

Data collaboration/utilization for realizing Society 5.0



Overall Architecture

- Development and Promotion of the traffic environment data portal –

NTT DATA CORPORATION

November 10, 2020

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Introduction



Modern society aims for Society 5.0 and Importance of the traffic environment data.

- ✓ “Society 5.0”, a new society with highly converged data between cyberspace/virtual space and physical/real space, requires new system of data collaboration.
- ✓ “The traffic environment data”, data perceives movements of humans and things, are expected to be used in a various fields.
- ✓ Our mission is to build a system to solve social issues with new values and services created from “The traffic environment data”.

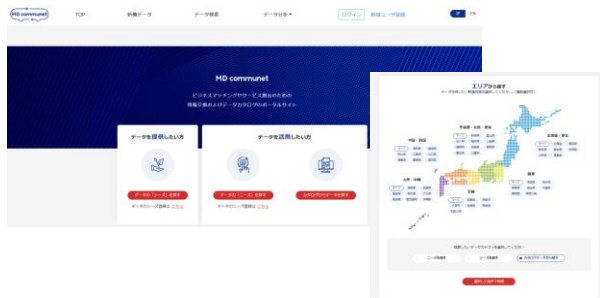
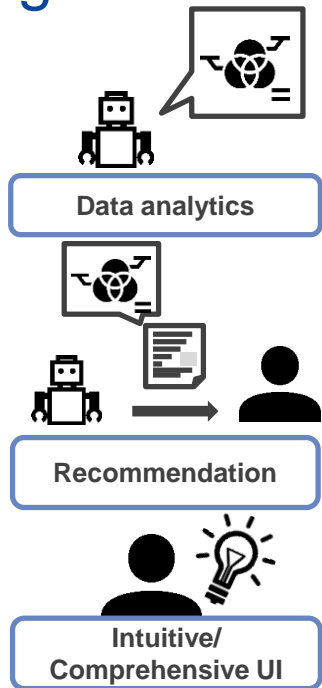
2

The traffic environment data Portal “MD communit”



“MD communit” has proposal function.

“MD communit”, which has an intelligent proposal function, gives a meeting place to businesspersons who has mobility data.



Searching by the purpose of use and an area



Communication space



Visualization of category



Visualization of resemblance

MD communit is the portal site for the traffic data

MD communit provides not only functions to search the traffic environment data, but also a matching place between people to create new services and solve issues in a society.



MD communit

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**The catalog data provided
by Portal**



What data does MD communit have?

MD communit continuously integrates the traffic environment data (e.g. map data, vehicle data) and opens them to its members.

Automatic operation



Probe



Maps



Road traffic regulation

MaaS



Event



SNS



Public transport

Logistics



Facility and building



Travel record



Mobility

Road environment



Traffic jam



Weather



Disaster prevention

Use case ~ Area management ~

Visualization of situation data

Avoid traffic congestion at the time of return by estimation

Estimation of traffic congestion at the time of return

Weather data



Traffic jam data



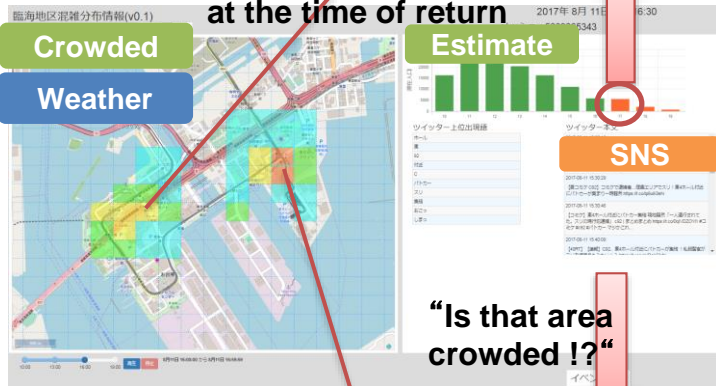
SNS data



Crowded

Weather

Situation



“Is that area crowded !?”

Situation



Use real-time road situation and weather information from SNS for action judgement

Use of situation data

Plan guards position around event space based on congestion estimation

Watchman



Past result

Change position

Provide information about events and traffic congestion which affect daily life



Use case ~ Vehicle operation system ~

Dynamic map



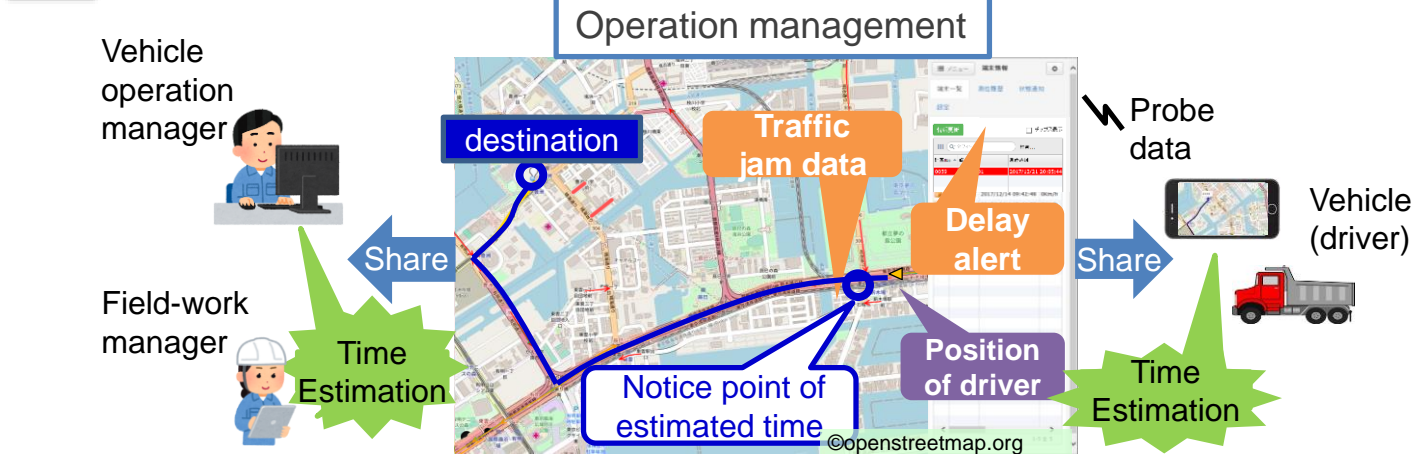
Regulation data



Traffic jam data



Probe data



Promotion of MD communit

We collaborate on the “MD communit project” with our partners, who provide and use the traffic environment data on this portal.

Increment P
FEEL THE SPACE

SIP4D

NTTInfraNet

G空間情報センター



※in Japanese alphabetic order

ZENRIN

ZENRIN
DataCom

DYNAMIC
MAP
PLATFORM

docomo
InsightMarketing Pioneer

H ALEX
HAPPY LIFE EXPERT



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PoC using traffic environment data



PoC① Developing a service for logistics company in Tokyo

The service provides truck drivers dynamic routing suggestion based on detailed structure of road, travel record and sudden disaster notice.

Dynamic map



Live disaster prevention data



Information for truck drivers



Record properties (weight, height...)

車両情報入力	09:29	
車両ID	<input type="text"/>	現在地
車両区分	貨物自動車	メニュー
車幅	300 cm	設定
車高	250 cm	ショートカット
重量	2500 kg	
積載量	4000 kg	
<input type="button" value="登録"/>		<input type="button" value="戻る"/>

Expression of the entrance and rest place



Call to attention based on surrounding circumstances and Vehicle attribute



PoC② Personal guide in Tokyo Waterfront City Area

Provide personal suggestion to travelers such as sightseeing spots, traffic route.

Weather data



Sightseeing spots



Traffic jam data



Travel information



Record user properties

Suggest a travel plan for personality

Tourist site

Suggest a plan based on dynamic information

Traffic info

SNS data

Weather



PoC③ An application contest and regional transportation

We verified the effects of mobility data by solving issues in sightseeing city through “KYOTO Raku Mobi contest” and demonstrated of automatic operation in roadside rest facilities.

KYOTO 楽 Mobiコンテスト エントリー 利用可能データ データ取得 APIマニュアル FAQ



An application contest in Kyoto

The problem in Kyoto was mixture of resident's traffic lines and traveler's traffic lines. They and traffic company made an attempt of service to solve the problem.



Regional transportation

We made PoC of automotive operation services to provide support for the elderly in Akita prefecture and Simane prefecture: rural or mountainous areas.

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Next Steps

The purpose of “MD communit”

“MD communit” aims of realization of Society5.0.

“LINKED POINT for NEXT”: the place has data providers and users, and creates new values continuously .



Promotion HP : now showing



MD communit : opening to public in 2021 Spring

Next action of “MD communit”

Next action of “MD communit” is making traffic environment data usable in cross-field and making various attractive use cases.

- ✓ Enhancing attractive traffic environment data which both government and people have.
- ✓ Making systems which makes data usable.
- ✓ Matching data providers and data user.

Thank you

