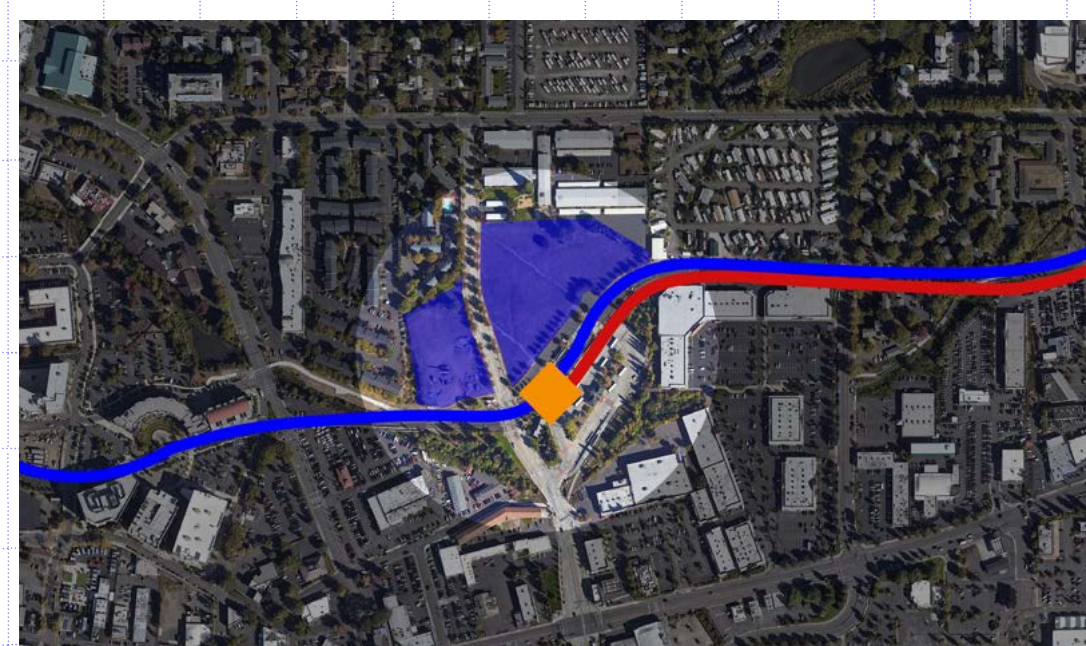
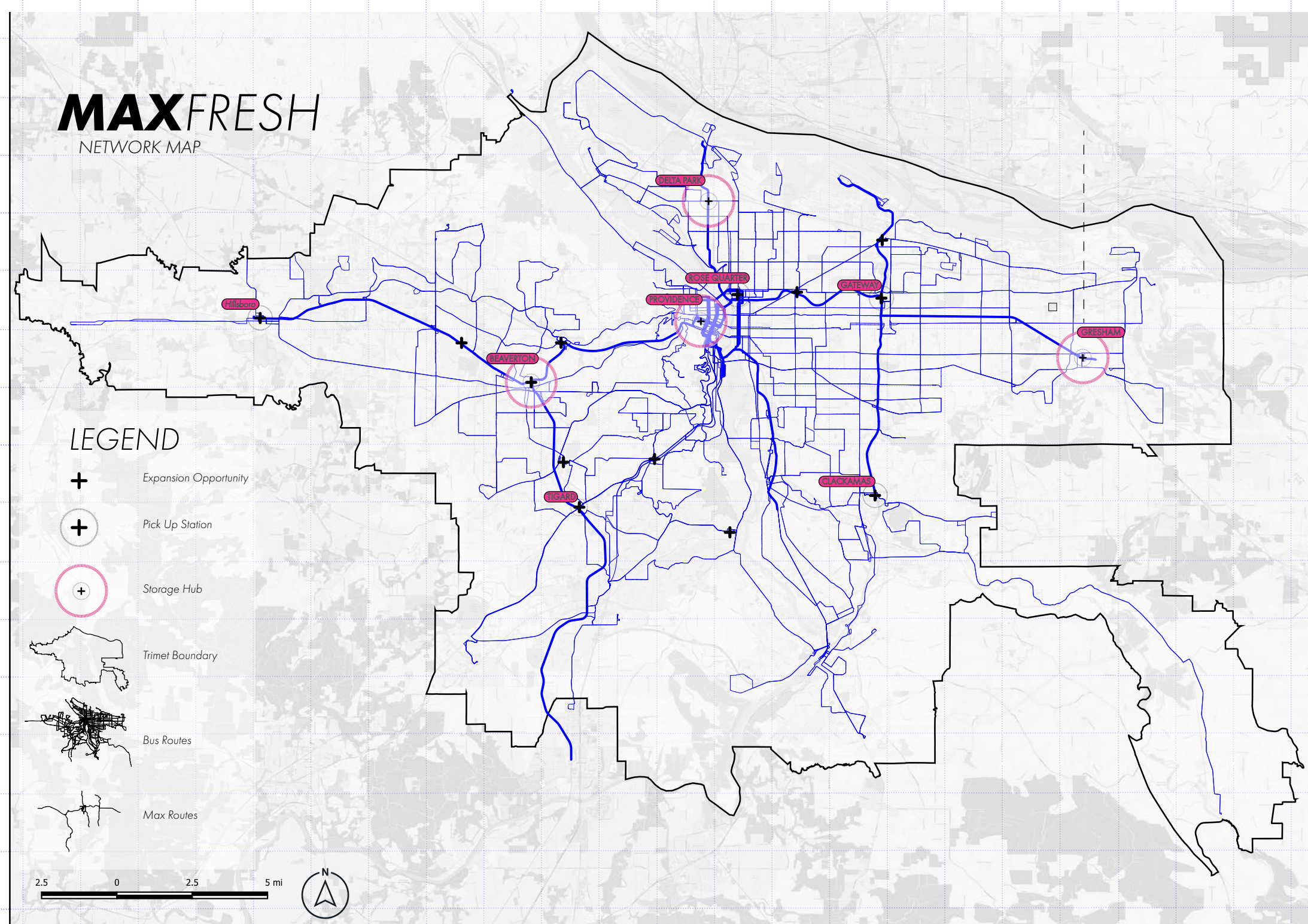


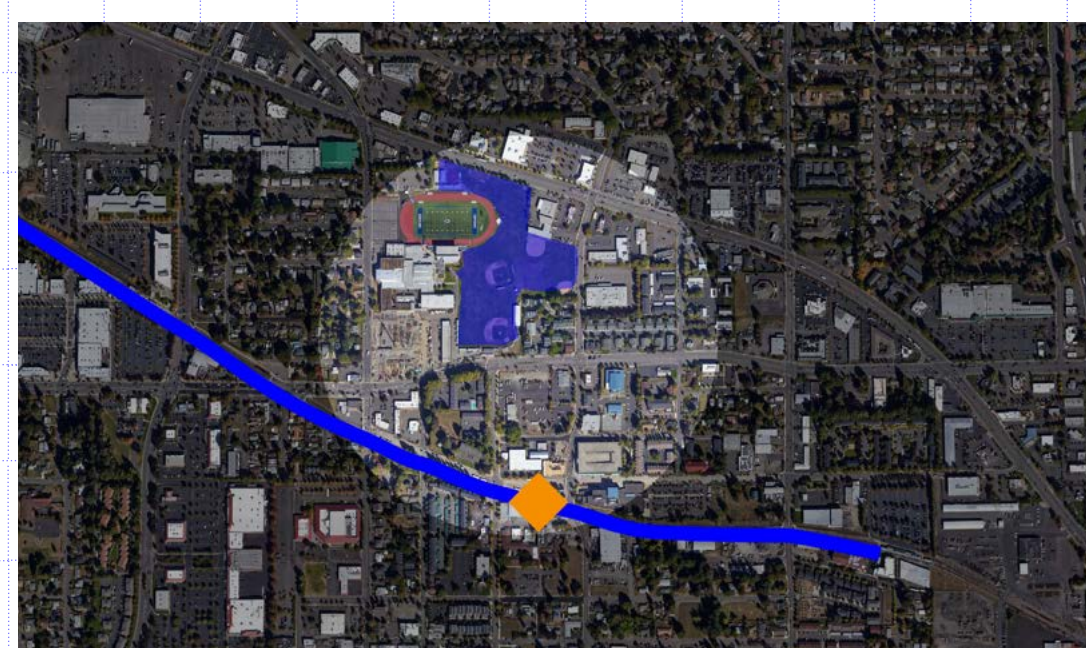
# MAXFresh! by TRIMET

A Mobile Network of Food Pantries for Portland-Metro

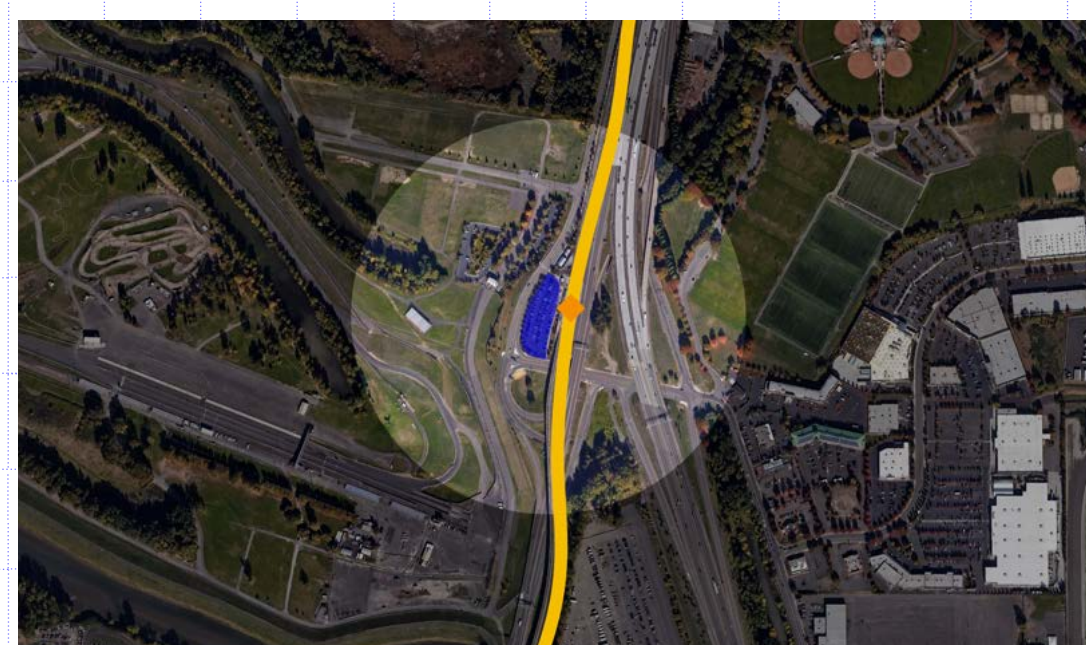
Team: **C.An** | Members: Colin O'Neill + An Nguyen



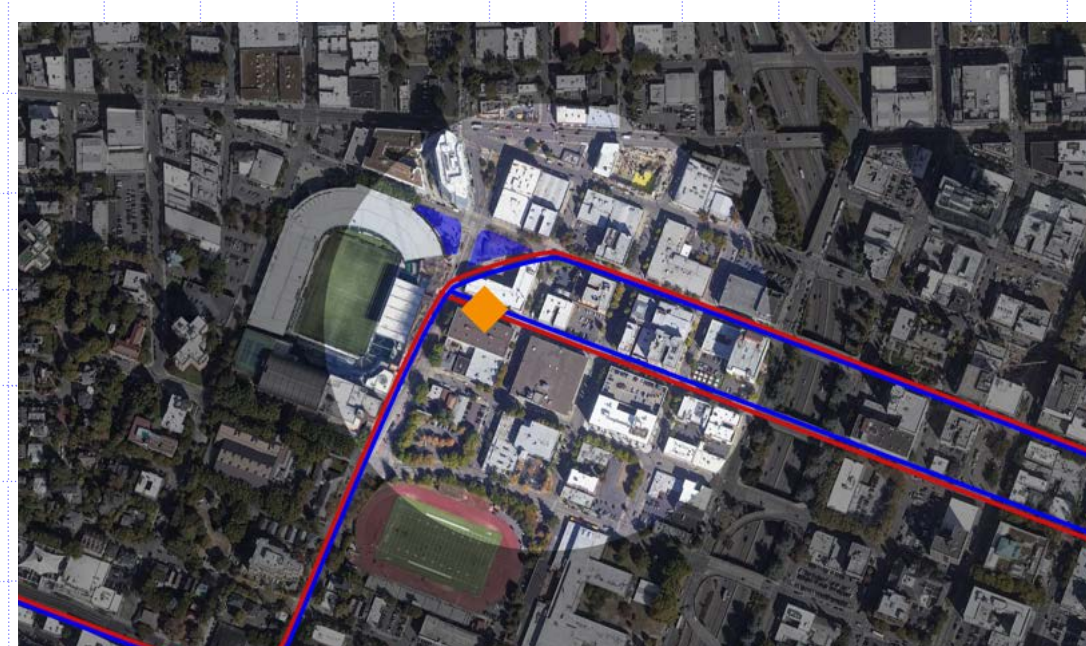
Beaverton Transit Center



Gresham Transit Center



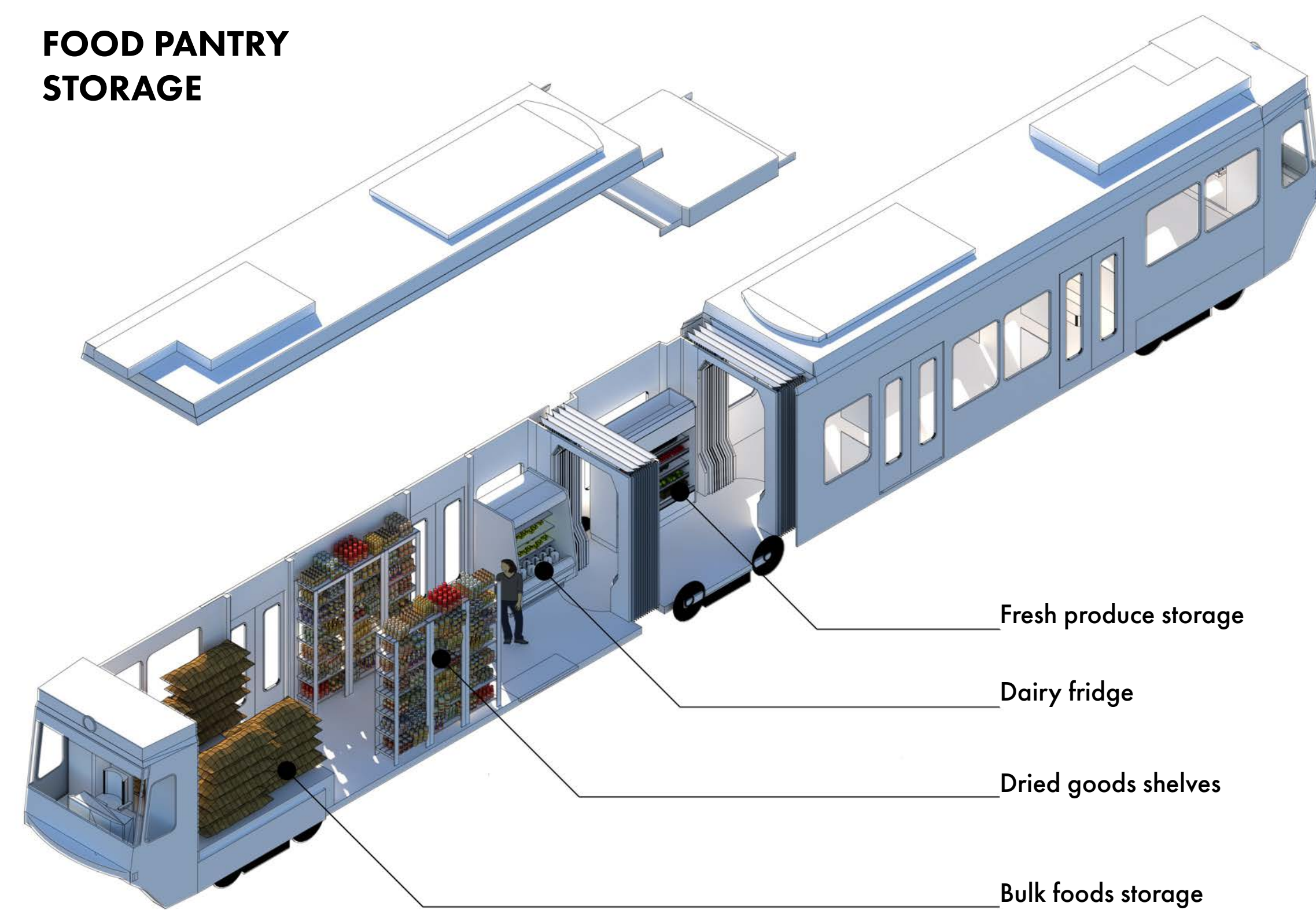
Delta Park Vanport



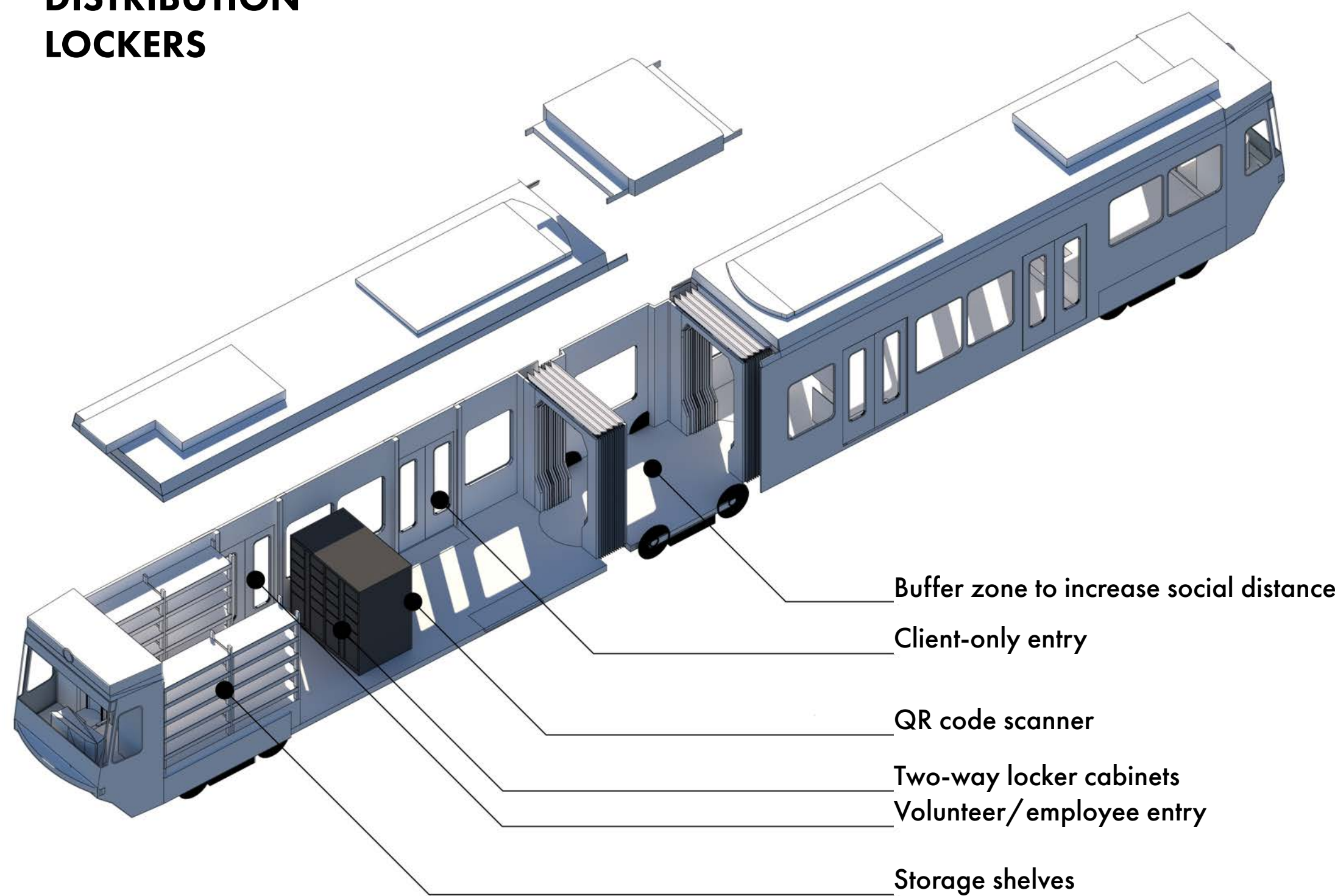
Providence Park

## Adaptive Reuse: MAX Cars Type II

### FOOD PANTRY STORAGE



### DISTRIBUTION LOCKERS

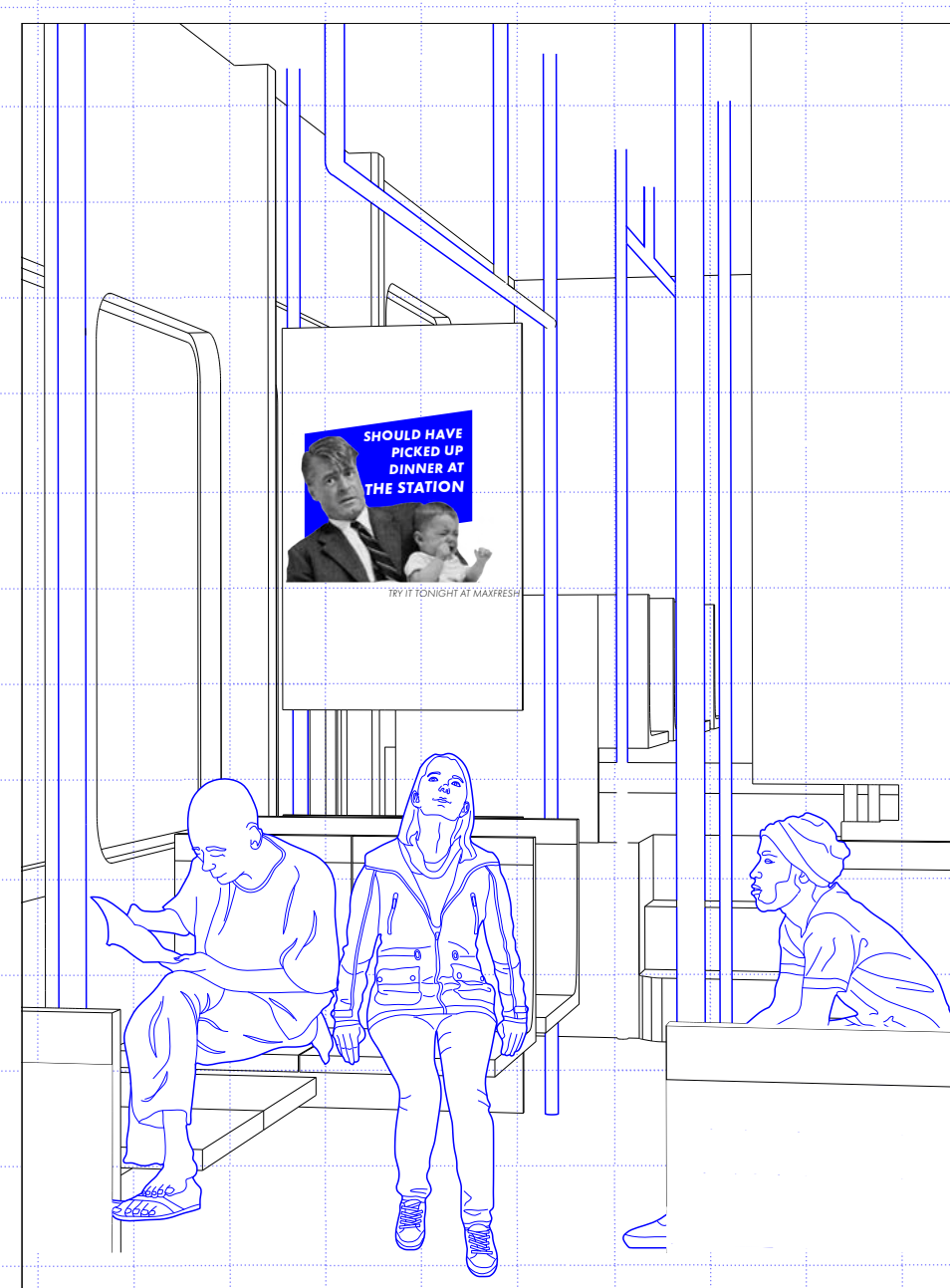


As observed in the past few months under shelter-in-place order to flatten the Covid-19 infection curve, food security is one of the largest challenges facing individuals and families in case of a widespread public crisis. Adults who suddenly find themselves out of work have difficulty affording day-to-day necessities, while children lose access to subsidized breakfasts and lunches – their only meal source, in many cases – due to school closure. Those who can get to grocery stores find shelves ransacked of basic staples due to public panic.

Efforts to relieve food shortage by not-for-profit organizations such as Oregon Food Bank and local community food pantries encounter many challenges. Mobility and time are the two biggest obstacles for those most in need of food assistance, preventing them from getting help. Furthermore, in these recent months, these organizations are facing an additional challenge that adds to the growing overburden in their operations: their workforce – composed primarily of elderly volunteers – are severely handicapped as more people have to stay home to avoid the threat of the virus.

With these challenges in mind, our team proposes **MAXFresh!** – a network of mobile food pantry utilizing Trimet's existing infrastructure to reinforce community resiliency in the Portland-Metro area. In this proposal, retired MAX cars are repurposed as storage, food pantry and distribution center. Type II cars that have been transformed into distribution lockers will be positioned at key stations while a number of open, underused sites nearby will be converted into storage hubs to house storage cars. A mobile phone application will provide an interactive mode of communication with **MAXFresh!** users. Another important aspect in this operation is coordinating relief efforts from community partners like local food banks and charities. Distribution centers equipped with two-way lockers and QR code scanners to facilitate contact-free handling of food and reduce the risk of virus transmission, making it safer for both employees/volunteers and clients.

Though conceived with the conditions of sheltering-in-place, **MAXFresh!** is also designed with adaptability for future need. The locations of storage hubs and distribution centers can change or be expanded depending on the needs of a neighborhood. Beyond food security, repurposed cars can serve a number of organizations to deliver books, clothing, and home goods to those in need. The **MAXFresh!** network can also partner with local businesses to provide drop-off and pick-up locations for remote orders.



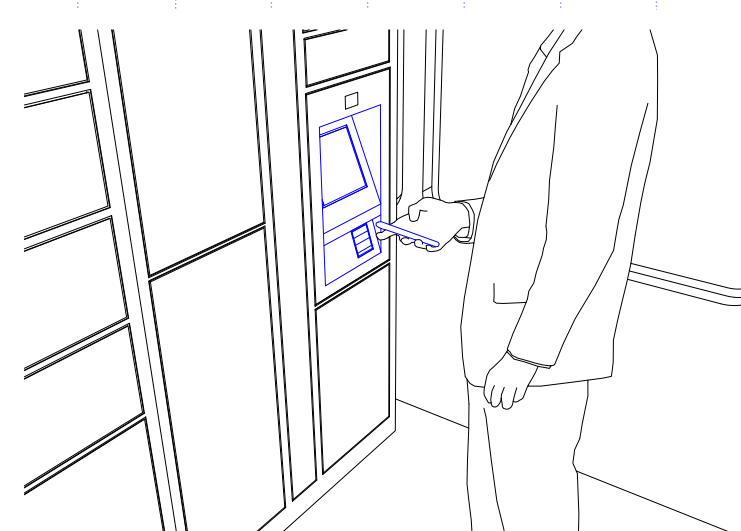
## How MAXFresh! Works



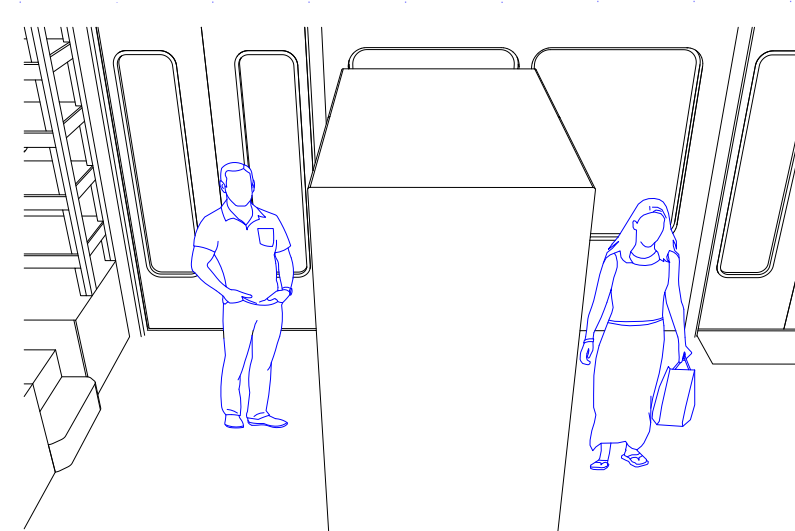
Donated goods are inventoried, organized and stored in pantry-adapted Type II cars



Clients with the **MAXFresh!** phone app can get notified of food availability and reserve their share



Code scanners at distribution lockers provide ease of use and pick-up convenience for MAX train passengers



Two-way lockers enable contact-free pick up and delivery to ensure the safety of both **MAXFresh!** volunteers and clients



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