

LEVERAGING INDUSTRY 4.0 AND AI TO DRIVE SUSTAINABILITY AND EFFICIENCY

Industry 4.0 and the Digital Transition are creating incredible opportunities to rethink and reshape business process management

Waste Management: on-demand waste collection

On-demand services are very difficult to manage because their nature makes efficient planning extremely challenging.

We have worked with Contarina, one of the best performers waste management companies in Europe (as of 2022, the company achieved an impressive 90% recycling rate, with only 40 kg of residual waste per capita annually) on a specific optimization algorithm mainly based on pick-up and delivery routing. For each type of service we have maximized the ability to respond quickly to contingencies, finding the best balance between costs and service levels.



Energy efficiency: decarbonization planning



In the energy sector, Optit has recently started using its proprietary models and algorithms to perform strategic decarbonization and clean energy pathway studies in New York working with Con Edison.

Our team has been involved in projects across Europe and North America, from the decarbonization of district heating networks to the design of country-wide multi-energy systems, demonstrating the importance of energy modeling for the proper design and risk analysis of complex scenarios.

Founded in 2007 Optit is a cutting-edge SME specializing in Artificial Intelligence, Analytics, and Optimization.

With offices in Bologna, Cesena, and a commercial branch in the USA, we develop advanced AI-driven solutions for industries like Energy, Waste, Logistics, and Retail.

Our focus on operations research, data science, and machine learning helps medium and large enterprises boost efficiency and ROI. Optit's team of experts spans data science, business consulting, IT, and operational research, establishing a strong presence in key industrial markets.

