Portable Bicycle Parking System

MOBILE ECO Cycle™

GIKEN

MOBILE

ECO Cycle

Aiming to form a smart cycle community that allows the use of bicycles “anytime”, “anywhere” and “easily”

Currently, bicycles are gathering attention as a cutting-edge means of transportation regarding ecology, CO_2 reduction, clean energy, and healthy lifestyles.

A bicycle parking system that can maximise the convenience of bicycles is Mobile ECO Cycle.

The Mobile ECO Cycle is an innovative portable bicycle and parking system. It can quickly be constructed in small spaced areas and whenever and wherever you need it. In addition, it can be easily removed once the usage period is over.

Since our first launch of the earthquake-resistant underground parking for bicycles "ECO Cycle" in 1998, we have applied our original press-in technology and have accumulated a number of achievements as a pioneer of mechanical-type bicycle parking. The Mobile ECO Cycle also has easy-to-operate, high-speed, and advanced storage technology features developed through significant achievements.

By linking the potential of bicycle use with the advantages of the Mobile ECO Cycle, we propose creating a smart cycle community — cutting edge clean transportation culture where bicycles can be used "anytime", "anywhere", and "easily."

Earthquake-resistant underground bicycle parking
ECO Cycle (Minato-ku, Tokyo)

Potential of bicycle use

Ecology
Economy
Healthy
Fashionable

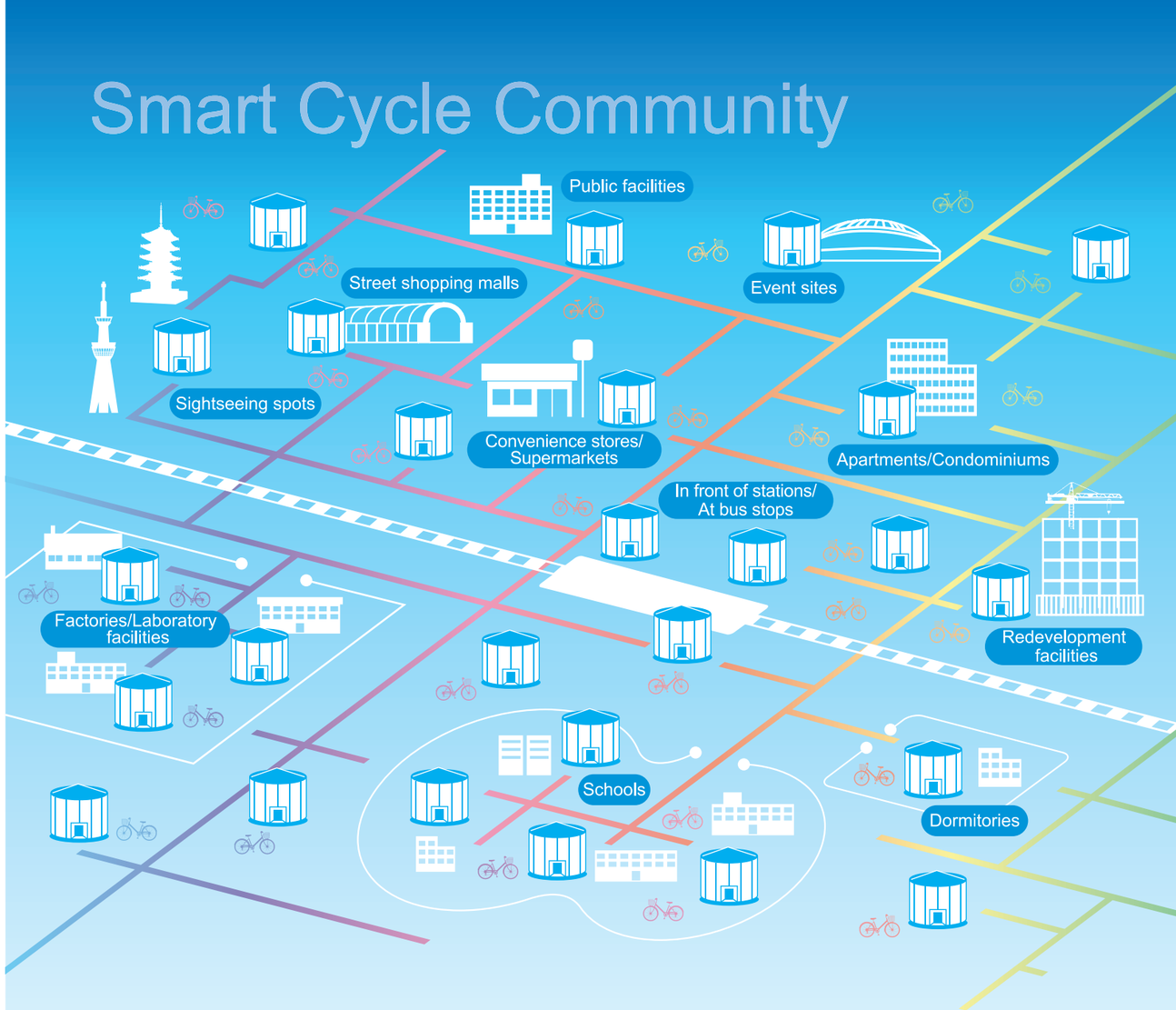
+

Advantages of Mobile ECO Cycle

Space saving
Quick setup
Easy/comfortable operation
High-speed

A cutting-edge and clean transporation culture

Formation of a smart cycle community



Setting Image

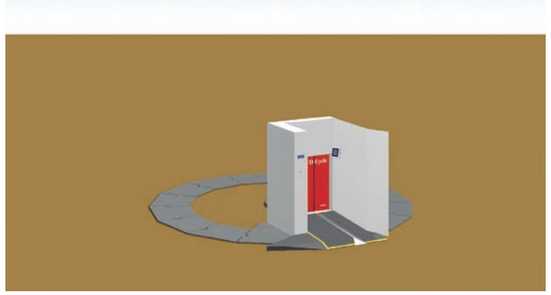
The innovative portable system provides quick and comfortable parking, while also boasting impressive capacity.

1 Portable system that is easy to setup/remove

Because of its thoroughly partitioned assembly, it can be quickly setup using simple procedures.
Setup work can be completed in one or two days and removal work can be completed in one day.

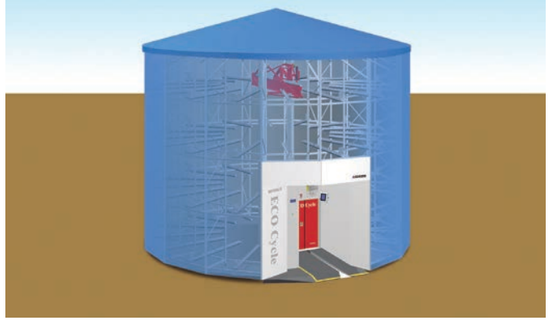
① Transport all parts with just one truck.

② Set up the base and entry/exit booth.
(Anchoring is not needed.)



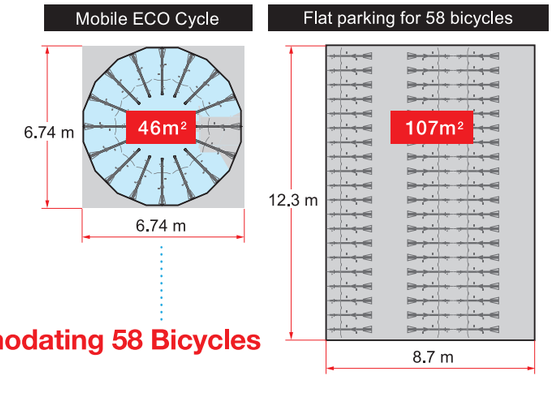
③ Assemble the frame parts, and install the machinery equipment.

④ Mount the outer wall.



2 Space-saving and high-capacity

Storage capacity of 58 bicycles is possible in a property space of 46 m². Capacity ratio is approx. 2.3 times that of a typical flat parking lot.



3 Simple and speedy storage/retrieval

Deposit/retrieval operation is simply done with a touch panel. Users are not made to wait even when they are in rush hour as the average time to get a bike out is 9.7 seconds.

■ Loading bicycle *in the case of a password entry system

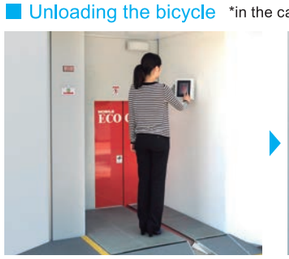
Input your password using the touch panel.

Push your bicycle forward.

Press the entry/exit start button.

The bicycle is pulled in and stored inside.

■ Unloading the bicycle *in the case of a password entry system



Input your password using the touch panel.

Press the entry/exit start button.

The carrier device fetches your bicycle.

The door opens and your bike is pulled out.

4 Safe from being soaked by the rain or vandalised

Because bicycles are stored in a covered area, there is also no worry about getting wet from the rain or being vandalised.

5 Flexible Registration System

With the standard specification, users can register their bikes using IC Card and IC Tag. This makes bicycle registration, drop-off and retrieval, a simple procedure. Electric password access is an available option on request.

6 Economical running cost

A fully automated storage system reduces the burden on caretakers and the maintenance work is also easy. The cost of electricity per entry/exit is about JPY 0.12, and running costs can be significantly reduced.

*Does not include standby power consumption and basic contract fees.

7 Exterior walls can be used culturally & commerically

It is possible to print any design on the wall,including ones that complement the local scenery. For example, as a new media to attract attention, it can also be used for corporate ads and as a tourism guide.

Image of Installation

Near Train Stations & Bus Stops

Bicycles can be placed in front of stations and around bus stops as a means of transport to link existing transport systems such as railways and buses. The wall can also be used for digital signage and as a new advertising media.

Under Elevated Railway or Road

The Mobile ECO Cycle can be installed in space under elevated structures such as railways and motorways. In this way, dead space can be effectively utilised to provide convenient and safe bicycle parking facilities.

At Sightseeing Spots

Multiple units of Mobile ECO Cycle located around each popular tourist destination allow tourists to use them as rental cycle ports. Also, sightseeing guide maps can be drawn on the walls.

At Event Venue

Short-term rental cycle service can be easily supplied for a travel mean inside the venue or to connect the venue from mass transportation stations. The exterior walls can be used as event advertising space.

At Convenience Stores and Supermarkets

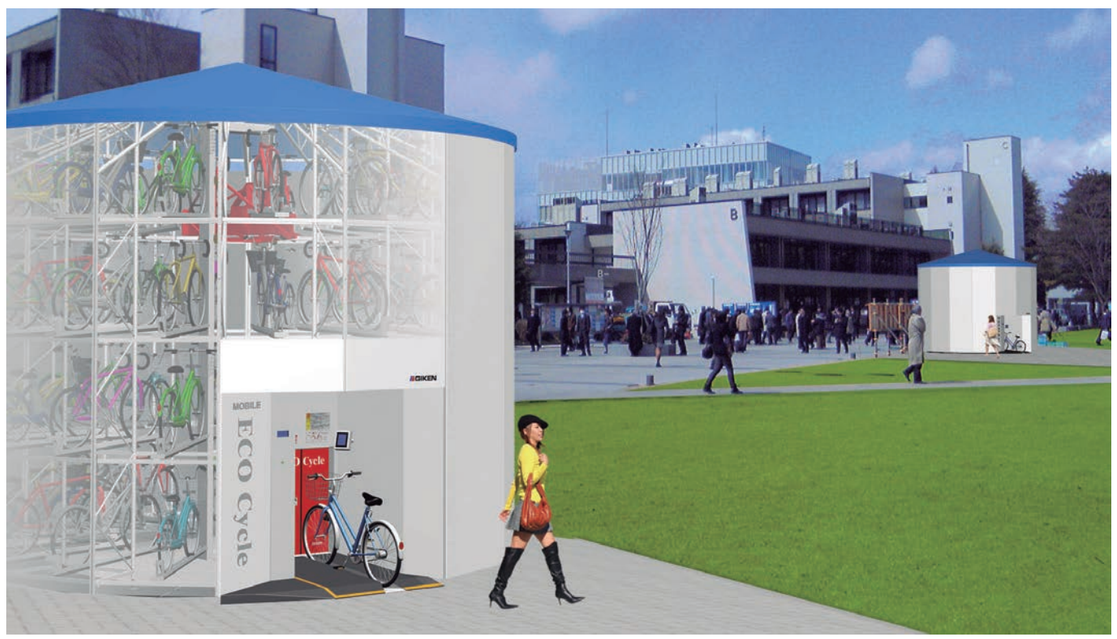
It can be installed in convenience stores and supermarkets to attract customers and create a synergistic effect of convenience. It can form an extensive community closely linked to daily life.

At Street Shopping Malls

It helps to eliminate abandoned bicycles in shopping streets where there is little space for bicycle parking.

At Schools

It promotes cycle sharing for commuting and moving around a wide campus-area by installing Mobile ECO Cycle beside classroom buildings on campus and student dormitories.



At Public Facilities

It can be used as a base for community bicycles at public facilities such as city hall, public libraries and museums. The walls can also be used as public service messages/advertising.

At Apartments/Condominiums

Installing the Mobile ECO Cycle, which can conveniently store trending bicycles such as electric power-assist, upscale and shared bicycles, in housing complexes can enhance their property values.

In Factory/Laboratory Facilities

A company can demonstrate that it promotes the use of bicycles for both getting around its large premises and for employees' commuting.

During Redevelopment Project

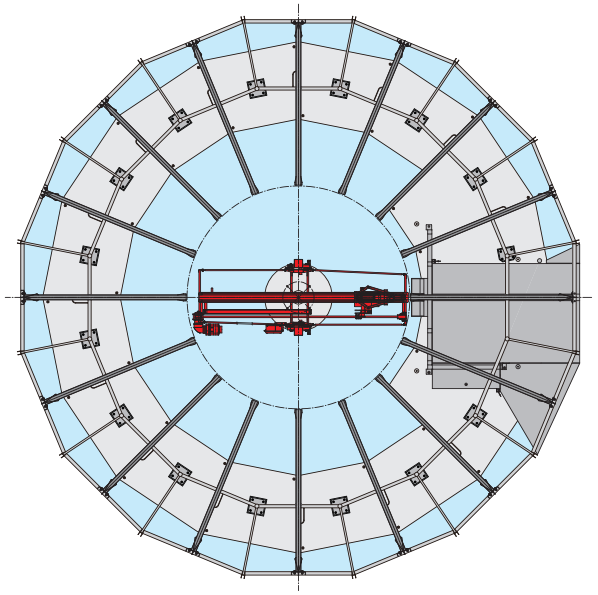
The Mobile ECO Cycle is simple to install and remove, so it can be utilised as a temporary bike parking solution.

In preparation for disasters

In case of a major disaster that disables rail, car and other forms of transport, the Mobile ECO Cycle can be deployed at each location so that people can use the bicycles to get home.

Mobile ECO Cycle Specifications

[Plan]

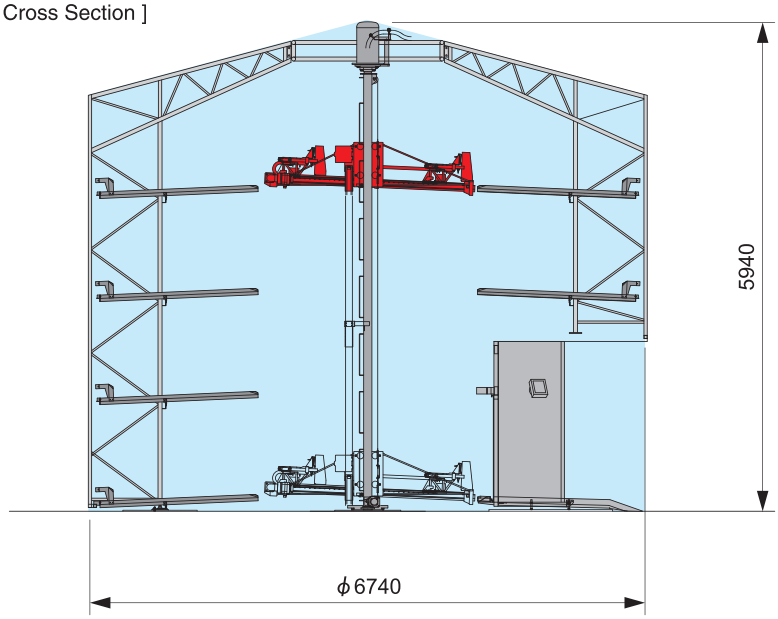


[Specifications] *1

Carrige Methodology	Elevator type (Swivel, bottom loading type)	
Storage capacity	58 bikes	13 bikes × 2 layers 16 bikes × 2 layers
Permitted bicycles *2 — Tire size	24 - 28 inches	Electric-assist bikes Regular bicycles Road bicycles etc.
Permitted bicycles *2 — Width	Width	45 mm or less
Management system	Owner's bicycle storage system Rental cycle system Community bicycle system (Using the above together is also possible)	
Method of authentication	IC tag & Card-reader type (optional)	
	Password type (optional)	
Retrieval time *3	Avarage of 9.7 sec. (fastest time of 8.0 sec.)	
Total Mass	4.3 ton *4	
Projected area	35.7 m^2	

*1 Please be aware that specifications can change without prior notice.
*2 There are some types of bicycles that cannot be stored.
*3 Retrieval time: from the start of mechanical operation to the delivery at the exit.
*4 Does not include the weight of stored bikes.

[Cross Section]



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