

HOW CITRINE AI REDUCES COSTS AND INCREASES RESILIENCE

Facing an increased need to secure your supply chain and reduce costs? Artificial intelligence can help optimize the selection of raw materials based on materials and application performance and formula cost so that you can respond nimbly to today's dynamic and challenging business conditions.

| QUICKLY AND CONFIDENTLY REDUCE FORMULA COSTS

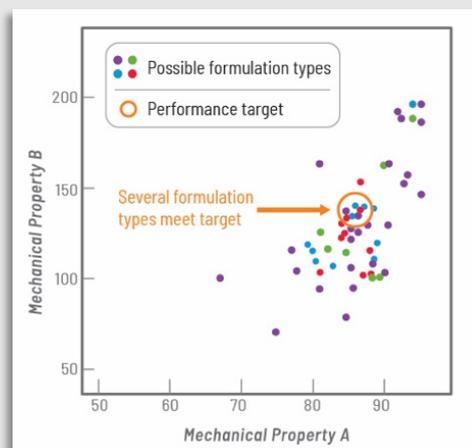
A given OEM performance specification can often be achieved through multiple recipes. The costs of ingredients vary widely. By using an AI platform that can efficiently screen thousands of formula recipes and predict their performances based on their ingredient list and processing information, researchers can efficiently identify opportunities to reduce costs, ensuring quality application performance at optimized recipe cost.

| REDUCE SUPPLY RISKS

In an uncertain world, the threat of raw material sources being unavailable is increased. Understanding your risks and mitigating them is critical. AI can quickly identify recipe alternatives should any ingredient become scarce or costly and require quick substitution.

EXAMPLE 1

A global leader in specialty chemicals and plastics used Citrine AI as part of their digital initiative to dynamically respond to customer requirements. Given a potential recipe, they could predict the properties of the resulting formulation. A single blind trial on ten samples showed that 3 key mechanical properties were modeled with less than 8% error. They used AI-driven visualizations to assess which performance targets could be reached using less costly recipes.



EXAMPLE 2

Working with a global leader in thermoplastics, Citrine AI produced multiple formulations that met several OEM targets in just 90 days. In this cost-driven industry, we were able to filter by the lowest cost ingredients in a global catalogue. Further, the company was able to evaluate how US-based ingredients performed in European operations, securing the supply chain against a potential shift in procurement. The flexibility and speed with which engineers could determine high probability robust options illustrates how agile an established industry can become with Citrine AI.

