ROAD INFRASTRUCTURE
COMARCH ERGO
Road maintenance
ROAD MAINTENANCE

Comarch ERGO is a complex platform for road infrastructure management, providing support for processes related to the current and long-term road maintenance. The basis for maintenance and construction works are data on road real property gathered in registers of roads and bridges. The system provides indispensable information in the scope of both current maintenance work and investments. It ensures proper control of their accomplishment with the use of mobile platforms.

Occupation of a road lane

The system provides complex handling of the administrative procedure concerning occupation of a road lane, beginning with submitting the application and calculation of the fee and finishing with issuance of the administrative decision. Occupation of a lane may be published as a traffic hold-up on an external geoportal.

- User submits application for occupation of a road lane online.
- Occupation of a road lane has a specified spatial range marked on the map; therefore, it is possible to compare the area of occupation of a road lane declared in the application with the occupation area according to the map.
- Use of high-definition panoramic photographs acquired from mobile scanning enables verification of the area of occupation of a road lane.
- When decision is issued, the system calculates the fee that the applicant has to pay.
- The fee is calculated automatically based on the area of occupation of a road lane as defined on the map and the type and area of facilities located in the area to be occupied.
- User can adapt the price list to the applicable regulations. After the fee has been calculated based on the template, a ready to print document is generated with the content of the decision.
- The schedule of occupation of the road lane (date of commencement of the occupation, date of end of the occupation) as well as dates concerning the duration of the guarantees obtained in connection with the reconstruction of the road surface are presented in the form of a calendar.
Touring logbook

Comarch ERGO supports road operators' statutory actions in the scope of keeping touring logbooks. Touring logbooks are kept for a selected road or category of roads. The system allows to prepare touring schedules (monthly, daily, hourly) as well as recording remarks during the tours. The schedule serves the purpose of supervising the employees who perform the road tours with regard to their maintenance and inspection duties. Dates of the scheduled tours are presented in the form of a calendar.

Thanks to the dedicated mobile application, the user can record the detected failures and defects on an ongoing basis during the tour, and also attach a photo documentation to them. The system gathers quantitative data concerning location of the defects and failures as well as qualitative data related to the types of defects and failures, their intensity and manner of removing. It is also possible to register the detected failure or defect as a traffic hold-up.

Current maintenance

The system supports work related to the current maintenance of roads, which is closely integrated with handling the touring processes. The failures and defects recorded during the tours are put to analysis. Also, their technical parameters and action priorities are determined. Then, appropriate task assignments are initiated:

- current, e.g. repairs, snow clearance task, guarantee repair
- scheduled, e.g. entered in the overhaul or investment schedule

Also other tasks related to current road maintenance are recorded, such as: painting markings on the road surface, clearing ditches, cleaning sings. Key deadlines related to the maintenance works are presented in the form of a calendar. It is possible to mark completion of a task directly in the field using the mobile application. To the information about the task, the employee can attach photo documentation made using e.g. a mobile device. Information on current work can be made available as notifications on traffic hold-ups on an external geoportal.
Construction works

Comarch ERGO supports implementation of investment processes related to the construction, reconstruction and overhauls of roads. The system provides control over the guarantees granted and subsequent guarantee inspections.

- Data concerning investment scopes have spatial reference and information about them are available at the map level.
- The system contains a documentation archive which includes design documents, descriptive documents (e.g. decisions concerning building permits, environmental decisions) as well as photographs documenting the construction work.
- There is an option of displaying the design or post-construction documentation saved in the form of raster or vector files.
- The system provides for gathering detailed information concerning the scopes and stages of construction work as well as the industries involved.
- The system stores information concerning participants of the investment process: contractors, designers, supervisors, scope of investment, costs, dates of commencement and finishing work, technologies applied, guarantees granted as well as guarantee inspections and commissioning reports.
- The system supports guarantee and warranty management.
- The notification function in the calendar informs about the lapse of guarantee periods or the need to perform guarantee or post-guarantee inspections.
- User can quickly generate a list of guarantees that are about to expire, e.g. during the coming week.

Road Schedule

- The system has dedicated calendars presenting key dates related to the occupation of a road lane, diversions, current work, construction work, traffic hold-ups and designs concerning road traffic organisation.
- The Road Schedule combines all the calendars into one. With it, the user that has appropriate authorisations had access to detailed information related to a selected date. It is possible to search for dates fulfilling specific criteria, filtering, displaying dates and presenting them in the form of a report.
- User can search for dates fulfilling set criteria and generate e.g. a report containing information on guarantees that are to expire in the current month.
Why Comarch ERGO?

- Support to the road operator in carrying out statutory tasks as well as in keeping the touring logbook and issuing administrative decisions concerning the road lane

- Optimisation of processes associated with investment work and current maintenance of roads

- Direct support for fields works performed by road builders and maintenance teams (mobile application)

- Direct supervision from the office over field work

- Close to real-time tracking of the actual location of vehicles and the status of the order

- One shared calendar for all events and maintenance tasks

- Support for guarantee and warranty management – control over the area and duration of their applicability

- Full integrity of the system at the level of the registers and records kept (information on occupation of the road lane, current repairs or construction work is automatically registered as traffic hold-ups)

- Available also in an SaaS model

Comarch ERGO implementations

The individual elements of Comarch ERGO in the scope of road maintenance have been implemented for over 200 customers. Particularly noteworthy is the implementation:

- “System of Records and Management of Provincial Roads” for the Provincial Road Management (ZDW) in Bydgoszcz as an example of an innovative approach to implementation of the System of Road Infrastructure Management for which the ZDW in Bydgoszcz was awarded with “IT Wings in Administration” in 2016 for “lifting Polish e-administration to a higher level.”

- As a result, as of today, almost 8,000 diversions, 13,000 defects and over 3,500 road lane occupations have been recorded in the system.
ABOUT COMARCH

Founded in 1993, Comarch is a global manufacturer and supplier of IT solutions, and has been listed on the Warsaw Stock Exchange since 1999. Comarch carries out projects for leading global brands in important sectors including telecommunications, finance, banking, insurance, trade and services, infrastructure, public administration, industry, health care and small and medium-sized enterprises. Thousands of global brands in over 60 countries on 6 continents have used Comarch services, including: London Heathrow Airport, Thomas Cook Group Plc, BP, Telefónica, Carrefour, Heineken, Goodyear, Pepsi, Vodafone, T-Mobile, E-Plus, KPN or MTS, BNP Paribas Fortis, Allianz, Aviva, AXA, BZ WBK (Santander Group), CitiFinancial (Citigroup), Delta Lloyd Life, Deutsche Bank PBC and ING Insurance.

Comarch ranks highly in the league tables prepared by IT analysts, including: Gartner, Truffle 100, TOP 200 "Computerworld", IDC, the Polish Academy of Sciences and EU Industrial R&D Investment Scoreboard. Every year Comarch invests 15% of its revenues in innovative projects. In 2016 this was over £35,500,000. Currently, Comarch employs over 5,400 experts in 90 offices in 31 countries, including the UK, USA, Japan, the Middle East, Europe and Chile.

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