ADAPTABLILITY

Being able to meet the fast-paced delivery demands of the future will become increasingly important for delivery companies. To keep control of the parcel flow and being able to target their efforts with the highest precision is what the Toyota BEE does best.


The Toyota BEE is an autonomous mobile post office solution that works hand in hand with its human counterpart to streamline the workload. The idea is to decentralize the human workforce, spread them out and to let them use the Toyota BEE as there office.

I explored the idea of streamlining the current system by chopping it up into cleaner, more efficient agile vehicles. The size then improves the delivery coverage-area whilst their carrying-volumes becomes more manageable to scale based on what's actually needed. Less empty space driving around on the roads, less money lost.

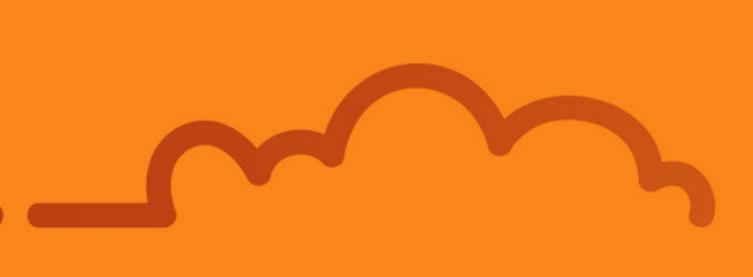


Bee













DAVID WOLTER for TOYOTA MATERIAL HANDELING

SAFETY BEFORE ALL

Toyota for me has always been about safety, that has therefor been a main priority when designing the Toyota BEE. Safety in the sense of its surrounding environment, but also towards its cargo. Making sure it always arrives safely to its destination. To assure this, the Toyota BEE is equipped with the latest in sensory and communicative technology.

On the top of the vehicle, there are two 360° cameras and distance sensors constantly scanning the Toyota BEE's surroundings. The two large screens facing forwards and backwards gives the Toyota BEE a friendly impression and facilitates the Toyota BEE's interaction with its surroundings. To further enhance the communicative aspect each of the four wheels are equipped with small LED screens indicating the current status of the vehicle whether it's moving, holding, turning and so on.



Mobile Control Points



CONNECTIVITY

The Toyota BEE is able to act as a unit on its own or as a part of a much larger HIVE system. Its ability to communicate with other units within the system makes it adaptable to the fast-moving demands of a changing landscape.

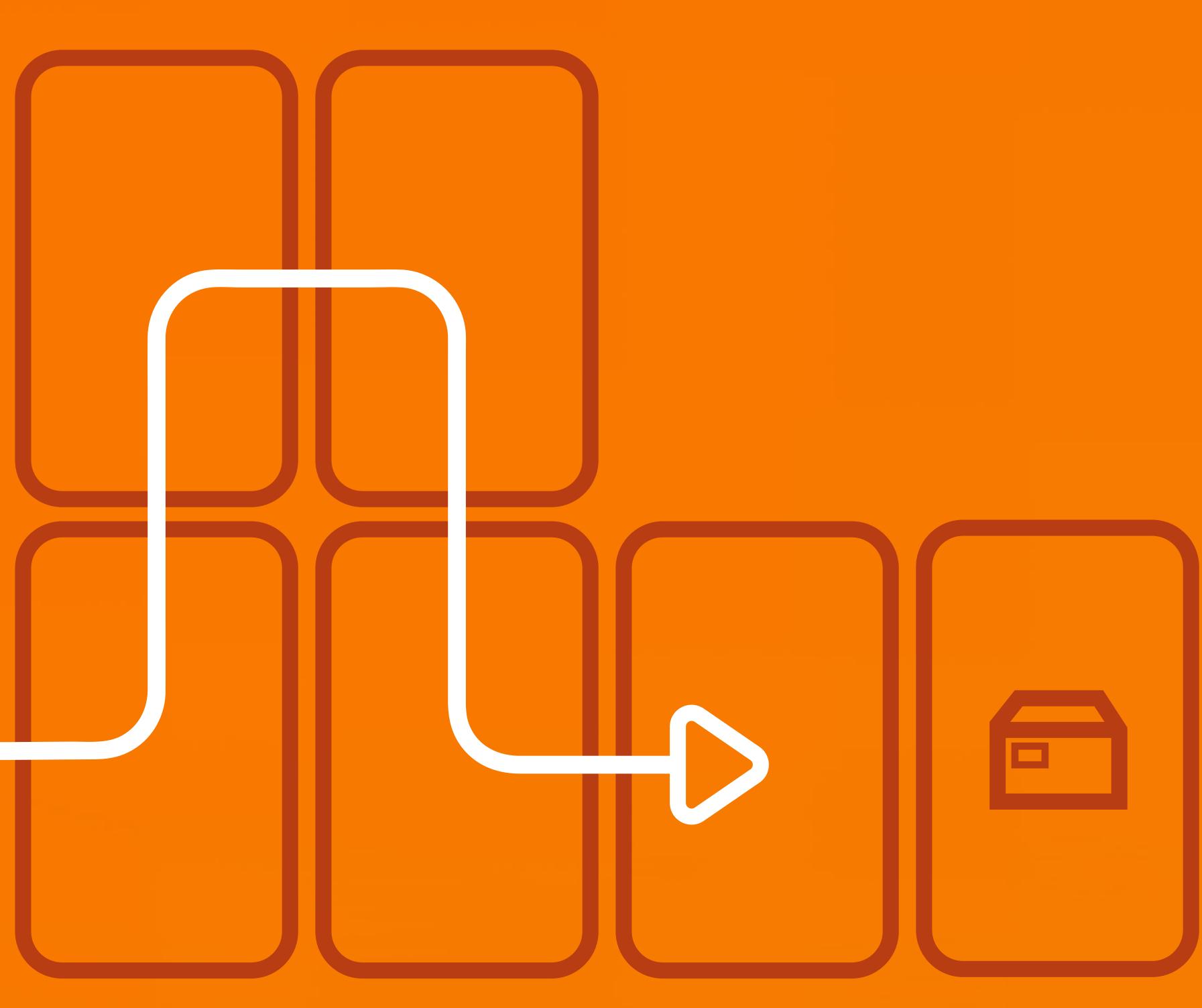
Depending on the location and need the Toyota BEE can go from being a mobile storage solution to being a stationary postal office for the less populated areas in the region.

Usability made easy. The Idea behind the Toyota BEE is to keep it simple and making sure that everyone wants to connect with it. The two big touchscreen on both sides of the vehicle allows for a clear and easily identified user interface. You use your smart device to get access to pick up a delivery or to drop off a parcel. The simplicity of the user interface allows users of all ages to integrate with the Toyota BEE.





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WHAT'S ON THE INSIDE

modules thus more suited for the bigger regional sorting hubs.

The Idea behind the self-sorting module is that several modules that are paired togheter would make it possible for parcels to automaticacly pass between them, using the internal elevator shaftsfound isnide eash of the modules. These shafts go through all the shelf levels, which compiles to four in total. The four shelves are all equipped with individually controlled roll balls, which effectively can transfer and rearrange the parcels on and between the shelves. Each of the shelf levels is equipped with the latest scanning and sensory technology which allows the module to control, arrange and keep track of all the parcels going in and out of the unit.

This all makes for a highly efficient sorting, but also allows for quick changes to be made on the go.

The modules all come with temperature control, this allows for cold goods to be transported as well.





