



SPEND AUTOMATION

DULSCO

HOW A SIMFONI-SOURCED WASTE MANAGEMENT STRATEGY BROUGHT DULSCO TO THE WORLD STAGE

ABOUT DULSCO

DulSCO is a pioneering UAE-based limited liability company with over 80 years of experience in the regional business environment. With a workforce of over 12,000 employees, the company has grown with the region and has established itself as a premier service provider. It prides itself in offering human resource solutions and waste management solutions to its customers in the UAE and in Qatar. DulSCO is a key player in the UAE's economic development and an important contributor to the country's social development.

THE SITUATION

DulSCO partnered with EXPO 2020, a World Expo hosted by Dubai with the objective of helping them promote sustainability and helping to contribute to the circular economy. The event recorded over 24MM visits in 6 mos. The main site of Expo 2020 Dubai was a 4.38 km²/438-hectare area (1083 acres) located between the cities of Dubai and Abu Dhabi,

near Dubai's southern border with Abu Dhabi. Because of limited operational hours for waste collection, it would lead to overflowing waste from bins – not ideal for an event in which the primary purpose was focused on innovation in sustainability. Because of this, it was essential the client move away from typical waste collection bins and source a more environment-conscious option while reducing labor costs.

“Simfoni delivers the expertise and technology necessary to help make our most transformative procurement and sourcing projects a success. They can always be counted on to deliver when we need them most.”

-David Stockton
CEO, DulSCO

SIMFONI'S APPROACH



In order to reduce operations on-site during public visiting hours yet keep the Expo 2020 grounds clean and family friendly, Simfoni sourced a solar-powered compacting bin. The bins have a smart device that reads the fill-level in real-time and triggers an automatic compacting of the waste, effectively increasing the bin's capacity by up to 7x. The compaction mechanism runs on a battery charged by a solar panel. This aligned well with Dulsco's wider vision of bringing the most sustainable environmental solutions to the table. The waste compacting bins also incorporate software indicating the bin fill level, which made it easier to allocate staff resources by directing them to the bins needing attention.

Simfoni's sourcing team surveyed the global supply market to identify the best possible options and finalized a bespoke strategy to procure the bins amongst very few, yet competitive manufacturers of this unique product. Due to the COVID-19 impact, the EXPO 2020 was moved, creating challenges in the supply chain. Simfoni ensured that alternate supply routes from the Netherlands were in place to prevent potential material and shipping delays that would detain the project.

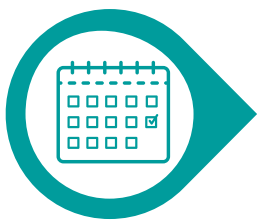
RESULTS

Overall, Simfoni's use of technology via the compaction mechanism and fill-level detection software in the bins led to a reduction in fuel and labor costs, and significant time savings.

Dulsco won CPO 100's 2022 'Technology Excellence Award - Best Use of Digital Technology' for their work with EXPO 2020.



\$820K (3.01 mil UAE)
in labor cost savings



4X reduction
in man hours needed
for waste collection



CONCLUSION

Dulsco employed a three-fold system with the Simfoni sourced bins – one for landfill waste, one for mixed recyclables and one for organic waste. All the waste was then sent to the Dulsco facility, effectively keeping it out of landfills and reducing the overall carbon footprint of the event.

The innovative, eco-friendly bins sourced by Simfoni brought the client's partnership with EXPO 2020 and their commitment to sustainability into the public eye and promoted the idea to all EXPO attendees that waste management could be addressed in an environmentally conscious, sustainable, and cost-effective way.

- Expo 2020 was hailed in the news media as "the most sustainable world fair in history", due in large part to the new, Simfoni-sourced bin system.
- Waste collection employees responded positively as the solution resulted in an easier, organized, and cleaner collection process.



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