

Automated Parking Facility ECO Cycle

ECO Cycle



 **GIKEN**

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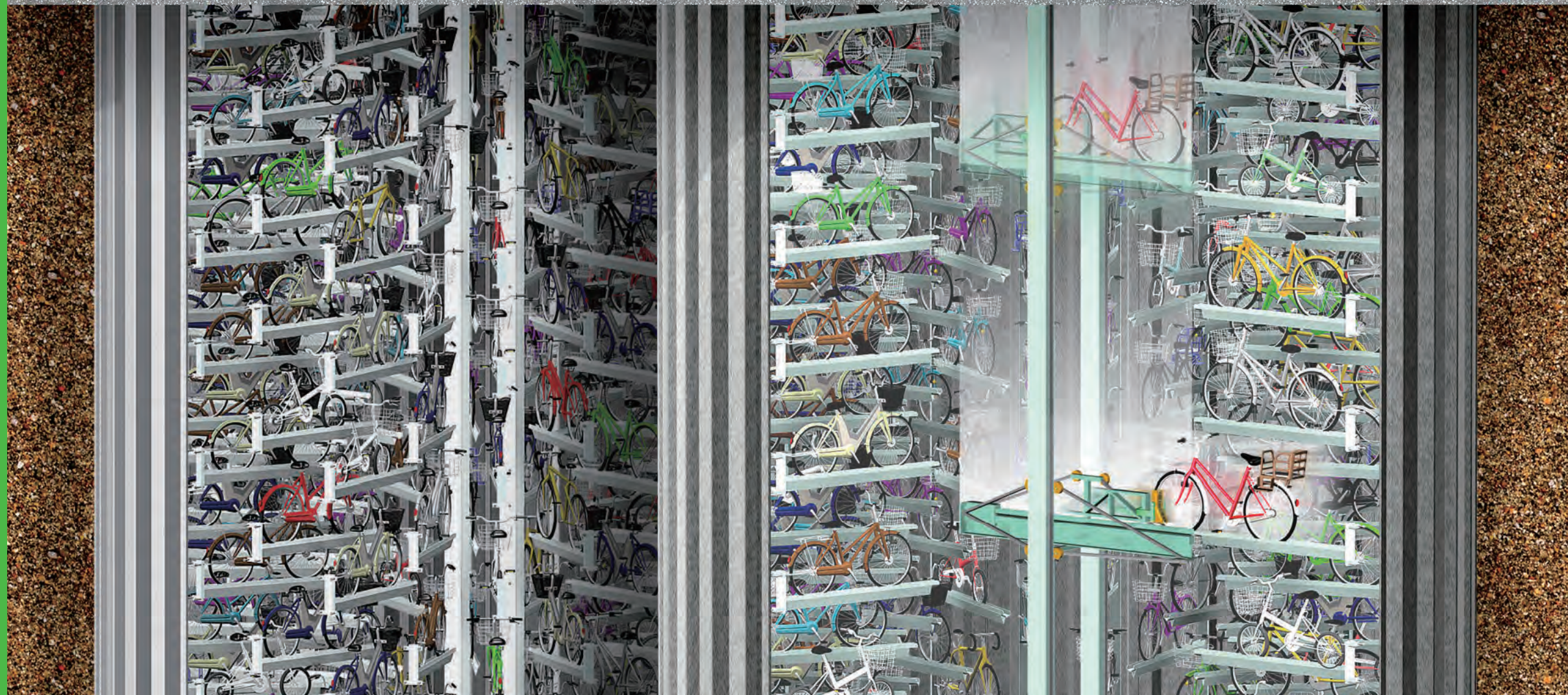
ECO Cycle

Culture Aboveground, Function Underground

ECO Cycle is an automated bicycle parking facility developed with the concept of "Culture Aboveground, Function Underground".

With a compact entrance booth, it requires minimal space aboveground and provides more than 200 parking spaces underground.

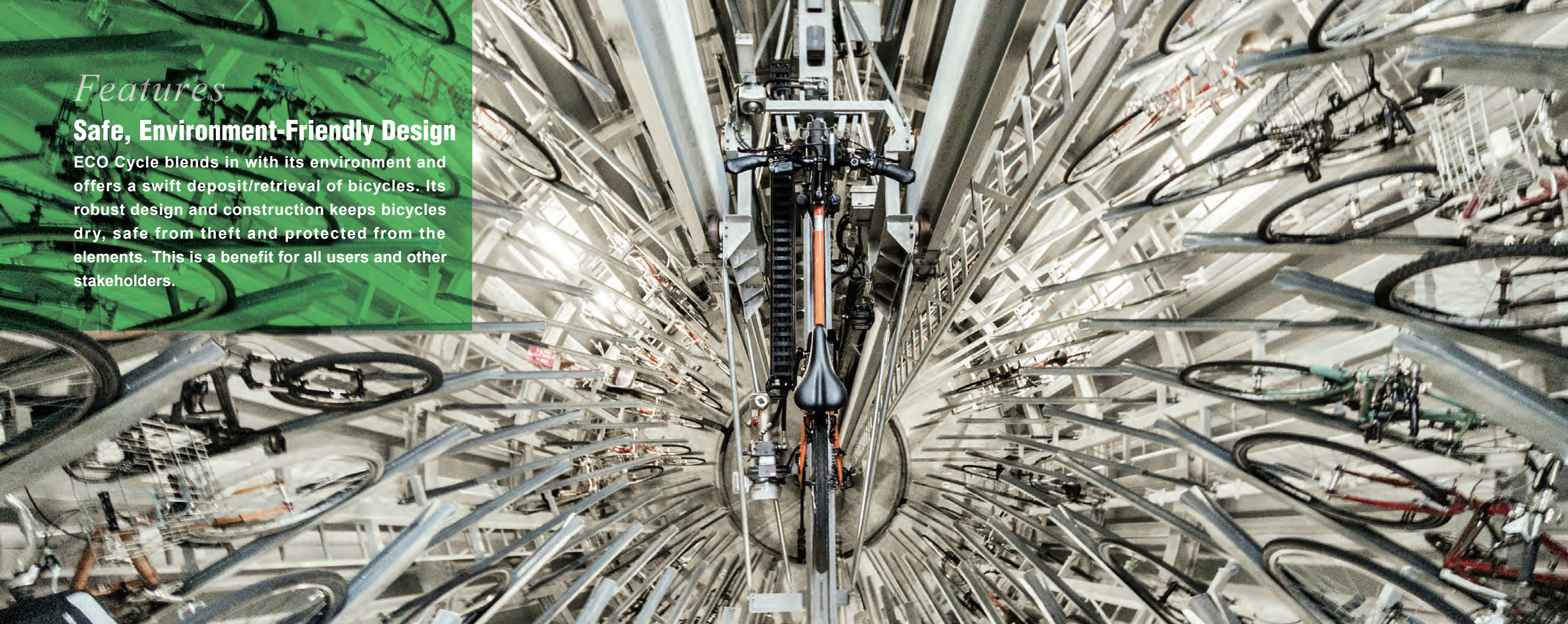
ECO Cycle brings a cultural enrichment to the city by promoting the use of the bicycle and preventing disorderly parking.



Features

Safe, Environment-Friendly Design

ECO Cycle blends in with its environment and offers a swift deposit/retrieval of bicycles. Its robust design and construction keeps bicycles dry, safe from theft and protected from the elements. This is a benefit for all users and other stakeholders.

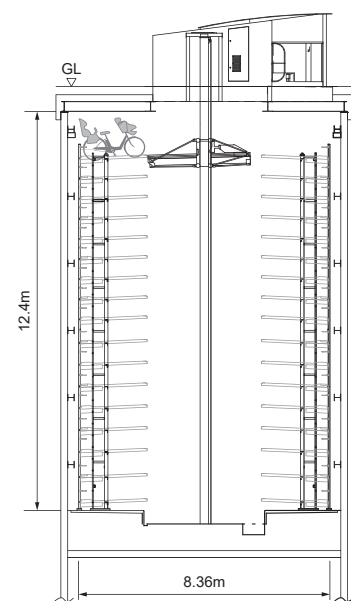


Underground Model

Designed for the concept of "Culture Aboveground, Function Underground", the underground model enables high accommodation efficiency. With a compact exit/entrance booth, it frees up cultural and public space aboveground.



Shinbashi Station, Tokyo

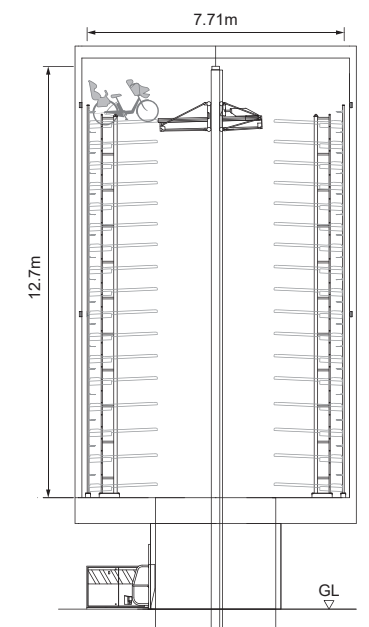


Aboveground Model

Maintaining similarly high accommodation efficiency as the underground model, the aboveground model can be incorporated into buildings. With the option of installing an exterior glass wall, the aboveground model can be an iconic feature of a building.



Roppongi Station, Tokyo



Speed

High Speed Operation

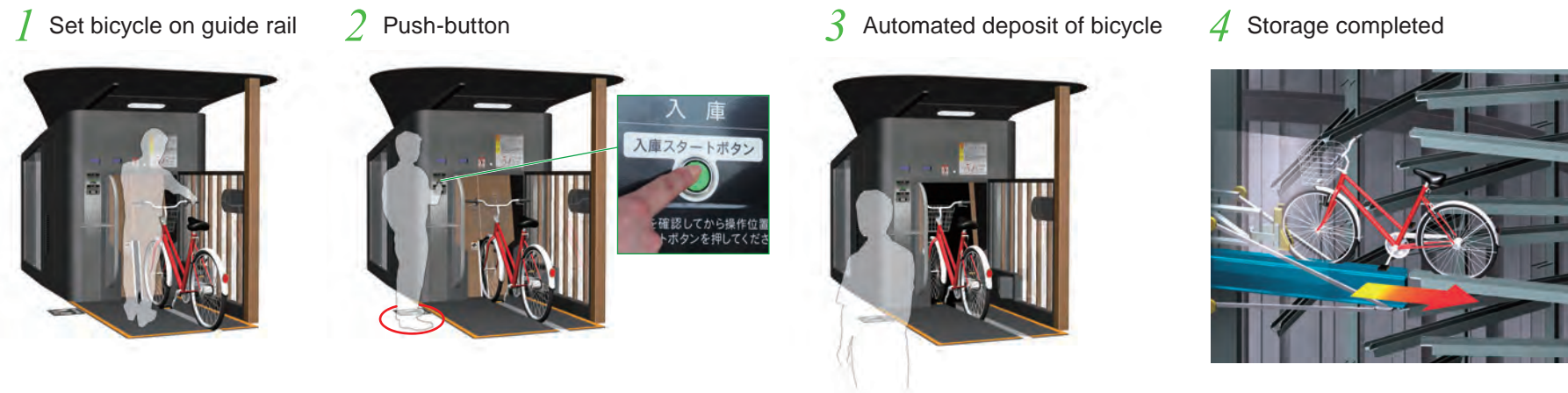
The speed of operation is a key strength of the ECO Cycle, with the fastest retrieval at 8 seconds (average of 13 seconds), reducing wait times and congestion.

Simple Operation

Push-button to deposit and swipe IC card to retrieve.
Easy and simple operation made accessible to all users.

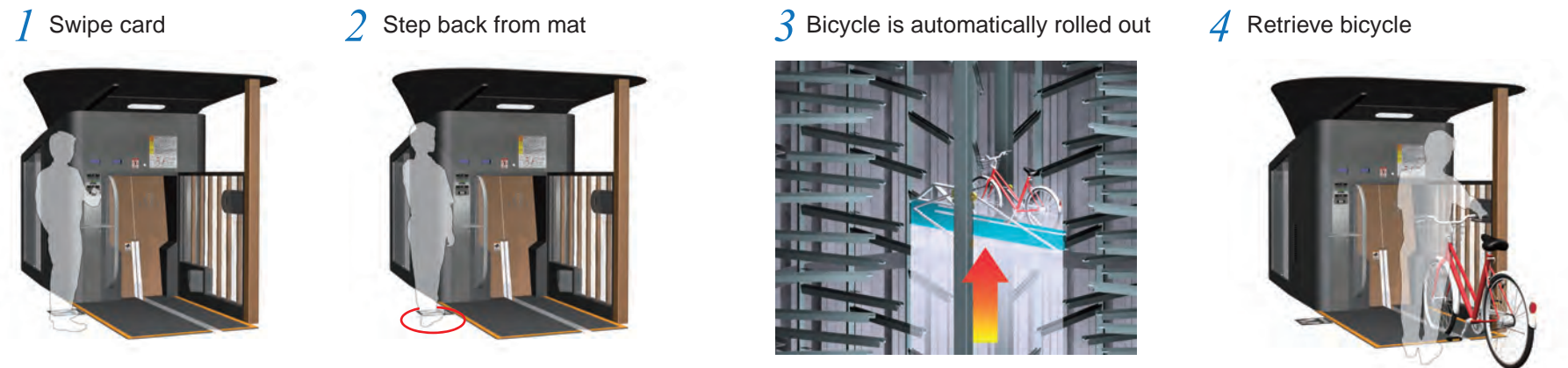
Deposit

The ECO Cycle automatically recognizes the tag attached to bicycles. Users can deposit with a single push-button.



Retrieval

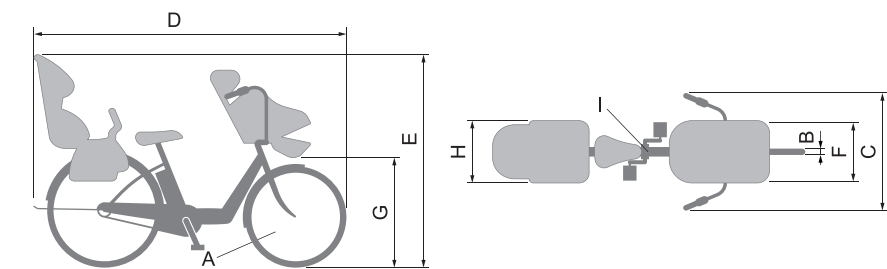
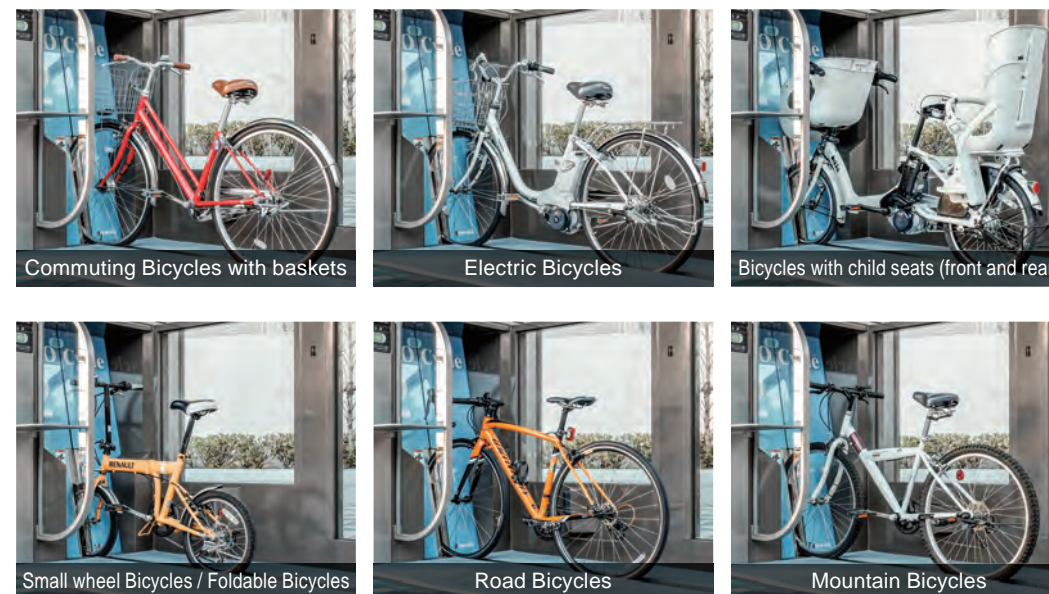
Simply by swiping an IC card, user can retrieve bicycle within an average of 13 seconds.



Supports Many Bicycle Types

ECO Cycle can accommodate various type of bicycles, from commuting bicycles to mountain bicycles and electric bicycles.

Example of bicycles that can be parked *Japanese Specification



A	Tire Size	18-28"
B	Tire Width	Max. 55mm
C	Total Width	Max. 650mm
D	Total Length	Min. 1400mm, Max. 1950mm
E	Total Height	Max. 1350mm
F	Front Basket Width	Max. 500mm
G	Front Basket Height From Ground	Max. 550mm
H	Rear Basket Width	Max. 500mm
I	Weight	Max. 40kg

Safety

High Design Safety

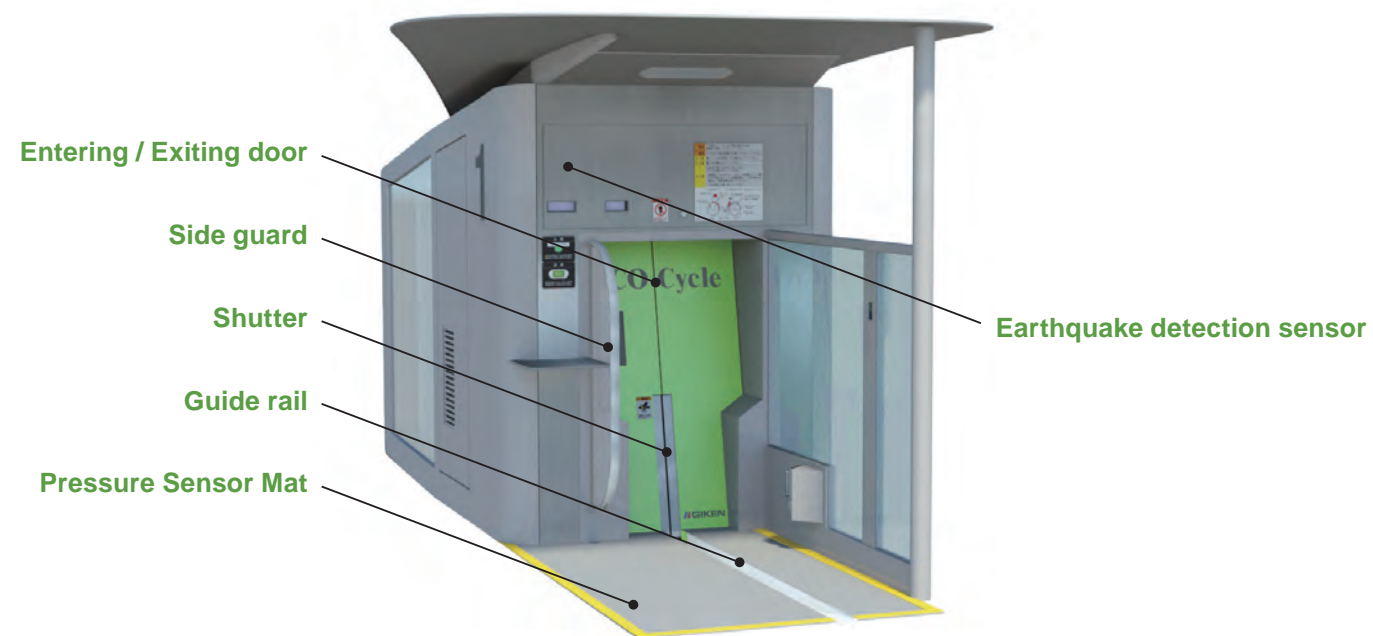
Considering the safety of both users and bicycles, ECO Cycle is equipped with various safety features



Ecology

Design · Construction Concept

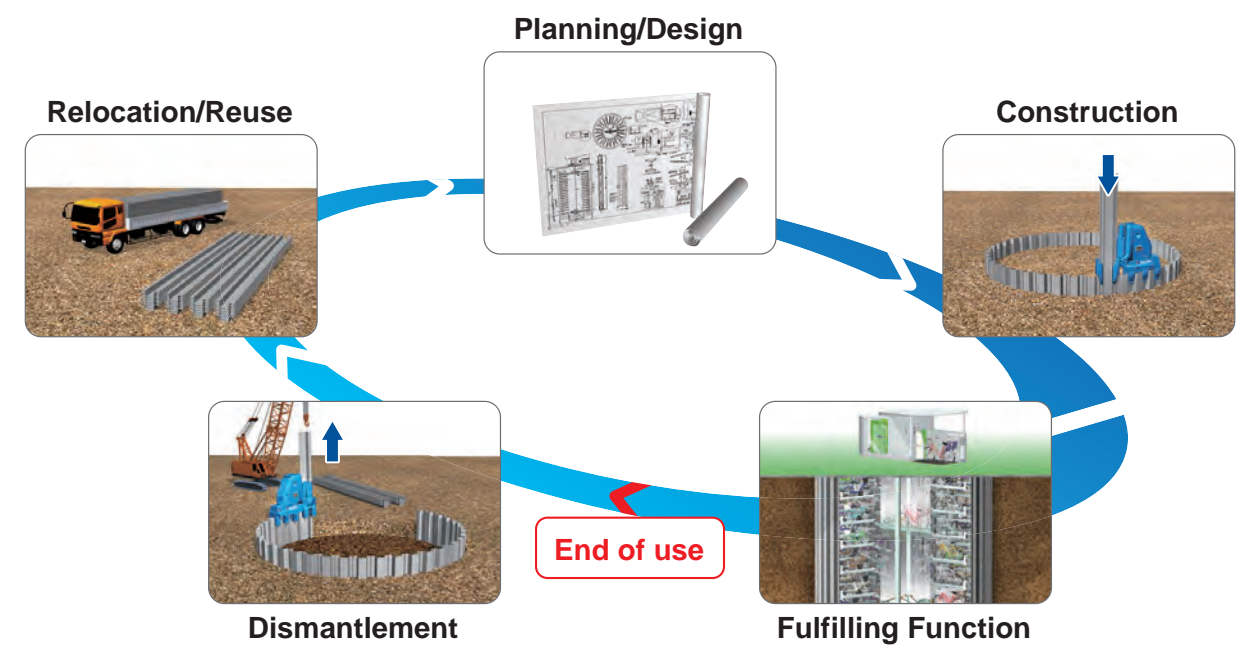
Giken's original construction method [Press-in method] minimises construction period, space, noise and vibration. The framework is also designed for easy removal after use.



- Entering / Exiting door** The entering / exiting door only opens when bicycles passes through. This prevents users from entering the ECO Cycle.
- Side guard** The guard prevents entry by children and ensures safety
- Shutter** Using Giken technology, the shutter will only accommodate up to the width of tires. Any oversized item will be rejected.
- Guide rail** Sensor will automatically detect any misaligned bicycles and bicycles that have been wheel-locked. A warning announcement will be made to alert users.
- Presssure Sensor Mat** Pressure Sensor Mat is designed to stop operation when a person is standing on the mat. If someone stands on the mat when a bicycle is passing through the door, the operation will be halted and the bicycle will be returned to its original position.
- Earthquake detection sensor** The operation will automatically stop if an earthquake with an intensity above a nominated level is detected.

- Rapid Construction** The simple construction process enabled by the Press-in Method allows for completion of one unit in as short as two months.
- Space-saving Construction** Integrated, compact machinery allows for construction in tight quarters, limiting impact on the surrounding environment and transportation networks and maximizing cost-efficiency.
- Noise and vibration free construction** Construction using Giken's Silent Piler will minimise noise and vibration compared to conventional methods. This will allow construction to be done without disturbing the environment.

Functional Structure - Easy to relocate / reuse



"The right function for the right time."
 The ECO Cycle is designed to be a "functional structure". Taking into consideration the fact that bicycle parks may become unnecessary, it allows simple deconstruction and removal, leaving the environment in its original state. The materials removed can also be reused, contributing greatly to a sustainable society."

Support

Reliable Customer Support



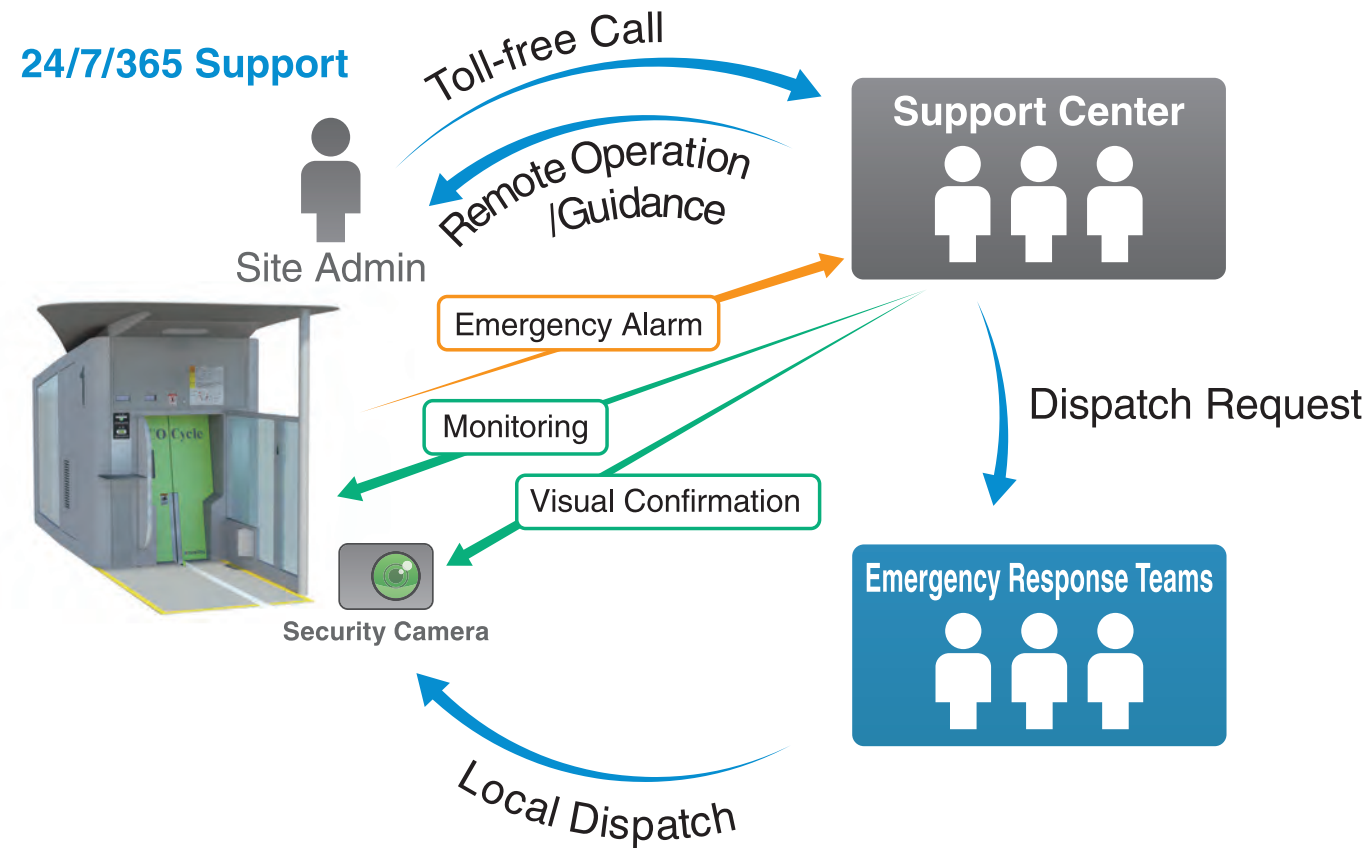
Observation

Visit Us



Our Support System

In case of any malfunction within Japan, the emergency alarm will notify our support centre and operations can be restored remotely. Technical personnel will be dispatched promptly in case remote restoration is not possible.



Real-time Monitoring

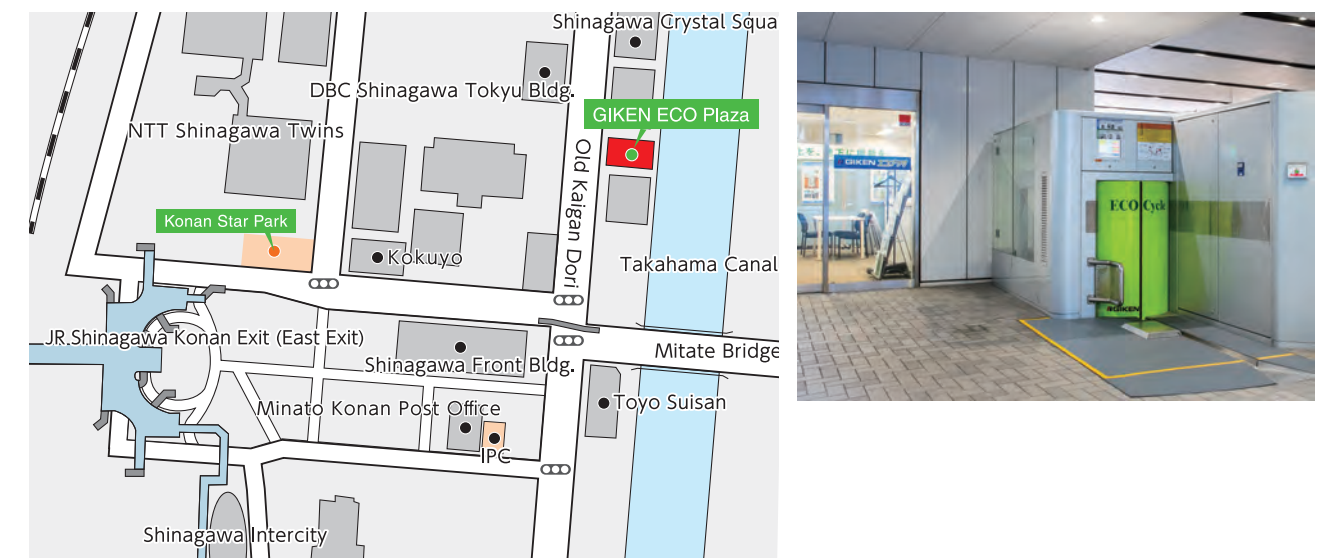
Cameras installed in the ECO Cycle provide 24/7 monitoring capabilities; staff can respond promptly and accurately.

※Customer Support in international markets to be developed and agreed on a contract specific basis.

GIKEN ECO Plaza

Visit us to see and learn more about Eco Cycle

Address: Daido Shinagawa Building 1F, 1-6-35 Konan, Minato-ku, Tokyo
7-minute walk from JR Shinagawa Station Konan Exit (East Exit)



For more details, please contact us below.

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Specifications

Mechanism	Elevator (Rotating)	
Capacity	204 Bicycles (Standard Spec)	
Operation Method	Card Reader (IC Card + IC Tag)	
Retrieval time*	13 Sec. (Average)	
Usage Type	Monthly / One-time / Rental Cycle (Combined Use Possible)	
Bike Specification	Tire Size	18-28"
	Tire Width	Max. 55mm
	Total Width	Max. 650mm
	Total Length	Min. 1400mm, Max. 1950mm
	Total Height	Max. 1350mm
	Front Basket Width	Max. 500mm
	Front Basket Height From Ground	Max. 550mm
Rear Basket Width	Max. 500mm	
Weight	Max. 40kg	

※ Time from swiping card to exit door opening

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※ Product specifications may change without notice

※ ECO Cycle is a registered trademark of Giken Ltd. In Japan.

Global Network : Japan, Netherland, Germany, USA, Singapore, China, Australia