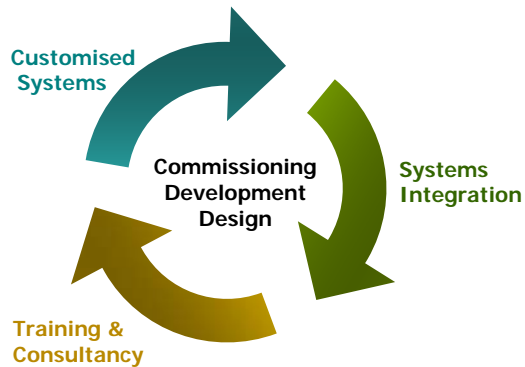


Company Profile:

Aicsys offer a wide range of custom and third party Reporting and Automation Information products and services to a varied manufacturing client base. Providing you with the experience and knowledge necessary to integrate your plants' automation and IT systems in order to deliver the best data driven solution to meet your exact business needs.



Harness the power of your plant's data by integrating your new or existing Data Acquisition Systems, ERP, MRP and Control Systems.

Working to the highest GAMP standards Aicsys will automate your plants control system information to improve Operating Efficiencies, Reduce Process Downtime and add greater transparency to your manufacturing processes, providing you with an instant return on your investment.

Why Choose Aicsys ?

Vendor independence

No expensive license costs

No client installations

- The Aicsys suite of Web based products provides you with the power of OE (Process Cycle Time Analysis), OEE (Overall Equipment Efficiency), Batching (Production Analysis), Material Tracing (Batch Genealogy) and Reporting without the need for third party products.
- Our applications can extract real-time data from your plants' automation systems to your Enterprise desktop for immediate analysis of mission critical data, thus providing you with the power to make the right decisions in real-time.
- We also provide and integrate custom applications into the leading data historians used for in-depth process analysis such as OSI PI, Aspentech IP21 and iHistorian. Our systems can be integrated with your existing systems to harness the power of your plants' data.
- Aicsys applications also have the power to integrate with the leading Automation control systems including Siemens (PCS7, WinCC, S7), Emerson Delta V, GE iFIX, ABB, Rockwell (RSVIEW and AB Controllers) and many more.
- Our broad range of knowledge means that we have the right solution to meet your individual requirements. We have hands-on experience of the manufacturing Industry in Ireland, Europe and the USA. We have worked across many sectors including; Biopharma, Beverage, Brewing, Dairy, Food Processing, Pharma and HSM.



Pharma

BioPharma

Brewing

Dairy

Beverage

HSM

Customised Systems:

MES:

Our MES solutions are designed to meet the demanding needs of your business. We can integrate our solutions with your new or existing Data Acquisition Systems. Some of the modules comprising our MES system include:

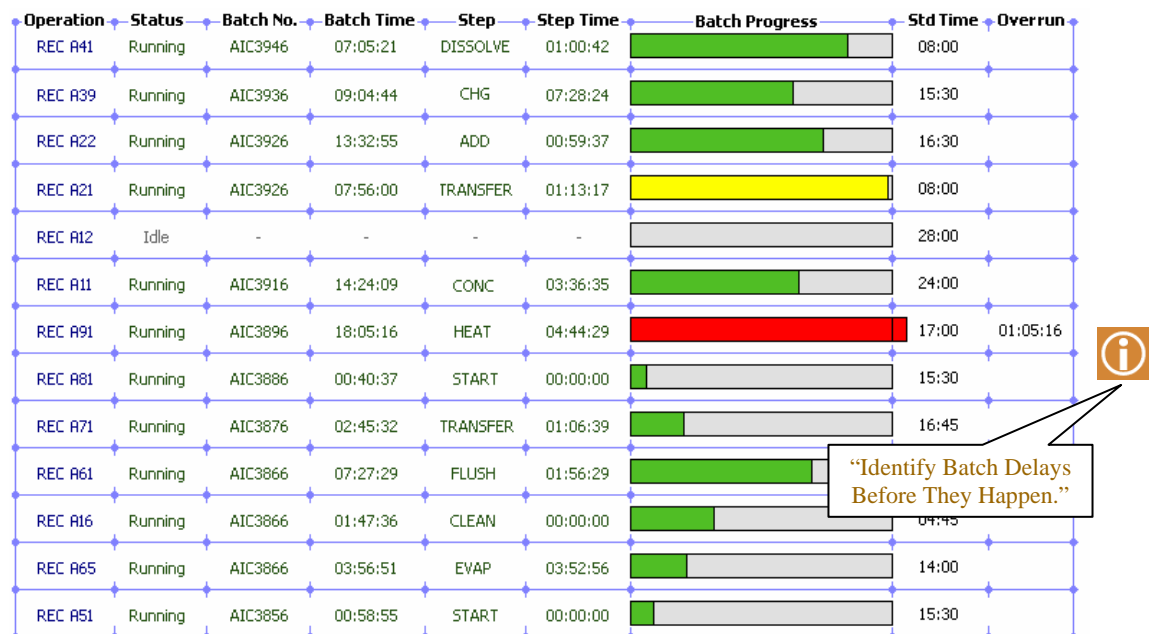
- Batch Scheduling
- Recipe Management
- Electronic Batch Recording
- Equipment Tracking (Bar Coding / RFID)
- Training and Skill Tracking
- Warehouse Management

MIS:

Our MIS solutions provide prompt and accurate information about your plant and processes direct to your desktop, including:

- Real-Time Batch Tracking
- Equipment & Energy Usage Reports
- Downtime Analysis
- Batch Comparison
- KPI's (Key Process Indicators)
- CPP's (Critical Process Parameters)

Example - Real-Time Batch Monitoring



Reports:

Generate automatic reports stored in secure .pdf format with versioning and print dates to track master copies thus ensuring that you always remain in compliance. Some of the customised reports we can offer include:

- Batch Reporting
- Batch Tracing / Genealogy Reports
- Product Traceability
- Shift and performance reports
- Utilities / Energy Consumption Reports

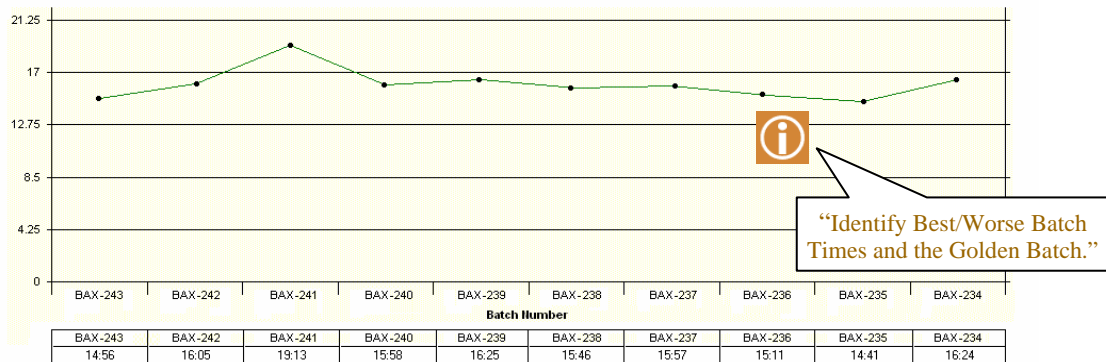
Other Products:

Aicsys also offer a wide range of custom applications to suit your business needs. Some examples of previous projects include:

- Overall Equipment Effectiveness (OEE) Applications
- Six Sigma / Operational Excellence Reports
- Environmental Reports
- Shift Handover Logs
- Electronic Event Logs
- Electronic Change Control
- Safety Comments Tracking

Example - Batch Cycle Time Comparison:

Batch Details		Batch Cycle Times										Batch Statistics		
Operation	Last Batch No.	Last Batch	Batch -2	Batch -3	Batch -4	Batch -5	Batch -6	Batch -7	Batch -8	Batch -9	Batch -10	Max Batch	Min Batch	Avg Batch
REC001	BAX-244	10:44	08:42	10:21	12:11	09:51	08:51	09:58	09:15	10:18	09:14	12:11	08:42	09:57
REC002	BAX-243	14:15	14:42	17:56	13:43	13:56	13:58	14:00	15:47	15:28	14:02	17:56	13:43	14:47
REC003	BAX-243	14:56	16:05	19:13	15:58	16:25	15:46	15:57	15:11	14:41	16:24	19:13	14:41	16:04
REC004	BAX-243	07:37	07:54	07:39	07:48	07:34	07:21	07:52	08:39	08:04	07:49	08:39	07:21	07:50
REC005	BAX-240	35:35	33:00	30:31	30:14	28:53	30:20	29:31	28:35	25:25	31:13	35:35	25:25	30:20
REC006	BAX-241	28:32	29:48	28:53	27:26	27:10	30:29	27:38	26:35	05:35	28:41	30:29	05:35	26:05
REC007	BAX-240	17:43	15:04	16:02	14:32	14:32	14:47	15:47	17:01	15:37	15:10	17:43	14:32	15:38
REC008	BAX-239	10:41	14:26	12:53	12:52	11:35	12:26	11:05	13:11	10:08	14:17	14:26	10:08	12:21
REC009	BAX-238	15:13	16:44	16:43	16:59	16:31	18:38	16:56	18:04	16:25	15:29	18:38	15:13	16:46



Systems Integration:

We can harness the power of your new or existing systems by expanding their functionality. Aicsys can build customised applications and reporting solutions that interface with your SCADA and Data Acquisition Systems (DAQ), for example; Recipe Management, Production Planning, Batch Tracing.

- DAQ: OSI PI, AspenTech IP21, iHistorian
- SCADA: WinCC, iFix, inTouch, RSView, Delta V

Training & Consultancy:

- We offer a full range of Project Management and Consultancy services for your plant to ensure you are getting the most from your systems and your service providers.
- Our Six-Sigma trained staff can offer a fresh insight into how you look at your manufacturing and business processes.
- We can also offer one-to-one or group training on Automation systems, Controls, Programming, and much more to ensure your staff understand all aspects of your plants' systems.
- Experienced engineers with a full knowledge of all our products and third party applications can carry out customer training.

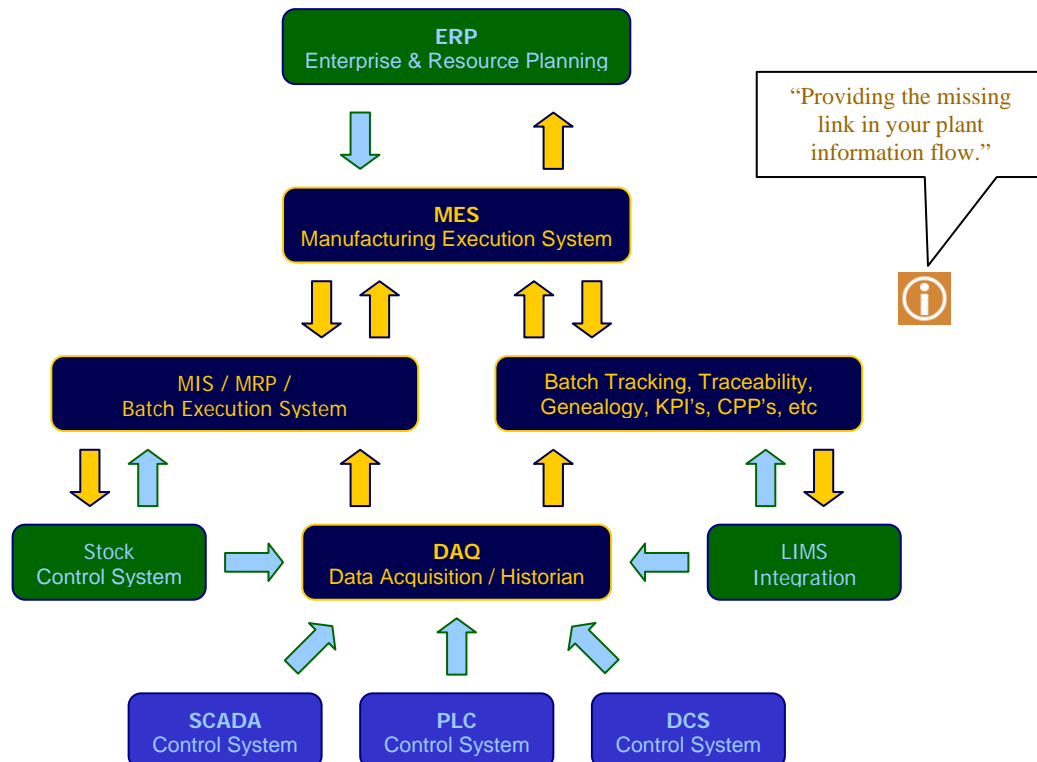
Industries:

- Bio(Pharma):** All our staff have extensive experience in the (Bio)Pharma sector and are familiar with all GMP/GAMP regulations, and S88/95 Batching Models. We have experience in API process facilities, drug substance, drug product and bulk chemical manufacture. We have worked on automation projects from green field sites to new product introductions and plant expansion projects.
- Brewing:** We have worked extensively in the brewing industry both in Ireland and numerous overseas locations, on projects involving complete plant re-automation and implementation of ERP solutions. Some of the projects we have been involved in include: SCADA system upgrades, ERP installations, Batching Systems, Integration with MIS and MRP systems.
- Dairy:** Our staff have experience in working on start-up Dairy Processing Facilities at numerous overseas locations. We have experience integrating systems used in the manufacture of dairy products for some of the leading companies across Europe. Our Traceability, Genealogy and Reporting Systems can be applied widely in the Dairy Industry.
- Food & Beverage:** We have worked on large scale projects, in Ireland and Overseas, for two of the worlds leading beverage companies. Projects have included integrating systems from SCADA level to ERP and dealing with all the data transfer interfaces.

Data Flow Model:

Integrate the plant floor Control Systems with your Enterprise and Planning Systems. Production, Batch, Laboratory and Stock Information can be made available at your desktop.

The data flow diagram shows how Aicsys fits in at the core of your operations. We have the ability to integrate your systems to provide you with the necessary information to make the correct informed business decisions.



We can offer MES, MIS, DAO and Reporting solutions to fit your exact business needs.