

INDUSTRIAL AUTOMATION SOFTWARE

**progea** 



**Solutions and products**  
An ecosystem of SCADA/HMI/MES  
software technology



# Progea: passion for innovation

## Constant growth

Progea is the Italian company, amidst international automation software platform producers, with its philosophy founded on dynamic evolution. The group, with headquarters based in Modena, has been designing and producing industrial automation software for 30 years, with a constant growth in turnover and profits and expanding international presence.

Today, Progea employs over 50 personnel throughout its Modena HQ, regional branches in Rome, Milan and Vicenza, a technical office in Chiusa (Bolzano) and branches in Germany, the United States and Switzerland from where the international distribution is coordinated, with over 45 distributors worldwide. Progea has successfully balanced its constant growth, while keeping its passion for innovation strong.

## International Player

Player in a fast-evolving automation software arena, Progea has earned its share of the market not only on the merit of its product technology, but also for the quality support and services that it strongly believes are essential components to any product. When these components are not provided throughout the product's life cycle, either because they are unavailable or poorly managed, the consequences for the customer, in terms of indirect costs, could become very high. The company has gained important ground in both the Italian and International markets for its professionalism in handling its global network of distributors and establishing international partnerships with major companies such as: Phoenix Contact, ABB, ASEM, Panasonic, VIPA, Forbes Marshall, Suetron, Omron to name a few. Progea's software has proved to be the cutting edge of advanced technology that has become the state-of-art in SCADA/HMI/MES platforms.

## The Team

A dynamic company, an enthusiastic management and highly motivated team are the pillars of Progea's success, a company that has innovation in its DNA. What makes Progea special is its capacity to work as a team. All those who work for Progea participate together in the Movicon™ project with dedication and enthusiasm. Group harmony facilitates information sharing that enables product integration at a high level. The enthusiasm that the team have for their work is reflected in the resulting product quality that greatly benefits customers and partners. The company is efficiently organized to design, support and promote one of the most innovative SCADA/HMI/MES software on the international market, in the best way possible.

## Accreditations

Progea belongs to the Microsoft Certified Professional program and is an active OPC Foundation member contributing to the definition of the specifications. To demonstrate their commitment to research, Progea has been accredited as research laboratory by the Italian Ministry of Education, University and Research (MUIR). Research and innovation are at the forefront of the company's philosophy.

## System Quality

The company operates in conformance with the quality management system requirements according to the UNI-EN ISO 9001 norm. The Quality System is certified by TÜV Sud.

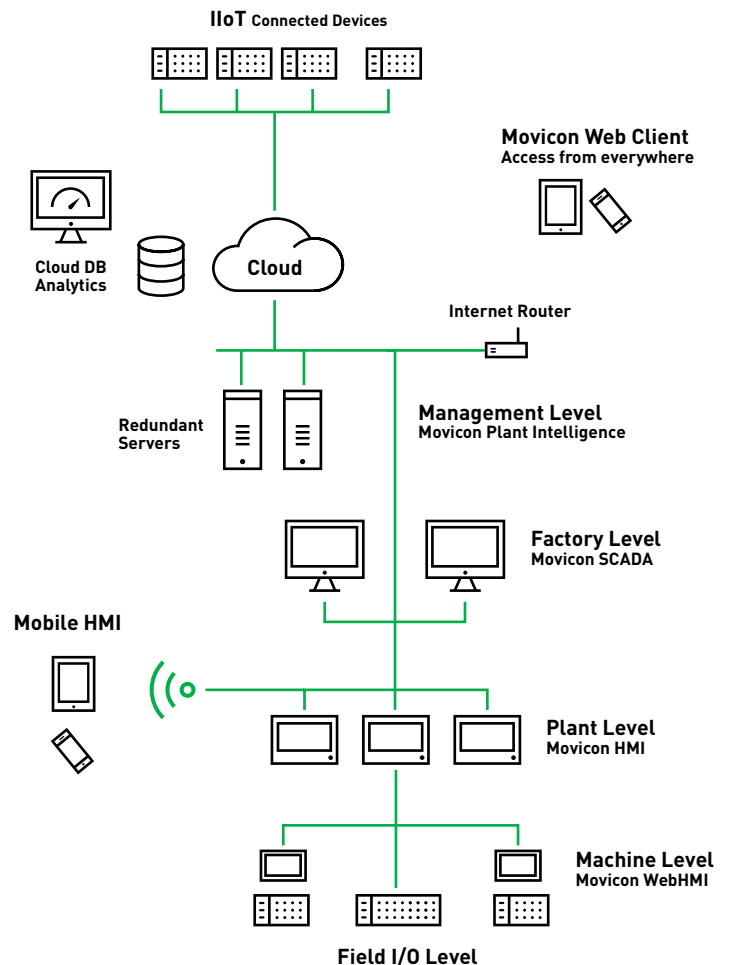




# Open and flexible software solutions

Innovation and quality, creativity and excellence in software technology development, customer management and car, sales and services.

Flexibility is a key necessity in modern automation. Being flexible means being quick to adapt to customer demands without sacrificing the achieved work and know-how. Progea's suite of software products has been designed with this in mind, to offer the best guarantee to protect customer investments. This suite of software products allows users to install only one technology capable of satisfying every automation application from the local control level (PLC, HMI) right through the SCADA and Plant Intelligence levels. Progea's software solutions have been designed to adapt to all modern automation application types, according to Industry 4.0 guidelines, in order to offer innovative and sophisticated architecture with flexibility and ease-of-use oriented approach. These are the key characteristics that determine cost reductions, and which are featured intrinsically in Progea's all-inclusive connectivity, visualization and control software technology. This one all-inclusive software is all your company will ever need for every business and productivity requirement allowing you to save in terms of learning cycle, timely updates and personnel training.





# SCADA/HMI/MES software platform for all automation and remote monitoring sectors

## Movicon.next™

The latest generation industrial automation software technology.  
Powerful, scalable, modular, open. Based on .NET, WPF and OPC UA.

Progea has been operating in the world of industrial supervision for more than 30 years by offering customers their exceptional know-how and cutting edge software products. Movicon™ is a new generation SCADA/HMI/MES software platform with over 150,000 applications used in all automation sectors worldwide. The new platform uses the Automation Platform.NExT™ technology with OPC UA-based .NET framework, representing the state-of-art in industrial software applications.

The modularity and flexibility of this system will empower users with the most innovative technology for an ecosystem of applications that spans from SCADA supervision, to HMI solutions, GeoSCADA remote monitoring and control. Movicon™ is the ideal product to use for creating innovative, open and flexible supervision solutions designed to adapt to all modern automation application types and needs, offering a sophisticated while flexible and easy to use platform.

Ultimately, Movicon™ is a very easy -to-use and open SCADA/HMI/MES platform based on modular and standard technology. The new generation product has an infrastructure designed for industrial deployment using the OPC UA model in a Client/Server architecture with .NET and plug-in technology.

Movicon™ provides design engineers with all the tools they will need to quickly create powerful visualization and control applications Supporting web HTML5 as well, by using the most innovative technologies to connect to any measuring and control device, as required by Industry 4.0 and using IIoT gateway functions.

The graphical interface uses a new WPF/XAML vector rendering engine with 3D support and graphic libraries with thousands of symbols and objects. The Historian and Data Loggers record data on a SQL Database or Cloud. The Multi-server Redundancy function ensures maximum reliability 24/7 in mission critical applications. Security is ensured with a membership-based User Management Integrated Logic, and many other features are provided to satisfy any automation need.

Choosing a SCADA software technology is a strategic decision not only based on how innovative, powerful, open, simple or flexible the software is but also on the quality of the related services and the reliability of the software producer company. These are important and crucial factors that must be considered when investing in a software product for long-term deployment. Movicon™ is the best choice of today's SCADA/HMI/MES products.





# SCADA/HMI for Smart Buildings



Progea offers effective solutions for smart building supervision based on experience in SCADA/HMI and control software technology.

Movicon™ Building Automation (BA) is the special edition of Movicon™ that offers to those who operate in building automation the big advantage of having an open software technology that integrates all modern automation and communication subsystems in one supervision platform: a technology that can be applied to all building types, such as in the service, residential, infrastructure and public building sector. Movicon™ BA offers all the advantages of open and flexible solutions, thanks to Progea's vast experience gained over the many years operating in the automation sector. This experience allows Progea to operate efficiently to deliver that satisfy all the current needs of system integrators operating in the Building Automation sector. The SCADA technology used in Movicon™ BA offers a standard and open solution to integrate and visualize technological systems used in smart buildings, such as HVAC, air conditioning, illumination, fire and burglar alarms, security, remote video cameras and CCTV, energy management and any other system that is used in building automation. This is done by tracking the functional parameters and enabling supervision and control of all systems over the Web.

The growing demand for powerful and open solutions for Smart Buildings, Building and Residential Automation has driven Progea to create a special software product edition for this market. Movicon™ BA has been designed especially for the world of Building Management System (BMS), and can make your building supervision more powerful, open and scalable than any other product offered on the market today. Movicon™ BA is the ideal solution for those who wish to integrate automation technology, such as PLC systems or IIoT data collection, in their smart building supervision systems. Progea is an expert in supervision and control system software (SCADA/HMI), and has designed Movicon™ BA to offer users the advantages of an open software for the integration and visualization of modern building automation systems, whether they be residential, industrial, big community centers or in the service sector. Movicon™ BA offers flexible solutions that allow users to create Client/Server architectures, HMI systems, data collection and analysis systems with SQL database, Web-enabled accessibility, on-call personnel rotation management, maintenance management and much more. The great experience gained throughout many years of success allows Progea to deliver solutions that can satisfy every need of those who wish to create integrated systems using a unique comprehensive, powerful, flexible and open visualization and control software.



# MES platform software to increase industrial productivity



The MES solution to improve productivity efficiency with OEE, KPI and Downtime. Manages traceability, scheduling and maintenance.

The manufacturing industry, operating within an Industry 4.0 context, needs to be able to obtain efficiency and real-time information so that they can identify and remove the causes of downtime to increase productivity. In order to do this, Progea offers Pro.Lean© as easy and quick solution to collecting and recording production data on DB (SQL Server™) and to examine the deviations between theoretical and actual production effectiveness. This is done by measuring the productivity indicators and analyzing the causes of inefficiency. Once the KPI (Availability, Performance and Quality) have been measured and the Overall Equipment Effectiveness (OEE), together with the Downtime causes, have been made evident, ways of removing any inefficiency detected can be then sought and put into action immediately. Progea's

solution is very effective and affordable and allows you to know what is causing performance inefficiency so that you can remove them and improve your productivity. Pro.Lean© is a functional module from Progea's Platform. NExT™ technology and is offered as a solution targeted at Plant Intelligence based on open, modular and flexible architecture. This module is an integral part of the Movicon. NExT™ suite. It comes with a wizard to configure analysis systems, within a few clicks, to aggregate real-time plant data on a SQL Server™ database. Ready-to-use dashboards and HMI panels, along with analytical Reports have been provided to display data, with web-enabled access as well.





## Software for monitoring and analyzing energy consumptions



The all-inclusive scalable solution for monitoring energy consumptions and costs, alarm management and load control.

Today, the introduction of energy management systems is fast becoming increasingly important to reach energy saving targets, by making energy consumption more efficient and reduce its impact on the company operating costs. This can easily be done by using Pro.Energy®, an effective software solution offered by Progea and designed to provide analysis tools to optimize energy usage, gain significant financial returns and cause less negative impact on the environment. Measuring the entire company's Energy Performance Indicators (EnPIs) to eliminate waste, thus reduce consumption and optimize resources, is the correct company strategy to gain sustainable savings on costs and increase competitiveness.

Pro.Energy® is an integral module of the Movicon.NExT™ suite and includes a wizard for one-click configuration to enable 24/7 monitoring of Electricity, Gas, Water, Compressed Air, Vapor and other energy usage costs. All consumption data is recorded on a SQL Server™ and real-time analysis and notification tools are provided, also via web access, to improve energy efficiency and increase competitiveness. Pro.Energy® is essential for every company that needs certification in conformance with the UNI EN ISO 50001 standard.



## WebHMI with 100% web technology

# Movicon WEBHMI

Movicon WebHMI is the solution for running Movicon.NExT projects with Web technology offering an I/O Data Server and Web Server that are hardware and operating system-independent for powerful and scalable HMI visualization.

Automation design engineers now have a greater need to work with scalable software platforms that can adapt to any project need, to satisfy the demands of the world of modern 4.0 automation.

Movicon.NExT™ is the software platform that fulfills that need by offering the most scalable platform available on the market today. A software platform that is capable of creating and distributing SCADA, MES, HMI and WebHMI® projects using the one same platform. The arrival of WebHMI® extends the field of the platform's deployment to HMI solutions based on 100% Web technology that ensures unprecedented flexibility and scalability. Movicon.NExT™ projects, based on the .NET and WPF technology, now offer support to the .NET CORE technology, so that they can be run in Linux, Windows, iMac architectures or minimal hardware such as Raspberry Pi. This characteristic makes the Movicon.NExT™ platform an essential tool for all those who operate in the world of automation and who often

work with complex projects distributed across small data collection and IIoT applications, small WebHMI, very complex HMI systems, SCADA applications, factory supervision systems, production analysis and management, by interfacing any type of control device and industrial networks. The Movicon.NExT™ WebHMI® technology allows you to reach unprecedented levels of scalability, to offer an hardware and operating system independent solution that meets all data collection and visualization needs at entry level and facilitates project portability to more powerful SCADA architectures as the company grows.





# Augmented Reality HMI



Progea is one of the first companies to offer new human-machine interaction concepts using augmented reality wearable devices

## Augmented Reality HMI

Technology evolves rapidly and therefore the concepts of HMI also evolve in unison with technology. Today augmented reality is much talked about and is beginning to have an impact in the industrial world. In compliance with its philosophy for innovation, Progea has started developing Augmented Reality solutions for HMI, by experimenting with wearable devices of the latest generation such as smart glasses and HoloLens. By means of using wearable Augmented Reality devices, Progea is convinced that operators will benefit by this new human-machine interaction experience, to further simplify process management and obtain real-time information relating to the context in which the operator is working. After successful testing, Progea now offers wearable smart glass devices based on Android and the latest generation of the HoloLens based on Windows 10. The Apps for wearable devices are components from the Movicon.NEX<sup>TM</sup> technology ecosystem, that connect as Clients and interact and assist operators with a real-time information available from the Movicon.NEX<sup>TM</sup> supervisory server.

## Cognitive Augmented Reality

Progea's new Augmented Reality HMI technology also offers solutions based on the most innovative Artificial Intelligence technology, to recognize elements or parts of the plant in the field, by using a video camera to automatically display freely configurable Movicon WebHMI<sup>®</sup> project windows containing the corresponding contextual information. In this way, the operator can instantly obtain all the contextual information they need and interact with it accordingly. This innovative Progea technology is supported on any mobile device that has a video camera and HTML5 browser and makes the complex plants easier to manage. The operator, or maintenance personnel, can instantly access the essential information they need to run the system more efficiently and make on the spot productivity improvements when needed. Progea's solutions for Augmented Reality operator interfaces will transform your monitoring system to a higher level, with minimum investment.



# OPC UA Connectivity, IIoT Gateway

## Connex<sup>®</sup>t

The scalable and flexible industrial I/O Data communication Server.  
OPC UA Server, IIoT Gateway, from Windows systems to embedded Linux.

Progea's vast experience and know-how in industrial communication protocols and the OPC UA technology have resulted in offering their latest Connex<sup>®</sup>t Communication Server, the new generation OPC UA Server software, to provide an all-inclusive data source for all your application needs. Connex<sup>®</sup>t is a powerful I/O Data Server to provide companies with seamless and effortless connectivity towards different types of field devices in the automation, infrastructure and process control sectors. The Server offers a great number of communication protocols and facilitated configuration to manage data collection systems capable of connecting to any enterprise-wide system using the OPC UA technology standard. In the .NET Core version, Connex<sup>®</sup>t also supports embedded Linux-based hardware, such as Raspberry PI, and consents to creating powerful IIoT gateways to connect field data with remote plants, remote managerial systems and Cloud.

The Server not only enables interconnections but also manages data recording with Data Loggers on local or remote database that include SQL Server and Azure. It supports complex and mission critical system with the Redundancy management. It also saves time by automatically importing Tags from devices. Connex<sup>®</sup>t empowers you with the best connectivity technology to create Industry 4.0-ready solutions, effortlessly and securely collect and publish data on the Cloud, manage business information flows towards ERP/MES business managerial systems, or simply connect field devices to your software applications.



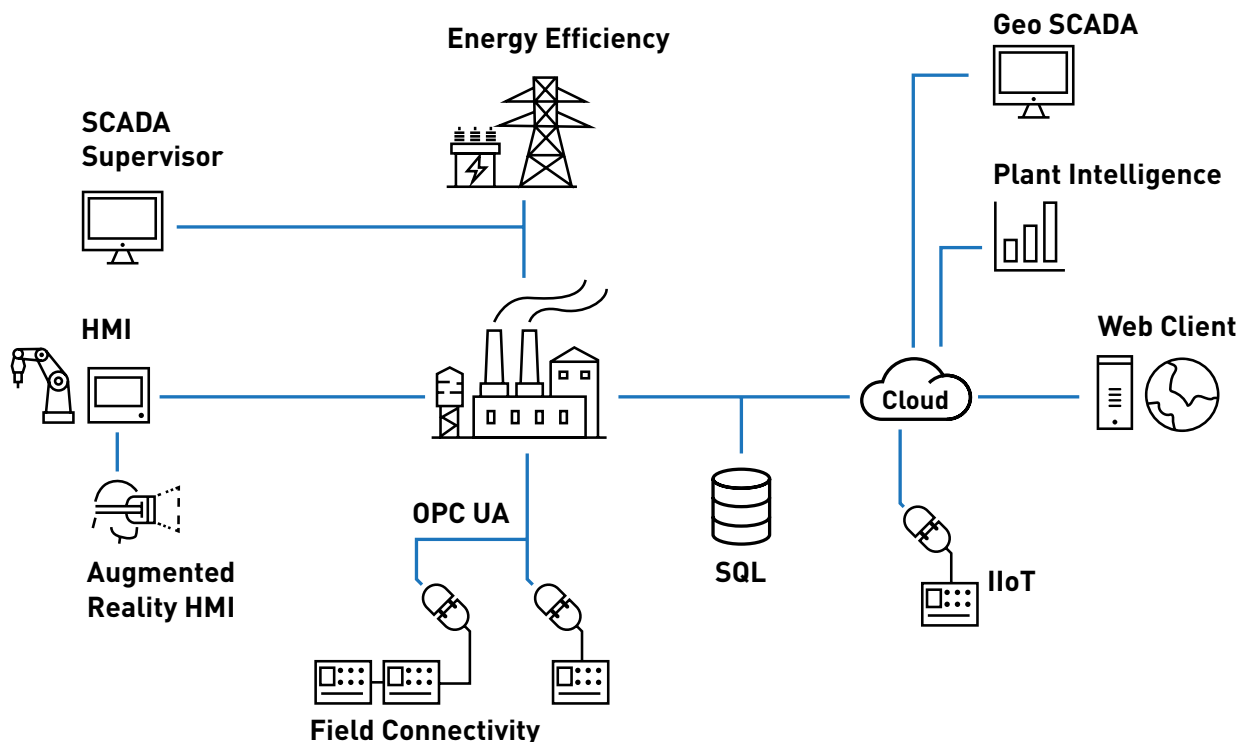


# Excellence in software technology for every automation sector

## Products based on cutting-edge software technology to guarantee powerful, open, flexible and reliable solutions.

Progea's technology platforms are the results of intense and thorough research in software ergonomics, to make their products pleasant and easy to use. Progea's software surpass any other product for ease-of-use and intuitiveness, thanks to the Intelligent Editor, integrated auto-configuration tools and Tag importing. Development times are drastically reduced by having all the necessary tools and features available in the one same environment for any size of project, with maximum information integration and transparency. By using Progea's

software, design engineering becomes a great pleasure. Effective results and great visual impact are guaranteed in next-to-no-time while protecting your investment. The latest generation of technology, guaranteed quality and support services targeted at customer satisfaction, together with modular price structure to adapt to your every need, will inevitably make your choice in using Progea a long-term winner.





**Passion for innovation**