

**SIP-adus  
Workshop  
2020**



# **KYOTO Raku Mobi Contest**

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## Contest Objectives and Aims



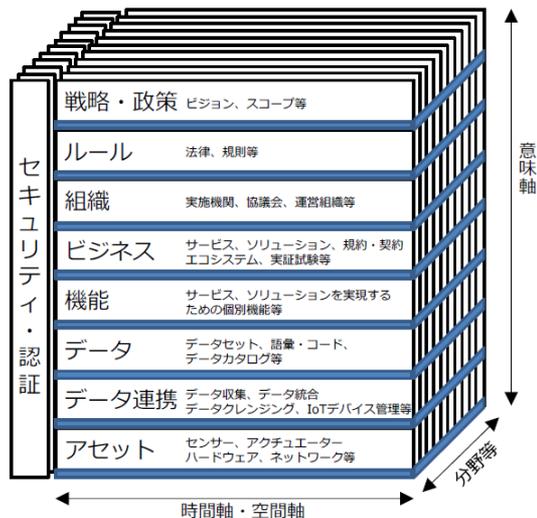
# Contest Objectives

- This contest was held as part of the Research Study on the Design and Construction of Architecture Related to Automated Driving and Driving Assistance.
- The objective of the contest was to contribute to the creation of applications and services which resolve the transportation and tourism issues faced by Kyoto, a world class tourism destination and symbol of Japan, by collecting, organizing, and leveraging various traffic environment information (traffic, logistics, facility, and other data) based on the architecture concept.
- This objective was achieved by creating a contest that would be publicized among organizations that deal with architecture and traffic environment information and leveraging the insights, ideas, and application development strengths of diverse participants.

# Contest Aims

## Aim (1) Architecture creation

- (1)-1 Form consensus regarding architecture creation
- (1)-2 Promote data standardization
- (1)-3 Increase awareness of and evaluate portal site



Source: "Society5.0 Reference Architecture," Cabinet Office

## Aim (2) Solving the problems faced by Kyoto

- (1)-1 Support the development of apps that help solve problems
- (1)-2 Gather ideas for apps that help solve problems

### Problems faced by Kyoto

- Tourism movement routes and residents' daily life movement routes intertwine
- Tourists are concentrated in specific areas
- Tourists bring large luggage onto public transportation
- Information regarding current conditions, such as congestion and delay data, is not available
- ...



### Kyoto's ideals

- Be a healthy city that is both environmentally friendly and people-friendly where walking is a pleasure
- Be a lively city with road spaces and public transportation that make everyone want to go out for a stroll
- Be a city which visitors can stroll through to enjoy its allure

Source: created from "Charter of Pedestrian Friendly City Kyoto", the City of Kyoto

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**2**

# **Problems Faced by the Tourist City of Kyoto**



# Problems Faced by the Tourist City of Kyoto

## Tourism movement routes and residents' daily life movement routes intertwine

- Tourism movement routes and residents' daily life movement routes intertwine, with excessively large numbers of tourists use public transportation (such as city buses) destined for specific popular tourist destinations.
- There is a need for route guidance, etc., that avoids the movement lines used by residents for daily living.

## Tourists are concentrated in specific areas

- "Over-tourism," in which large number of tourists are concentrated in the same places, has become a major problem.
- Proposals for destinations which take congestion into consideration are needed.



# Problems Faced by the Tourist City of Kyoto

## Tourists bring large luggage onto public transportation

- Tourists bring large luggage with them onto buses, further contributing to bus crowding.
- To help reduce congestion, measures are needed to promote “hands-free tourism,” dropping luggage off instead of taking it with you.



## Information regarding current conditions, such as congestion and delay data, is not available

- There are problems with the provision of information regarding how to reach tourist destinations. Tourists complain that public transportation is complicated, with fixed route buses being especially confusing, and tourists sometimes take the wrong buses or rail lines.
- There is a need for transportation guidance systems, etc., that take congestion forecasts and operating conditions into consideration.



# Kyoto's ideals

## Charter of Pedestrian Friendly City Kyoto

Becoming a City of Pedestrians, not Automobiles



In our city, Kyoto, each and every resident wants to live a healthy life in an environmentally friendly and people-friendly city where walking is a pleasure



Residents and the government work together to create a lively city with road spaces and public transportation that make everyone want to go out for a stroll.



We strive to be a city which visitors can stroll through to enjoy its allure.



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## **Overview of Contest Implementation**



- The contest collected applications and ideas for solving the transportation and tourism-related problems faced by Kyoto using roadway traffic environmental data provided by the Secretariat.

## App Development Category

Develop **an app that solves problems faced by Kyoto**, with an eye toward actual implementation, using roadway traffic environmental data, etc. provided by the Secretariat.

## App Idea Category

Propose **an idea for an app that solves problems faced by Kyoto**, with an eye toward actual implementation, using roadway traffic environmental data, etc. provided by the Secretariat.

# Prizes and supplementary prizes

**Pedestrian Friendly City Kyoto Prize**  
(Grand Prize, App Development Category)

Supplementary  
prize

Business contract for the  
winning app  
(max. 1,000,000 yen)

**SIP Automated Driving Prize**  
(Grand Prize, App Idea Category)

Supplementary  
prize

(Prize money:  
100,000 yen)

## Category

**Traffic Congestion  
Improvement Prize**  
(Sponsored by NAVITIME)

Supplementary  
prize

Prize money  
(30,000 yen)

**Traffic Guidance  
Improvement Prize**  
(Sponsored by  
Val Laboratory Corporation)

Gift certificate  
(30,000 yen)

**Area Congestion  
Improvement Prize**  
(Sponsored by  
Yahoo)

Prize money  
(30,000 yen)

**Hands-free Tourism  
Promotion Prize**  
(Sponsored by  
Kyoto City Tourism Association)

Travel and lodging gift  
certificate (30,000 yen)

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## Judging



# Judging Results

<p><b>Pedestrian Friendly City Kyoto Prize</b> (Grand Prize, App Development Category)</p>	<p><b>Teruki Matsuoka</b></p>	<p><b>(Tentative) Kyoto Tourism Assist</b></p>
<p><b>SIP Automated Driving Prize</b> (Grand Prize, App Idea Category)</p>	<p>Eriko Musashi, Daisuke Kasai Advanced Institute of Industrial Technology Tomoya Hatanaka, NTT Data Frontier Corporation</p>	<p><b>-Teburan-</b> The app that makes you want to go for a stroll empty-handed</p>
<p><b>Traffic Congestion Improvement Prize</b> (Sponsored by NAVITIME)</p>	<p>Yuki Yamashita, Asakura Laboratory, School of Environment and Society, Tokyo Institute of Technology</p>	<p><b>Tekuteku Kyoto Tours</b></p>
<p><b>Traffic Guidance Improvement Prize</b> (Sponsored by Val Laboratory Corporation)</p>	<p><b>Nippon Information and Communication Corporation</b></p>	<p><b>Yoritabi</b> A sightseeing guidance app that is optimized for travel routes</p>
<p><b>Area Congestion Improvement Prize</b> (Sponsored by Yahoo)</p>	<p><b>System Science Co., Ltd.</b></p>	<p><b>Komikomi Spot</b></p>
<p><b>Hands-free Tourism Promotion Prize</b> (Sponsored by Kyoto City Tourism Association)</p>	<p><b>DENSO Corporation</b></p>	<p><b>Etrip</b></p>
<p><b>Monitor prize</b></p>	<p><b>Nippon Information and Communication Corporation</b></p>	<p><b>Yoritabi</b> A sightseeing guidance app that is optimized for travel routes</p>

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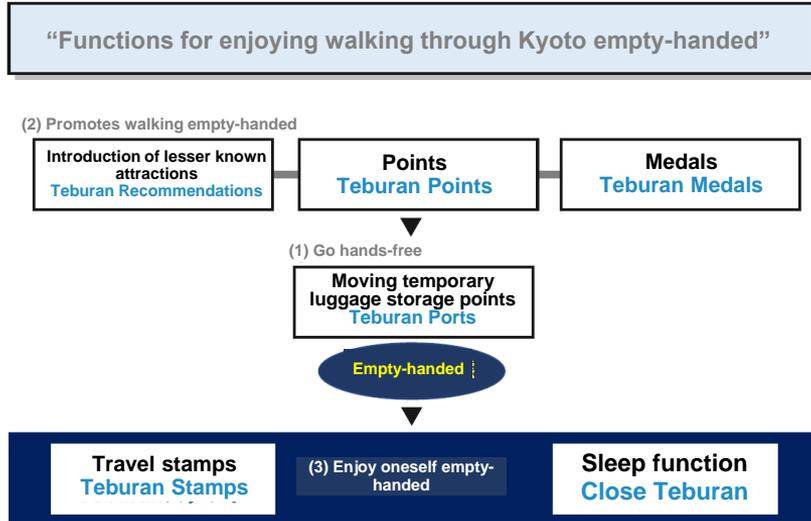
**Winning Entries**



# App Idea Category Grand Prize

**Teburan, the app that makes you want to go for a stroll empty-handed**

Teburan is an app that **provides new value** in the form of strolling empty-handed



## Explanation of Teburan screen

**[Tourists]**

**Button for scanning QR codes**  
Scan QR codes around town

**Number of visits to Kyoto**  
Displays the number of visits to Kyoto

**Show Teburan Points**  
Displays number of points

**Show Teburan Stamps**  
Number of Teburan Stamps collected

**[Kyoto residents]**

**Teburan Supporter**  
Displays Teburan Medals

**Kyoto Residents**  
Displays "Resident" for Kyoto residents

- Message function button
- Luggage storage button
- Map display button
- Kyoto Friends button
- Shrine and temple seal book button
- Setting buttons

\* (including Teburan Supporters)

**Teburan can also be used by Kyoto residents. Residents can use the app as “tourists” or “supporters”.**

\* Promotes microtourism (local tourism to destinations less than an hour away)

\* Promotes tourism volunteer activities

# App Development Category Grand Prize

## (tentative) Kyoto Tourism Assist

### Function for displaying tourist attractions

- Tourist attractions are displayed on a map. Users wishing to learn more are directed to the “Kyo Navi” site.



### Function for displaying public transportation information

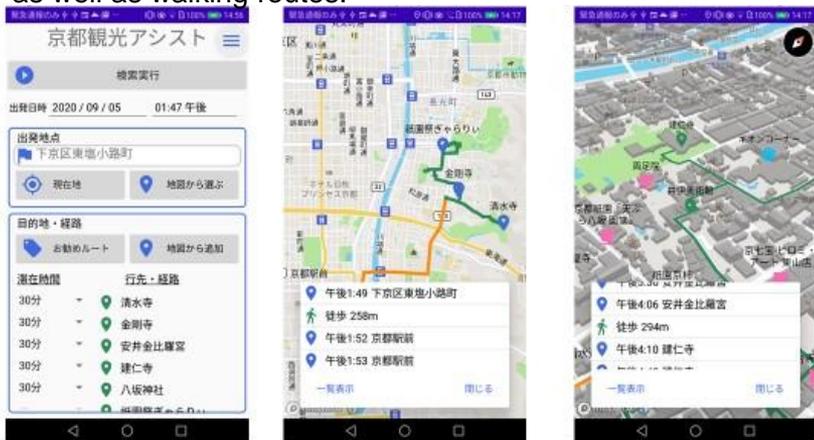
- Tapping a bus stop icon on the map causes the bus timetable, route map, and bus departure and arrival times to be displayed.



# App Development Category Grand Prize

## Function for creating sightseeing routes

- Users can select departure points and times, tourist attractions they wish to visit, and the amount of time to spend at each location, and the app will create a sightseeing plan, including bus and subway transfer times for the entire route, as well as walking routes.



## Recommended sightseeing routes

- If users don't have specific destinations in mind, they can use recommended routes to create sightseeing plans.



## ■ App operation

# (仮) 京都観光アシスト

— KYOTO楽Mobi —



## 主な機能について

# Awards Ceremony



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**Thank you**

