

Contactless service and operations: Waste management

Improving and enabling human-oriented service
and operations in response to COVID-19



The IDEA Framework in action: sector examples

Contactless Service and Operations was developed to provide a framework for reevaluating an organization's key customer and employee journeys and interactions in light of COVID-19. It focuses on making those journeys and interactions better not just safer.

The goal of the **IDEA Framework** is to help organizations reimagine mission-critical priorities, investments, and operations while providing the "human" elements related to service.

This document provides a sector specific example on how the process of the **IDEA Framework** could be applied.

If you would like to view additional details of this approach please click here ([link](#) to CxO)

Organizations should follow local regulations and country-specific circumstances before implementation of specific interventions.

This content consists of insights from McKinsey's operations and design practice and is provided "as is" solely for informational purposes. It does not constitute or is intended to be legal or safety advice. Organizations should consider all applicable laws, standards, and country-specific circumstances before adopting any measures. Organizations should engage their own legal counsel and safety experts to ensure compliance.

The IDEA framework provides a process that can help identify human-centered solutions for evolving business scenarios

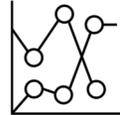


Identify interactions & areas of concern

Identify the types of work environment relevant to the business

Identify types of in-person interactions for priority journeys within three main buckets:

- Employee to employee
- Employee to customer
- Customer to customer



Diagnose & prioritize areas of concern

Prioritize areas of concern using multiple lenses:

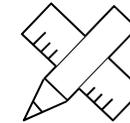
- Type of interactions
- Evolution of customer and employee experience
- Implications on operations and cost



Develop & Execute solutions

Develop and roadmap solutions across three horizons:

- Immediate needs to continue or re-start critical operations
- Re-prioritizing and accelerating key initiatives
- Investment in distinctive long-term solutions



Adapt & sustain

Operationalize solutions across the organization, iterating and adjusting to meet the needs of the evolving situation

Empower teams to stay ahead of emerging situations and bring learning back to the organization

The first step of the IDEA framework is to identify interactions and areas of concern across key journeys and interactions

ILLUSTRATIVE EXAMPLE

NONEXHAUSTIVE



Detailed areas per type of interaction and operation


Goods transfer

Services

Internal tasks/processes
Interaction types

Employee to employee

- Handling paperwork (incl. work plan and pick-up schedule)
- Collecting and combining waste
- Loading and unloading waste
- Sharing devices, equipment, vehicles, and other work supplies

- In-person clocking in and out
- Operating trucks (incl. refilling gas) and shipping waste
- Working closely with other employees to complete trash-collection duties

- Workplan set-up and truck dispatch
- Sorting, collecting, and further transferring waste
- Cleaning, maintaining, and operating the waste-transfer station, landfills, and recycling center


Employee to customer

- Recycling bin hand-off door-to-door
- Distributing recycling materials
- Handling waste from bin to the truck
- Exchanging hazardous waste at transfer station

- Coordinating pick-up with customer
- In-person communication and assistance about customer's needs at waste-transfer station

- Processing waste service request from the customers
- Processing customer's hazardous waste
- Follow-up communication with customers


Customer to customer

- Sorting waste in common area (incl. street and apartment)
- Moving recycling bins

- Interacting with other customers while waiting at the waste transfer station
- Using same hazardous waste collection window

- Sharing air circulation (incl. elevator and garbage room) in the property
- Touching the same surfaces, including elevators and bins

Once identified, organizations are advised to diagnose and prioritize areas of concern

ILLUSTRATIVE EXAMPLE

E2E: Employee to employee E2C: Employee to customer C2C: Customer to customer



Municipal waste collection and processing journey



Potential interactions

E2C Delivering recycling bins to customers

C2C Customers sharing recycling and landfill bins

E2E Employees working on the same truck or route

E2E Sorting and collecting material

E2E Transferring to other destinations including landfills, energy stations, and manufacturing sites

E2E Dispatching truck and coordinating internal work

E2C Handling waste bins and touching waste

E2E/E2C¹ Unloading waste from vehicles at transfer station

E2E Processing recyclables from waste packaging

E2E Further processing

C2C Interactions between customers in common areas

E2E Combining several garbage loads into one

E2E Operating and maintaining transfer stations

E2E Recovering, segregating, and baling reusable material

1. Customer will directly send the waste to the transfer station if it's hazardous.

Organizations should engage their own legal counsel and safety experts to ensure any adopted measures are compliant with applicable laws and standards in their jurisdictions.

Companies can seek to develop and execute solutions to help improve safety and experience across key business elements

ILLUSTRATIVE EXAMPLE

NONEXHAUSTIVE



Potential levers that could be utilized in solutions



New offers & services



Policies



Processes



Digitization

Innovations and improvements could address guest and associate safety and comfort in and around the municipal waste-management site



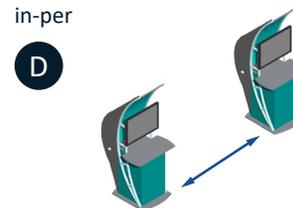
Re-designed low-touch devices and interfaces



Smart recycling system to identify high-risk waste items (ie, face masks)



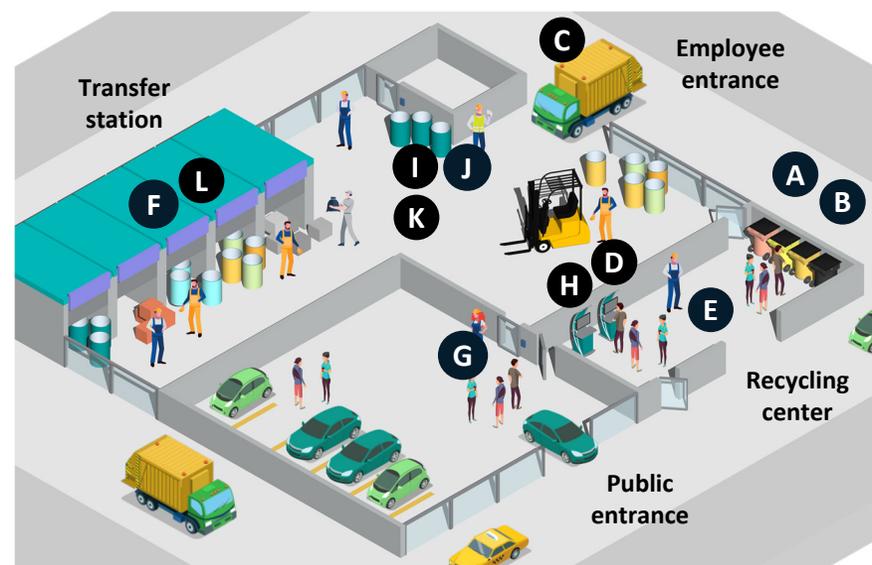
Smart fleet management to minimize in-per



Workspace layout and flow that support physical distancing



Completely digital recycling process (ie, online tracking, digital receipt)



Potential additional examples

F Automated waste sorting and recycling system

G Limitation on the number of customers in the waste-transfer station

H Sanitation of recycling kiosk

I Scheduled regular disinfection for equipment, vehicles, and workspace

J Upgraded PPE for employees and customers

K Improved air filtration and ventilation systems in the property

L Additional separation for the high-risk waste

M Fixed crews to limit exposure between teams

The last step to consider is to pilot, adapt, and scale solutions as appropriate, keeping employee and customer experience in mind

ILLUSTRATIVE FUTURE STATE JOURNEY EXAMPLE

