# Applied technology vs. training or Evolution of training and culture



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## About 40 years ago



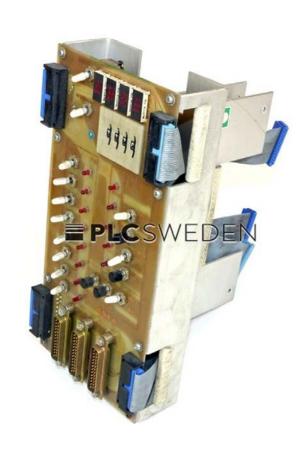


# The grandfather of todays Data Acquisition tools



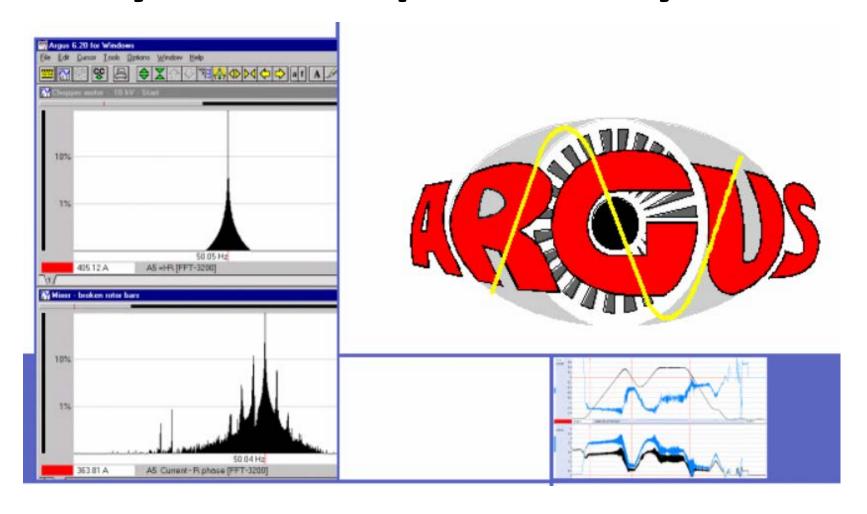


#### The grandfather of todays PLC



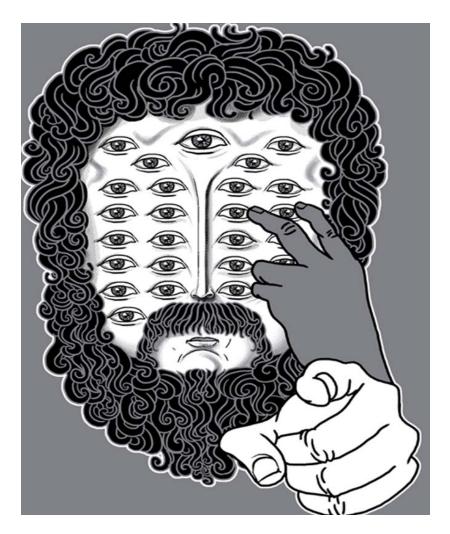


### **Early Data Acquisition System**





#### **ARGUS from the Greek mythology**





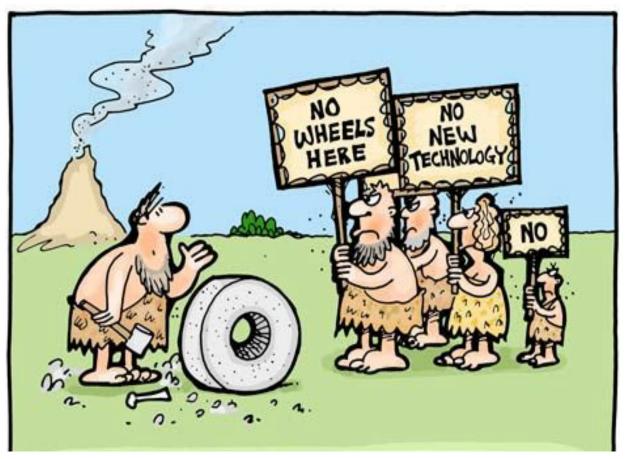
#### PLC and HMI

- More capacity and faster processors.
  - Simplify Man Machine Interface
  - Better and faster MMI presentation
  - L2 system





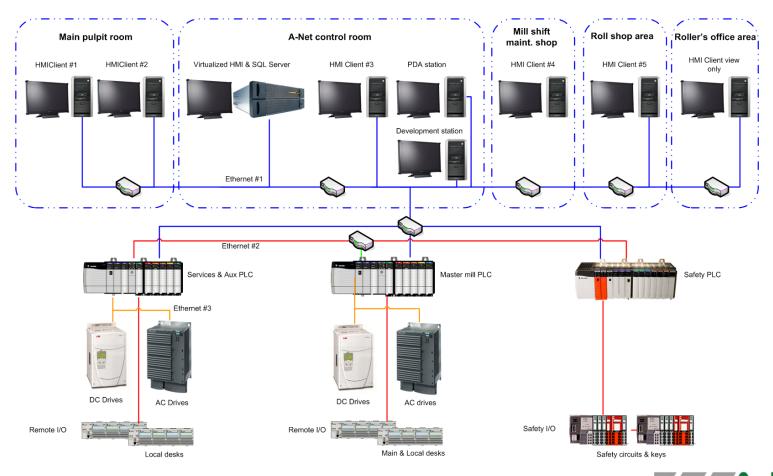
#### Resistance to new Technology



and modernization



#### **Automation and drive systems**





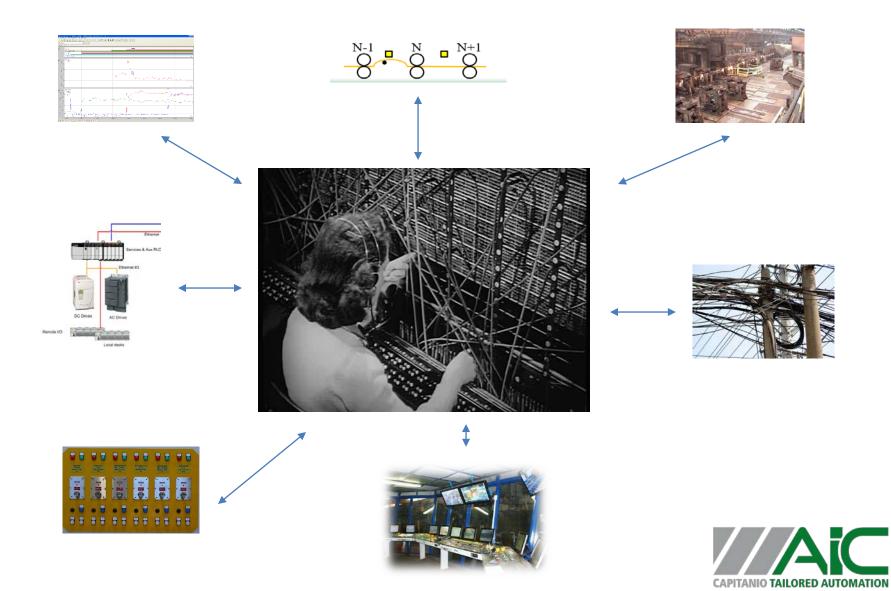
#### AC and DC drives

- High precision speed and torque control
  - quick recovery from big load chances
  - better tension control
  - better loop control



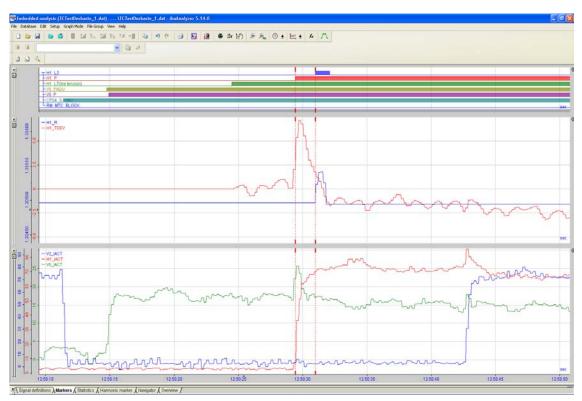


#### The challenge to keep the operator up to date.



### **Data Acquisition System**

#### - A good training tool









#### The procedure are focused on:

- · Setting up the tension control
- · Setting up the loop control
- · Improving the recipes
- Improving the start up of the rolling mill
- Preventive rolling.
- · Compensate for the pass ware.





#### We aim to achieve

- · Improve the know how of the automation and rolling process.
- . Improve the start up of the mill.
- · Improve the setup of the mill.
- Give better analysis tools to control the rolling process.
- Create procedures to assure:
  - · Everybody reacts the same way to the same situation.
  - . The tasks to are performed when and as requested.
- · Improve the speed control and other areas of the automation.
- · Continuous improvement.
- . Help the customer to improve their KPI's



#### Happy ending

