

**Is your organisation wanting to solve a problem or make quality/process improvements?**

**If so, ar<sup>2</sup> can help.**

With several decades of experience in manufacturing and maintenance organisations, the team at ar<sup>2</sup> have been committed in providing excellent support on a wide variety of equipment types, processes and technologies. This includes Process development and control, equipment management and maintenance, along with systems control and data acquisition.

#### **Consultancy**

In an organisation, the successful implementation, of corrective and improvement actions may be hindered by obstacles. The planning of a sound implementation process, along with continuous monitoring, will assist in overcoming these obstacles. Management of this process requires extra resources and ar<sup>2</sup> can provide these for you.

Using a proven framework we start with Analysis of the current systems, processes, environmental factors and the desired outcome of the project. This will give Realisation of what is needed to fulfil the goals, resulting in the ability to find Resolution to the project through the implementation of a plan to meet the expected outcomes. Our solutions include aspects to ensure that outcomes are maintained and potential further improvements can be identified.

#### **Systems**

ar<sup>2</sup> can design systems to suit your needs, whether written instructions and procedures, equipment or control systems to automate your processes or the gathering and analysis of data to monitor and improve utilisation.



ar<sup>2</sup>

**"From Analysis comes Realisation, and then, ability of Resolution"**



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**Understanding our Customer is the first step in understanding their requirements...**



**"From Analysis comes Realisation, and then, ability of Resolution."**



Working across a broad spectrum of industries within the fields of process and manufacturing control, and automation and data acquisition systems, our consultancy services are offered to assist Customers in determining appropriate methods of achieving their goals. All Projects that we work on are thoroughly researched and recommendations made to ensure that we provide beneficial and cost effective solutions.

**process n.** A series of actions, changes, or functions bringing about a result

## Who?

**ar<sup>2</sup>** has several decades of experience working directly in Customer oriented support environments and has been directly involved in the design, implementation and maintenance of a range of mechanical and electronic manufacturing and processing systems. We have also facilitated in the analysis of existing methods, developing suggestions, calculating cost of ownership and preparing justifications for improvements. Assistance has also been given in implementing change and evaluating outcomes. By working with the interested teams, and liaising with stakeholders and sponsors, we have been able to provide solutions that fulfil agreed goals.

**system n.** A group of interacting, interrelated, or interdependent elements forming a complex whole

## How?

The short version...

**Analysis** – of existing processes and systems, Customer requirements and environmental factors.

**Realisation** – defining what is 'actually' required to achieve the desired outcomes of the project.

**Resolution** – the course of action determined to complete the project

**design n.** To create for a particular purpose or effect

The longer version...

**analysis n.** The study of such constituent parts and their interrelationships in making up a whole

**realisation n.** Coming to understand something clearly and distinctly

**resolution n.** A course of action determined or decided on

Using a Customer oriented approach, Analysis is carried out of factors that will influence the project, i.e. existing processes and systems, Customer requirements, desired outcomes, competition, legislation etc. This will give Realisation of what is needed to meet these desired outcomes. The developmental phase gives us the ability of Resolution to the project with an implementation plan and methods of maintaining and identifying where further improvements could be made.

In some cases, we have come to the conclusion that procedural changes are all that have been required to bring about the desired outcomes. In others, hardware changes were implemented. There have been instances where we have shown that implementation of monitoring systems, to ensure that maximum use and efficiency is made of the available resources, was the best resolution.



## Systems Design

To solve most problems, some form of Systems Design is needed, whether procedural, electro/mechanical or otherwise. This must be done with due consideration to many factors, not least Customer requirements, safety, reliability and cost effectiveness.

Whether it be procedures, fully automatic control and data acquisition systems, or any combination in between, **ar<sup>2</sup>** has the experience, ability and resources to design and implement the solutions you require. We also place great emphasis on monitoring of results so that our Customers can see that the required outcomes are achieved, and identifying areas for further improvement. We design our systems with flexibility in mind so that should future plans for expansion or enhancement be proposed, they can be easily integrated.

All of our work can be done as a single project or staged over a period of time so enabling implementation to be carried out in line with existing business plans.

**ability n.** The quality of being able to do something

**ar<sup>2</sup>** and its network of expert resources cover many specialisations. One of our strengths is in ensuring that we utilise the best sources available for the project in hand.

**ar<sup>2</sup> does not have a 'single' product, but many specifically designed to fulfil individual Customer requirements.**

Some examples of what we can achieve...

- intelligent data gathering
- sub-system interfaces
- connection with existing LAN network
- interfacing to other data and equipment systems
- collection of Statistical Process Control data
- continuous trend display on factory floor
- remote viewing of information (LAN or WAN)
- remote signalling (email, SMS)
- automation of manually controlled systems
- replacement of obsolete control systems