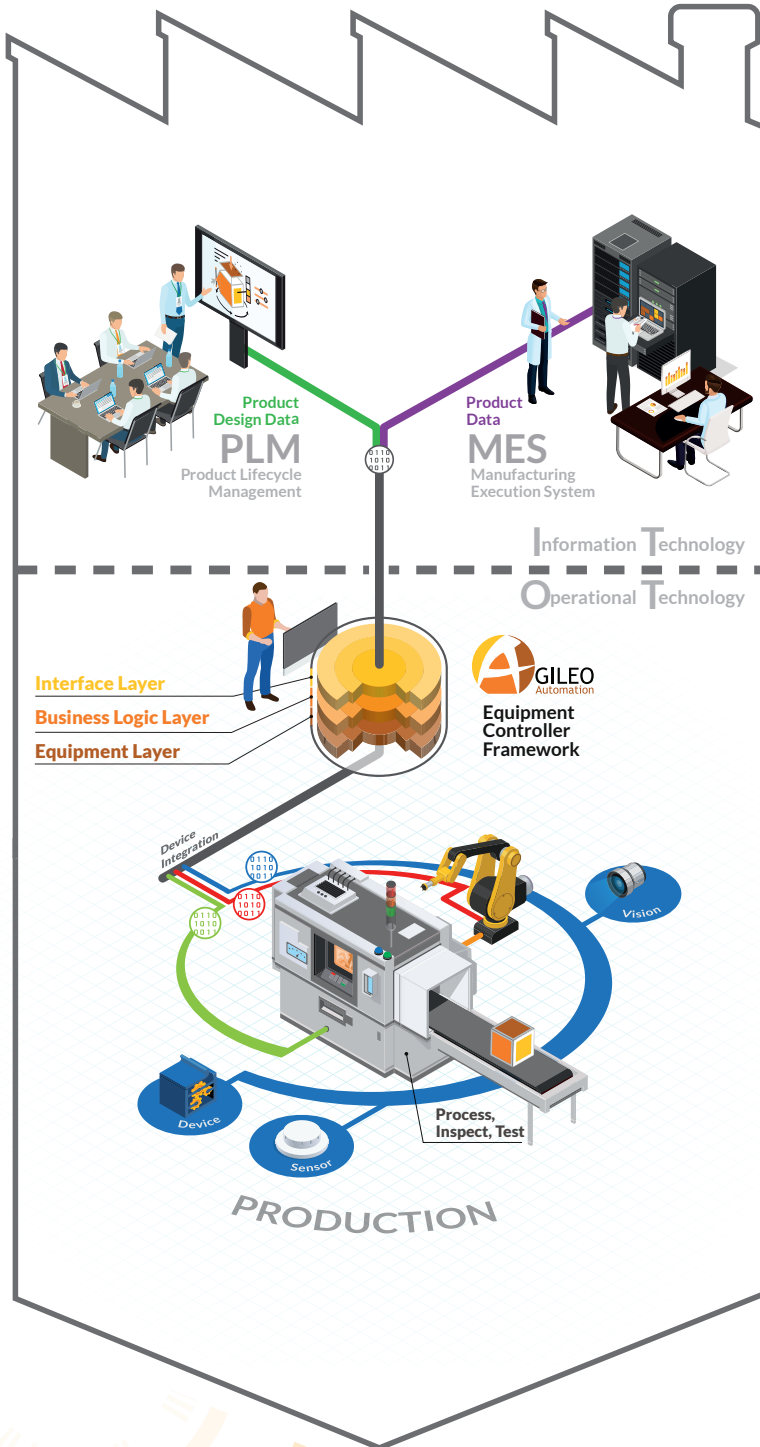


Software framework to control automated and robotized production tools and connect them to the factory.



## Develop control applications for your production tools

- › Connect your tools, your PLC, your electronic boards
- › Integrate a loading robot or one participating into the process
- › Integrate peripheral devices (vision, measurement, RFID readers,...)
- › Propose a unique and professional graphical user interface
- › Integrate your workflows and your business logic.

## Connect your machines to the IT of the factory

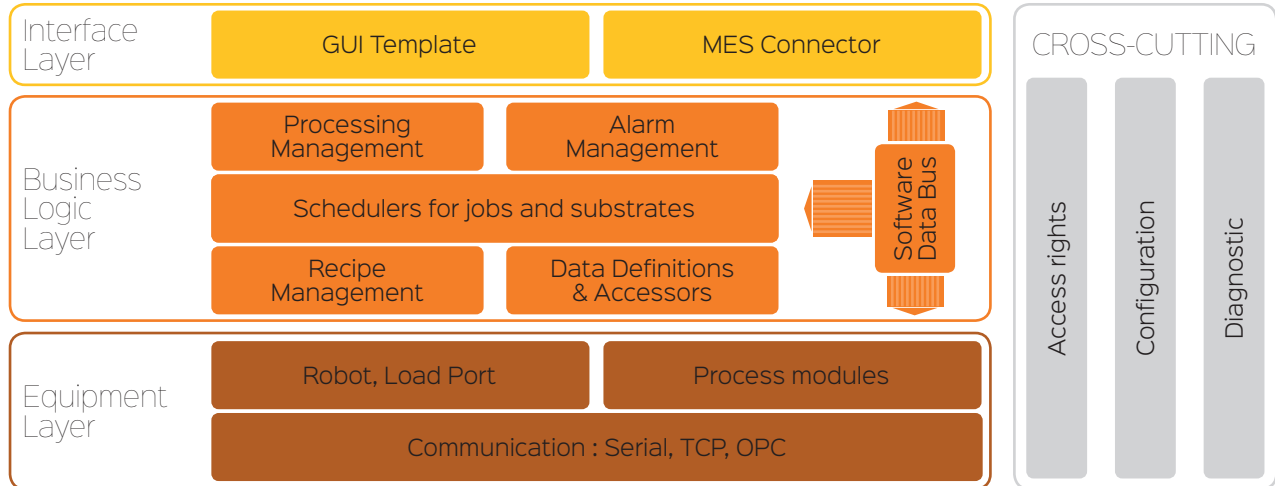
- › Produce and Control directly from the digital design
- › Measure the process
- › Trace products.

## Increase your productivity and your reactivity

- › Simulate your tool before mechanical assembling
- › Assess your tool performance
- › Diagnose failures remotely
- › Capitalize on your developments
- › Develop your tool software based on a field proven architecture
- › Reduce your time to market.

**A<sup>2</sup>ECF is an object oriented software framework, entirely written in C#. It is based on a layers architecture including :**

- # the interface for the operator and the maintenance as well as the connexion with the factory MES
- # management components of the business logic
- # components for equipment management
- # transverse functions



### A wide panel of supported equipment

- Already integrated robots : Stäubli, Kuka, Fanuc, Denso.
- Ability to control robots in streaming of points.
- Cognex vision system support with images archiving.
- Solution is open to new hardware.
- A device model facilitating the integration of new equipment.
- Automatic generation of the graphic interface for manual mode from the device API.
- Modbus/TCP support.
- OPC-DA support (OPC-UA coming soon, Agileo Automation is an OPC Foundation member).

### Rapid and professional user interface

- Graphical user interface model based on industry standards.
- Users management with access rights.
- Multilanguage support according to the needs.
- Customizable styles according to your corporate standards.
- More than 200 industrial graphic components (Emergency stop, indicator,...).

### Documented product

- SDK with component documentation.
- Integration samples provided for components.
- Possibility to organize trainings.

### Create your business logic based on models

- Customizable schedulers with graphical representation based on State Machines.
- State Machines directly editable in Visual Studio.
- Alarm management and historization.
- Message Data Bus in order to easily link process variables to graphic controls without coding.

### Based on widely spread technologies

- OS 32 bits and 64 bits Windows® support.
- Solution fully integrated in Microsoft Visual Studio.NET® environment, no need for external tools or compilers.
- C# language: more efficient than C or C++ languages.
- Many skilled developers available.

### Designed for maintenance

- Problems reporting directly from the interface in order to generate archives describing the problem.
- Standardization of hardware simulation to enable software testability and improve maintainability.
- Equipment Performance Analyzer: Reliability, Availability, Failure rate, Cycle time.