COMPANY PROFILE

info@elabor.biz

WHO WE ARE

eLabor is a production and work cooperative founded in 2001 in Pisa, with a **strong focus on technological innovation**, particularly in Information Technology. It immediately embraced free software and agile methodologies, later joining the Italian Free Software Association. The cooperative has gained experience in international cooperation projects and the development of customized solutions for various application contexts.

In recent years it has developed a strong interest in **Machine Learning, Artificial Intelligence** in the industrial sector and the various related technologies and fields, such as **IoT, Big Data, time-series analysis, mathematical modelling, simulation, optimization, and Industry 4.0**. In all these areas, eLabor also provides technical assistance and training courses.

BUSINESS MODEL

eLabor's **Open Source approach** permeates its entire business model. It uses Open Source tools such as Linux (Ubuntu, Debian, RedHat), OpenJDK, Python, GCC, and Samba, which offer advanced technologies at very low costs. Open software includes documentation, support, and the ability to grow internal expertise.

Furthermore, **the use of Open Source software avoids the risk of technological "lock-in"**, particularly damaging in the rapidly evolving world of information technology. The software developed by eLabor is also open, as sharing code brings technical and reputational benefits, fostering opportunities for collaboration and growth.

SKILLS

In creating its products and services, eLabor has developed significant skills in the use of technologies such as **Linux, relational and NoSQL DBMS, application servers, languages such as Java, Python, JavaScript, HTML/CSS, XML and TeX, and development tools such as Eclipse, Spring, Subversion, Git, Jenkins, SonarQube, Selenium** and many others.

The company has recently invested in machine learning platforms such as Keras/TensorFlow, MxNet, Gluon, and tools such as Liferay and Elastic Stack.

PRODUCTS AND SERVICES OFFERED

ADR-Flow is the solution we developed for the **quality control of production lines**, able to **automatically detect all defects** visible through images or video. ADR-Flow and its machine learning algorithm instantly analyze the image stream and determine product quality in real time. ADR-Flow can detect assembly accuracy, roughness, clearances, concentricity, positioning, wiring, and much more.

It can be used, for example, to verify the correct wiring and assembly of motorcycles in the automotive sector, or to carry out much more accurate checks on incoming material in packaging companies, and in many other contexts.

ADR-Flow can be implemented on any production line.

It adapts seamlessly to older production lines, and installation is completely customized to meet production and site access needs, ensuring real-time quality control and optimizing the production line.

PRODUCTS AND SERVICES

- **Solving problems with constraints**: identification of constraints, evaluation of alternatives and search for compatible solutions, experimentation, monitoring and continuous adaptation

- **Digital Twin** (manufacturing, healthcare, energy, transportation, environment, agri-food): real-time monitoring and simulation, predictive maintenance and process optimization

- **Websites**: usability, SEO and responsive design, organized structure and attention to detail

- **Digital Humanities**: digital technologies for the analysis, preservation and accessibility of cultural and historical heritage, valorization of cultural heritage with innovative approaches

- **Public Utilities** (energy, environment, transportation, digital services sectors): strategic consulting and operational management, solutions for efficiency, quality of service, and user experience

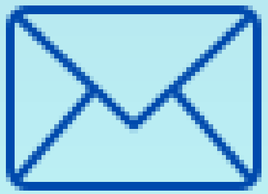
- **Tourism** (religious institutions, museums, foundations, territories): development of interactive apps, GPS and multimedia storytelling, digital tools for the enhancement and accessibility of heritage

PARTNERSHIP

eLabor has joined **RIOS**, Italian Open Source Network, a network of companies created to promote professional services and open source products, capable of offering high-quality solutions.
RIOS represents a point of reference in Italy for anyone who wants to exploit the benefits of Open Source with the security, stability, support, and guarantee of Enterprise-level solutions.

eLabor is also a partner of **Digital Cooperation.** It is a dynamic network dedicated to innovation and digital transformation, of which we are partners and where we share skills, knowledge, and experience to create value.
At eLabor, we bring tailored solutions, open source technologies, AI, and cross-sector projects to the table for the public and private sectors.

CONTACTS AND CHANNELS



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