# IT technologies for roads management

**Public**

Decision makers having to deal in their country with the management of the roads and to utilize or create the specifications for the data-processing tools.

**Objectives:**

This 10 days cycle approaches the whole of the problems related to the installation of an information system for the management of the roads. It refers in particular to:
- release the principal concepts of the computerization of the road activities,
- to deal with the technical aspects and the contribution of new technologies,
- to propose a pragmatic path to help the manager to formalize his needs and to conceive a viable information system.

At the end of the seminar, the partcipants are going to be able to:
- know the characteristics and conditions of use of the various tools will know,
- to specify their needs according to their specific context.

| **Paris** | **From October 18th to October 29th 2010** | Inscriptions:<br>Tel.: +331 4251 6111<br>Fax: +331 4251 6131 | **Session n°40024** | 5 000 € + VAT<br>Lunches included |
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Organisation :   Mrs. Laurène PULLIAT / *Metratech*

## Monday October 18th

Identification and representation of a road network

Method of identification of the road networks in France
Construction and update of a reference frame of localization
Modes of localizations of the data roads.

Mr. CORROENE

### Tuesday October 19th

Collection of the road data

Principles of the collection of information on the roads
Methods and apparatuses used

Mr. LEPERT

### Wednesday October 20th

Road data collection and processing

Constitution and management of a data base on the automatic collection

M. LEPERT

### Thursday October 21th

Management of road maintenance

Methods for the evaluation and assistance to the programming of the maintenance work

Mr. LEPERT

## Friday October 22th

Management of road maintenance

Illustration with GIRR, software of the French technical network
Analyze strategies of maintenance, illustration with HDM

Mr. LEPERT

### Monday October 25th

Exploitation of the road data

Management of the road data base (creation of the catalogue of data...)
Production of charts, diagrams and road diagrams
Work practise with the softwares ROUTEN, CARTEN and WAKE

Mr. CORROENE

### Tuesdat October 26th

Presentation of HDM IV

Mr. BROSSEAUD

### Wednesday October 27th

Computerized management of the structures (bridges)

Evaluation of the structures
Choice of a policy of maintenance and programming of work
Illustration with software IQOA

Mr. SUDRET

## Thursday October 28th

Construction of road data bases

Types and composition of the road objects
Choice of the modes of localization
Impact of the evolution of the reference frame
Example of design of a data base

Mr. PALFART
CETE the Mediterranean

Structure of a SIR
Mr. PALFART

### Friday October 29th

Organization of the data exchanges

Administration of the data in time
Aggregation of data
Re-use of old data
Rules of data exchange

Mr. PALFART

Ponts Formation Edition – Ecole Nationale des Ponts et Chausseés