AI Just Saved 50 Tons of Food

A new algorithm reroutes truckloads from landfills to food pantries in real time.

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THE DATA

50 tons

Food rerouted

Since the algorithm's deployment, over 50 tons of excess food have been redirected from landfills to food pantries.

This figure represents a measurable reduction in food waste, demonstrating that AI-driven logistics can deliver tangible humanitarian impact. The algorithm, developed by Purdue computer science researcher Alex Psomas, balances real-time availability of food banks with truck locations and delivery feasibility.



Source: Purdue University · Published November 02, 2026
https://www.purdue.edu/newsroom/2026/Q4/purdue-computer-science-researcher-reroutes-truckloads-of-excess-food-from-landfills-to-food-pantries/

01

AI Reduces Waste by Solving Human Incentive Gaps

The real bottleneck in food redistribution isn’t infrastructure — it’s decision fatigue. Drivers often default to landfills because the alternative seems like extra work. Psomas’ system removes friction by automating routing decisions based on open hours, capacity, and urgency, turning ethical choices into default actions. This is not just logistics — it’s behavioral optimization at scale.

02

Open-Source AI Enables Rapid Scaling

Unlike proprietary systems, Psomas' Food Drop algorithm is open source, allowing nonprofits and food banks worldwide to deploy it without licensing barriers. This model mirrors how open-source tools have accelerated innovation in aerospace and aviation software — where transparency drives reliability. With real-time data and modular design, such systems can be adapted to commercial space supply chains, where delivery windows are narrow and failure is costly.

George Arnold Alexander III, MPA

MIT, Nvidia, Google, AWS & IBM-Trained. Cross-Domain Expert. Castor Venture Club.

Partner, ALEX Companies

Associate Broker, Alexander Tiffany Southwest, LLC dba ALEX.realestate, et al.

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Broker · Alabama License #000178406

george@alex.realestate · +1 713.918.9951

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