

# GREATER AUTOMATION

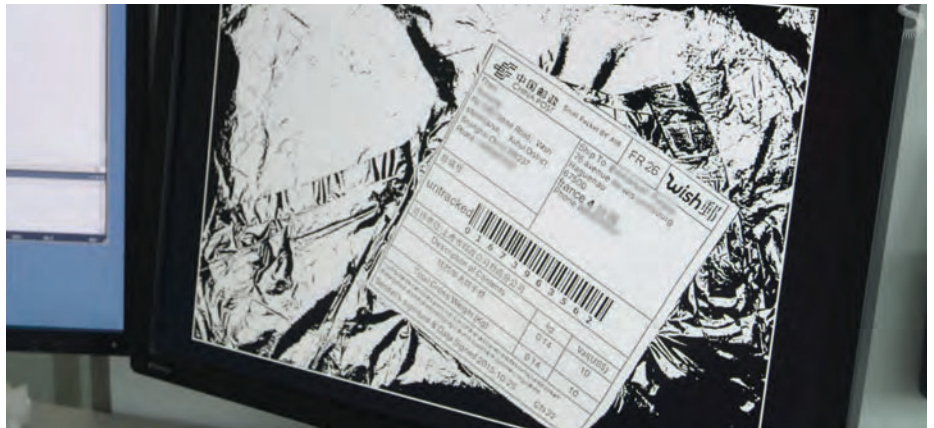
Automatically extracting and interpreting real-time information on heterogeneous flows at high speed requires particularly efficient image processing algorithms

French firm Solystic has data mining and machine learning methods in its DNA, and has been a pioneer in the automatic recognition of typed and handwritten content since the 1980s.

This background means that Solystic has been able to meet a new technological challenge in recent years. With the explosion of e-commerce, a new spectrum of postal objects has emerged. Known as small import packages, these fall halfway between letters and parcels, and are especially common in post originating from Asian countries.

At Solystic, a significant R&D budget has made it possible to anticipate this new challenge, enabling the company to capitalize in particular on its know-how and expertise in automatic learning and other artificial intelligence techniques. The volume, disorder and variability of the objects processed, combined with the syntactic destructuring of addresses, have led Solystic's engineers to learn from the mass of available field data rather than building representation models themselves.

This paradigm shift is at the heart of Solystic innovation of decision-support software systems, with deep neural network supervised learning algorithms dedicated to real-time detection, recognition and tracking of postal objects. It has also prompted new big data business intelligence approaches for solving postal problems



such as virtual identification by image signature on search horizons of several million objects and the optimization of postal address information reading by learning massive field data over windows of several months.

Solystic has also turned its hand to increased robotization, with an innovative logistics optimization process for sorting and preparing parcels. The Soly solution

Above: Solystic is using AI and deep learning to improve address label read rates on small import packages

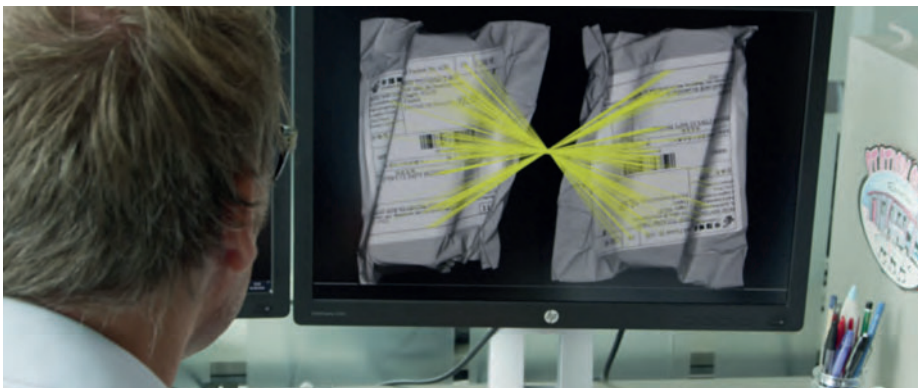
Below: The system automatically identifies points of interest to reduce no match rates on the small import packages

is managed in real time and transports geolocated parcels, using imaging to automate the process.

The promises of artificial intelligence are already being fulfilled for Solystic through the optimized performance of embedded decision software and the resolution of new postal issues. As with digital twins in the field of automation, these new approaches make it possible to break technological barriers and open up the field of skills to innovative applications.

## KEY FACTS

- Small import packages are especially common in post originating in Asia
- Managed in real time, the Soly solution uses imaging to automate the transportation of geolocated parcels



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