



**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



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

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



Transporta -tion safety	Contributing to local efforts to prevent traffic accidents         Provision of traffic safety information using automobile insurance         10 Year Anniversary Plan: traffic safety events utilizing telematics         Holding traffic safety seminars for local junior and senior high schools by
Disaster prevention & disaster mitigation	<ul> <li>Contributing to local disaster prevention and disaster mitigation initiatives</li> <li>Absting disaster timeline seminars and providing BCP kits for infectious diseases</li> <li>Abolding of "power vehicle experience events" to help ensure power supply during disasters</li> <li>Abazard map information and "cmap.dev" information provision</li> </ul>
PM Award Harmony in society	<ul> <li>Contributing to the realization of harmony in society</li> <li>Holding lectures by participating athletes and hands-on sports events for the disabled</li> <li>Holding traffic safety seminars for foreigners by trainees of the Global Human Resources Course</li> <li>Holding web seminars on measures against infectious diseases for foreignan and industry in Japan</li> </ul>
"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**

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



## "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

## **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"

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



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

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

8月26日(水)朝刊 日本經濟新聞 企業1 日本勢6社、世界の新興と スマ 手段、 スター ップへの出資を通じて実用化 合弁会社の設立やスタートア と国内企業6 サーチ・インスティテュート エア開発子会社、トヨタ・リ の人工知能(AI)ソフトウ を目指す。 技術革新のアイデアを募る。 生まれた新たな働き方や移動 く。新型コロナウイルス禍で 社や出光興産 メントと出光、JR東のほか アドバンスト・デベロップ 枠組みに加わるのはトヨタ トヨタ自動車のグル  $\mathbf{F}$ シテ シティ 通信環境などの分野で トアップとの提携に動 1 開発で世界の -開発連携 Ŗ 新たなス 、東日本な プ会 トヨタ系や出光、JR東 を生む。 する。 始める。 役となり、 から協業相手を探す。 スタートアップ先進国・ 険、日本ユニシス、博報堂だ。 動や遠隔治療、 1年1月まで協業相手を選 シアやイスラエルなど世界の スクラムベンチャー **のいおいニッセイ同和損害保** 风に積極的な<br />
三重県と東京都 尚で需要が高まりそうな技術 ワービスの<br />
骨格を整えて公表 場を提供する。 政谷区も参加 ルギーの使い ドローンを使ったモノの移 米ベンチャ 21年6月をめどに新たな スタートアップの育 国内のほか、米欧ア 方など、 効率的なエネ から新事業を キャピタルの 実証実験の ズが仲介 コロナ 2 0 2 地域

## 3. The World We Want to Realize

### **Our Company's Features**



### Our Company's Aim (Image)

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.



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

Strategy to connect all areas of life



## **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)



administrative service



Will it be accepted by users?

Will it be an attractive service?

 Supporting fun activities
 Supporting the Realization of a Safe, Everywhere Life

Compensation for user use risks

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

MaaS







## 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

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#### Is it profitable? Does it make sense to participating businesses

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

Medical care and healthcare\_

Compensation for the service itself

### [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					

\*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 <u>contribute to the development of safe and</u> <u>secure communities</u>

✓Local governments and partner companies issue <u>coupons to users to provide them with added</u> <u>value</u>.

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

What is Miles?

- ✓ **Silicon Valley-based** startup (established in 2016) (Seed/6.1 M, as of March 2020)
- ✓ Developing an application that gives users points according to the means of transportation and distance and allows users to exchange them for benefits.

\*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



X 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

### [Example of proposal to Maebashi City]

#### Popularization of

#### private cars

Ranki ng	Prefectures	Number of units per person	All Commute
4	Gunma	0.684	Commute
	Maebashi city	0.679	to school
2	Tochigi	0.664	Go home
3	Ibaraki	0.661	
4	Toyama	0.657	Work
5	Yamanashi	0.652	Private
•	•	•	
47	Tokyo	0.230	
	Japan	0.477	



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)





## [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 promote safe driving by residents

Points

#### Event Summary



Saitama

## [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 <u>improving the road</u> <u>environment</u>



## **5. Our Company's Ideal**

## **Ideal: Dealing with local governments**



- 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