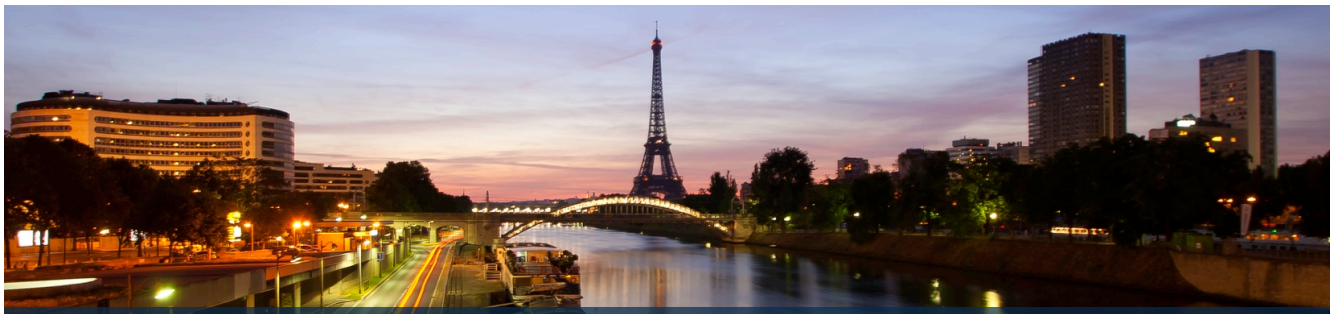

Urban Logistics : understanding, modelling and simulating urban-freight

MINES ParisTech

PROGRAM 18TH TO 22ND MARCH 2019

	MON 18th MAR CLASSROOM L316	TUE 19th MAR CLASSROOM L316	WED 20th MAR CLASSROOM L316	THU 21st MAR CLASSROOM L316	FRI 22nd MAR CLASSROOM L316
09h00 10h30	GENERAL INTRODUCTION S. TAMAYO (MINES)	PARCELS: A GROWING TREND E. BONNAUD (LA POSTE)	INTERACTIVE SIMULATION A. GAUDRON (MINES)	SIMULATION EXERCISE TEAMS OF STUDENTS	SIMULATION EXERCISE TEAMS OF STUDENTS
10h45 12h15	CONTEXT OF URBAN LOGISTICS S. TAMAYO (MINES)	SUCCESS STORIES OF LA POSTE E. BONNAUD (LA POSTE)	INTERACTIVE SIMULATION A. GAUDRON (MINES)	SIMULATION EXERCISE TEAMS OF STUDENTS	PRESENTATIONS OF PROJECTS TEAMS OF STUDENTS
14h00 15h30	EUROPEAN POLICY H. WIEDEMANN (RENAULT)	WHOLESALING & DISTRIBUTING IN CITIES A. SCHNAPPER (OPSALIS - MINES)	SIMULATION EXERCISE TEAMS OF STUDENTS	AUTONOMOUS VEHICLE AND SMART MOBILITY C. LAURGEAU (INTEMPORA - MINES)	FREE
15h45 17h15	MODELLING AND SIMULATION S. TAMAYO (MINES)	WHOLESALING & DISTRIBUTING IN CITIES A. SCHNAPPER (OPSALIS - MINES)	SIMULATION EXERCISE TEAMS OF STUDENTS	AUTONOMOUS VEHICLE AND SMART MOBILITY C. LAURGEAU (INTEMPORA - MINES)	FREE

PEDAGOGICAL OBJECTIVES

This course aims at providing an introduction to the main notions, stakes, difficulties and opportunities related to urban logistics. In this field, problems tend to be complex with many actors (residents, professionals and authorities) that often haven contradictory objectives.

As this course is intended for undergraduate engineering students, an important part of the it focuses on modelling and simulation tools, available to describe and predict the various ways in which urban logistics systems might react to changes (in policies, regulations, behaviours of actors, etc.).

The course is based on three specific objectives as follows:

- Understand why urban logistics cannot follow the same logic of management as “classical logistics”, especially in terms of massification choices, delays and inventory management.
- Analyse recent developments in the context of urban logistics in France and abroad (e.g. increase in the costs of land, multiplication of relay points, outburst of e-commerce, etc.).
- Introduce modelling and simulation tools available to engineers in order to propose thorough analysis and innovative solutions to problems in the field of urban logistics.

MATERIALS

Each student should **bring a laptop**. Make sure you **install AnyLogic** (simulation software) before the course. The *Personal Learning Edition* is free and available in the following link: https://www.anylogic.com/downloads/