

Databed Project

Project period

April 2018 ~

Project overview

We aim to make this project function as a "place" for OOL members and companies in Okinawa prefecture to realize verification themes such as BigData, IoT, AI, etc., and the concepts they want to realize.

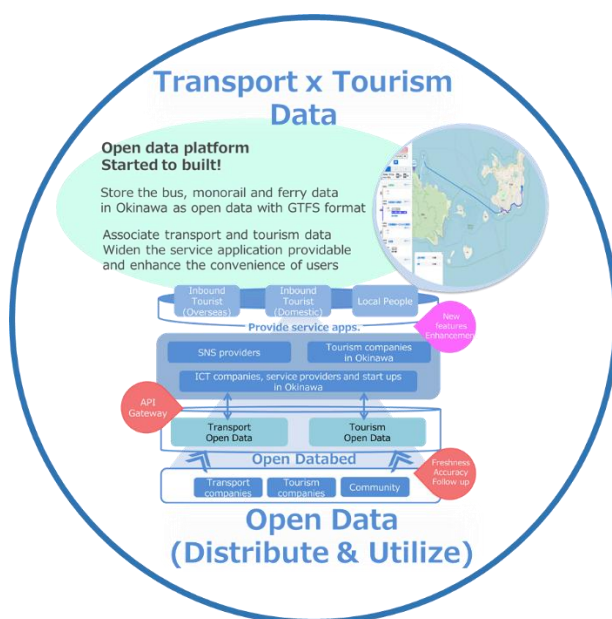
Project background

OOL has pursued "carrying", "storing", and "calculating" technologies as a platform for handling communication and computing technology, with the keyword of fusion of SDN and cloud, which are cutting-edge technologies in the network and server fields, including testbeds for research platforms.

In order to expand the range of initiatives from SDN to SDx and SDx x ○○, we have started the challenge of building and operating a databed to promote data-driven ICT utilization with the motto of applying SDx technology in all areas.

Through databed, we offer data and analyze data, and aim to apply the results to the real world and optimize the real world.

Key Initiatives

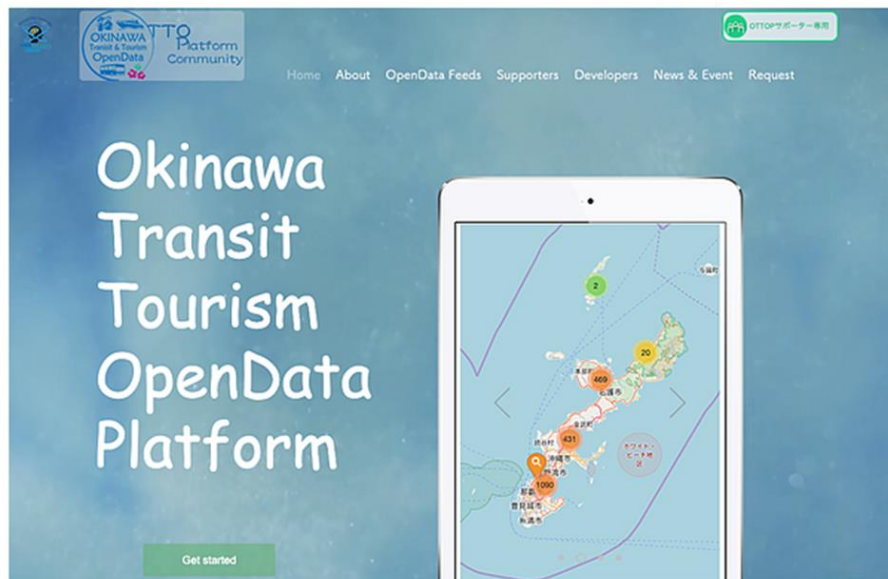


Tourism x Transport Open Data

~ For aiming to solve regional challenges with data ~

- Background and Challenges
 - The number of tourists visiting Okinawa prefecture is increasing year by year, and the number of tourists in FY2017 reached a record high of 9,579,000.
 - ◇ The number of foreign tourists is also at a record high of 2,692,000.
 - ◇ With the increase in tourists, the number of users at Naha Airport is also increasing, and the demand for secondary transportation such as route buses, taxis, and rental cars also increases.
 - ◇ With regard to rental cars, demand is high, such as more than 70% of tourists' transportation during the peak summer season.
 - ◇ Naha Airport's rental car transfer vehicle car area is a factor of decreasing satisfaction in dangerous situations such as situations overflowing with users
 - ◇ The use of local buses by tourists is as low as about 10%. As a factor, each bus company transmits information in its own form.
For example, major search services may not display bus search results.
(As a result, it is recognized that there is no means of transportation)
(⇒ Tourists say that they need to use rental cars, because there are no other means.)
 - ◇ Not only from the viewpoint of tourists but also from the viewpoint of the citizens of the prefecture, in order to mitigate the chronic congestion, it is a big challenge to make it easy to search travel information on public transportation, etc., and it is required to make the use of secondary transportation be optimized.
- Resolution by Open Data
 - In order to promote the use of information on public transportation such as buses, monorails and vessels connecting the main island and remote islands, rental cars used most by tourists, and tourist facilities, etc. on major search sites and private content services, etc., data utilization platform supporting global standard formats and open data is necessary. The purpose of this project is to improve the satisfaction of secondary transportation for tourism and to reduce traffic congestion by decentralizing tourism secondary traffic, by enabling to search information on transportation from sightseeing spots to tourist destinations before coming to Okinawa.
- Local Production and Consumption of Open Data Community
 - By treating Okinawa prefecture tourism and secondary transportation information as open data, we are promoting the maintenance of data and the development of communities to promote data utilization in order to leave information assets with high public nature in the region for the "region".

Opening of OTTOP



About OTTOP

- About
 - By treating Okinawa prefecture tourism and secondary transportation information as open data, we are promoting the maintenance of data and the development of communities to promote data utilization in order to leave information assets with high public nature in the region for the "region".
- Platform
 - OTTOP fosters data together with local industries based on local production and consumption data utilization type communities.
 - We will nurture OTTOP together with supporters in Okinawa Prefecture through community activities to promote maintenance and utilization of tourism and transportation data, events, study sessions, etc.
- Transit
 - The purpose of this project is to link and develop public transportation information in Okinawa Prefecture with the open format GTFS in cooperation with public transportation organizations, local companies and other local organizations, and to make it widely used by many people as open data.
 - We provide various services including APIs for downloading GTFS-Static and route search, GTFS-Alert, etc.
- Tourism

- The purpose of this project is to link and develop tourism information in Okinawa Prefecture with local companies and organizations, and to make it widely used by many people as open data. We plan to provide information on public attractions, accommodation facilities, etc. in the future.



Examples of OTTOP API Use Case

- Naha Airport Signage
 - Launch in March 2020!
 - Large signage near the entrance and exit of Naha Airport Domestic Terminal Building and the signage at domestic tourist information center are providing departure time information for buses and monorails.



Taxi driving data in Okinawa Prefecture

- Real-time collection and analysis of approximately 400 taxi units
- We are working to predict customer demand and ride points based on in-vehicle information, driving information, and status information of taxis, in addition to create new value such as dangerous driving prediction by combining drive recorder information and other information.

