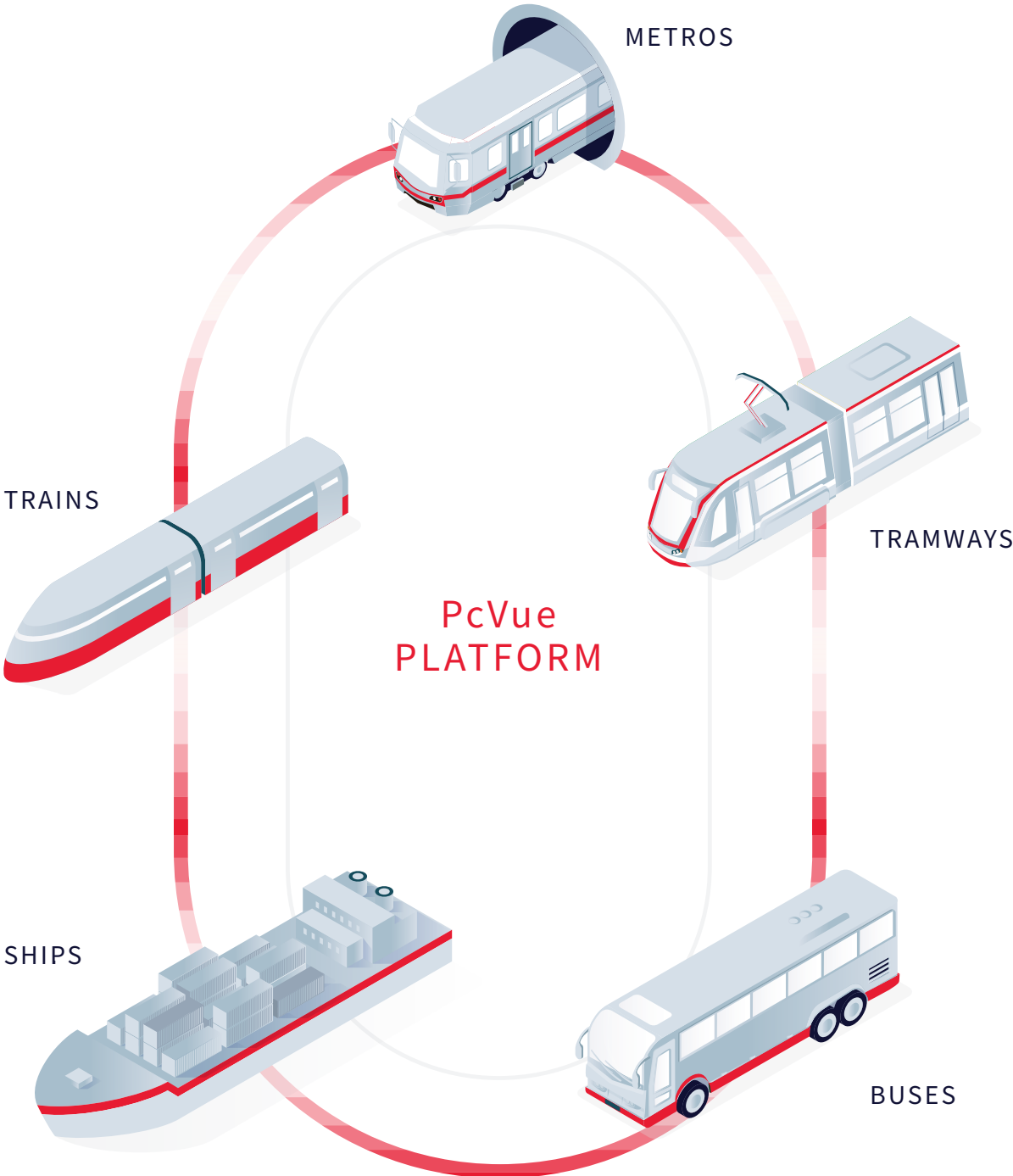


PcVue

# SOLUTIONS FOR TRANSPORTATION



Trains, Metros, Tramways, Buses, Ships





PcVue ensures a reliable system for any kind of transport  
PcVue is a software platform to monitor and control transportation system that guarantees supervision of intra/extra urban transport facilities as it contributes to the confort and safety of people.



## **FEATURES**

- ✔ High-availability system architecture
- ✔ IP video protection integration
- ✔ Replay system
- ✔ Interactive map
- ✔ Operations guidance system
- ✔ Alarm and events management system
- ✔ Wall screen display
- ✔ Dedicated libraries for power lines and train signals
- ✔ Vehicle tracking

An offer designed for all transportation systems needs that meets the operations and regulation requirements

## **BENEFITS**

- ✔ A full featured solution for train signaling system
- ✔ Optimize operations & maintenance reducing costs
- ✔ Keep in operational conditions
- ✔ User-friendly solution for operators
- ✔ Provide more services for citizens
- ✔ Platform designed to increase safety and security
- ✔ Power optimization

## WHY CHOOSE PcVue?

PcVue platform is useful to help transportations industries to success

Transportation and logistics comprise a diverse industry including all modes of transportation for goods and people. The markets are on the move. Due to advancing globalization, declining trade barriers and an increasingly mobile workforce, the transportation and logistics industry continues to enjoy above average growth. Transport companies and logistic service providers are expanding their service offerings both upstream and downstream.

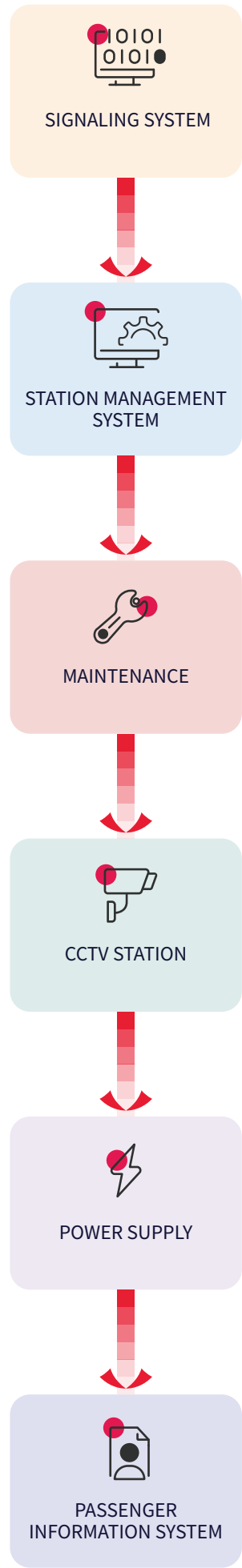
Nowadays, transportation industry requires more safety and efficiency and PcVue provides valuable data to prevent accidents, reduce delays and generate trend analysis in order to improve decision-making.

PcVue platform delivers full control and connectivity, implementing a large variety of built-in drivers with a rich graphical interface, an alarms and events logging system and reporting capabilities. PcVue is a solution for real-time supervision and long-term operation.



# INCREASE TRANSPORTATIONS FACILITIES

PcVue is a software platform to monitor and control transportation system becoming pivotal to reach optimal efficiency and maximum security in each and every aspect of passengers and goods transportation. From signaling, traffic control, to baggage handling systems, supervision systems manage increasingly vital systems in ever-growing infrastructures.



MULTIPLE MEANS



## PERFORMING SOLUTION AT COMPETITIVE COST

- ✔ Running on Microsoft Windows
- ✔ Using Standard PCs
- ✔ Highly Configurable
- ✔ Multiple Display Management
- ✔ Using SQL Server for Data Base Management
- ✔ Validated by partners for large applications (more than 300.000 variables)
- ✔ Integrated redundancy features

## STATION CCTV SYSTEM

- ✔ Camera selection
- ✔ Display selection
- ✔ Real time video insertion
- ✔ Emergency calling booth/synchronization
- ✔ Camera orientation Control (Pan, Tilt, zoom)

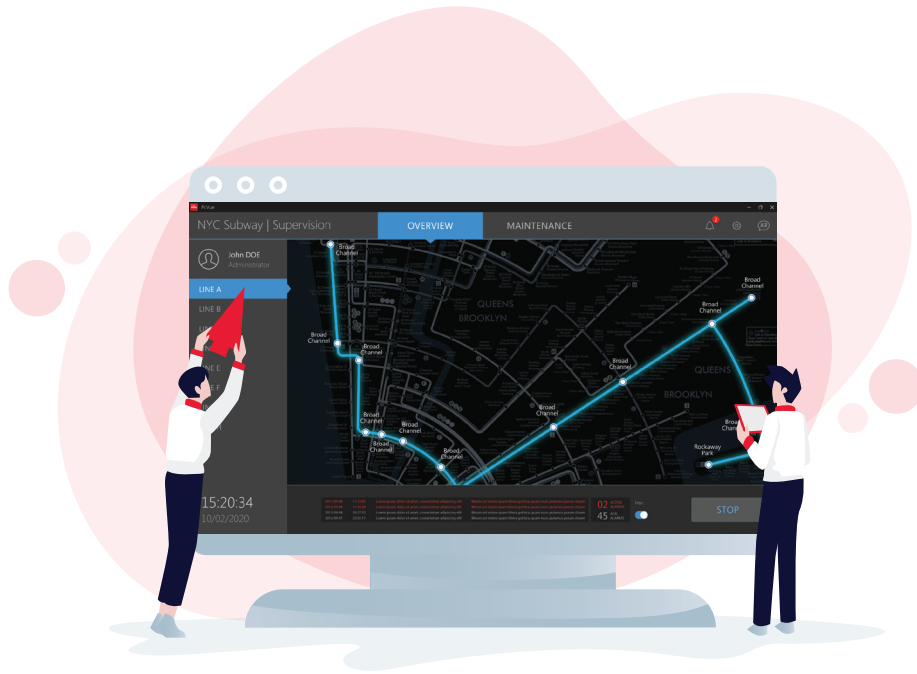
## TRAIN SIGNALING SYSTEM

- ✔ Lines Overview
- ✔ Synthetic and clear picture of sub-networks
- ✔ Library of Standard or Customized

## PLATFORM FOR DIGITALIZED TRANSPORTATION

To answer the need of optimal efficiency, maximum security, and timely passenger service, PcVue has a long and varied track record in providing automated solutions for the transportation industry. Through PcVue's rich development environment, integration of video, audio, fire, security, and infrastructure automation, transport system operators can have complete control over all aspects of their operations, including compliance with international regulations.

# OPEN CONNECTIVITY SOFTWARE PLATFORM FOR TRANSPORTATION



## CENTRAL SYSTEM CONTROL

- ✔ PC & Network Failure Detection

## LOCAL SYSTEM CONTROL

- ✔ Functional views

## SAFETY & SECURITY

- ✔ Multiple redundancy: Control and Monitoring stations, Controllers, Networks
- ✔ Several Control & Back up modes
- ✔ Manual simulation or by scenario



## STATION MANAGEMENT SYSTEM

In Station Control and Monitoring System for:

- ✔ Asset Monitoring
- ✔ Air Conditioning system
- ✔ Tunnel and Station Ventilation systems
- ✔ Escalators automatic walkways and lift systems
- ✔ Emergency phone booth
- ✔ Ticket vending machines
- ✔ Station Power Supply
- ✔ Fire Fighting system

## STATION LIGHTING

- ✔ Time table & Manual Lighting Control

## HVAC

- ✔ Cooling & Ventilation Management

## LIFTS & ESCALATORS

- ✔ Lifts, Escalators & Automatic Walkways control

## ALARM MANAGEMENT

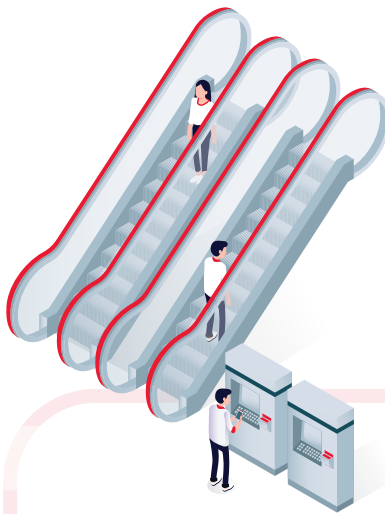
- ✔ Alarm Groups
- ✔ Acknowledgement

## PASSENGER INFORMATION SYSTEM

- ✔ Interface with specific protocols
- ✔ Monitoring display system operation
- ✔ Message management

## TICKETING SYSTEM

- ✔ Interface with specific protocols
- ✔ Security breach alarm management
- ✔ Ticketing machine diagnostics management



## PcVue PLATFORM

# ENGINEERING & INTEGRATION

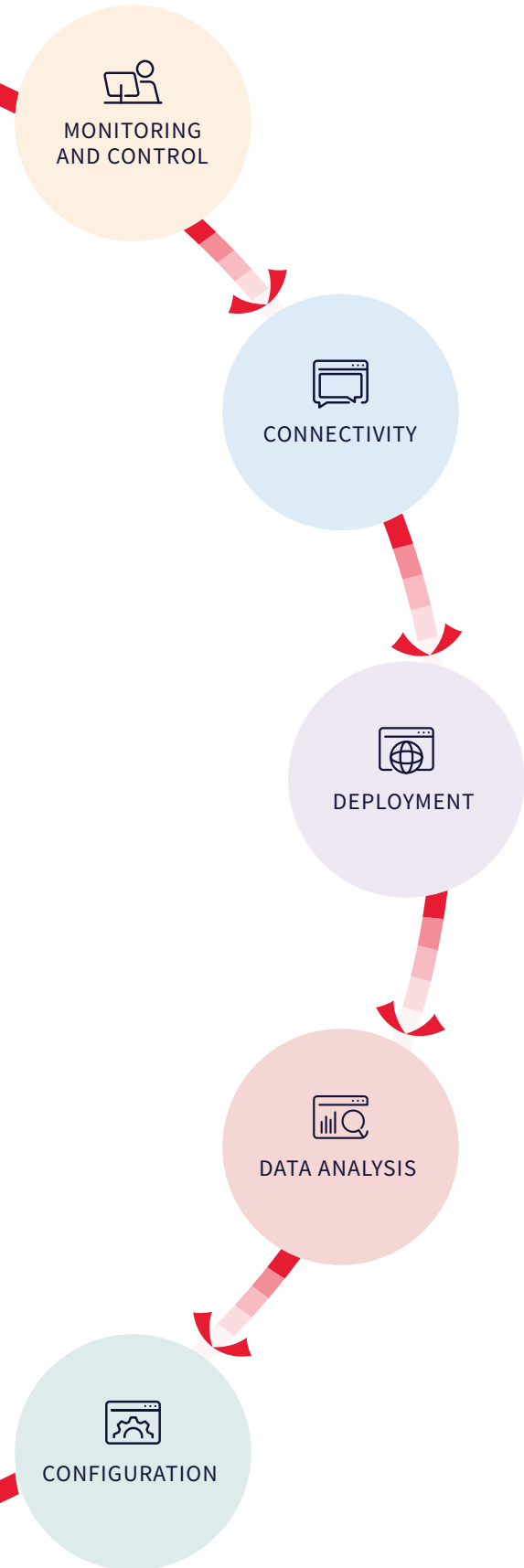
Create, maintain and update the project

**Optimizing development costs** with a platform, easy to implement and maintain.

**An object-oriented approach** to minimize the risks of error, to reduce development costs and to simplify the applicative maintenance.

**Scalable deployment**, from the local station to the multi-site architecture.

**Interoperability**, from the production to the several information systems of the company.



## PcVue PLATFORM

**Graphical Interface**

- Intuitive
- 2D/3D object library
- +60 predefined animations
- Multi-lingual HMI Platform

**Advanced alarm and event management**

Configurable event/alarm windows  
 Sorting filter by status, priority and/or attribute - modifiable online  
 Contextual alarm management  
 Alarm counter

**Supporting the 21cfr11 standard Trends**

Simultaneous display of real-time and archived trends  
 Customizable interface  
 Trend export towards Excel

**Extended drivers range**

SOFREL  
 - S50, S500 , Sofbus-PC , Sofbus-PL, Lac- bus-RTU, SMS for S500, LS, Box, S50  
 PERAX  
 - P200, P400, P16, Perax time stamped

WIT

- TRS II

Modbus IP  
 S7 IP  
 Ethernet/IP  
 Rockwell IP  
 +100 industrial protocols

**Interoperability**

- OPC (DA/UA)
- Web services (RESTful)
- Tag access tool
- VBA

**Versatile architectures**

- Single station
- Client/Servers
- Distributed

**Mobiles solutions**

- Smart mobiles app
- HTML5 web client
- Remote access

**Safety & security**

- Windows Active Directory
- Secure connexions using HTTPS

**Central version management****Archiving**

Built-in SQLServer archiving, centralized or local Configurable historic depth Maintenance plan (export, purge...)

Universal data connector :  
 SQL bridge to connect any ADO.net providers - ERP - MES - CMMS - ...

**Recipe management**

- Embedded system of recipe management
- Development tool for the management of batches

**Traceability, performance monitoring**

- Productivity indicators (TRS, TPM...)
- Design and generation of dynamic production reports, in several format and available online
- Connection with IT, ERP, CMMS, Quality...

**Smart Generators**

Mass import configuration from third-party softwares or from external configuration platforms (PLC's platforms, CAD softwares, proprietary softwares, SCADA...)

Schneider Unity®, Siemens®, TIA portal FactoryLink, XML....

**Application Explorer**

Configuration tool "all-in-one" for the settings and the diagnosis

**Application Architect**

Modeling and generating projects

**SUCCESS STORY**

## **TOULOUSE TRAMWAY**



PcVue solution integrates centralized maintenance, signaling, automatic vehicle location system and closed circuit TV into a unified system.

The railway systems integrator Roiret Transport, subsidiary of the Vinci Group, has selected the PcVue software solution from publisher Arc Informatique to supervise the centralized technical management (CTM) of the new Toulouse tramway. After the Lyon tramway and the Singapore and Santiago (Chile) undergrounds, it is the thirtieth urban system to opt for this solution. Every day PcVue manages the information necessary for the transportation of more than 10 million passengers around the world.

PcVue is a centralized supervision (SCADA) software with an installed base of more than 38,000 licenses around the world.

In its railway version it is used to supervise the CTM (centralized technical management) equipment, i.e. the trackside equipment of the network.

This equipment includes electricity substations, stations (ticketing, traveler information terminals, etc.), intercom, CCTV, and sometimes even the track signaling systems. In practical terms, if a ticket machine is faulty, for example, the software sends an alarm to the operator in the central control room so that the most appropriate corrective action can be taken.

In the case of the Toulouse tramway, PcVue will interface with some thirty controllers (including one for each of the 18 stations). The software manages 15,000 to 20,000 information items in real time. It can also run applications handling larger volumes, with up to several hundred thousand managed variables.

“We first appreciated the ability of Arc Informatique to develop specific protocols, particularly for the CCTV. This enables us to interface with the network supervision PCs that have business protocols and thus ensure the continuity of the installation. Next, PcVue provides a VCR function which records the events. For example, if an incident occurs at a junction, the entire scenario leading up to the incident can be played back. Lastly, the IntraVue module enables PcVue to supervise and integrate equipment such as the CCTV cameras directly

on a TCP/IP network. It is no longer necessary to use a dedicated PC for each type of equipment.” said Mr. Clarenne, Business Manager at Roiret Transport.

In a central control room there is usually a computer work station for the signaling, another for the CTM, and yet another for the AVLS (automatic vehicle location system).

The standout feature of PcVue is that it can integrate everything. Signaling functions can be included on the CTM screen. In this case, with only two screens, the operator supervises the CCTV, the intercom with the trains or the stations, etc.

PcVue also provides native management of multi-screen displays and video walls. Animated graphics managing the combinations required for object coloring are supplied in the form of libraries (track circuits, switches, signals, etc.).

Development kits are available as standard for interfacing with third-party applications (train tracking, space-time plots, etc.).

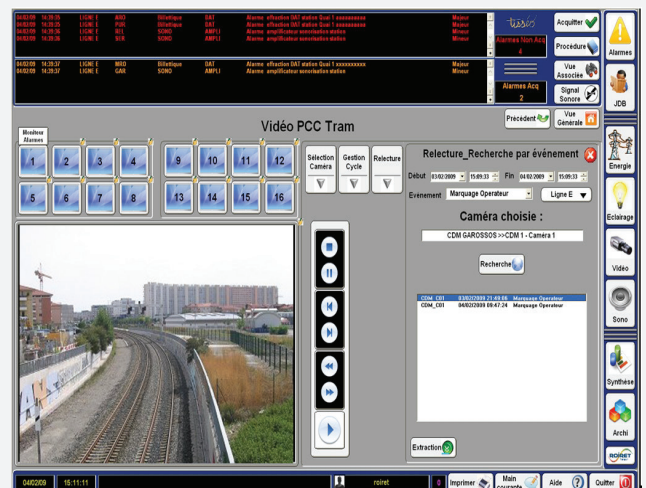


## » SUCCESS KEYS

- ✔ Interface with some thirty controllers and manage 15,000 to 20,000 information items in real time
- ✔ Integrate signaling functions on the CTM screen
- ✔ Interface with the network supervision PCs that have business protocols and thus ensure continuity
- ✔ Native management of multi-screen displays and video walls

## » RESULTS

- ✔ PcVue provides integrated CTM and CCTV supervision
- ✔ PcVue’s VCR function records the events in the system
- ✔ PcVue manages the industrial TCP/IP network for reliability and performance



## OPEN CONNECTIVITY SCADA SOFTWARE PLATFORM

In business for over 40 years, ARC Informatique is a forward-thinking industrial software editor with 16 offices worldwide. Using the latest technologies, ARC Informatique develops PcVue, a reliable, secure, and robust SCADA platform, dedicated to monitoring and control applications.

To answer the need of optimal efficiency, maximum security, and timely passenger service, PcVue has a long and varied track record in providing automated solutions for the transportation industry. Through PcVue's rich development environment, integration of video, audio, fire, security, and infrastructure automation, transport system operators can have complete control over all aspects of their operations, including compliance with international regulations.

With 160+ dynamic team members, we are both physically very close and culturally compatible with our user base, thereby facilitating responsive customer care. ARC Informatique is certified ISO 9001, ISO 14001, ISO 27001, IEC 62443, ensuring quality, compliance and secure processes.



### A CUSTOMER-ORIENTED APPROACH

Listen to and answer our customers develop and adapt our solutions via R&D responsive technical support.

**GLOBAL PLAYER  
LOCAL APPROACH**

**16**  
STRATEGIC  
BASES

**50+**  
VAR  
WORLDWIDE

**200+**  
LOCAL SI  
PARTNERS



**CONTINUOUS QUALITY  
IMPROVEMENT**





Solutions for  
Transportation

Trains,  
Metros,  
Tramways,  
Buses,  
Ships

**ARC Informatique**

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🌐 [www.pcvue.com](http://www.pcvue.com)



ARC Informatique is ISO 9001,  
ISO 14001 and 27001 certified