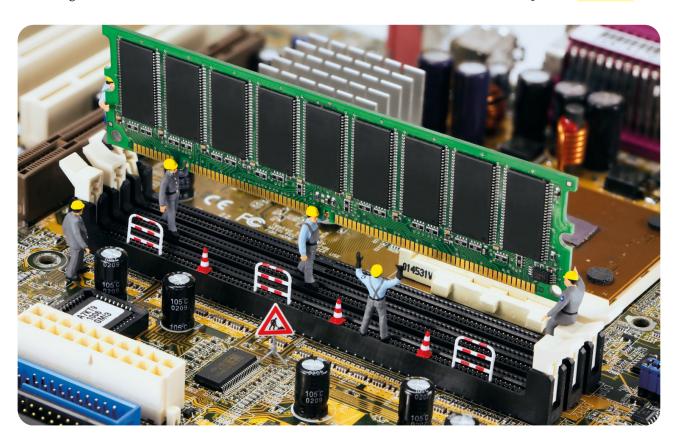
## **Computers and automation**

Automation is the use of machines, control systems and information technologies to optimise productivity in the production of goods and delivery of services. Automation is applied to increase productivity, and to create economies of scale and predictable quality levels. In the field of industrialisation, automation is a step beyond mechanization. Whereas mechanization provides human operators with machinery to assist them with the muscular requirements of work, automation greatly decreases the need for human sensory and mental demands while increasing load capacity, speed and repeatability. Automation plays an increasingly important role in the world economy and in everyday life. The main advantages of automation are:

- increased throughput or productivity;
- improved quality or increased predictability of quality;
- improved robustness (consistency) of processes or product;
- increased consistency of output;
- reduced direct human labour costs and expenses.

Information technology, together with industrial machinery and processes, can assist in the design, implementation and monitoring of control systems. One example of an industrial control system is a programmable logic controller (PLC). PLCs are specialised hardened computers which are frequently used to synchronise the flow of inputs from physical sensors with the flow of outputs to actuators.



goods: merci economy of scale: economia di scala

scope: ambito

whereas: mentre throughput: rendimento

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	<b>2.</b> Passo:		
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:	<b>7.</b> Coerenza:		
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