

ROAD INFRASTRUCTURE MAINTENANCE with **TeraVial-4**

TeraVial is an efficient solution, flexible and easy to use, for the Fundamental Road Infrastructure Maintenance.

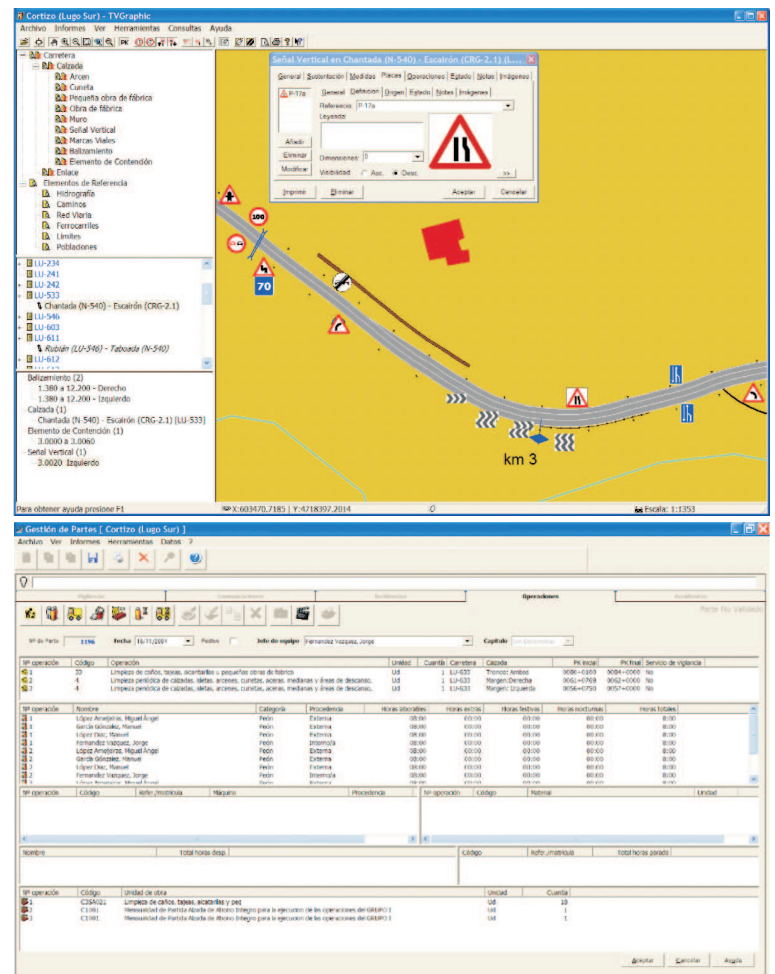
TeraVial is a system that was developed as a solution to the existing demand in the market part because of the Public Administration, as well as Contracting Companies responsible for the Maintenance of the Fundamental Road Infrastructure, a powerful computer tool and easy to use to manage Maintenance tasks and the exploitation over the group of elements constituents of the same ones.

TeraVial solves the problem of the big amount of data generated by the infrastructure maintenance, helps to plan, control costs, provide daily reports for the Administration and much more.

Inventory of the road elements

TeraVial allows you to create and maintain the inventory:

- Provides a graphical and complete listing of the road elements (signposts, roadwork factory, draining, etc.).
- It associates each of its elements alphanumeric additional information referent to its characteristics in the required format according to the current guidelines (GIS functionality).
- Imagegrouping.
- Simplified downloading of cartographic data.
- Everyday up-to-date inventory of elements from their own operation reports.
- Exportation of inventory data of totals and the characteristics in the required format by the Public Administration.

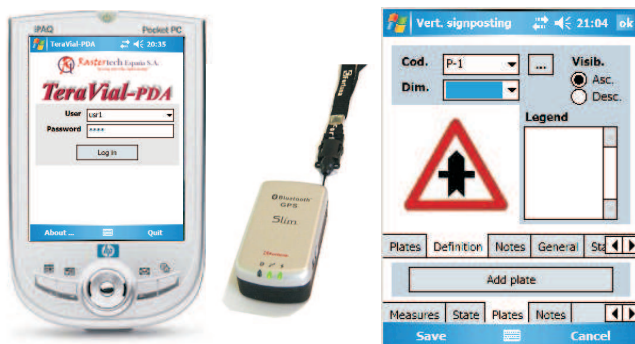


Work Reports

Create the work reports and follow the activities in a precise manner, comfortable and efficient.

- Operations Report
- Vigilance Report
- Incidents Report
- Communications Report
- Accidents Report
- Exploitation Report
- Winter Administration Report

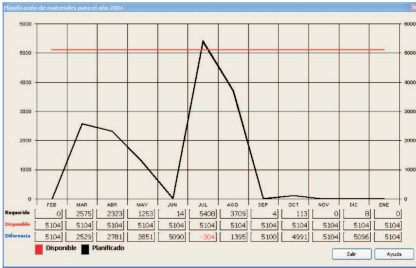
All with identification, quantity and spatial reference of the roadwork that has been carried out.



TeraVial-PDA

One of the latest contributions has been the creation of a powerful system throughout "Pocket PC" or PDA that also contains a precise GPS (Global Positioning System) that allows you to capture directly the information in the field as well as the work areas and inventory of the road elements. The captured information can be downloaded afterwards to the main computer that contains **TeraVial-4** database.

Planning



Arrange the jobs to be done on the road in advance, adjusting the quantity and periodicity of the same ones according to the available resources.

- You can include in your schedule the execution of unpredicted jobs, originated from the incidents occurred on the road.
- Yearly and monthly schedule
- Follow up the scheduling: analysis of deviation between the expected operation and the completed ones.

Resource Management

Get control by knowing at all times the quantity and the current state of available resources to generate the everyday work tasks.

- Personnel
- Machinery
- Vehicles
- Materials

Systematic Reports

Create with *TeraVial* the corresponding periodic reports of proceedings:

- Operations made on the net.
- Units of completed development
- Operational machinery
- Personnel employment chart
- Hours worked by staff per operation and per professional category.
- Machinery usage in hours.
- Quantity of materials used per operation.
- Time taken to ship resources to the workplace.
- Pending incidents
- Accidents
- Generation of the Monthly Certification
- And much more...

OPERATIONS REPORT							
REPORT Rpt. N°: 2 Date: 25/09/2003 Team leader: Zapah Real, Manuel Maná							
OPERATIONS PERFORMED BY TEAMWORK							
Nº	Operación descripción	Amount	Referenciación	KP Start	KP End	Material Service	
1	Limpieza periódica de cables, cables, sensores, resacas, arena, medianas y zona de drenaje.	104	L0-346 + Hada (R-V) - Montfort de Leno (L0-664) + Plataforma única	1,000	1,000	No	
2	Limpieza de rehabilitación vertical, curbs en general, balizamiento y defensas.	104	L0-346 + Hada (R-V) - Montfort de Leno (L0-664) + Plataforma única	3,000	3,000	No	
TEAMWORK							
Nº	Oper.	Name	Category	Source	HOURS		
					Consuming	Work	Total
1	1	Ceballos Juan Carlos	Peón	Interno	8:00	0:00	0:00
1	1	González Fernando, Ramiro	Peón	Interno	8:00	0:00	0:00
1	1	Zapah Real, Manuel Maná	Peón	Interno	8:00	0:00	0:00
MACHINERY							
Nº	Oper.	Plate number	Machine	Source	HOURS		
					Shipped	Remaining	
BUILD UNITS							
Oper.	BUILD UNIT	Amount	MATERIALS				
			Nº	Oper.	Material	Amount	
1	SP Limpieza cables tipo alcatraz tipo 000000 c y t vertidos.	874					
2	Manutención PA. abono litargo opere opera GRUPO-1 según PFTP	0PA					

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OPERATIONS MADE ON THE NET														
Xunta de Galicia diciembre de 2005														
Site: Lugo Zone: Lugo Sur Contractor: Ocoso Obras y Construcciones S.L. C.F.F.: B-20220204														
Cód	Operación	Amount	diciembre de 2005											
CHAPTER I														
1	Limpieza de vertidos accidentales en la carretera	2204												
10	Vialidad normal: Tratamiento preventivo sustitución	3204												
11	Vialidad normal: Rotonda y drenaje de agua	404												
12	Vialidad normal: Rotonda y drenaje de agua	304												
13	Vialidad normal: Refuerzo de el estado de pavos y curvas	804												
15	Reparación y conservación de elementos de señalización y balizamiento luminoso	204												
2	Rotonda de drenaje de agua	1604												
3	Rotonda de drenaje de agua	204												
4	Limpieza periódica de cables, cables, sensores, resacas, arena, medianas y zona de drenaje	1104												
5	Limpieza de desplazamiento en la calzada	904												
6	Pinta de alfileres y alfileres en asf, mac, ut, horma, tubos de drenaje de drenaje y	604												
7	Refuerzo de curbs en asf, mac, ut, horma, tubos de drenaje de drenaje y	304												

TeraVial, a flexible tool that adapts to all types of Contract

With the purpose to adapt to the way that each centre COEX works in particular and to be able to adjust to the different Contract types, depending on any of the local administrations, autonomous and central, *TeraVial* contains customised tools. When introducing the software the Contract's characteristics are defined: Typified Operations, codified materials, assigned prices in the Contract sheet, Certification data (low coefficient...).