





# **Beyond Mobility**

# Initiatives for Super Cities and Smart Cities

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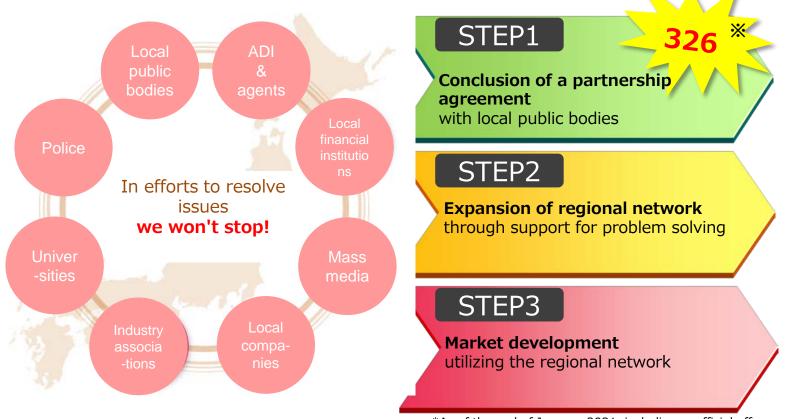
# 1. Community-Based Activities

# **Cross-Divisional Projects - Regional Revitalization Project (1)**

# About Regional Revitalization

National policy aimed at creating a "vibrant local community" and correcting the "Unipolar concentration in the Tokyo area"

Our company aims to establish "community involvement" by entering into agreements with local public bodies and working with agents to support local revitalization efforts



\*As of the end of January 2021, including unofficial offers

# Cross-Divisional Projects - Regional Revitalization Project (2)

# Efforts to resolve issues after the conclusion of the agreement: Contributing broadly to SDGs



**Transporta** -tion safety

### Contributing to local efforts to prevent traffic accidents

- ♦ Provision of traffic safety information using automobile insurance pamphlets
- ♦10 Year Anniversary Plan: traffic safety events utilizing telematics technology
- ♦ Holding traffic safety seminars for local junior and senior high schools by principal agents





Disaster prevention & disaster mitigation

### Contributing to local disaster prevention and disaster mitigation initiatives

- $\bigcirc \mbox{Hosting disaster timeline seminars and providing BCP kits for infectious diseases}$
- ♦ Holding of "power vehicle experience events" to help ensure power supply during disasters
- ♦ Hazard map information and "cmap.dev" information provision





Harmony in society

### Contributing to the realization of harmony in society

- $\Diamond$ Holding lectures by participating athletes and hands-on sports events for the disabled
- $\diamondsuit$  Holding traffic safety seminars for foreigners by trainees of the Global Human Resources Course
- ♦ Holding web seminars on measures against infectious diseases for foreign nationals in cooperation with the Chamber of Commerce and Industry in Japan



"With Corona"

### Initiatives to create a hybrid local community in response to environmental changes

♦ In response to COVID-19, WEB seminars and other hybrid events held nationwide



# 2. About Smart City X

# "Smart City X" Initiatives (1)

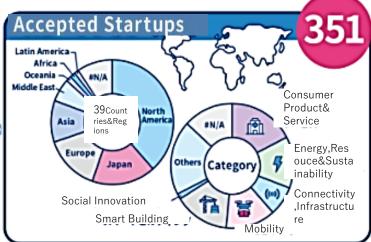
Creating businesses together under the theme "Smart City in the New Normal Era" Global Open Innovation Program

SMART

# **Smart City X Overview**

Venture capital
"Scrum Ventures"
established







# "Smart City X" Initiatives (2)

Our company aim Creating opportunities for alliance and open innovation with large companies

Utilizing the fields of local governments that aim for advanced initiatives

Study of new business models in Super Cities & Smart Cities



Aim of Scrum
Ventures

Future commercialization and implementation of concrete advanced services and applications in society, not limited to demonstration experiments

Providing value from the perspective of the general public through a concrete understanding of various regional issues rather than community development in specific areas

Realization of community-based, affluent and fulfilling lifestyles and well-being, not from the viewpoint of industry or technology

# "Smart City X" Initiatives (3)

# **Efforts in FY2020**

We are proposing Co-creation projects to Mie Prefecture and Shibuya Ward, which are participating municipalities, as fields for demonstration projects.

Example of proposal

- "Mobility" area
  - -> Creating "Community Safety MAP" using telematics data
  - -> Considering "traffic congestion avoidance" from the reward program by our partner Miles
- "Disaster prevention and mitigation" area
  - -> Considering the use of "cmap"

# "Smart City X" Initiatives (4)

# The establishment event in August last year was covered by many media including NHK\*.



Broadcasted multiple times on the day and the next day by NHK. Widely distributed in Japan and overseas through various media such as Nikkei, Business Insider, and The BRIDGE NHK Online News Article <Excerpt>

"Smart City X" Aiming to Enhance Convenience in Daily Life with Digital Technology

Large companies and startups from a variety of industries, including transportation and insurance, are launching a joint project aimed at DX = Digital Transformation, which will greatly improve the convenience of everyday life with digital technology. We will develop new services related to daily life following COVID-19.

The project "Smart City X" was announced on the 26th.

Among the major companies, JR East, Aioi Nissay Dowa Insurance, Toyota Motor's "TRI-AD" and 6 other companies involved in software development such as automated driving will participate, aiming for DX = digital transformation that greatly improves the convenience of daily life by making full use of digital technology.

Takuya Miyata, CEO of the Silicon Valley investment company "Scrum Ventures" who called for the project, said, "As an opportunity to digitize changes in customs triggered by the new coronavirus, I would like to create positive social change through cooperation between companies.".

\* NHK: Nippon Hoso Kyokai :Japan Broadcasting Corporation

# "Smart City X" Initiatives (5)

Morning edition of the Nihon Keizai Shimbun on 2020/8/26

8月26日(水)朝刊 企業1

# 日本經濟新聞

# 日本勢6社、世界の新興と

エア開発子会社、トヨタ・リ

枠組みに加わるのはトヨタ

ップへの出資を通じて実用化

から協業相手を探す。

1年1月まで協業相手を選

21年6月をめどに新たな

# トヨタ系や出光、JR東

サービスの骨格を整えて公表

する。 风に積極的な三重県と東京都 **倘で需要が高まりそうな技術** ドローンを使ったモノの移 コロナ

スマ

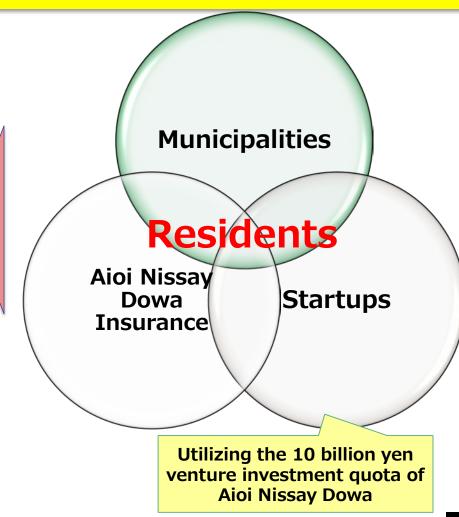
-開発連携

# 3. The World We Want to Realize

# **Our Company's Features**



 Our company, local authorities and startups make "livability" a reality for residents

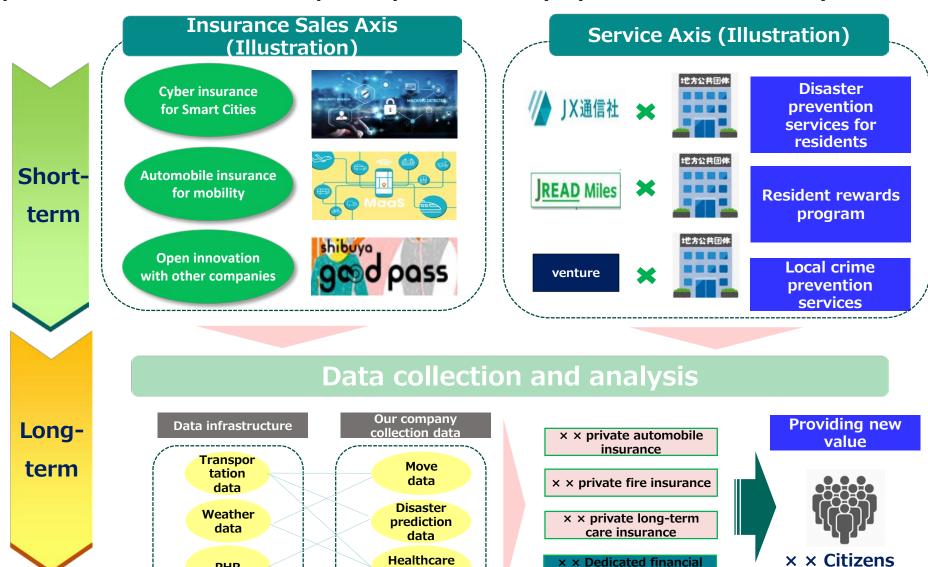


# Our Company's Aim (Image)

PHR

MS&AD Insurance Group Hole

Our company aims to provide new value by multiplying the data collaboration platform accumulated at Super City & Smart City by the data collected by us.



data

services for citizens

# **Our Company's Aim (Mobility)**

"Beyond Mobility" powered by "Data"

Using partners' data

Strategy to connect all areas of life

CITY Super City

Using publicly available data

Building a digital infrastructure and platforms that support livelihoods

SYNQA



Product & service strategy focusing on connected vehicles

Using telematics data (Length: 450,000 circumferences of the Earth)



Autonomous driving and mobility services





Connected vehicles (telematics)





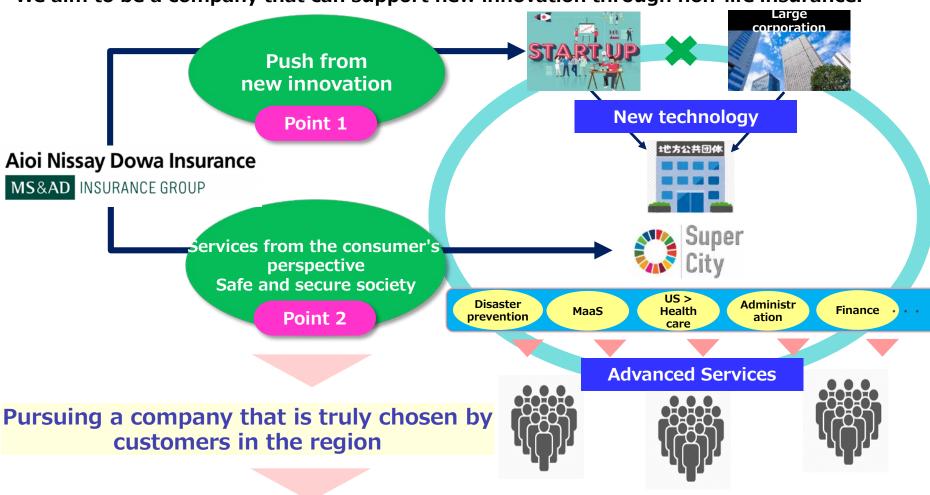




# **Our Company's Aim (Philosophy)**

Through this initiative, our company provides residents and local companies with a safe and secure society.

We aim to be a company that can support new innovation through non-life insurance.



Aioi Nissay Dowa to become more strong in retail business

# 4. Introduction of Specific Activities

# **Our Company's Role in Smart Cities (Summary)**

As an insurance company, it is essential to identify the risks involved in Smart Cities from the verification stage and to provide risk hedging methods as soon as they are implemented in society.



Users (residents) **Compensation for** user use risks

Is it really convenient? Can you deal with the trouble?

administrative service



■ Supporting fun activities

■ Supporting the Realization of a Safe, Everywhere Life

MaaS







Is it profitable? Does it make sense to

participate?



Will it be accepted by users? Will it be an attractive service?

Added value of peace of mind

to the convenience of Smart Cities

# Operator (local government)

- Supporting safe business operations
- Supporting increased attractiveness of operational services

**Compensation for** operational risks

**Participating** businesses

■ Supporting construction of

new service systems ■ Support for providing substantial compensation in the event of an accident

**Compensation for** 

the service itself

Medical care and healthcare



# Introduction of specific examples currently under way

# [Major Local Governments]

As of March 2, 2021

Region	Local government	Recent Status
Tohoku	Yahaba-cho, Iwate Prefecture	➤3/1 Submitted for public offering (waiting for results)
Kanto	Kamakura	➤ Chosen as a Super City collaborator
	Maebashi	➤ Chosen as a Super City collaborator
Kinki	Osaka City, Osaka Prefecture	>2/26 Submitted for public offering (waiting for results)
Chugoku, Shikoku	Takamatsu	➤ Chosen as a Super City collaborator
Kyushu	Nobeoka	➤ Chosen as a Super City collaborator

<sup>\*</sup>In addition to the above table, discussions are ongoing on "Shibuya-ku" "Mie Prefecture" and "Tsukuba-shi"

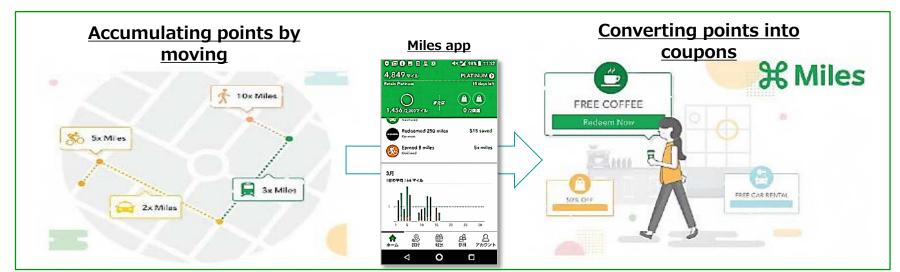
# [Initiative I] Use of the startup "Miles" (1)

- ✓ We are considering developing an app that uses the data from "means of transportation" and "mobility information"
- ✓ Accumulating and utilizing "mobility information" to contribute to the development of safe and secure communities
- ✓ Local governments and partner companies issue coupons to users to provide them with added value.

### Real and diverse human flow data acquired from Miles and used in urban traffic policy

### What is Miles?

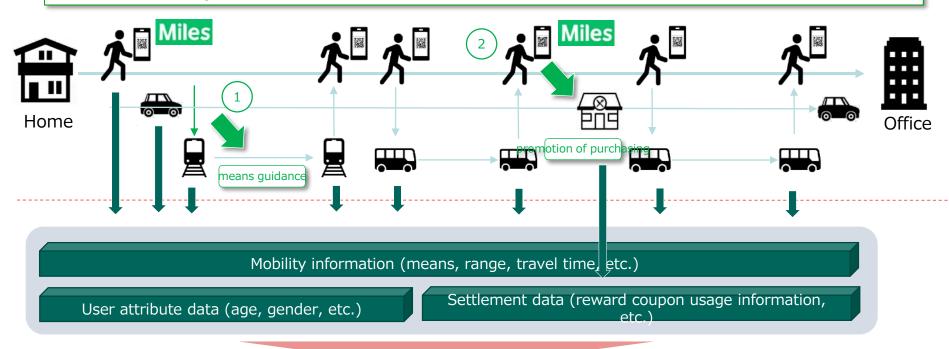
- ✓ <u>Silicon Valley-based</u> startup (established in 2016) (Seed/6.1 M, as of March 2020)
- ✓ <u>Developing an application that gives users points according to the means of transportation and distance and allows users to exchange them for benefits.</u>
  - \*The nine categories of walking/running/bicycle/car/ride share/car pool/bus/train/ship/airplane are determined using an original algorithm.



# [Initiative I] Use of the startup "Miles" (2)

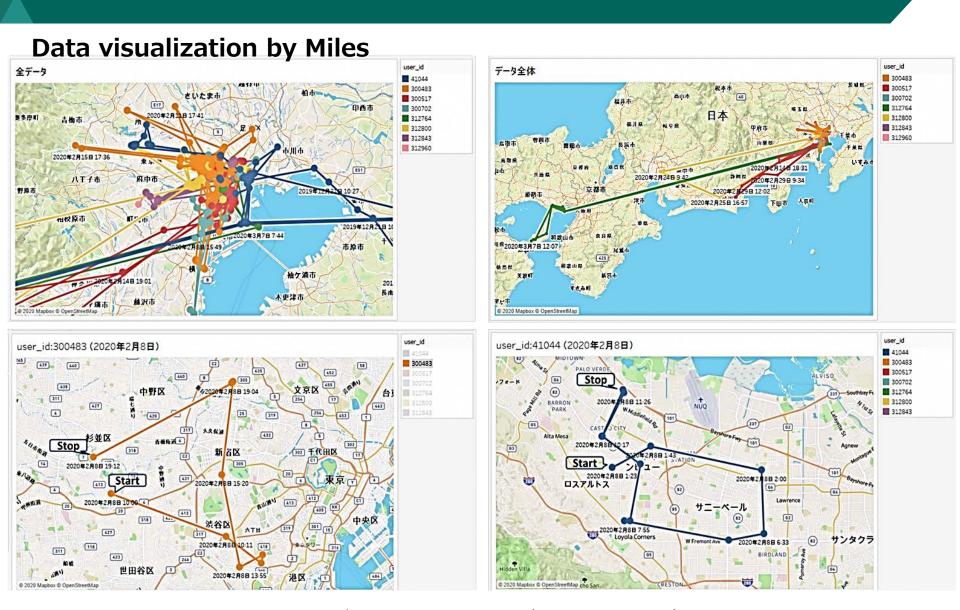
Real and diverse human flow data is acquired from Miles, aiming at optimum traffic improvement and economic vitalization.

- Controlling the means of transportation by giving points according to the means of transportation
  - \*Data is also used to optimize the operating hours of railways and route buses.
- Revitalizing local economies and acquiring and utilizing settlement data through reward coupons



Using data to suggest more optimal and personalized routes

# [Initiative I] Use of the startup "Miles" (3)



Number of data items:1838 / Number of participants: 8 (As of March 11 2020)

# [Initiative I] Examples of proposals to local governments utilizing mobility

Switching from driving private cars to other means

of transportation attracted by adding points

# Eliminate congestion

[Another mode of transportation]

[Example of proposal to Maebashi City]

Popularization of nrivate care

private cars				
Ranki ng	Prefectures	Number of units per person		
1	Gunma	0.684		
	Maebashi city	0.679		
2	Tochigi	0.664		
3	Ibaraki	0.661		
4	Toyama	0.657		
5	Yamanashi	0.652		
•	•	•		
47	Tokyo	0.230		
	Japan	0.477		

100% 8% 9% 75% Commute 81% 6% 3% to work 1.1% Commute 14% 22% 26% 35% to school Go home 73% 9% 9% Work 91% 2%2 Private 80% 7% 9%

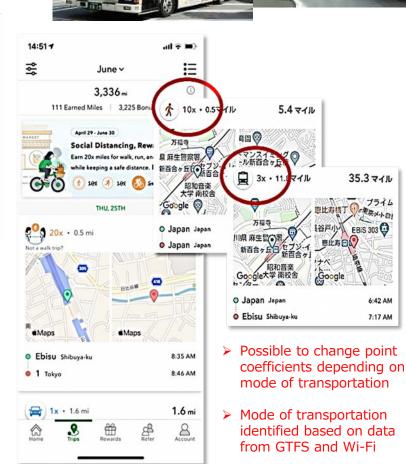
Data: As of March 2017

Japan Automobile Inspection and

Registration Information Association

It is possible to incentivize people to use particular mode of transportation by adding points. Examples: 10x points for train and bus; 5x points for bicycle.

(Such incentives for subway are also used in the US to eliminate road traffic jams)



6:42 AM

7:17 AM

# [Initiative II] Safety MAP (1)

- Scoring user's driving data to compete with other users like in a game
- ✓ Participants in the event experience "Fun eco and safe driving" and <u>promote safe driving</u> <u>by residents</u>

## **Event Summary**

# [Community Participatory Eco-Driving and Traffic Safety Campaign Promotion Events]

- •Participants are given tags using telematics technology.
- •The status of driving is checked with a smartphone app.



# [Duration] About 1 ~ 2 months [Tag cost] Free [Tag distribution limit] 200 pieces [Participants] Individuals, individual groups, corporations, local



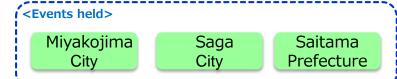
### **Points**

Aioi Nissay Dowa Insurance holds an event for local residents to experience how to promote "Eco-driving and safe driving" using new technology.

With cooperation with local governments, it is expected that the increased number of participants will contribute to safe driving.

We provide a great opportunity to enjoy and objectively check safe driving techniques.

We can also contribute to the creation of an environmentally friendly automobile society by promoting eco-driving.

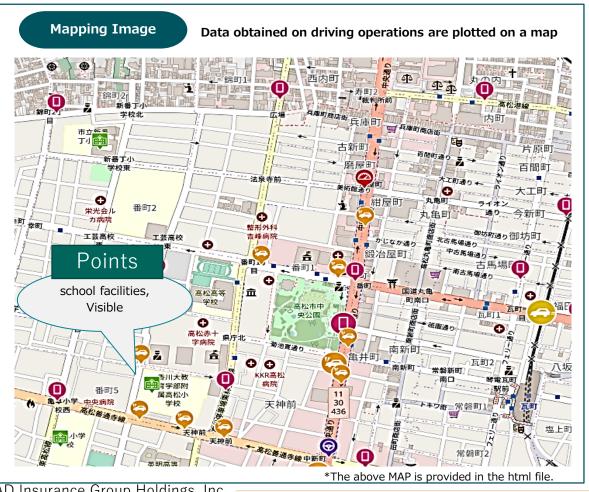


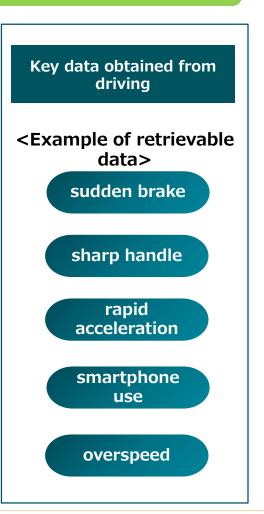
government groups, etc.

# [Initiative II] Safety MAP (2)

# <About Traffic Safety Maps>

- Mapping hazardous areas based on travel data collected at events
- Traffic safety measures such as identifying dangerous areas and improving the road environment





# 5. Our Company's Ideal

# **Ideal: Dealing with local governments**

### Until now · · ·

Continuation of community-based business

Agreements concluded: 326 \*

\*As of the end of January 2021, including unofficial business partners

Local public bodies

Police

Support for the creation of local areas

Fire departments

Our companies

& agents

Both approaches maintained

### From now on · · ·

Co-creation with local governments

**Super City** 

**Smart City** 





since FY2020

**Beyond Mobility** 



**Telematics** 







- Utilizing our company's strengths in regional networks, we conclude agreements with local governments.
- We have worked together with agents to establish "community-based sales" by supporting the resolution of regional revitalization issues.
- Positioning as "Phase 2" for regional revitalization efforts
- Aiming for a new co-creation model with local governments through Super City & Smart City initiatives

# Aioi Nissay Dowa Insurance MS&AD INSURANCE GROUP