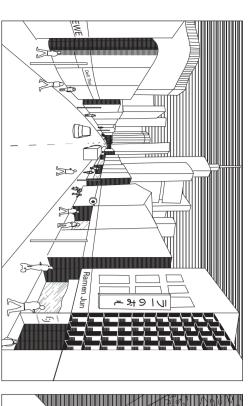
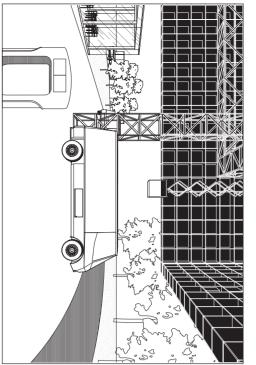
Fresh Forward — Ryan Ridge Rahardja (ID)

This contribution proposed a design for a new kind of restaurant that utilizes contemporary technology to achieve a fully automated process, from production space to sales floor; while, at the same time,— adopting modernist cooking techniques to provide a new dining experience to the customer.

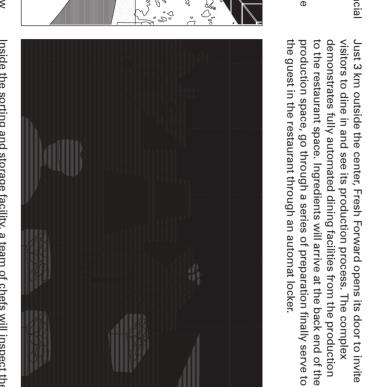




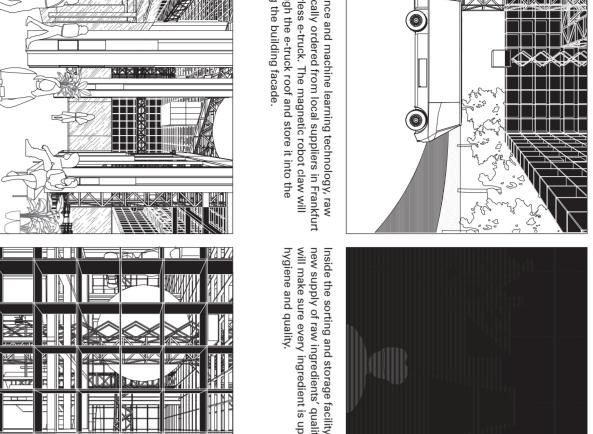
uring chaotic lunch-hour in the Kaiserstrasse, in the central fina strict of Frankfurt. Fresh Forward, an automat restaurant, aims provide a new dining experience to the Frankfurters. Through tomation technology and modernist cooking techniques, the tomat can provide freshly made, high-quality cuisine that fits t sy lunch hour of Frankfurt's executives.

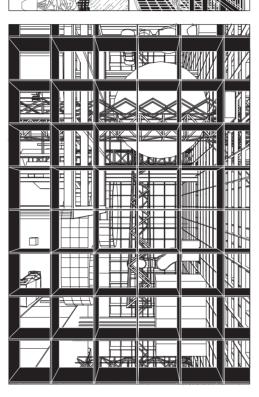


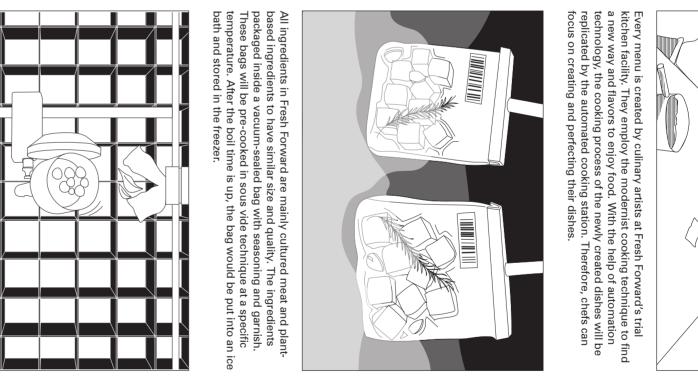
artificial intelligence and machine learning to the will automatically ordered from local suppered by a driverless e-truck. The magnetic the pallets through the e-truck roof and stotarea surrounding the building facade.



entrance, customers can have a glimpse of the raw ingredients pre-processed and pre-cooked in sous vide at different boiling eratures depends on the food types. Surrounding the cooking line, can be seen a wall of glass cabinet filled with vacuum dients that is ready to be cooked and served to the diners.



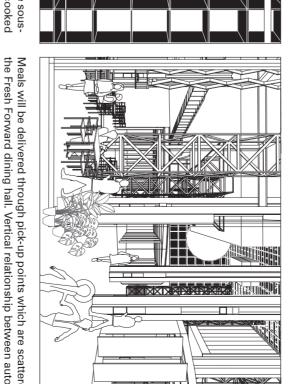




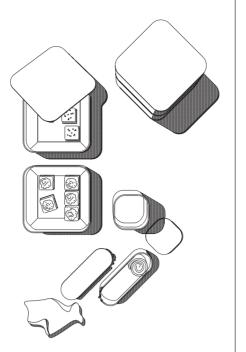
THE THE

aw ingredients will be cooked and stored in the sous vide nique until perfect. Basic ingredients will be stored in a 15x15 cm n vacuum-sealed bag and cooked to the perfect doneness before stored in the freezer. This method will also provide a longer life for the ingredients.

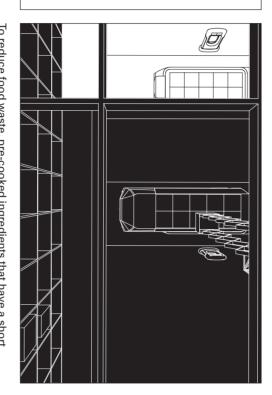
with:

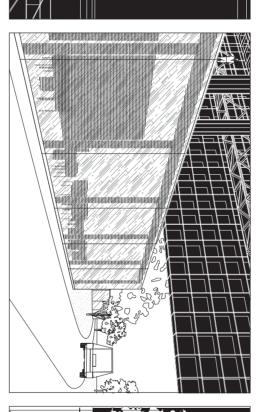


s will be delivered through pick-up points which are scattered in resh Forward dining hall. Vertical relationship between automated and dining space gives flexibility for spatial organisation of the floor that enhance the visitor dining experience.

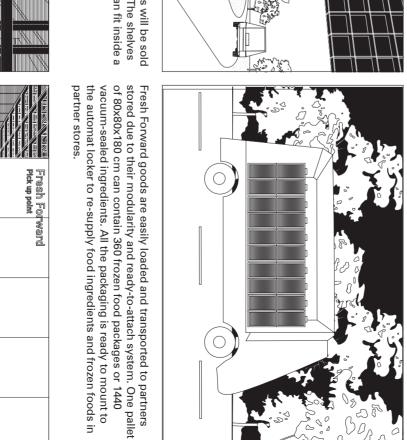


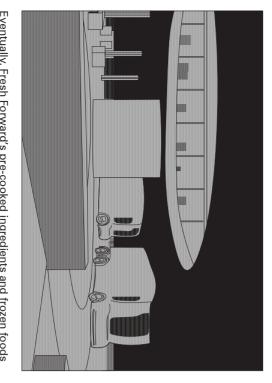
Food will be served in a sleek design food tray. Visitors can enjoy their food in the indoor or outdoor dining hall around the restaurant complex. The packaging design provides a simple and convenient design for diners to easily consume their meal without any utensils.



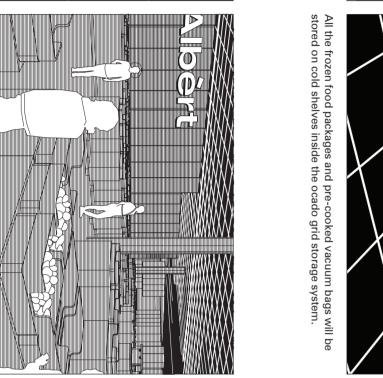


Ready-to-heat frozen foods and pre-cooked vacuum bags will be sold in the frozen shelves inside the Fresh Forward complex. The shelves will be the prototype of how Fresh Forward's products can fit inside a supermarket.



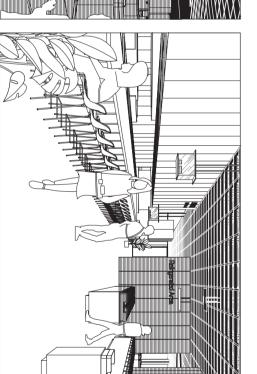


th Forward's pre-c Albèrt in Martinu th the dimension c t, therefore it is o re-cooked ingredients and frozen foods tinus Nijhoflan. Packaging from Fresh on of crates inside of the ocado grid s optimizing the loading process and

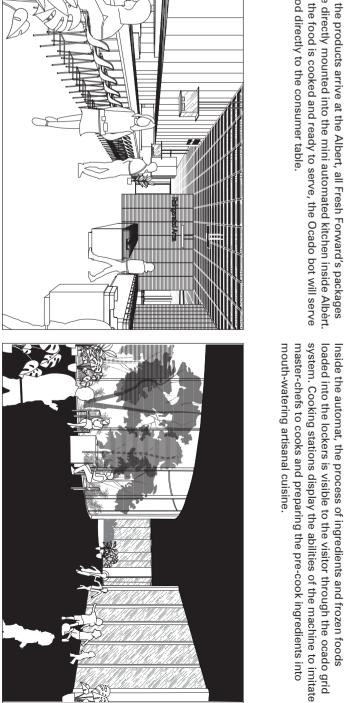


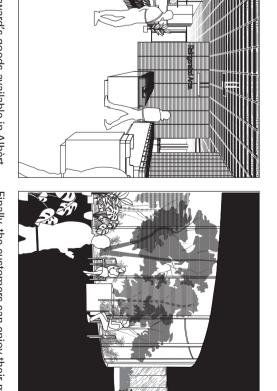
The customer of Albèrt can order their food while do their grocery shopping. Fresh Forward is presented in the Albèrt store to complement the visitor experience in the supermarket. Visitors can enjoy affordable, high-quality artisanal cuisine made by celebrated chefs in their local supermarket.

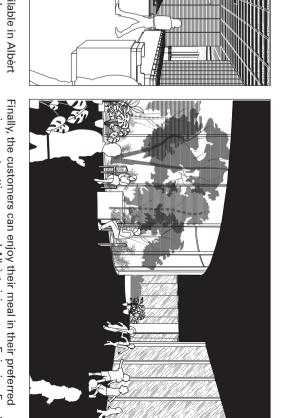
From the Albèrt online application, customers in the Netherland can access Fresh Forward's ordering apps to place and pick up their orders. They have the option to pick up at the Albèrt store or get the food delivered via Albèrt's instant delivery service. The customer wireceive a QR-code to pick up their orders from the automat pick up



There are three options of Fresh Forward's goods available in Albèrt Martinus Nijhoflaan store, hot meals, frozen foods, and vacuumsealed ingredients. Customers can directly take out goods from the refrigerated area, while they need to wait 3-5 minutes for hot meals to be prepared.



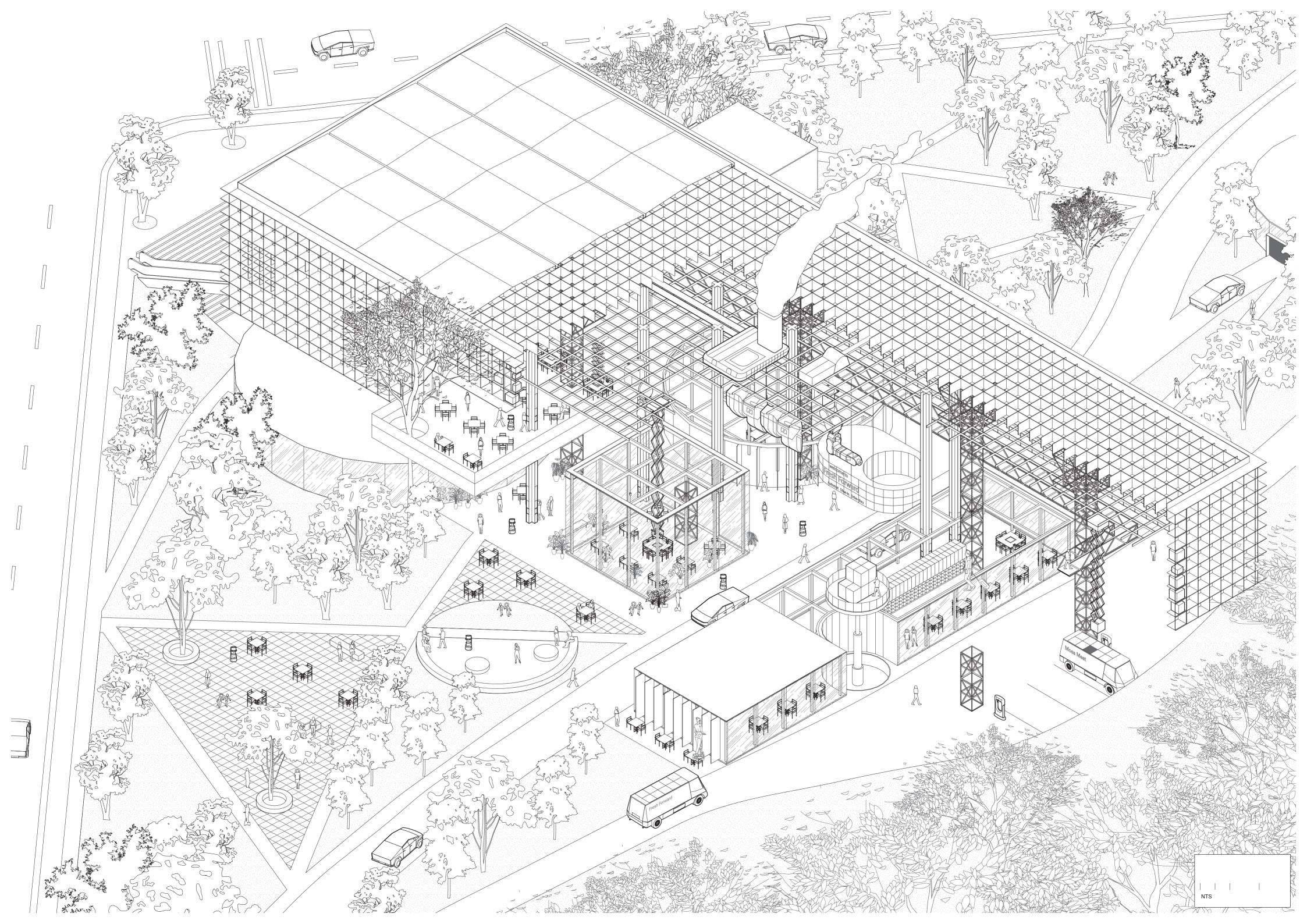




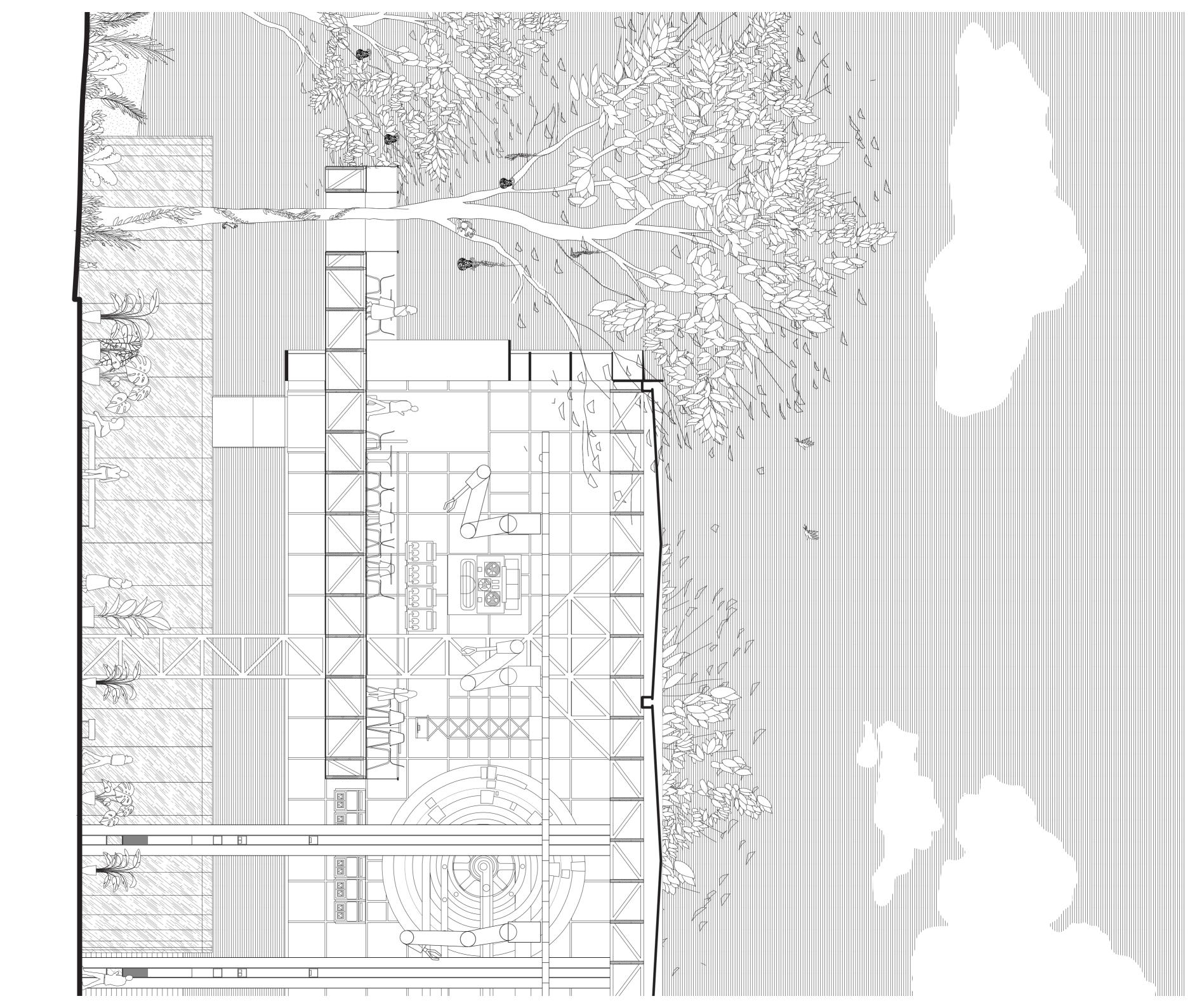
customers can enjoy their meal in their preferred nt settings around Albèrt civic space. Enjoying Frankfurt y cuisine while enjoying the beauty of permaculture garc lable in Albèrt.

Fresh Forward — Ryan Ridge Rahardja (ID)

Presented in a set of spatial narratives, the contribution depicts how a new kind of dining experience is introduced by Fresh Forward in Hundewiese, Frankfurt to the supermarket—Albèrt—on Martinus Nijhofflaan in Delft.



Welcome to Fresh Forward, an experience where humans, machines, and nature meet together.



0 -

60 —

180 m

This contribution provides an aesthetic experience—from the uniformity and repetition provided from the automated machine to the contrasting organic beauty of nature—where the customers can enjoy their meal in their preferred environment settings.



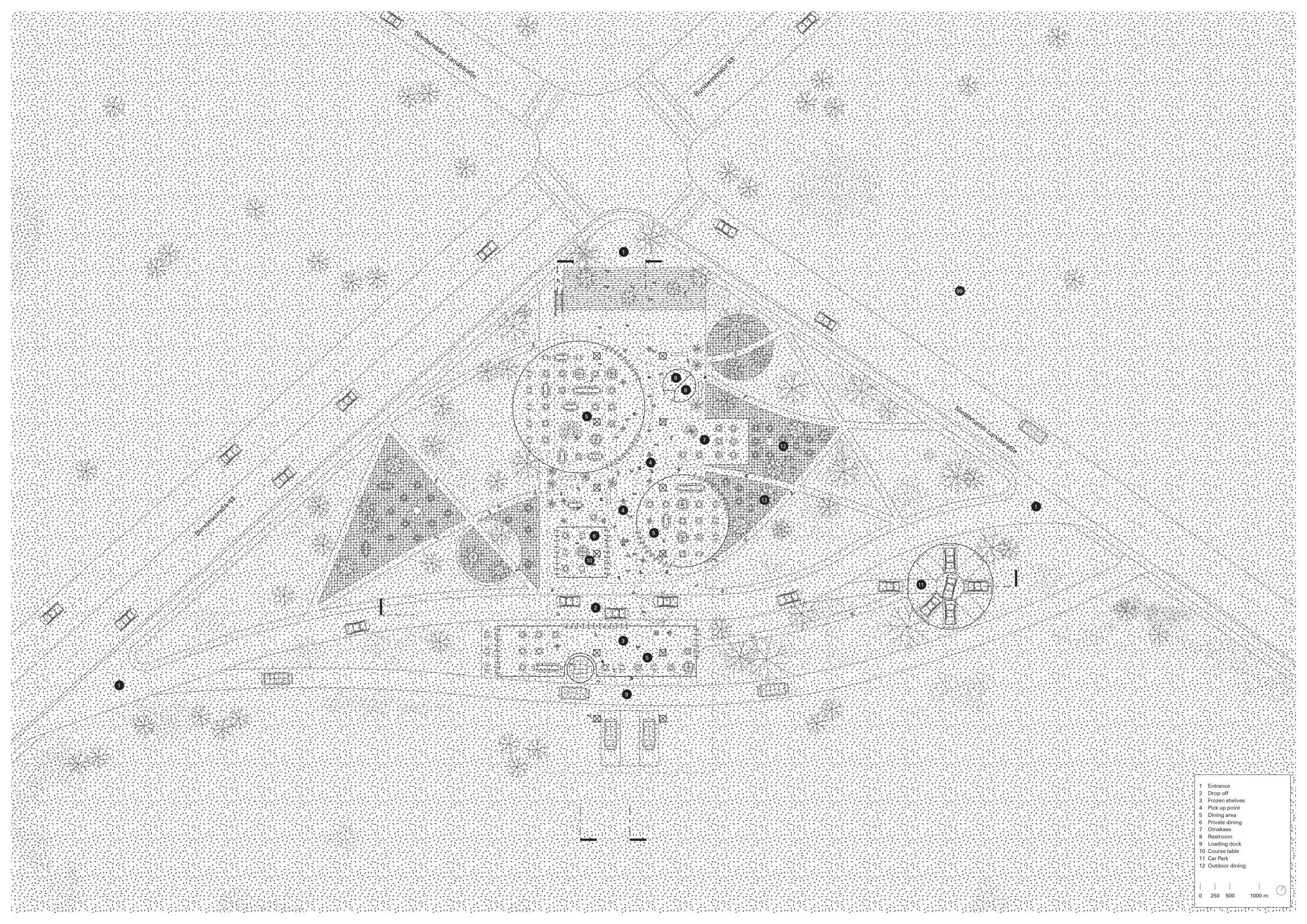
0 —

0 120

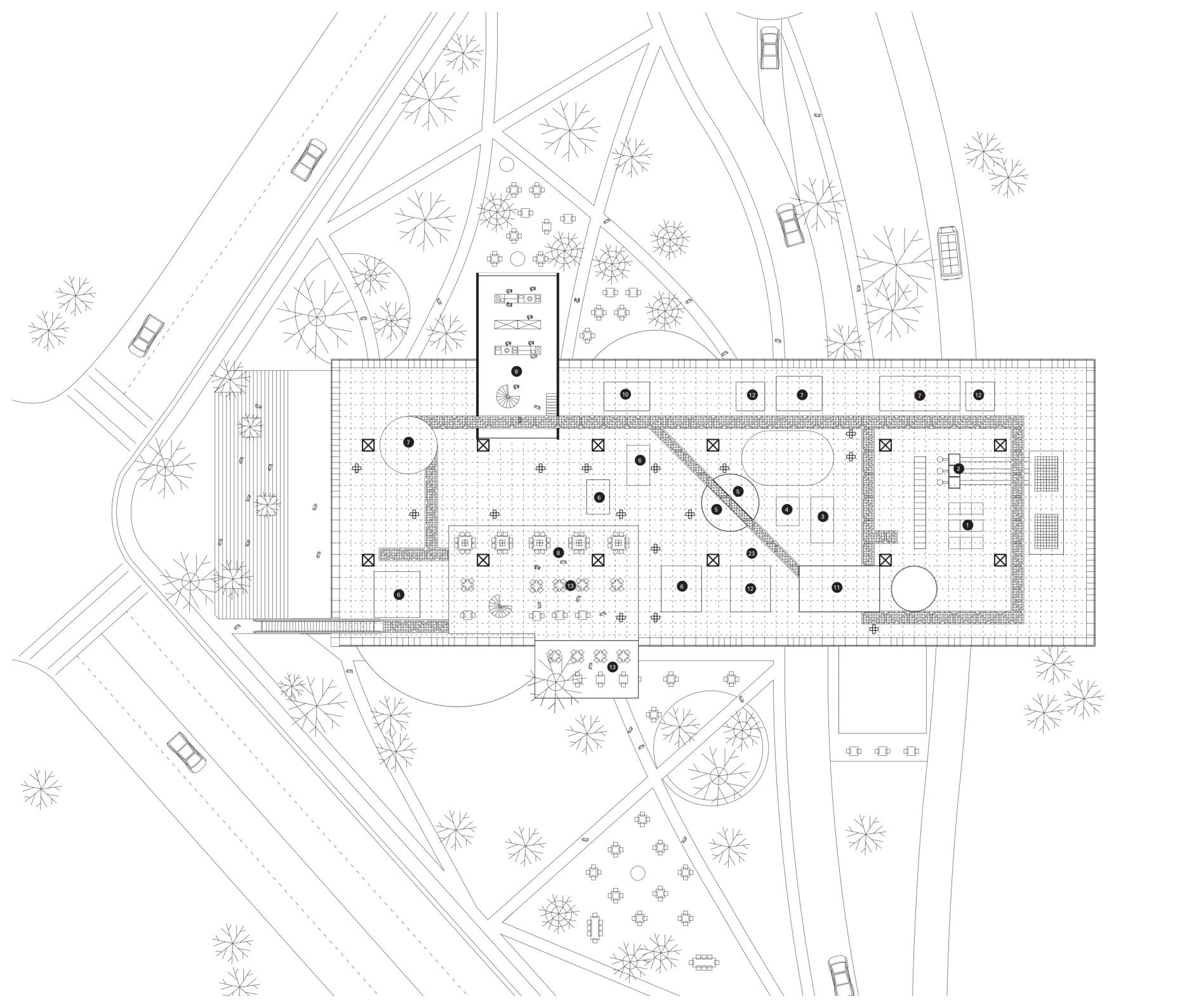
180 r

Inside the trial kitchen, culinary artists can focus on the innovative task of creating perfect dishes; while the automated kitchen works relentlessly to prepare and cook food for the diners.

4//13



Situated just outside Frankfurt's city center, this contribution reconstructs the conventional restaurant layout, placing the automated kitchen in the upper level to give freedom in spatial organization of the ground floor.



1 Preparation area

2 Vacuum chamber 3 Hot water bath

4 Ice bath 5 Homogenizer & flavor

extraction

6 Cooking station

7 Serving station 8 Chef's table

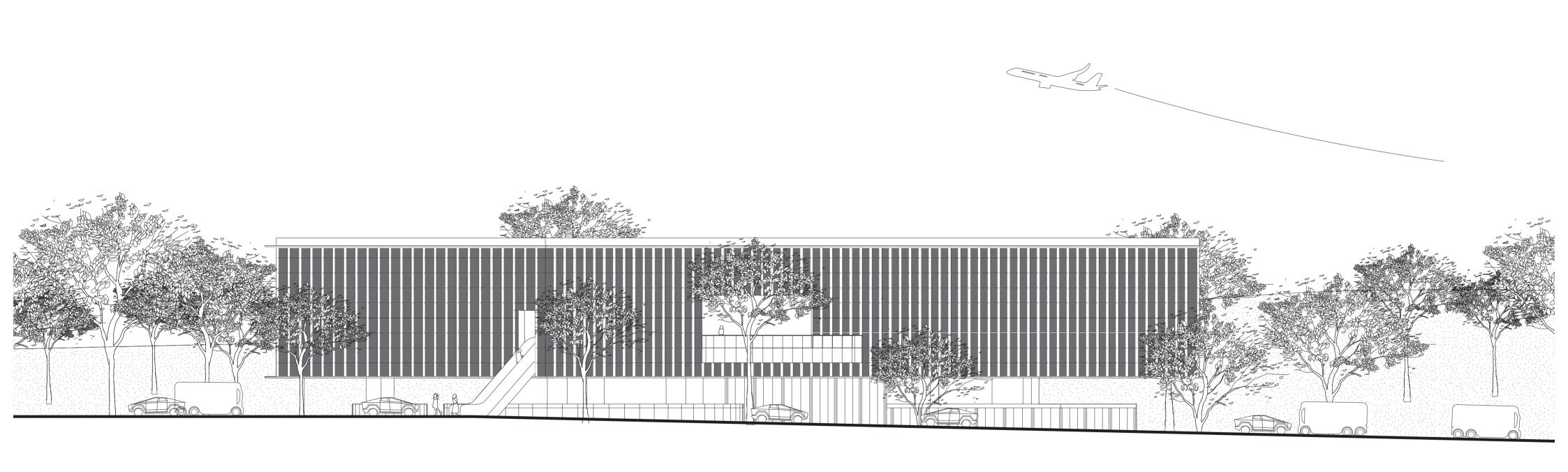
9 Trial kitchen 10 Staff area

11 Quality control 12 Container station

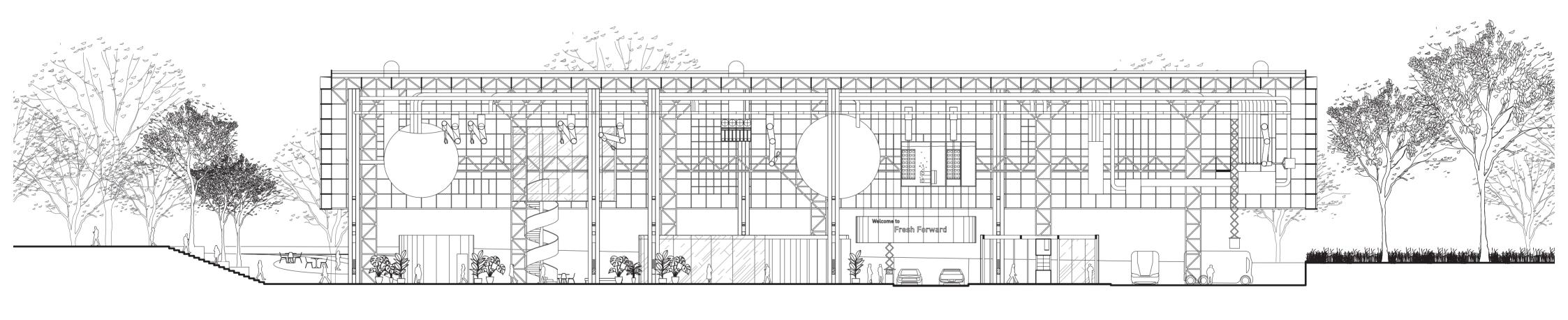
13 Dining area

| 0 150 300 600 m

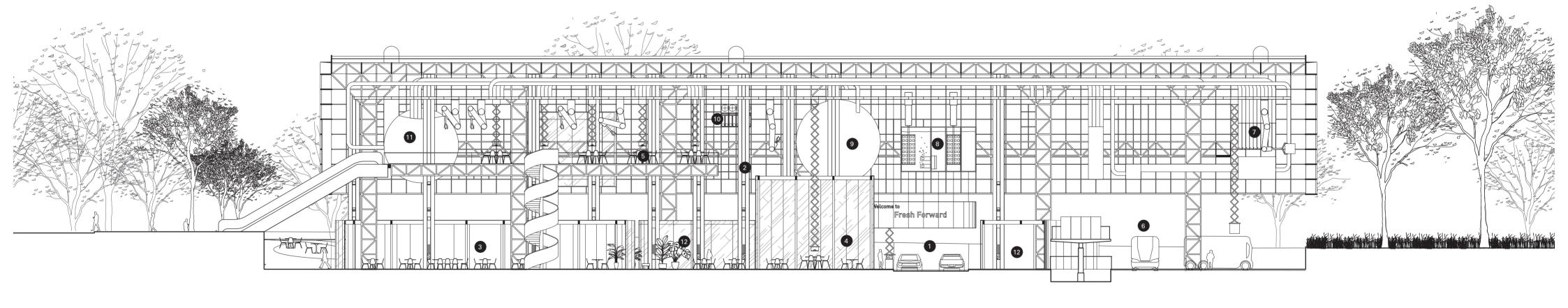
The automated kitchen floor follows strict orthogonal organization, which is dictated by size of raw ingredients and cooking machines.



A street elevation from Bundesstrasse 43, depicting the facade as both a banner and welcome signage for visitors.

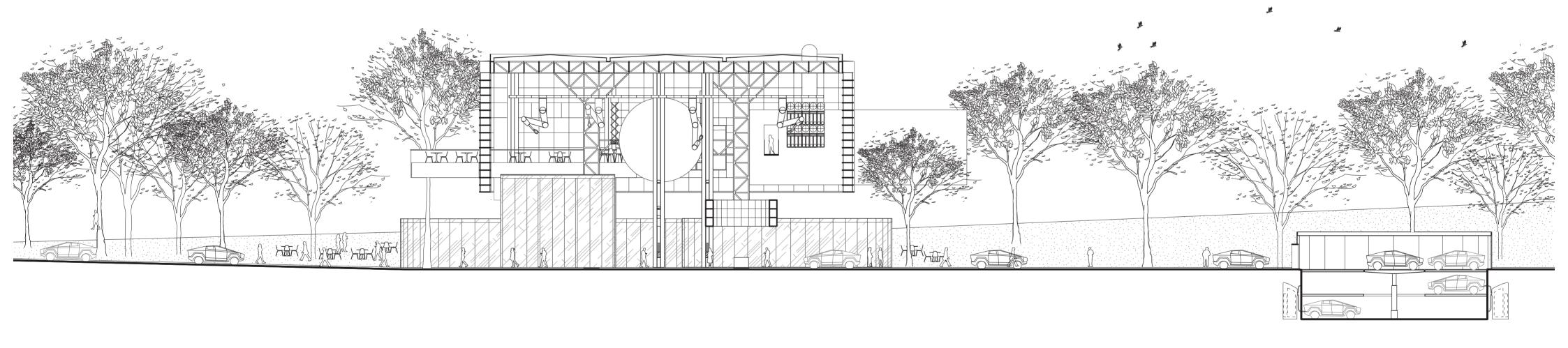


The section depicts the vertical relationship between the automated kitchen space and the dining space. It accentuates how diners can choose how and where they can enjoy their food.



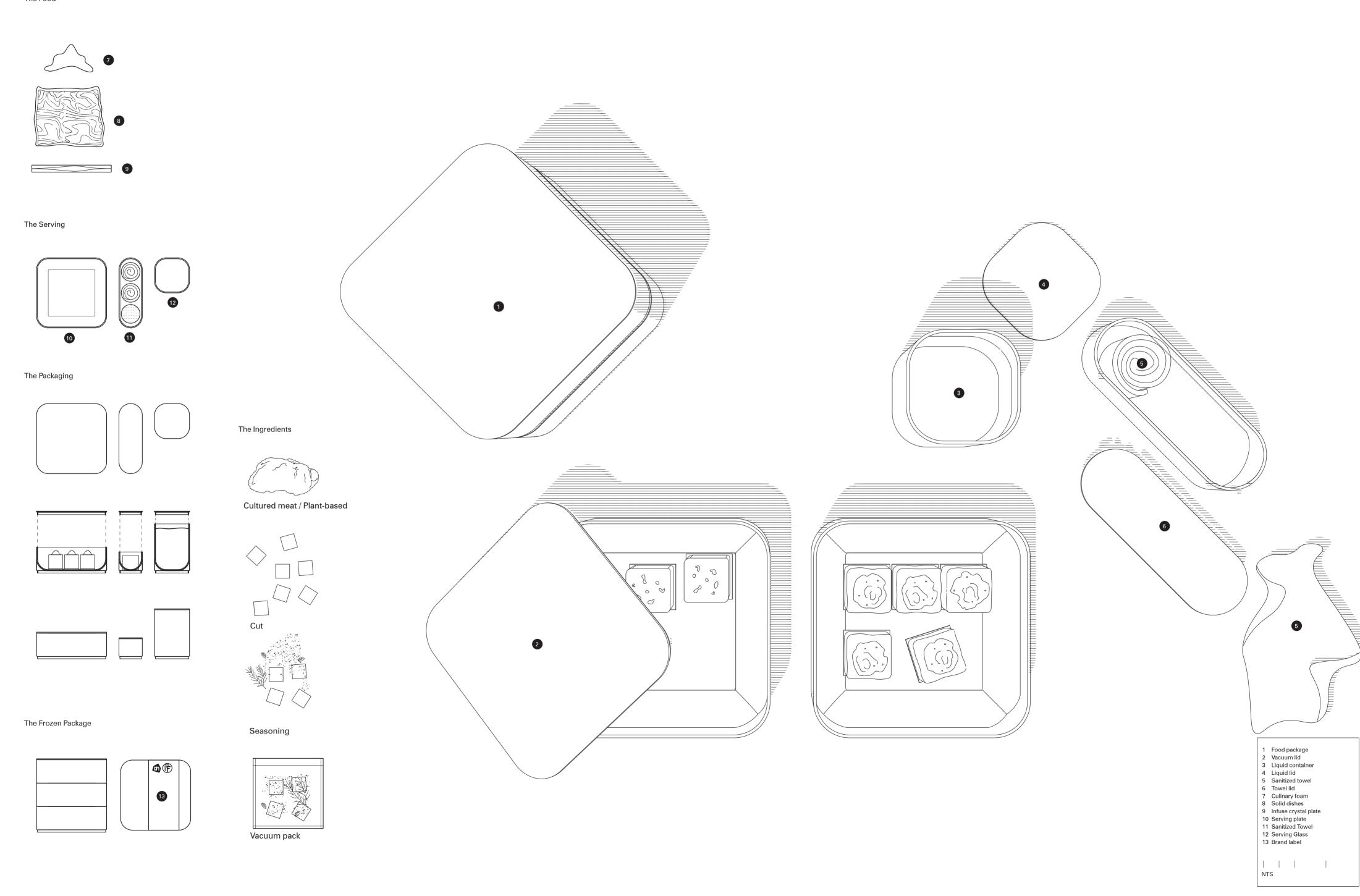
1 Drop off
2 Automat pickup point
3 Dining area
4 Private dining
5 Chef's table
6 Loading dock
7 Preparation area
8 Sous vide station
9 Homogenizer & extraction
10 Cooking station
11 Serving station
12 Frozen kiosk

Diners can experience their meals being automatically prepared, processed, and cooked. The design of the building's section allows for the visualization of the automated kitchen's linear process, along with how food is being delivered through automat locker in the restaurant space.



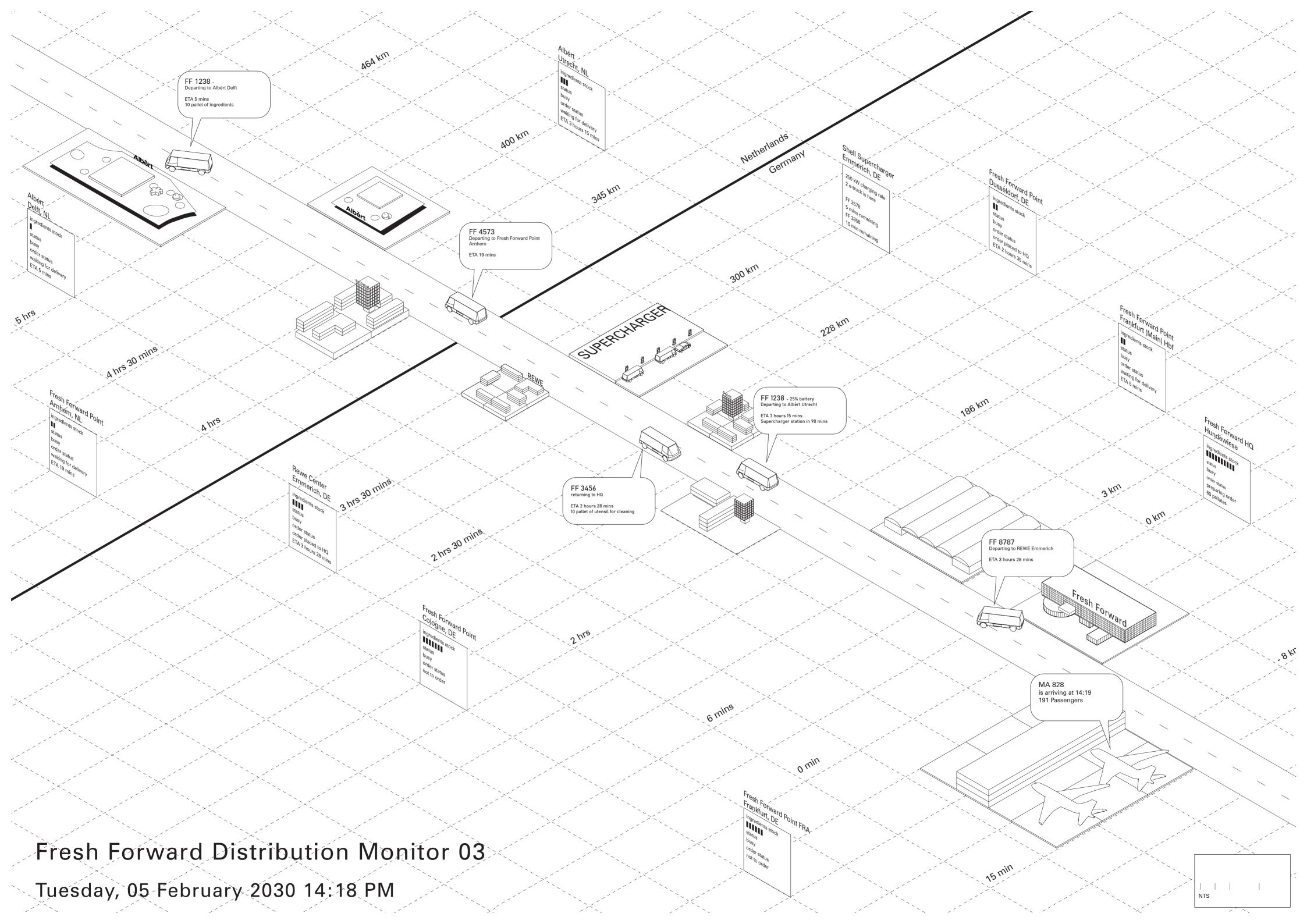
The open plan enables multiple modes of transportation to arrive in the center of the restaurant space.

The Food

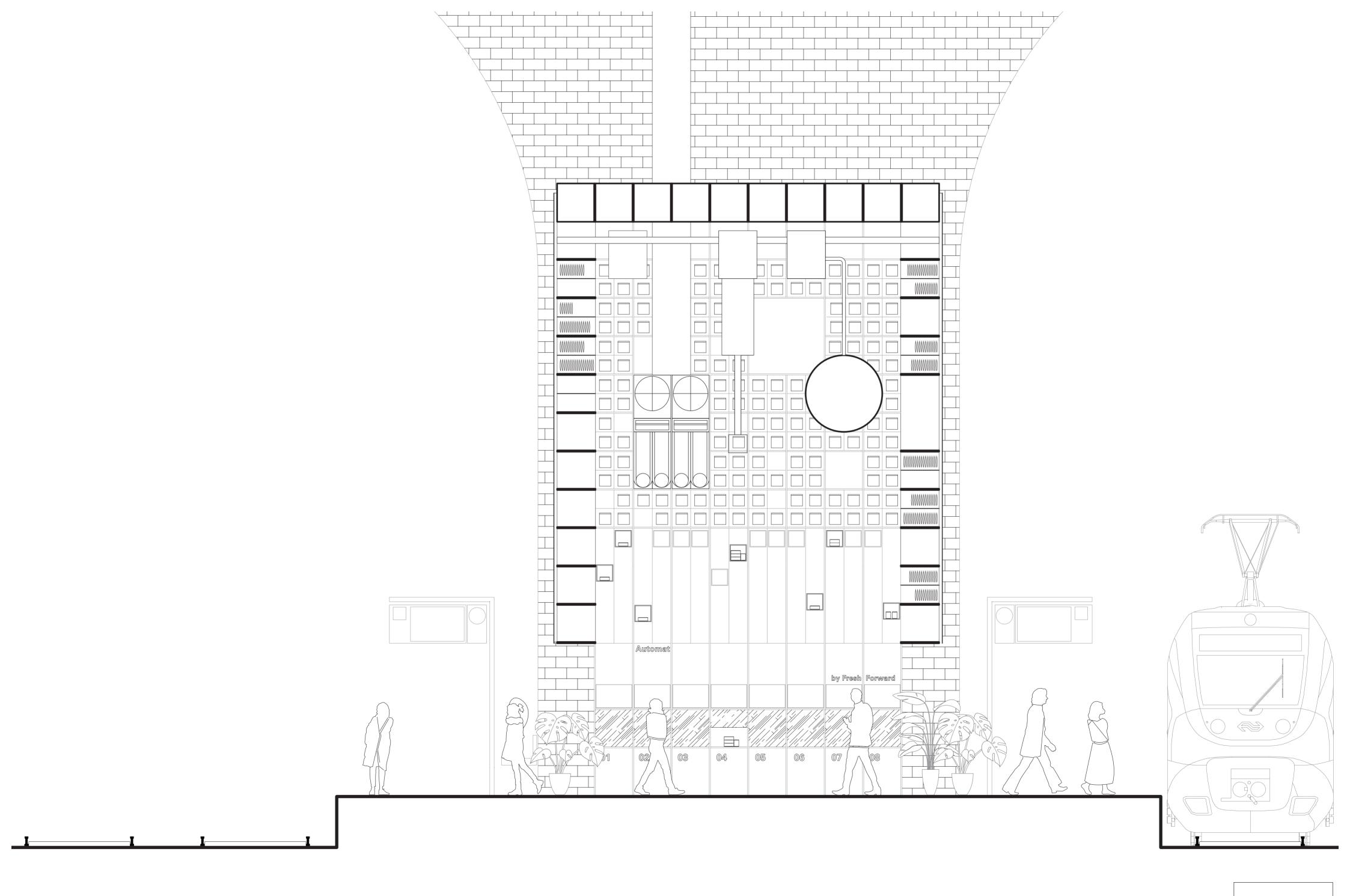


Fresh Forward — Ryan Ridge Rahardja (ID)

This contribution provides a new dining experience for customers all over Blue Banana to enjoy artisanal freshly-made cuisine. Moreover, the packaging design provides a simple and convenient design for diners to easily consume their meal without any utensils



This contribution serves a larger network in the Blue Banana territory, utilizing artificial intelligence and machine learning technology in the food distribution network. The diagrammatic map shows the captured moment of the Fresh Forward distribution line from Frankfurt Airport to Albèrt in Delft.



By adopting the automation technology, the contribution ensure convenient access to freshly made food in a place that usually does not have the luxury of space and labor, such as a busy train station, to enjoy freshly cooked meals made by artisanal chefs. It proposes a new way of healthy consumption especially for commuters, workers, and businessmen.