

FRENCH HIGHWAY ASSET MANAGEMENT SYSTEMS

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ABSTRACT

Autoroutes du Sud de la France (ASF) operates the largest French toll highway network, totalling more than 2566 km.

In order to optimize the management of such a network, ASF has developed and set up different computer tools in close link to users in the field.

Among these tools, a WEB application, called WEBSIGAL, allows all those who are involved in the company to have access to the asset data and their geographic position. WEBSIGAL is linked to different technical data bases, used by a public of experts, that allow to inform different objects features and to manage their follow-up :

ARGUSBASE, the application relative to pavement allows to stock and to make restitution of all necessary data to know the road surface condition.

GOA is the information system that includes the description of all civil engineering structures and the follow-up and schedule of inspections and maintenance operations.

PPHM permits to manage the follow-up of major traffic signs.

SIGAL is the ASF geographic information system with different objects of the asset (traffic signs, buildings, safety fences, etc.).

The article will describe the organization used to the asset management with the help of these computerized tools and their interaction in a global process including the asset inventory, the follow-up, the notation and index calculation and finally the projects planning.

KEY WORDS: Motorway, infrastructures, data base, GIS, asset management