

## PROCESS PLANT AUTOMATION

# AU2PLANT

## PLANT DIGITALISATION SOFTWARE

- Increase of plant functionality and performance
- Provides uniform functionality / operator interface across the factory independent of machine supplier
- Reduced cost for control software
- Reduction of time and cost spent during software commissioning
- Includes modules for seamless MES/ERP integration

### SOFTWARE FRAMEWORK

Au2plant forms a solid PLC, HMI, and SCADA software package, holding the basic software modules, screen navigation, methodologies, and the procedures to secure an excellent baseline application for the customer's automation projects.

The framework is suitable for green field plants as well as for project upgrades and offers a significant reduction of time and cost spent during software development and commissioning.

Au2plant is embedding the complete knowledge and best practise from the dairy industry through Au2mate's many years of experience within the dairy business.

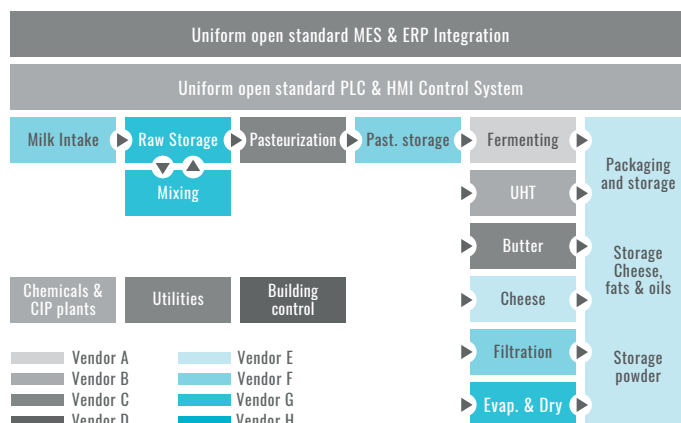
### PROCESS SOFTWARE LIBRARY

Au2plant enables seamless integration with the Au2mate process software library which includes all major plant processes, e.g. CIP, pasteurisation, mixing, tank control, transfer lines as well as associated traceability, operator dialogue and reporting.

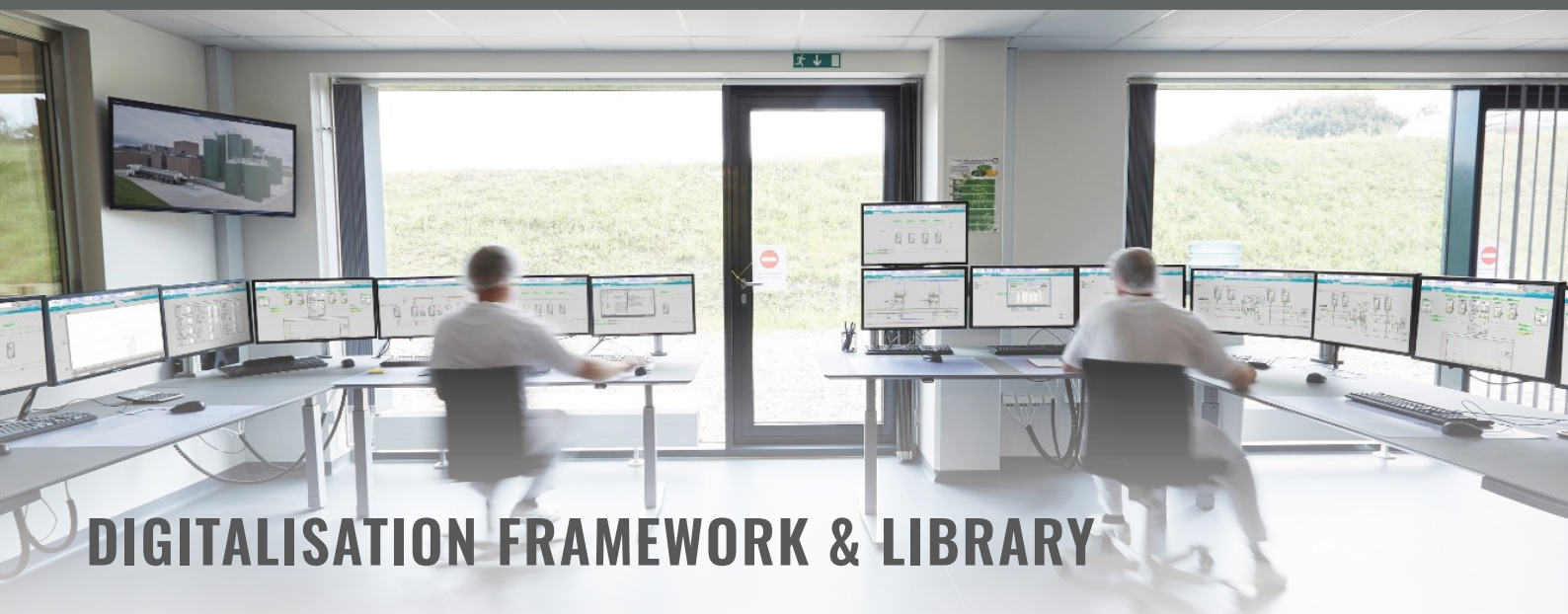
### CUSTOMER OWNED FRAMEWORK

Au2plant is a customer owned, and customised framework which ensures a uniform plant functionality and operator interface across the factory independent of machine supplier.

The customer owned framework and the process software library are designed as plant wide automation solutions based upon open systems, a future-proof investment and encapsulating the knowledge and best practise applied in the process industry.



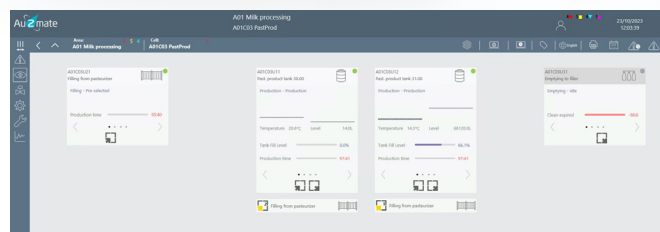
Library framework



# DIGITALISATION FRAMEWORK & LIBRARY

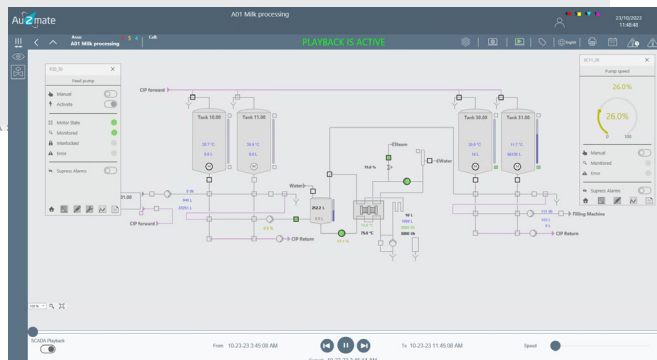
## AU2PLANT - SCADA:

- Standard layout for top bar and menus
- Standard alarm system and access control
- Advanced filtering and search functions
- Playback functionality
- Multiple language support
- Multi-screen support
- Templates for visualisation and control of plant components (valves, motors etc.)
- Standard interface for material and order handling
- Standard modules for data collection to production database



## AU2PLANT – PLC:

- Control modules for control of plant components
- Standard data structure for interface to MES and event driven data collection
- Basic functions (communication, sync. of time etc.)
- Structured control language in all modules
- Object oriented software structure for flexible maintenance and development



## AUTOMATION FRAMEWORK AND DAIRY LIBRARY LANDSCAPE:

	Level 1 Automation System (PLC)					Level 2 Supervision and Control (SCADA/HMI)			
Units	Pasturizer unit control	Tank unit control	Transfer lines unit control	CIP unit control		Pasturizer unit control Faceplate/Object	Tank unit control Faceplate/Object	Transfer line unit control Faceplate/Object	CIP unit control Faceplate/Object
Equipment modules	Pasturizer equipment modules	Tank control equipment modules	CIP control equipment modules	PLC event & recipe handling blocks		Pasturizer equipment Faceplate/Object	Tank control equipment Faceplate/Object	CIP equipment Faceplate/Object	IAS event & recipe handling blocks
Control modules	PLC control module blocks					OMI control module symbols & faceplates	IAS control module objects		
Basis system	Inter PLC communication blocks	PLC basis blocks (Incl. Timesync.)				OMI standard screen layout (top bar ect.)	OMI standard access control setup		