

Today, bold innovation.

Tomorrow, a better world for everyone.



Cooling Cart for Street Vendors

Reducing food loss and increasing vendor income with passive cooling technology

Innovation that matters

Operation Possible is a social innovation program at Trane Technologies, and one way we are taking aim at the most pressing social and environmental challenges of our time. By harnessing the collective talent and energy of our people today, we're committed to bold action and innovation that leads to a better tomorrow.

Our first challenge: food loss and waste

Over

30%

of the food produced each year is lost or wasted



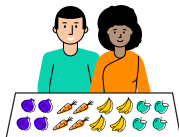
8%

of global greenhouse gas emissions come from food waste

More than

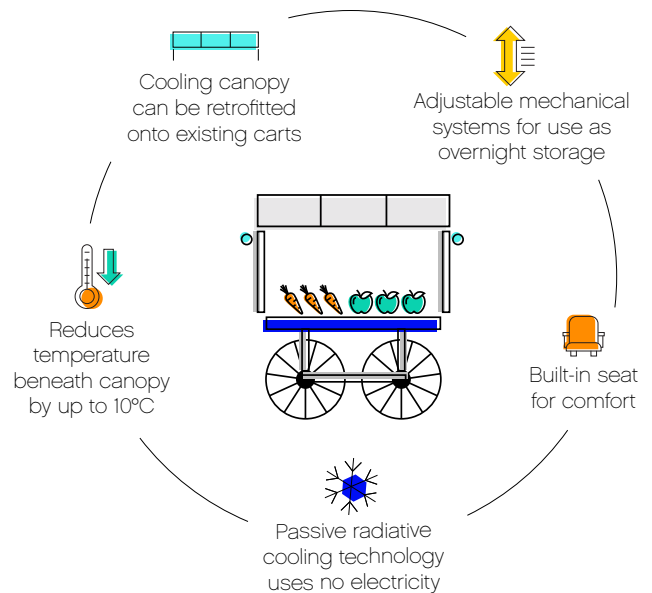
25M

street vendors sell fruit and vegetables in developing economies



Our cooling cart solution

A global team of Trane Technologies employees consulted with fruit and vegetable street vendors on their greatest needs, then designed and prototyped an affordable cooling cart that leverages passive radiative cooling technology.



How it works

The cooling canopy uses dual-mode film technology developed by SkyCool Systems. The film reflects sunlight to prevent fresh produce from overheating, while passively cooling the area beneath the canopy by emitting infrared heat to the sky.

Field tests have shown that the cooling canopy design keeps produce fresh for longer, decreasing food waste and increasing the street vendors' potential income.

Partner with us

We're just getting started, and we need your help. If you are interested in expanding access to the cooling cart or working with us on other sustainability challenges, we'd love to hear from you. Contact us at operationpossible@tranetechnologies.com.

