markos Papageorgiou, TUC)	- Vincenzo Punzo, UNINA/EC JRC
	<b>MULTITUDE Outputs</b> (Christine Buisson, IFSSTAR)	(Action Chairman)
	Traffic Data: Enhanced NGSIM, MoCoPo (Marcello Montanino, UNINA, and Christine Buisson, IFSSTAR)	- Tomer Toledo, Technion
12:00		(Action Vice-Chairman)
12:15	State of the Art on Traffic Simulation (Christine Buisson, IFSSTAR)	- Peter Vortisch, KIT
12:30	A Case for Guidelines (Peter Vortisch, KIT)	- Peter Wagner, DLR
12:45	Open Discussion	Scientific & Administrative
13:00	Lunch	Secretariat
14:15	Keynote speech on pedestrian simulation (Serge P. Hoogendoorn, TUDelft)	- Marcello Montanino, UNINA
15:00-16:30	Calibration and Validation in Theory (Peter Wagner, DLR)	- Lucia Sparavigna, TEST scarl
15:00	Talk 1 (Matthew Karlaftis, NTUA)	Department of Civil, Architectural
15:30	Talk 2 (Hani Mahmassani, Northwestern University )	and Environmental Engineering
16:00	Talk 3 (Ben Heydecker, UCL)	Via Claudio 21, 80123, Napoli
16:30	Coffee break	Tel: (+39) 081 7683770
17:00-18:30	Calibration and Validation in Practice 1 (Constantinos Antoniou, NTUA)	e-mail: secretary@multitude-project.eu
17:00	Real World Challenges (Jordi Casas, TSS)	Deviaturation Free 120 C
17:20	Real World Challenges (Axel Lehonard, PTV)	Registration Fees: 130 €
17:40	Real World Challenges (Malcom Calvert, SIAS)	The fee is due ONLY by participants NOT
18:00	Real World Challenges (Peter Wagner, DLR)	reimbursed by COST. It includes the social dinner, two lunches and the coffee breaks.
20:30	Social Dinner	
Friday 6 <sup>t</sup>	n	Conference Hotels
9:00	Keynote speech on sensitivity analysis (Stefano Tarantola, EC JRC)	Royal Continental, Santa Lucia
9:45-10:45	Calibration and Validation in Practice 2 (Tomer Toledo, Technion)	

9:45 Real World Challenges (Vassili Alexiadis, Cambridge Systematics)

12:15 Traffic Simulation Guidelines (Mark Brackstone, IOMI, Robert Bertini, Portland State University)

12:35 Beyond MULTITUDE (Constantinos Antoniou, NTUA, Vincenzo Punzo, UNINA/EC JRC)

SOCIAL PROGRAMME Historical Centre and Metro Art Stations Tour

13:00-13:30 Round table: Merging the Views (Mark Brackstone, IOMI, participants: t.b.c.)

10:15 Real World Challenges (Craig Drury, UK Highway Agency)

11:15-12.15 Promising Results and Open Issues (Peter Vortisch, KIT)

11:15Talk 4 (Vincenzo Punzo, UNINA/EC JRC)11:45Talk 5 (R. Eddie Wilson, University of Bristol)12:15-13:00The MULTITUDE heritage (Jaume Barcelo, UPC)

10:45 Coffee break

13:30 Lunch

#### Toledo Metro Art Station

