

arise

PRIVATE SECTOR ALLIANCE FOR DISASTER RESILIENT SOCIETIES



Introducing ARISE Network Japan How we work towards resilience

ARISE Network Japan 2017 Report

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Foreword

In 2016, on the memorial day for the Great East Japan Earthquake of 2011, over 100 representatives from Japan's business world gathered with government officials for a special event in Tokyo under the banner of the UNISDR Private Sector Alliance for Disaster Resilient Societies (ARISE), launching a new local Network of the global private sector alliance.

Since then, an annual event by ARISE-Network Japan is held in March to make sure that we collectively remember the lessons from the disaster in 2011, raise awareness among the greater private sector, and to galvanize each other within the Network by sharing latest best practices. This year's event, co-organized by the UNISDR Office in Japan, focused on how businesses may meet the challenge of extreme weather events, a topic in focus in Japan since the adoption of both the Sendai Framework and the Paris Agreement on climate change in 2015. I was also greatly stimulated by the ideas shared during the March 2017 event, which is reported in this volume.

The activities of ARISE-Network Japan member companies, reported in their own words in this volume, show that they not only work towards their own business continuity, but strive to ensure their daily business activities also add to reaching the goals of the Sendai Framework, thus contributing to building resilience of the society by applying private sector strengths.¹

I am grateful to see this new ARISE-Network Japan publication come out on the occasion of the Global Platform for Disaster Risk Reduction 2017 in Cancun, Mexico. It is my hope and expectation that this volume adds to the understanding of disaster risk reduction and resilience building in Japan, and the role played by the private sector within it, as an example of implementing the Sendai Framework.

Yuki Matsuoka
Head, UNISDR Office in Japan

¹ "Private Sector Strengths Applied – Good practices in disaster risk reduction in Japan" (2013) can be downloaded at <https://www.unisdr.org/we/inform/publications/33594>

Introducing ARISE

ARISE is an initiative of the UN Office for Disaster Risk Reduction (UNISDR) and is a recognized private sector stakeholder group. Over 140 companies and organizations, headquartered in 38 countries and active in 150 countries around the world, work with UNISDR to realize disaster resilient societies.

ARISE Mission Statement

“To create risk-resilient societies by energizing the private sector in collaboration with the public sector and other stakeholders to achieve the outcome and goal of the Sendai Framework in a transparent and inclusive way that delivers local and measurable impact.”

As a UNISDR-led network of private sector entities, ARISE member companies voluntarily sign the Five Commitments at the executive level.

Commitment 1: Raise awareness with respect to disaster risk and mobilization of the private sector;

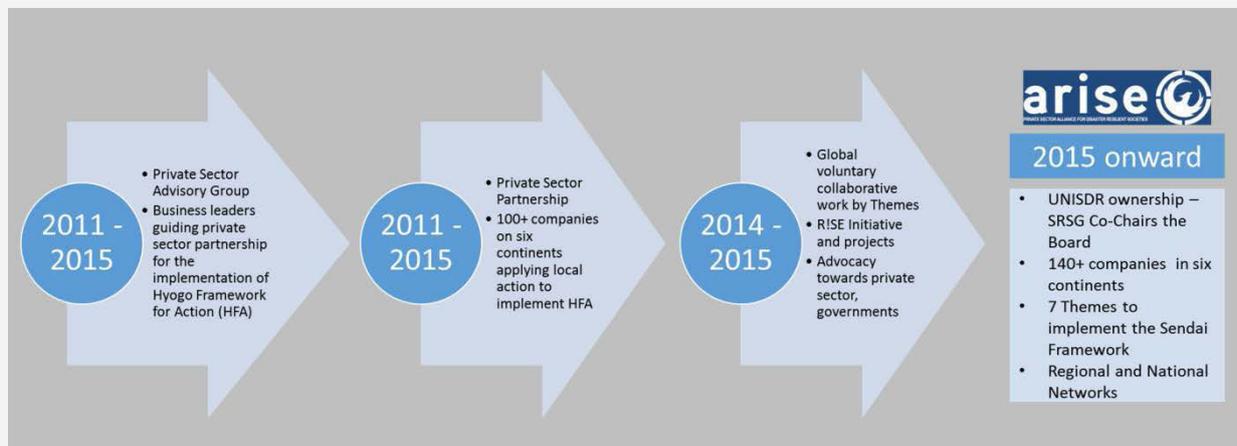
Commitment 2: Exercise influence in respective spheres of expertise;

Commitment 3: Share knowledge and bring in expertise of the private sector;

Commitment 4: Be a catalyst to generate innovation and collaboration; and

Commitment 5: Implement tangible projects and activities to achieve the targets of the Sendai Framework.

History of ARISE



March 2015: Private Sector group at the Third UN World Conference on Disaster Risk Reduction in Sendai, Japan



November 2015: Inaugural ARISE AGM in London, UK

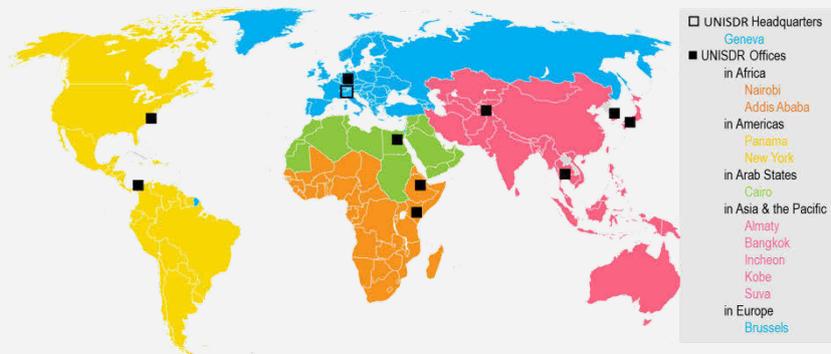
"Just as it is a key player when it comes to tackling climate change, so the private sector has an equally critical role in the success of the Sendai Framework, whether it is ensuring that investment is risk-sensitive, that infrastructure is resilient, that regulations address the threat of hazards, or that risk is understood by all of society. ARISE is a key vehicle to leverage the private sector's expertise and to ensure that business itself is fully aware of hidden risks and acts to reduce the risks it faces."



Robert Glasser, Special Representative of the UN Secretary-General for Disaster Risk Reduction (Head of UNISDR) and Co-Chair of ARISE, April 2016

How ARISE implements the Sendai Framework

ARISE members share information, experience, activities, and projects, while the level of involvement and resources is at the discretion of each member. Most activities and interactions are on a local and regional level, and ARISE is structured accordingly into regional and national networks, liaising closely with UNISDR offices around the world (above), and into seven Themes (below) to facilitate voluntary collaboration.



Theme 1: DRM Strategies	1. Build partnerships between public and private sectors to assess disaster risks and develop appropriate risk management strategies and plans. Management strategies include preventing the creation of new risks through risk-sensitive investment, reducing existing risks through corrective actions and strengthening resilience, through business continuity planning and insurance.
Theme 2: Investment Metrics	2. Promote the development and integration of disaster risk and resilience metrics into the planning and evaluation of financial, investment and accounting decisions in both the public and private sector as well as drive the integration of disaster risk and resilience into the broader financial and accounting system.
Theme 3: Benchmarking & Standards	3. Support the development of new and amending of existing industry benchmarks and voluntary standards for disaster risk management in all industries
Theme 4: Education & training	4. Collaborate with leading universities, training institutions, professional associations, and educational outreach programs in all regions to introduce or improve disaster risk management into the curricula of education and training services.
Theme 5: Legal & Regulatory	5. Better integrate and recognize disaster risk and resilience in regulatory frameworks.
Theme 6: Urban Risk Reduction & Resilience	6. Support local business communities and governments to increase awareness of and understanding for improving disaster resilience in the urban and built environment, and will inter alia address critical infrastructure and basic service delivery, transportation, energy and utilities services, and information and communications technology.
Theme 7: Insurance	7. Expand collaboration with (re)insurance industry entities to: make use of their disaster risk reduction expertise, increase access to accessible and effective disaster insurance solutions in underserved markets; to develop risk transfer approaches that provide incentives for disaster risk sensitive private (and public) investment and to leverage the industry's capabilities in the development and sharing of risk information.



Introducing ARISE Network Japan

ARISE Network Japan was created in November 2015 when representatives of ARISE member companies headquartered in Japan came together as a network, to collectively pursue their commitment to raise awareness, influence, share knowledge, and implement the Sendai Framework, and to share their knowledge and expertise in the Asia-Pacific region and beyond.



Inaugural meeting, November 2015 in Tokyo, Japan



ARISE Network Japan Launching Forum, March 2015, in Tokyo, with SRSG and ARISE Co-Chair Robert Glasser

Characteristics of ARISE-Network Japan

Where private sector DRR champions converge

ARISE-Network Japan provides an outlet for its members to showcase their achievements, gain knowledge across sectors, and collaborate. ARISE-Network Japan encompasses strong and active champions of DRR who are each differently enmeshed in multi-sectoral efforts that characterize DRR in Japan.

A tangible, physical private sector Network

ARISE-Network Japan provides at minimum three face-to-face meetings per year for members to network with other key players in DRR, and keeps members updated via bi-monthly communications. One meeting a year held in Japan is open to the public, with the purpose of raising awareness and expanding membership among the private sector in Japan.

Many ARISE-Network Japan members also introduce ARISE via their speaking roles and self-organized forums. Different members have reached out and engaged, for example, organizations such as Global Compact Network Japan, and established ARISE-Network Japan member presence among resilience-related award and incentive programmes such as the Japan Resilience Award, Platinum Vision Award. ARISE-Network Japan assists in relaying global and regional news in Japanese and members' leading practices in English.

As one of the first two ARISE networks in existence, together with ARISE Philippines, ARISE-Network Japan works closely with UNISDR regional and sub-regional offices to reach out to potential ARISE Networks and interested businesses and associations in Asia.

Connecting private sector to stakeholders and key government actors

ARISE-Network Japan meetings are appreciated by various actors as venues where different stakeholders, key government representatives, and the UNISDR Office in Japan can have dialogues.

2. About ARISE-Network Japan

ARISE-Network Japan activities: 2015- 2017



Event in focus

2017 ARISE-Network Japan Symposium: How businesses meet the challenge of extreme weather events

Organized by: ARISE Network Japan
Co-organized by: UNISDR Office in Japan

Supported by: Global Compact Network Japan
Association for Resilience Japan
Japan Bosai Platform

Event sponsors: Kokusai Kogyo Co., Ltd., Tokio Marine & Nichido Fire Insurance Co., Ltd., Kabto Co. Ltd., Japan Conservation Engineers & Co., Ltd., Wellthy Corporation; Kozo Keikaku Engineering Inc. (in-kind support)

Event webpage: <https://www.unisdr.org/we/inform/events/51951>

	<p>14:30 主催者挨拶 14:30 Welcome remarks by organizer ARISE Board member (focal point Japan and Asia), Sandra Wu</p> <p>Introduced ARISE, ARISE mission, event theme, and connection between Sendai Framework for Disaster Risk Reduction and Climate Change Adaptation as part of the Paris Agreement.</p>	
<p>14:35 共催者挨拶</p> <p>14:35 Welcome remarks by co-organizer Head of UNISDR Office in Japan, Yuki Matsuoka</p> <p>Introduced UNISDR and ARISE, history and development of international DRR framework, and key upcoming events in Japan and around the world.</p>		
<p>14:50 政府の最新動向 15:10 最新動向 15:30</p>	<p>Part One Report of latest developments by government agencies</p>	
<p>14:50 Preparedness for a direct-hit Tokyo Earthquake event</p> <p>Akira Morimoto Counsellor Disaster Management Bureau Cabinet Office, Japan</p>	<p>15:10 Latest developments in Climate Change Adaptation</p> <p>Akio Takemoto Director, Research and Information Office/ Climate Change Adaptation Office, Global Environment Bureau, Ministry of the Environment, Japan</p>	<p>15:30 Adapting to flood events under Climate Change</p> <p>Jun Nakagome Director, River Planning Coordination Office, River Planning Division Water and Disaster Management Bureau Ministry of Land, Infrastructure, Transport and Tourism, Japan</p>

2. About ARISE-Network Japan

<p>Part Two</p> <p>16:05 ARISE 会員企業の 取組発表</p>		<p>Q&A led by the Chair and Commentators listed below, followed 15 minute presentations on best practices by ARISE members</p> <ol style="list-style-type: none"> 1. Shigeki Honda, InterRisk Research Institute & Consulting Inc. (<i>Chair</i>) 2. Setsuko Saya, Director, International Cooperation Division, Disaster Management Bureau, Cabinet Office (<i>Commentator</i>) 3. Satoru Nishikawa, Executive Director of Research, Japan Center for Area Development Research (<i>Commentator</i>)
<p>Best practices #1 Creating sustainable communities with Groundwater Membrane Filtration System</p> <p>Yoshihiko Watanabe, Advisor Wellthy Corporation</p>		
<p>Best practices #2 New business strategy focused on Climate Change Adaptation</p> <p>Dai Sakamoto, Sales Division Kokusai Kogyo Co., Ltd.</p>		
<p>Best practices #3 Role of evacuation simulations in weather-related disasters</p> <p>Takeshi Sato, Manager, Public Project Design & Marketing Department Kozo Keikaku Engineering Inc.</p>		
<p>Best practices #4 Modeling flood risks of Arakawa River valley under future climate</p> <p>Takashi Nagano, Chief Researcher The Tokio Marine Research Institute</p>		
<p>Best practices #5 Developing tools for the building of disaster resilient communities</p> <p>Kiyomi Nakamura, Chief of Operations for Overseas Cooperation Technical Headquarters Japan Conservation Engineers & Co., Ltd.</p>		

Best practices #6

Community and tourism industry efforts towards a disaster-resilient destination

Masato Takamatsu, Managing Director
Chief Consultant Tourism Crisis Management,
JTB Tourism Research & Consulting Co.



観光防災の対象

- 世界の国際旅行者は、年間12.4億人、国内旅行者はその数倍〜数十倍。
- 世界の11人に1人は、観光関連産業で働いている(合計2.84億人)。

観光産業は、世界のリーディング産業として、直接的、間接的に地域経済の活性化や雇用創出、観光客の宿泊、飲食、土産品購入等による観光収入等地域経済に大きく貢献。

- 世界のGDPへの貢献度(観光業)は約4兆ドル。
- 観光業は世界のGDPの10%。
- 観光業は世界のGDPの10%。
- 観光業は世界のGDPの10%。

観光を危機から守り、危機の影響を低減し、危機に遭遇した場合でも、いち早く復興できるように準備することは、地域の社会・経済のためにも重要なこと。

Best practices #7

Research on risk information use within organizations

Kazu Miyamura, Partner,
Risk Advisory/System Process Assurance
PwC Aarata



サイバーの経路リマリー

1. 既存の地理的情報の整理及び地理情報からの発信状況の整理 (実証済み)
 - ✓ 防災リスクの予測と発生に際する地理情報
 - ✓ 自治体や民間企業等の地理情報と防災情報の連携
 - ✓ 地理情報と地理情報と地理情報との連携
 - ✓ 地理情報と地理情報との連携
2. 地理情報の活用 (実証済み)
 - ✓ 地理情報と地理情報との連携
 - ✓ 地理情報と地理情報との連携
3. 自治体 (複数) に対するヒアリング調査 (実証中)
4. シンポジウム (orワークショップ) での結果発表とディスカッション (2017年内予定)



18:20 総括と ARISEネットワーク・ジャパンが目指す方向性 閉会挨拶

18:20 Summary and closing remarks
ARISE Board members Sandra Wu and Masato Takamatsu

Masato wrapped up the discussion on public and private sector roles in disaster resilience and Sandra commented on the way forward for ARISE and ARISE Network Japan.



Find out more about ARISE-Network Japan

Non-ARISE members can read regular updates (in Japanese) on the public ARISE-Network Japan Facebook page:



ARISE members can contact the ARISE-Network Japan focal point (currently Kokusai Kogyo Co., Ltd.) to receive Japanese language email updates, or join the Japan community within the ARISE Work Space and access the email archive.

ARISE FOCAL POINT JAPAN

Ms. Sandra Wu, Chairperson and CEO, Kokusai Kogyo Co., Ltd. and ARISE Board member
arise_japan_focalpt[at]kk-grp.jp
<http://www.preventionweb.net/arise/japan>

SECRETARIAT - ARISE NETWORK JAPAN

Mr. Akira Doi and Ms. Yoshiko Abe
Kokusai Kogyo Co., Ltd.
arise_japan_focalpt[at]kk-grp.jp



3. ARISE-Network Japan Member Factsheets

Who are we?

ARISE as a network has been extensively introduced in various global and regional forums, but perhaps now it is time to take a closer look at individual companies comprising ARISE.



The full list of ARISE Network Japan members for 2017 are shown in the box on the right.

The ‘self-introductions’ by ARISE-Network Japan member companies in the following pages (from members indicated in **bold**) highlight their recent best practices and how working with UNISDR through ARISE has changed them for the better.

Development Bank of Japan	
DRI Japan	
General Insurance Association of Japan	
Giken	10
IBM Japan	
Infrastructure Development Institute	
IRRIC Research Institute & Consulting, Inc.	26
Japan Bosai Platform	14
Japan Conservation Engineers Co., Ltd.	16
Japan Innovation Network	
JTB Tourism Research & Consulting Co.	18
KABTO Co. Ltd.	20
Kokusai Kogyo Co., Ltd.	22
Kozo Keikaku Engineering Inc.	
Marsh Broker Japan Inc.	
Mitsubishi Research Institute	24
Mitsui Sumitomo Insurance Co., Ltd.	26
NEC Corporation	
Nikken Sekkei Ltd.	
Nissan	
NTT	
NTTDATA Corporation	
Pasco Corporation	
PricewaterhouseCoopers Aarata	36
Shimizu Corporation	
Sompo Japan Nipponkoa Insurance Inc.	30
Tokio Marine & Nichido Fire Insurance Co., Ltd.	34
Wellthy Corporation	

GIKEN GIKEN LTD.

株式会社 技研製作所



Why we work with ARISE (or, how joining ARISE changed us)

Giken provides unique and original construction methods and structures called “Implant Methods/ Structures”. By utilizing the Implant Method, Giken also provides a wide range of disaster risk reduction methods to guard lives, culture, history and properties from disasters, and intends to extend their activities worldwide.

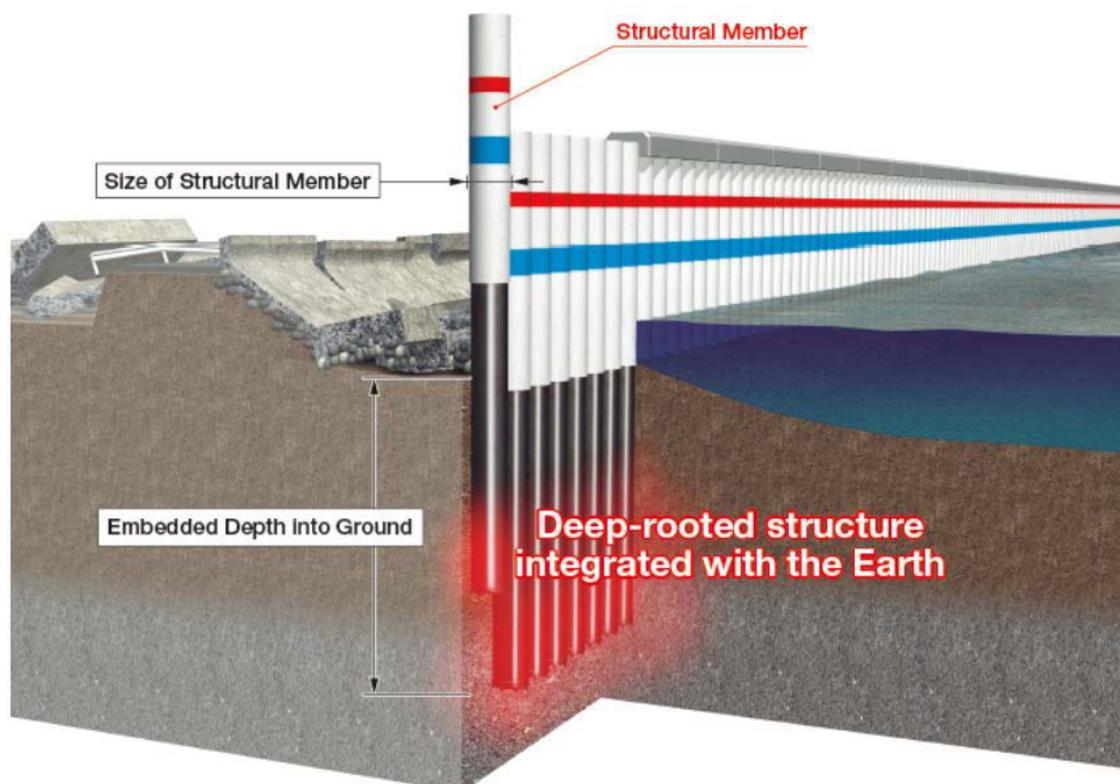
Giken is the inventor of the “Press-in Machine” and provides the environmentally friendly “Implant Method” to realise the resilient infrastructures against various natural disasters.

Our corporate philosophy is to contribute to the world by creating original products and technologies that benefit society. Below we summarize key points of our innovative technology.

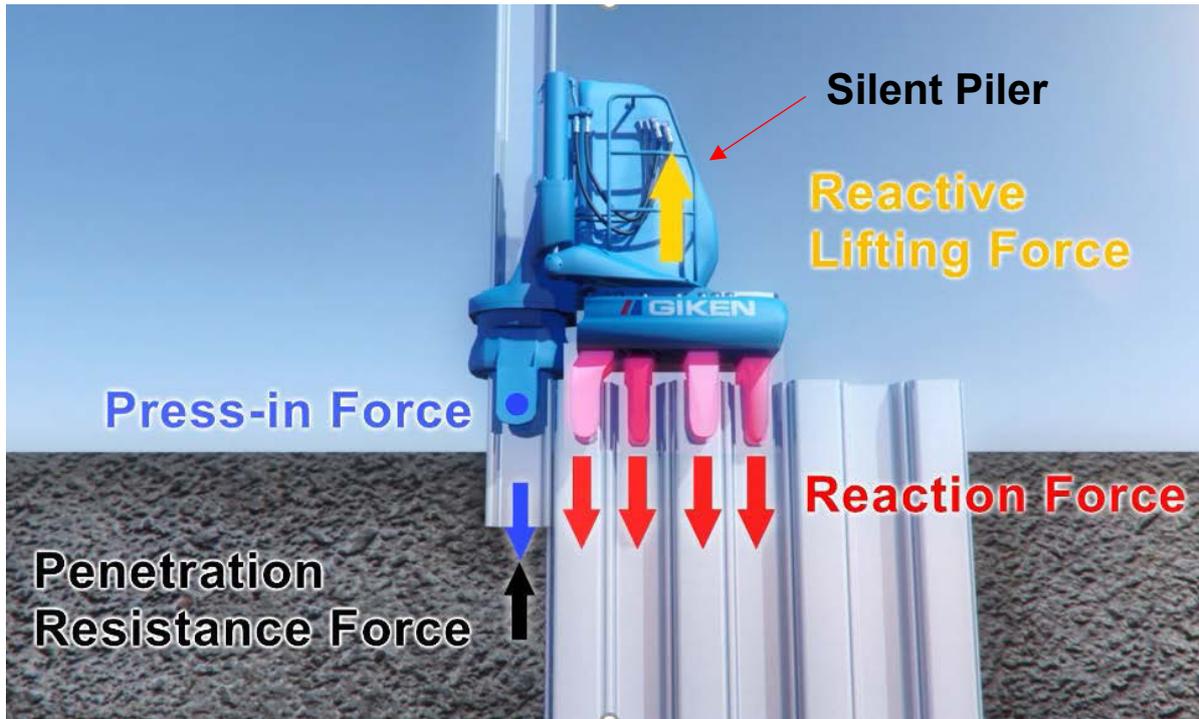
Embedded resilient piled foundations installed into the earth using the Press-in Method

Deep-rooted Resilient Structures

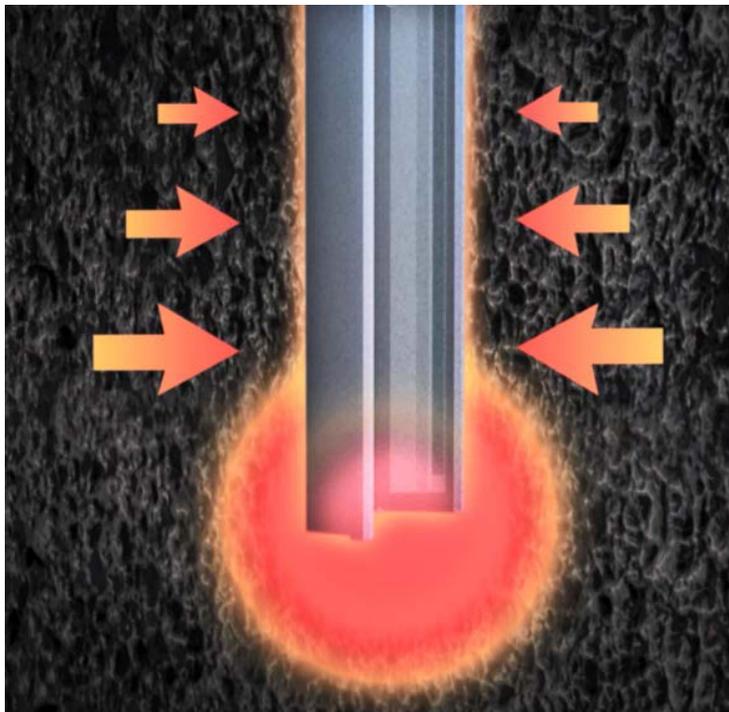
The Implant Structure consists of robust and durable structural members which are firmly embedded into the earth using the Press-in Method. The structural members are selected from a wide variety of piling materials in accordance with design requirement, thus, the Implant Structure can cover a wide range of foundation designs required in today’s construction industry. Also, being embedded into the ground, the Implant Structure is extremely resilient and maintains its serviceability even in extreme events, such as natural disasters.



The Press-in Method (Basics of Implant Structures)



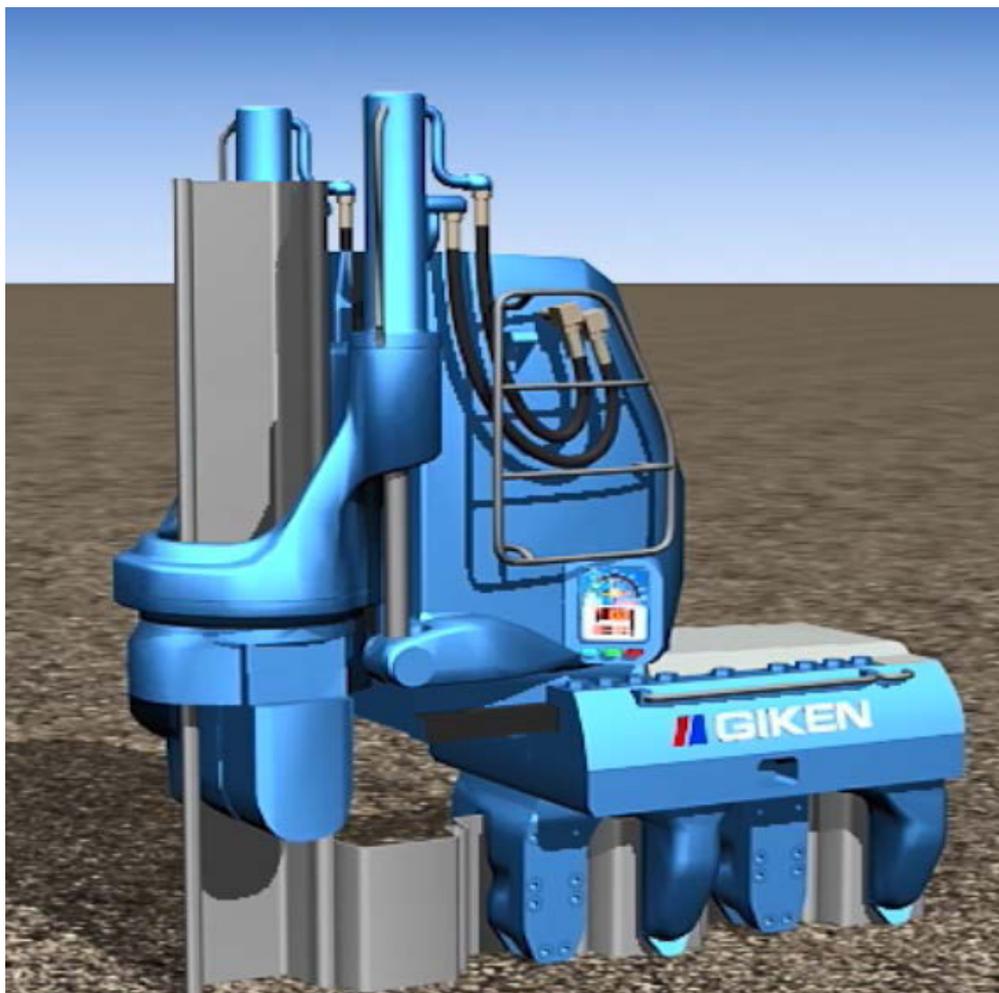
The basis of the Press-in Method is simple. The Silent Piler obtains its reaction force by gripping previously installed piles in the ground, which are called “Reaction Piles”. Then, based on the reaction piles, the Silent Piler inserts the pile into the ground using static loading. As the Press-in Method only emits minimum noise and imperceptible vibration, it is completely environmentally friendly.



Also, each pile is firmly embedded into the ground and completed structures (Implant Structures) are extremely resilient.

The Silent Piler

The Hydraulic Jacking Piling Machine for the Press-in Method



Giken Ltd. was established, and is headquartered, in Kochi, Japan ([map](#))– a mountainous prefecture with flat plains facing the Pacific Ocean, benefiting from the bounties of the sea, but also prone to flooding events and one of the highest risk areas identified for Nankai megathrust earthquakes.

Growing together with the highly resilience-minded community of Kochi, we at Giken are committed to creating an environmentally-friendly, sustainable society by providing infrastructures for safety and prosperity.



Image source: Wikipedia.org



Member Stats

ARISE Themes

DRM Strategies

Sector

Construction

Employees

489 as of August 2016

Type

Private Sector Enterprise

Area served

Headquarters: Kochi, Japan

Offices in 9 prefectures in Japan and 7 countries worldwide

Website

www.giken.com/en

JBP Japan Bosai Platform

Bosai ▶ Holistic approach to reduce disaster impacts

一般社団法人 日本防災プラットフォーム

Saving before Disaster

Investment before disaster will save your community and economy.

JBP is ready to make Your Country RESILIENT by Holistic Approach with Japanese Bosai Solutions



Japan Bosai Platform (JBP) is an association which assists their Japanese member companies to extend their cutting edge DRR technologies to countries outside Japan. JBP’s 100+ members belong to diverse industries – from think tanks, engineering consultancies, construction companies, architects, information technology companies, manufacturers of professional DRR equipment and hardware, manufacturers of DRR goods and home products, to GIS and remote sensing companies, and many others.

“Bosai” is a Japanese word that means **“holistic approach to reduce loss of life and economic damages in the process of disaster management against natural disasters”**.

The logo of JBP expresses the collaboration among private sector, government organizations and academia.



Why we work with ARISE (or, how joining ARISE changed us)

The Sendai Framework for Disaster Risk Reduction emphasizes that the private sector’s key roles are to, first of all, reduce disaster risks through developing and disseminating appropriate DRR technologies; and also, to strengthen partnership with various other sectors. The Sendai Framework affirms JBP’s existence, policy and strategy.

Since the adoption of the Sendai Framework, JBP has been strengthening its *Solution Map* database (see next page) so that anyone in the world will be able to search, and find, appropriate DRR technologies for their needs. In addition, JBP has been widening the partnership not only with governmental organizations in Japan but also with science and technology institutes in Japan.

JBP’s database, the *Solution Map*, assists local and central government agencies in finding the most appropriate technology to meet their needs



Solution Map is a database of cutting edge DRR technologies developed by JBP member companies that have a proven track record. *Solution Map* serves as a virtual shopping mall of DRR solution providers. Interested parties can search for appropriate technologies to meet their needs, and send inquiries, all directly through *Solution Map*.

Solution Map has been adopted as a solution provider system in the Resilient City Connect project executed by UNISDR, government of the Netherlands, and JBP.

JBP arranges and conducts DRR technology seminars in various countries

JBP will organize DRR technical seminars at the clients’ locale, and send teams to participate in events, on request. In such cases, JBP gathers member companies interested in presenting their DRR technologies to meet the indicated need. In 2016, JBP conducted such outreach in Indonesia, Vietnam, Myanmar, Taiwan, Canada and Romania.



JBP arranges DRR technology seminars in Japan for visiting teams



Every year, many DRR-related personnel visit Japan to learn from disaster risk management practices in Japan. Their training programme takes them to various government and civil society organizations to observe and learn from their experiences and know-how on DRR. However, most DRR technologies used in Japan are developed, provided and maintained by private companies.

JBP now provides DRR technology seminars for many DRR trainees in Japan. In 2016, JBP conducted seminars in collaboration with JICA; World Bank; ADB; Ministry of Land Infrastructure, Transport and Tourism; Ministry of Internal Affairs and Communications; and the Cabinet Office.

JBP actively participates in UNISDR events and joins international DRR community

JBP, together with member companies, actively participate in regional and global DRR conferences. In 2016-2017, JBP participated in the Asian Ministerial Conference for DRR in Delhi (AMCDRR 2016), ISDR Asia Partnership meetings, and will join the Global Platform in Cancun, Mexico.



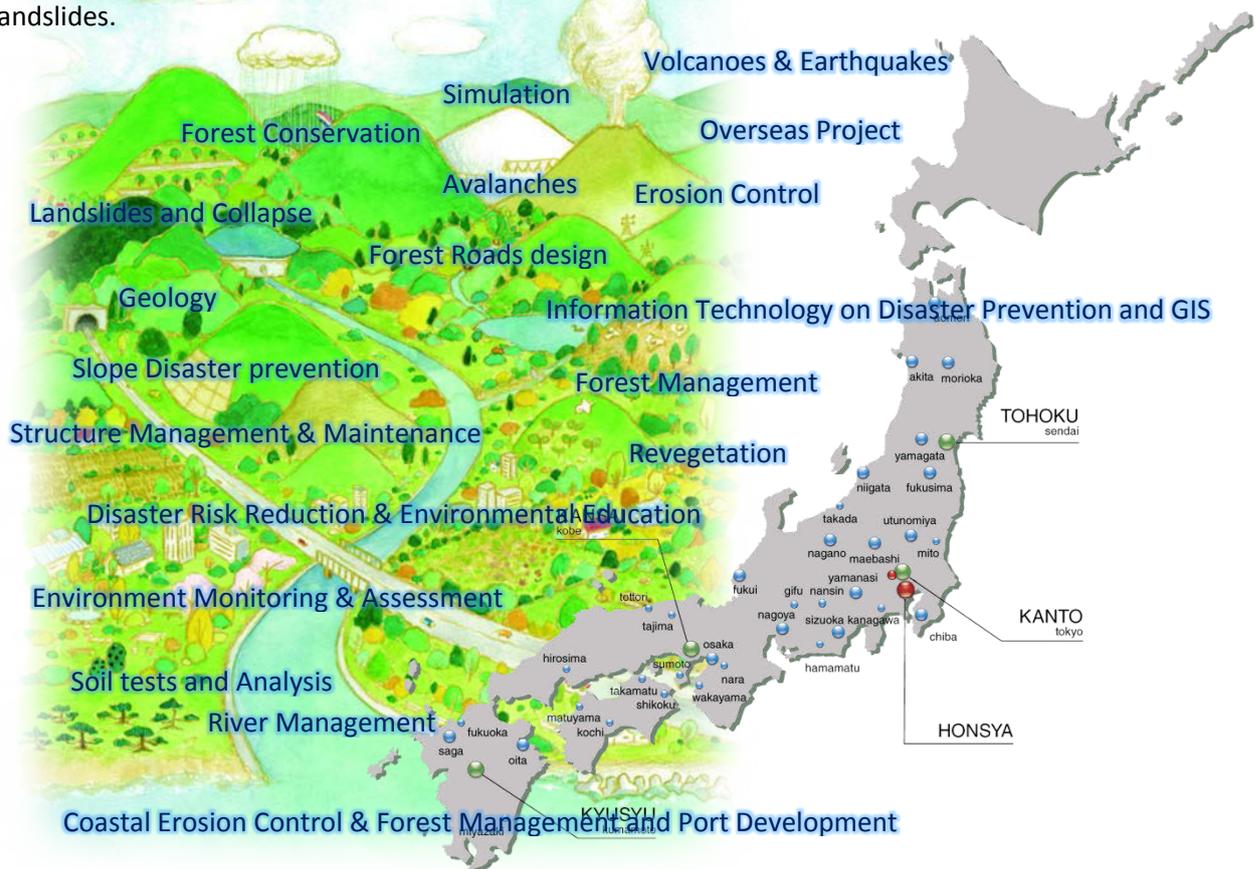
 Member Stats	
ARISE Themes	DRM Strategies
Employees	Number of members (April 2017): 105 (Executive membership: 35, Regular membership: 54, Support membership: 16)
Type	Business Association
Area served	All over the world
Website	https://www.bosai-jp.org/en

JAPAN CONSERVATION ENGINEERS & CO., LTD.

国土防災技術株式会社

Fifty-one years have already passed since our establishment on May 2, 1966, and we celebrated our 50th anniversary in 2016.

Over the last 50 years, Japan Conservation Engineers has been working as construction consultants primarily concerned with the prevention of mountain disasters and protection of the natural environment, as well as in the construction business for the prevention of disasters such as landslides.



Why we work with ARISE (or, how joining ARISE changed us)

Japan is particularly prone to natural disasters due to its geographical location. Almost every year we experience landslide and sediment disasters caused by typhoons and torrential rains. We also experience large-scale earthquakes every few years, recording severe damage. With the recent enactment of the Basic Act for National Resilience against large-scale natural disasters, the importance of initiatives for preventing and mitigating disasters at both the local and national level is becoming increasingly apparent.

When disasters occur, JCE achieves business continuity by utilizing our network of 44 business bases. JCE executes flexible modification of network structure as basic business continuity management (BCM) in order to achieve best performance against national-level crisis. With our extensive professional experience and proven track record, we are able to offer prompt and comprehensive services to our clients, including disaster restoration, prevention, and mitigation. And our service is not limited to domestic clients. We also provide international consultation services and are eager to promote further implementation of DRR in collaboration with ARISE.



JTB Tourism Research & Consulting Co.

JTB Tourism Research & Consulting Co.

株式会社 **JTB総合研究所**

JTB Tourism Research & Consulting Co. was established as a think-tank for the JTB group and the travel and tourism sector in Japan and the rest of the world. It provides research and consulting services and educational programs to the travel and tourism sector.

Following the East Japan Earthquake in 2011, the company launched a team specializing in DRR and crisis management consultation service. It helps both public and private sector upgrade the resilience of destinations and businesses through supporting development of crisis management plans, disaster response manuals, and organization of emergency response drills.

Tourism Crisis Management

Travel and tourism is one of the fastest growing industries in the world which contributes to 10% of global GDP and supports 292 million jobs globally. The sector is quite prone to diverse disaster risks. Every year, earthquakes, tsunamis, tropical storms and floods devastate tourist destinations around the world. Climate change has increased the frequency of extreme weather that largely impact tourism destinations and transportation. Tourism is exposed to the threats of epidemics such as SARS, Ebola, MERS and Zika. Threats of terrorism are no longer limited to certain disputed regions but are present everywhere on the globe including peaceful tourist destinations.

In order to maintain the sustainable growth of travel and tourism, it is essential to make the destinations safer, more secure and more resilient; better prepared for any potential disaster risks. Tourism crisis management entails developing measures, plans and manuals to promptly respond to disaster events in an adequate way to minimize the negative impact to visitors and tourism businesses. A well prepared destination and tourism industry is quick to plan and take necessary actions for post disaster recovery.



(Fishing boats landed in town after tsunami) (Buses smashed by the tsunami)
Photos from Kesenuma, Japan

Why we work with ARISE (or, how joining ARISE changed us)

DRR often requires a multi-sectoral approach. In this regard ARISE is a perfect network of non-governmental organizations representing diverse sectors and geographical regions of the world, where we can find the best partners to work with who share the same vision to make this planet more resilient.

Being an organization closely linked to UNISDR, ARISE is a powerful vehicle for advocacy of DRR to the wider global business community, which is something that a single private company can hardly do effectively.

What does Tourism Crisis Management look like?



A workshop in Okinawa, Japan, with local tourism stakeholders to examine whether the existing evacuation plan for the residents are also applicable to the visitors.

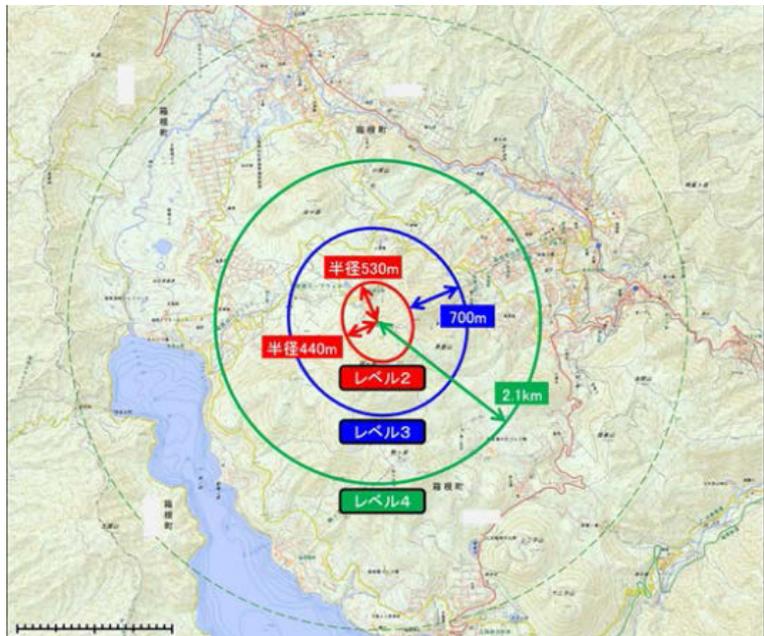
Invited to the workshop are officers of local municipality, tourism association staff, employees of local hotels and tourist service providers.

The outcome of the workshop was revising the evacuation plan to include visitors in its scope.

In 2015, the alert level for volcanic activities was raised in and around Hakone, one of the most popular hot spring resorts in Japan.

In preparedness for the worst-case scenario, the Hakone Ryokan and Hotel Association developed an emergency response manual for the member hotels with full support from JTB Tourism Research & Consulting Co. The manual shows practical procedures to secure the safety of the hotel guests and employees when a volcanic eruption alert is issued.

The manual also includes measures to be proactively taken for business continuity of the facilities and post-crisis recovery.



(Evacuation area map for respective alert level)

 Member Stats	
ARISE Themes	<div style="display: flex; justify-content: space-between; text-align: center;"> <div style="background-color: #f4a460; padding: 5px;">DRM Strategies</div> <div style="background-color: #9b59b6; padding: 5px;">Benchmarking & Standards</div> <div style="background-color: #e74c3c; padding: 5px;">Education & Training</div> <div style="background-color: #2ecc71; padding: 5px;">Legal & Regulatory</div> <div style="background-color: #34495e; padding: 5px; color: white;">ARISE Board</div> </div>
Sector	Tourism
Employees	100
Type	Private Sector Enterprise
Area served	Headquarters: Tokyo, Japan Our clients include: national and local governments, destination management organizations, travel and tourism service operators, hotel associations, investors & development companies and educational institutions
Website	http://www.tourism.jp/en/



KABTO

株式会社カブト



Emergency earthquake alert unit "QCAST"

KABTO Co.Ltd. is active in:

- System development, distribution
- Risk management
- Project planning/support
- Outsourcing of internal audit for insurance agencies

KABTO Co.Ltd. contributes to ARISE Theme "Benchmarking and Standards" with a focus on insurance distribution in Japan. The aim is to understand the current situation (current standards, current practice, and best practice). Based on the findings we would like to suggest improvements of standards and a benchmark system to facilitate the adoption of new standards and best practice. Hopefully the outcome can be transferred to other industries and countries.

As one of the few SME members in ARISE Network Japan, KABTO brings its distinct perspective and energy to the network.

Why we work with ARISE (or, how joining ARISE changed us)

We would like to contribute

- By limitless sharing of information internationally in our area of knowledge and technology
- By aiming to further improve our services for disaster reduction and prevention
- By introducing in various ways additional services that our company does not offer yet
- By creating an environment where more people can obtain necessary knowledge and technology



Kabto provides a customer relationship management (CRM) system to insurance agencies in Japan. Reasons for managing customer risks are to offer ideas for BCP/BCM to customers and to facilitate BCP/BCM.

Also, for the purpose of specific risk reduction, we provide an earthquake/disaster prevention system to governments, enterprises, among others that utilizes earthquake early warning.

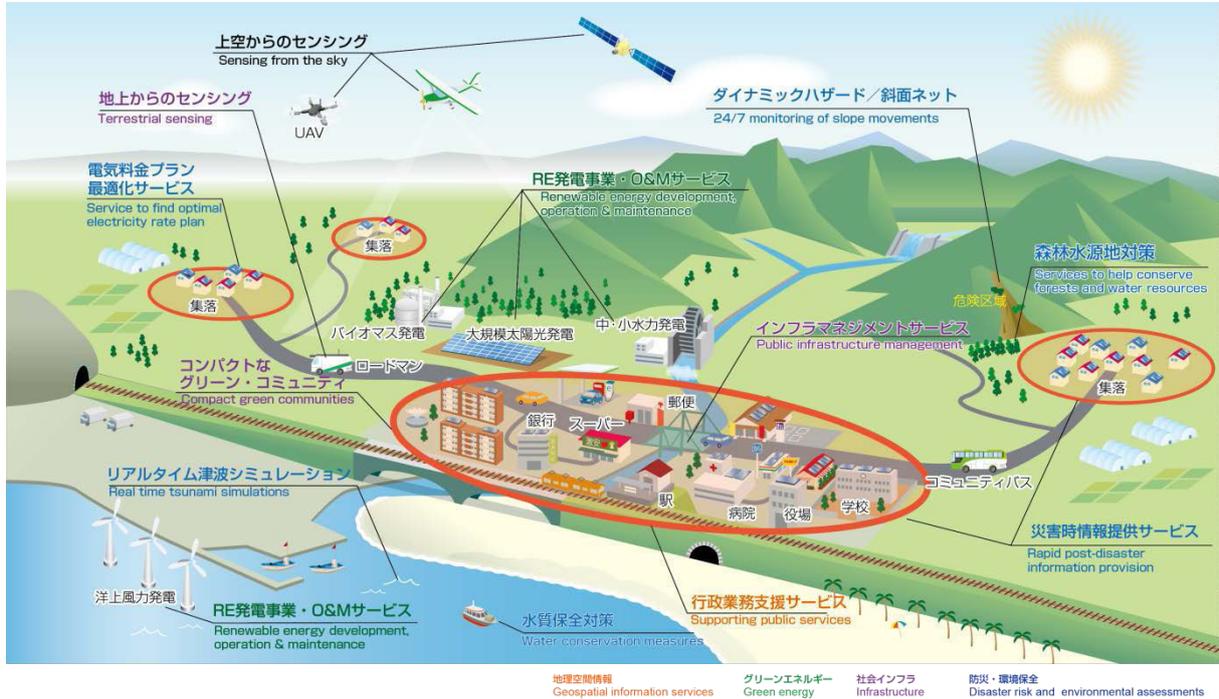
Kabto actively supports the conference hosted by the Insurance Committee of the Junior Chamber International Japan and Executive Committee of the International Insurance Distribution Conference, whose premier objective is to spread the use of BCP/BCM. We are working to link this industry group with the ARISE Network Japan. Kabto provides the opportunity for ARISE members to promote their best practices at the conference.

 Member Stats	
ARISE Themes	Benchmarking & Standards
Sector	Other services (Risk management services)
Employees	15
Type	Private Sector Enterprise
Area served	Headquartered in Tokyo, Japan Services provided all over Japan, especially for insurance agencies
Website	http://www.kabto.com/



Japan Asia Group
KOKUSAI KOGYO CO., LTD.

国際航業株式会社



Kokusai Kogyo is a leading Japanese engineering consultancy and project management specialist in geospatial information, disaster risk reduction management, infrastructure development & management, urban development & management, and green energy.

Why we work with ARISE (or, how joining ARISE changed us)

Our front-row view of the UN processes in 2015 changed us - we see the private sector as key actors towards a better world in 2030, and believe that businesses must also mainstream the principles of 2030 global agendas.

Since 2015, Kokusai Kogyo's corporate strategy and our mid- and long- term plans have been tied to disaster risk reduction, sustainable development and climate change action. We will innovate and fill the gaps in our line-up of high-tech products and solutions and make them more affordable to diverse end users without sacrificing trademark quality.

Kokusai Kogyo will continue to work to bring a sustainable future one step closer through geospatial information technology.

Business Continuity Planning and Business Continuity Management (BCP/BCM)



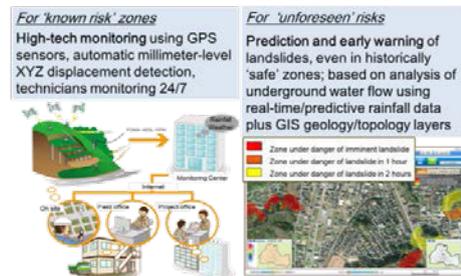
Staying open for business is naturally a priority for businesses providing DRR and DRM products and services. Our BCP/BCM lets us deliver on our promise to conduct survey and aerial photography services under four major Emergency Agreements (see our [2016 CSV report](#)*). Employees' safety status, as well as their availability during emergencies, is communicated via the web-based [HotMapMail Service](#) and our continuity planning qualified for

national [Resilience Certification](#)* in 2016.

* Link/information in Japanese

Implementing the Sendai Framework through our core business activities

Our product line-up has evolved through decades of answering the disaster risk management (DRM) needs of Japanese Local Governments, using GIS and remote sensing tools to understand risk, manage risk, and accurately respond to emergency situations. Our technology and know-how were then disseminated world-wide through Japanese development projects. Since 2015 we have intensified our efforts to make our products more affordable and to identify and fill our gaps in our DRM solution offerings.



Different products to address landslide risk

Delivering on the the ARISE Commitments: raise awareness, influence, share & catalyze



An ARISE Board member and [working with UNISDR since 2011](#), our Chairperson and CEO Sandra Wu has long supported UNISDR in their private sector outreach. Kokusai Kogyo is active in UNISDR's regional and global events, and works to connect ARISE to local stakeholder partners as the secretariat of ARISE Network Japan.

Beyond ARISE, Kokusai Kogyo has co-launched the DRR working group under Global Compact Network Japan and brought DRR to the attention of 230+ members in that network, and Sandra Wu brings DRR into the climate change conversations at UN Global Compact and the World Economic Forum.

 Member Stats	
ARISE Themes	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="background-color: #f4a460; padding: 5px; text-align: center;">DRM Strategies</div> <div style="background-color: #4db6ac; padding: 5px; text-align: center;">Investment Metrics</div> <div style="background-color: #9c27b0; padding: 5px; text-align: center;">Benchmarking & Standards</div> <div style="background-color: #ff9800; padding: 5px; text-align: center;">Urban Risk Reduc & Resilience</div> <div style="background-color: #3f51b5; padding: 5px; text-align: center;">ARISE Board</div> </div>
Sector	Professional, scientific & technical services (incl. consulting)
Employees	2,300 (consolidated)
Type	Private Sector Enterprise
Area served	Headquartered in Tokyo, Japan 56 domestic offices, 6 overseas offices and affiliates Projects executed in 30+ countries annually and 100+ countries overall
Website	http://www.kkc.co.jp/english/index.html



Mitsubishi Research Institute, Inc.

株式会社三菱総合研究所



Mitsubishi Research Institute, Inc. (MRI) was founded in 1970. Since that time, the MRI Group has consistently contributed to the development of numerous fields, including economics, public affairs, and science and technology, including ICT. We have built a solid reputation as an integrated think tank by combining our think tank and consulting services, including surveys, research, analysis, forecasting and systems design, as well as the proposal of management strategies and ICT utilization strategies, with our IT services, which encompass systems development and maintenance and outsourcing.

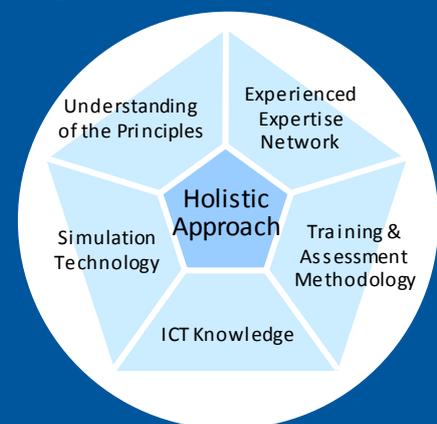
MRI has contributed to solving various social and economic issues. Disaster risk management is one of the specialty fields of MRI. MRI supports national, regional, and industry organizations surrounded by disaster risk environment to develop strategies and plans, strengthen the foundation of organizations, and implement measures for establishment of a resilient society.



Why we work with ARISE (or, how joining ARISE changed us)

Throughout the world, natural disasters are causing severe damage to human health, the economy, society, cultures and the environment. These damages interfere with the Sustainable Development Goals (SDGs).

MRI has extensive experiences in disaster prevention and reduction activities in Japan. MRI conducts disaster risk management by the holistic approach composed of five items. MRI is participating in ARISE to apply these experiences and approach to countries around the world.



MRI provides consulting services for countries and companies to manage disaster risk.

In many countries, natural disasters are one of the factors that can be a serious obstacle for continuing social and industrial growth. For sustainable growth, stakeholders such as governments, infrastructure operators, local developers and tenants are required to make efforts and take measures to address the requirements of the most vulnerable under a common goal.

- Strategic planning for disaster risk management
- Risk assessment of disaster impact
- Research of climate change adaptation
- Consulting of BCM (Business Continuity Management) for companies and governments
- Consulting of education and training for disaster risk management

Regional Resilience Management

MRI supports countries or regions to manage resilience.

(1) Organizing stakeholders

Governments, infrastructure operators, local developers, tenants, investment institutions, etc.

(2) Evaluating the vulnerability of local communities and industries to disasters

Disaster damage estimation, analysis of social and industrial impacts, etc.

(3) Improvement planning of social and industrial continuation force

Human resources education, forecasting and warning systems, emergency response planning, strengthening and redundancy of facilities

(4) PDCA building regional management system

Review system, training, etc.



arise Member Stats

	DRM Strategies
Sector	Professional, scientific & technical services (incl. consulting)
Employees	874 (2015)
Type	Private Sector Enterprise
Area served	Headquarters: Tokyo, Japan
Website	http://www.mri.co.jp/english/

Mitsui Sumitomo Insurance Co., Ltd.

MS&AD

IRRIC Research Institute & Consulting, Inc.

三井住友海上火災保険株式会社
株式会社インターリスク総研

Mitsui Sumitomo Insurance Co., Ltd. (MSI)

As a core part of the MS&AD Insurance Group, we promote our mission, “To contribute to the development of a vibrant society and help secure a sound future for the earth, by enabling safety and security through the global insurance and financial services business.”

With the acquisition of Amlin in February 2016, a UK-based insurance holding company, our international business has further expanded. Through our international network spanning 42 countries and regions, we provide products and services to alleviate the wide variety of risks occurring throughout the world. As a good corporate citizen, we aim to create a “World-leading insurance and financial services group,” contributing to our society.



IRRIC Research Institute & Consulting, Inc. (IRRIC)

IRRIC Research Institute & Consulting, Inc. is an affiliated operating company, which is directly invested by MS&AD Insurance Group Holdings, Inc., which provides mainly corporate clients, both domestic and overseas, with risk management services.

As a company engaged in the risk-related services business, we provide a wide range of risk management service including consulting, research and investigation, seminars, and publications in response to clients’ various needs.

Under a rapidly changing social and economic environment, risks surrounding clients are getting more complicated and diversified. Brushing up our professional expertise, we will strive to secure quality in our services, to respond firmly to our clients’ expectations, and thereby to contribute to the socio-economic development and realization of sustainable society

Why we work with ARISE (or, how joining ARISE changed us)

The reason why we work with ARISE is that we agree to the concept of ARISE. That is, we leverage private sector expertise and strengths to advance disaster risk reduction and mitigation activities, including enhanced resilience and effective response.

Although Japanese companies now face the risk of Tokyo Inland Earthquake as well as Nankai Trough Earthquake, both of which are very imminent, not all companies are ready for those incidents.

As we have built up the organized knowledge about disaster prevention, disaster reduction, effective response and so on, we share this knowledge with our clients for a more resilient society.

Under the management principle of providing security and safety through the global insurance and financial service business, the entire Group has made efforts so insurance payments can be made immediately in case of a large-scale disaster, and we contribute to the reconstruction of areas hit by disasters. We also work on creating a secure and safe society which is resilient to disasters using know-how to prevent and mitigate disasters, and prevent accidents through our non-life insurance business.

★Support for Business Continuity Plan (BCPs)

Japan is known as an earthquake-prone country, and the predicted Nankai megathrust earthquakes are major concern for the country. Additionally, since torrential rain hit the Kanto and Tohoku regions in September 2015, concern over such disasters as well as earthquakes has been increasing. Under these circumstances, MSI and IRRIC have actively been engaged in mitigating earthquakes, tsunami damage, and water disasters, and providing advisory services for formulating Business Continuity Plans (BCPs). We also support operational drills with disaster scenarios, in an effort to "contribute to the creation of a flexible and robust society from the prevention and mitigation of disasters to business continuity." In fiscal 2015, we also built new BCP models for overseas business offices.

★"Emergency Navigation" Feature on Smartphone Service

MSI has included an "Emergency Navigation" feature on its smartphone service, "SumaHo." The specific functions of this feature includes an evacuation shelter guide, which provides directions to designated shelters of local governments across Japan using GPS or camera, a safety information registration and verification function, a disaster prevention information function that provides real-time notifications of disaster information disseminated by government ministries and municipalities, as well as a collection of know-how for disasters that provides free tips that can be useful during a disaster. This "Emergency Navigation" is a service that is available not only to insurance policyholders, but to everyone. It represents part of our efforts to support safe and secure actions during a large-scale natural disaster. We released foreign language versions (English, Chinese, and Korean) in July 2015 so that foreign visitors to Japan and exchange students can use the application as well.



Emergency Navigation

★New Consulting Service that Uses a New Tsunami Model

Based on experiences from the Great East Japan Earthquake and possible damages from a massive Nankai Trough Earthquake, risks related to tsunami receive significant interest. In these circumstances, MSI and IRRIC developed a "New Tsunami Model" to estimate damages from tsunami in cooperation with a major U.S. company specialized in natural disaster risk assessment. This "New Tsunami Model" enables a consulting service that can take into account "damages from tsunami" in addition to the conventional "earthquake risk analysis."

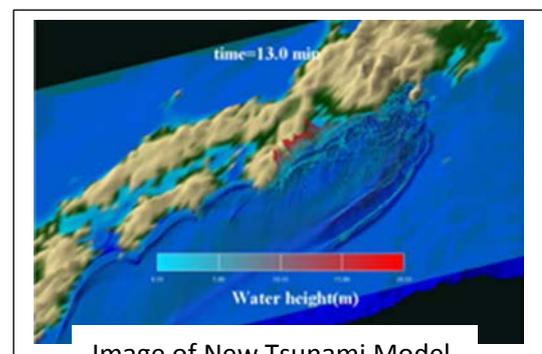


Image of New Tsunami Model

By using the results of damage estimates based on "probability analysis(*1)" of tsunami risk, it became possible for the first time among domestic insurance companies to offer "an estimated amount of damages for a return period (the amount to be incurred once in 200 years, etc.)"

according to the requests of each customer and to make a proposal on "priority order of measures at multiple bases", which was difficult with conventional "scenario analysis(*2)".

(*1) Estimated amounts of damages on covered properties in respect to all expected earthquakes are calculated. The results are then integrated and processed in a stochastic method. With an amount of constructive loss for each return period (excess of loss curve: EP curve), it is possible to visualize the amount of risk based on probability.

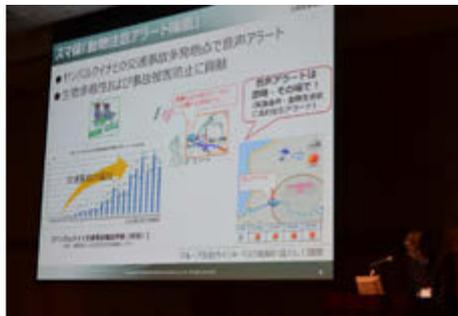
(*2) Based on the forecast of earthquakes that have occurred on specific active faults and troughs, an estimated amount of damages on covered properties is calculated. It is possible to visualize "how bad the damage would be if a specific earthquake occurs." For example, the Nankai Trough consolidated type earthquake and the Great Kanto Earthquake during the Taisho Era.

★Supporting Early Recovery from Disasters

IRRIC has developed "System for Supporting Restructuring of the Livelihood of Disaster Victims" in industrial and academic collaboration with Kyoto University, Niigata University, and others, and supported local governments to introduce the system. This system provides comprehensive support to local governments to help disaster victims restructure their lives, including issuance of Disaster Victim Certificates, and thus contributes to putting their lives back in order as soon as possible. In the wake of the Kumamoto Earthquake in April 2016, we supported the development of a system for issuance of Disaster Victim Certificates.

★Participation in Symposiums on "Green Resilience"

As a member of the "Association for Resilience Japan," MSI participates in the resilience working group. "Green Resilience" means to utilize appropriate placement and management of natural capital for disaster prevention and mitigation as well as regional revitalization. Included in the government's "Action Plan for National Resilience 2016" as a keyword, it is an idea which is increasingly attracting attention. The "Green Resilience Symposium" was held on May 12 2016, in which Senior Advisor Egashira took the podium. About 500 people attended, substantially exceeding the seating capacity, as the Minister of the Environment, the Minister in charge of Building National Resilience, and the Minister for Regional Revitalization also took the podium.



In 2017, MSI received two awards for two projects at the Japan Resilience Award 2017, hosted by the "Association for Resilience Japan". This award recognizes corporations and organizations conducting initiatives that contribute towards building a resilient country, communities, people and businesses and ultimately, towards a resilient future society.

MSI's immediate establishment of disaster response offices and on-site investigation bases on the occasion of the 2016 Kumamoto Earthquake, and the determination of its local staff to pay out insurance claims as quickly as possible, despite their own homes and families being affected by the disaster, won the Excellent Resilience Award. MSI's greening of its head office building in Tokyo, contributing to urban flood control, mitigation of urban heat island effects, and rainwater recycling of a total of 7,000 m² won the Best Resilience Award for Green Resilience.



Extreme weather caused by climate change has various impacts on business activities. By providing measures to mitigate such impacts, we support the development of sustainable business in a society with climate change. The advancement of global warming is unavoidable, and therefore, appropriate adaptation measures are now crucial to success in business.

★Participation in Pacific Disaster Risk Financing Pilot Program

MSI is currently a risk underwriting insurance company for natural disasters on the "Pacific Disaster Risk Financing Pilot Program". This program, set up jointly by the Japanese government and the World Bank, is designed to finance quick reconstruction funds to nations and regions in the Pacific Islands (Samoa, Tonga, Marshall Islands, Vanuatu, and Cook Islands), where insurance markets have not matured sufficiently, that are afflicted by natural disasters (cyclones and earthquakes) of a certain scale. By participating in this system, MSI supports measures against natural disasters in the Pacific area, and fulfills social responsibilities for the area. Through derivative trading with the International Development Association of the World Bank, we are providing financial support for reconstruction in the event of natural disasters of a certain magnitude in Pacific Island countries.



★Alerting Service of Weather Information

On June 1, 2015, MSI, in cooperation with Weathernews Inc., started providing the Alerting Service of Weather Information for the first time in the industry to policyholders of construction insurance (Building All-in, Civil Engineering All-in) and fire insurance (Property Master) for corporations. This service sends alert mails to customers when a forecast for precipitation amount, wind speed and amount of snowfall exceeds standards(*) at up to five locations that customers preset on the dedicated website, or when lightning is observed at locations within the standard values(*) from the observation point.

In recent years, damage caused by typhoons, heavy rain, sudden and localized thunderstorm and lightning (so-called "guerrilla" thunderstorm and lightning) occur nationwide. These weather risks significantly affect companies' business management. Through provision of weather information, we will help prevent and mitigate damage caused by natural disasters and support business activities of our customers.



(*) Customers preset two levels: Alert and Warning. Regarding lightning, the distance is between the observation point and the point struck by lightning.

arise Member Stats	
ARISE Themes	DRM Strategies
	Education & Training
Sector	Benchmarking & Standards
	Urban Risk Reduction & Resilience
Employees	Mitsui Sumitomo Insurance
	IRRIC Research Institute & Consulting
Type	Insurance
	Professional, scientific & technical services
Area served	20,396 (As of 1 April 2017)
	222 (As of 1 April 2017)
Website	Private Sector Enterprise
	Private Sector Enterprise
Website	Headquartered in Tokyo, Japan
	Headquartered in Tokyo, Japan
Website	178 department & branches in Japan, 42 countries and regions
	5 domestic offices, 4 overseas offices and affiliates
Website	http://www.ms-ins.com
	http://www.irric.co.jp



Sompo Japan
Nipponkoa

Sompo Japan Nipponkoa
Insurance Inc.

損保ジャパン日本興亜

**Our vision is to build a
“Theme park for the security, health, and wellbeing of customers.”**

<SOMPO Holdings Group Business Overview>



<SOMPO Holdings Group Businesses Overview>

To build a “Theme park for the security, health, and wellbeing of customers” and in accordance with our “Innovation for Wellbeing” brand slogan, the Sompo Holdings Group has positioned our insurance business at our core while expanding business areas, developing into the nursing care business, the home remodeling business, and so on. We aim to evolve into a “theme park for the security, health, and wellbeing of customers” that brings happiness into their lives.

Why we work with ARISE (or, how joining ARISE changed us)

Through our experience centered in insurance and risk management areas, we are committed to contribute to the enhancement of DRR and social resilience globally.

To achieve the goals and the common value of societies, it is important for companies to take a more cooperative approach while also taking action as individual companies.

ARISE is the best platform where we can find a quality network of experts from various industries. Close discussions between our members and experts from public sectors and international institutions are helpful for us to cultivate ideas and actions. We aim to be responsive and innovative toward the social challenges and keep on working for the wellbeing for all.

Our work towards Disaster Risk Reduction and Climate Change Adaptation

Example 1:

International Cooperation Activities to Improve Natural Disaster Resiliency in the Philippines

Commissioned by the Japan International Cooperation Agency (JICA), Sompo Risk Management & Health Care is working with Kokusai Kogyo Co., Ltd. and Associate Professor Kazuyoshi Nishijima of the Disaster Prevention Research Institute (DPRI) from Kyoto University on a project in the Philippines. The project involves collecting and surveying information about risk insurance mechanisms to help incentivize the building of disaster-resilient public infrastructure in Metro Manila:

April 28, 2016 “JICA, GSIS launch study on disaster risk insurance to boost PH resiliency”

<http://www.jica.go.jp/philippine/english/office/topics/news/160428.html>

The Philippines suffers one of the highest rates of natural disaster in southeast Asia. By law, central government and local authorities are obliged to take out general insurance on facilities they own or have a vested financial interest but, in practice, much public infrastructure is not insured.

People are looking to Japan, as a country with a similarly high exposure to natural disaster as the Philippines, to help reduce the Philippines’ vulnerability to natural disaster.

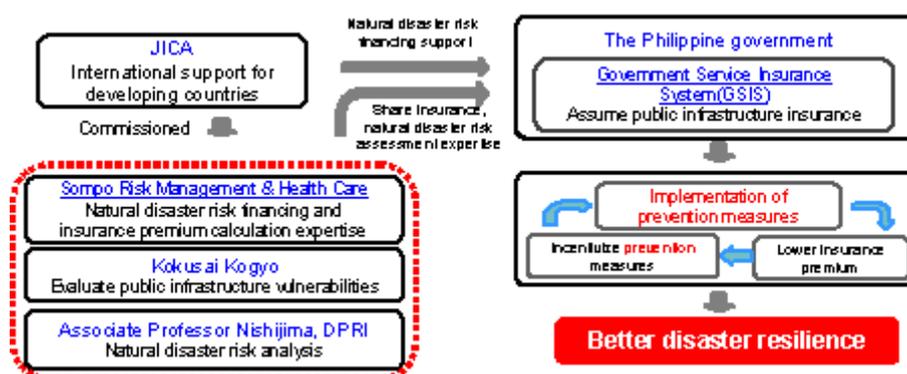
● Project Outline

Through risk evaluation models for various natural disasters on the transportation infrastructure and public schools in Metro Manila, this project reviews:

- a) how to make the public infrastructure insurance more effective as a risk transfer mechanism, and
- b) the possibility to build in an incentive mechanism on insurance programs for the public facilities that enhance investment on disaster prevention for improving resiliency.

We will develop a risk-based insurance premium calculation tool and a concept of incentivizing disaster-prevention investment using Sompo Risk Management & Health Care’s quantitative evaluation expertise.

Combined with Kokusai Kogyo’s evaluation of public infrastructure vulnerabilities and DPRI’s disaster risk analysis, we aim to promote disaster risk reduction measures through the insurance programs for public infrastructures in the Philippines.



Example 2:

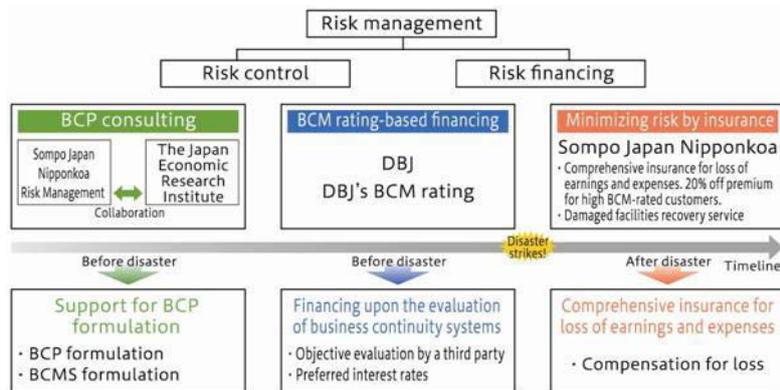
Collaboration with Development Bank of Japan (DBJ)

Sompo Japan Nipponkoa works with the Development Bank of Japan (DBJ) to support the disaster protection and disaster prevention measures of corporate clients.

This comprehensive financial service draws upon both the DBJ’s accurate rating capabilities and the Sompo Holdings Group’s non-life insurance and risk management expertise. Sompo Japan Nipponkoa offers an insurance service that covers loss of earnings and expenses in the event of operational suspension due to a natural disaster. Companies evaluated by the DBJ as having a high Business Continuity Management (BCM) rating, so called DBJ BCM rating, can receive maximum discount rate of 20% on their premium.

Sompo Risk Management & Health Care provides assistance service to DBJ clients who wish to bolster disaster-prevention countermeasures in developing their BCP plans.

The Group will continue to provide total financial solution services by exploring further opportunities for high-synergy collaboration projects with external partners.



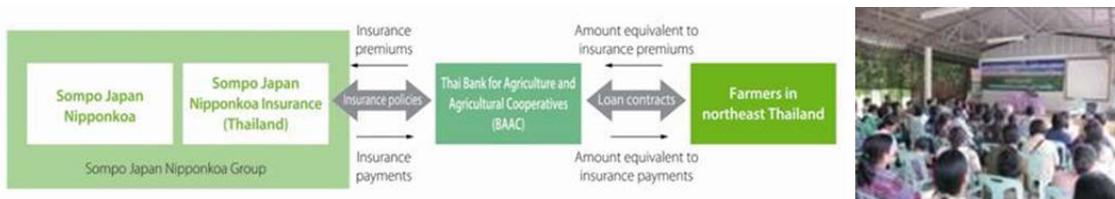
Example 3:

Providing Weather Index Insurance in Southeast Asia: Adaptation to Climate Change

Weather index insurance is an insurance product that pays out a contractually predetermined insurance amount when a weather index – such as for temperature, wind speed, rainfall, or hours of sunshine – fulfills certain conditions.

In 2007, the Sompo Holdings Group began researching risk financing methods together with the Japan Bank for International Cooperation (JBIC) to address climate change and in 2010, started providing Weather Index Insurance in northeast Thailand when their crops were damaged by drought.

Many farmers in Northeast Thailand employ drought-susceptible, rain-fed agricultural methods. Because they take out loans for their farming operations with the expectation of paying back the loans with money raised from the harvested crops, these farmers can face serious financial difficulties if drought or other weather conditions significantly reduce crop yields. In response to this issue, Sompo Holdings Group has developed a scheme in which Sompo Japan Nipponkoa (Thailand) offers the weather index insurance through Bank for Agriculture and Agricultural Cooperatives (BAAC), which markets the product to farmers who maintain loan contracts with the bank. During development of the product, field surveys were repeatedly held along with hearings from farmers in order to design the product as simply as possible for farmers who were unaccustomed to insurance.



The team also strove to prepare pamphlets that set forth the insurance product in simple terms, so that farmers can enter into the insurance without any concerns.

When drought hit the region in 2012, insurance claims were promptly paid out to more than 80% of policyholders. This fact has served to popularize the product, allowing us to expand sales to currently every province in Northeast Thailand.

Sompo Holdings Group’s Crisis Management (Business Continuity System)

Sompo Holdings Group has established the Group basic policy on the establishment of BCP (Business Continuity Programs) to ensure each Group company can fulfill its corporate social responsibilities even in the event of a major natural disaster or other incidents. In line with the policy, Group companies are developing business continuity systems that enable uninterrupted operations and prompt recovery by identifying critical operations and corresponding emergency actions as well as by regularly reviewing the plans.

Sompo Japan Nipponkoa has identified the following three tasks as critical in fulfilling their social responsibilities as P&C insurance firms: accepting insurance claims, paying insurance claims, and amending/renewing insurance contracts. Sompo Japan Nipponkoa has developed BCP intended to ensure resumption of these critical operations within 24 hours of a disaster.

We scale up our business continuity system whenever appropriate through voluntary inspections and external consultant evaluations. We also enhance the effectiveness of the BCP by conducting regular BCP drills.

Sompo Japan Nipponkoa establishes a crisis management promotion headquarters, chaired by the President when disasters occur. The headquarters are responsible for developing and operating the business continuity system at all times in the event of a crisis, The crisis management promotion headquarters become the crisis center and takes the lead in managing the crisis situation.



arise  Member Stats	
ARISE Themes	Insurance
Sector	Insurance and reinsurance
Employees	27,144 (As of March 31 , 2015)
Type	Private Sector Enterprise
Area served	Worldwide
Website	http://www.sjnk.co.jp/english/



Tokio Marine & Nichido Fire Insurance Co., Ltd.

東京海上日動火災保険株式会社

<http://www.tokiomarinehd.com/en/sustainability/>

To Be a Good Company

Providing Safety & Security



The world is now facing various social issues, inflicted by frequent large-scale natural disasters, demographic shifts, income disparities and poverty. Among such risks, resolving disaster issues and mitigating damages are urgent issues for us. These issues may induce drastic changes in risks surrounding our society.

Protecting the Earth



To protect people and society from these varying risks and also capture business opportunities and enhance corporate value while responding to these risks, Tokio Marine Group is promoting various initiatives.

Supporting People



Tokio Marine Group works on initiatives to create a safe, secure and sustainable future with a focus on three core CSR themes “Providing safety and security”, “Protecting the Earth”, and “Supporting people” together with local communities through our entire business operations from providing product and services for disaster risk reduction to disaster prevention awareness raising initiatives for children and business entities.

Why we work with ARISE (or, how joining ARISE changed us)

In September 2014, Tokio Marine & Nichido became the first Japanese insurance company to join UNISDR DRR-PSP (currently ARISE) based on the thinking that disaster prevention and reduction was an issue that should be addressed by a global insurance group and that the company should actively fulfill this role.

Tokio Marine & Nichido participated as a member of DRR-PSP in the Third United Nations World Conference on Disaster Risk Reduction held in March 2015 in Sendai and sponsored by UNISDR. Tokio Marine group contributed to the success of the conference by holding three public forums and operating an exhibition booth in cooperation with Tohoku University and The Geneva Association.

In November 2015, UNISDR launched Private Sector Alliance for Disaster Resilient Societies (ARISE) toward the strengthening and reorganization of the private sector and the realization of a disaster resilient society. Tokio Marine will continue to contribute to the community.

Disaster Risk Reduction Goal

Over the past several years, natural disasters such as tropical cyclones, floods, earthquakes and tsunamis, have raged through various regions around the world (e.g. the Great East Japan Earthquake and the flood in Thailand in 2011, Hurricane Sandy in 2012 and Typhoon Haiyan in 2013)

By publicly expressing “Disaster Risk Reduction (DRR)” as its material CSR issue, Tokio Marine aims to create a safe, secure and resilient society to climate change and natural disaster risks. Tokio Marine makes every effort to pay insurance claims expeditiously in times of disaster, while offering support to recovery activities in the devastated areas. Aside from disaster responses, Tokio Marine actively involves itself in various disaster risk reduction measures as indicated below.

- Industry-academia collaborative Risk Research Projects with the University of Tokyo, Nagoya University, Kyoto University and Tohoku University (e.g. “Research on the Effects of Tsunami Risk Reduction by the Coastal Forest in the Great East Japan Earthquake and Tsunami - toward the Disaster Prevention and Mitigation by the Natural Coastal Forest and Ecosystem” by Earthquake-induced Tsunami Risk Evaluation (TMNF) Endowed Research Division of Tohoku University’s IRIDeS)
- Mangrove Planting Project for local community development, climate change mitigation and adaptation, biodiversity preservation and to serve as natural breakwaters
- Disaster Prevention Lessons, DRR awareness raising activity for school children/students
- Business Continuity Plan (BCP) Workshop for small to medium-sized Enterprises (SMEs) in collaboration with local governments and chambers of commerce
- Disseminating DRR materials “Rethink Now! Earthquake in the Foreseeable Future and Preparation for it” and “Easy, Understandable BCP Planning Sheet” to SMEs.

Tokio Marine & Nichido Fire Insurance Co., Ltd. (TMNF) is the core non-life insurance company in the Tokio Marine Group, a global insurance group which is headquartered in Tokyo, Japan and active in 38 countries and regions worldwide. TMNF was established in 1879 and as of March 2016 the net premium written stands at 2,128 billion Yen, with 17,148 employees.

Based on its corporate philosophy, TMNF continues to provide value to society and aims to be a “Good Company”, by contributing to a creation of safe, secure and sustainable society and building local communities’ trusts while closely communicating and collaborating with various stakeholders.



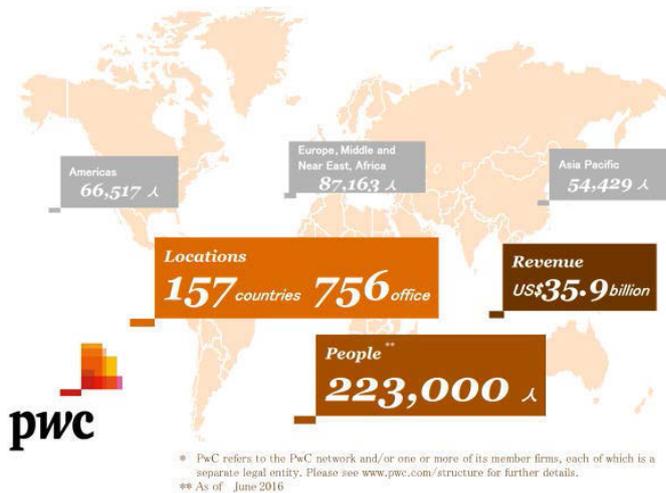
 Member Stats	
ARISE Themes	Insurance
Sector	Insurance and reinsurance
Employees	17,148 (as of March 2016)
Type	Private Sector Enterprise
Area served	Headquartered in Tokyo, Japan Japan network: 411 sales & marketing offices and 244 claims services offices Overseas network: 483 cities in 38 countries & regions
Website	http://www.tokiomarinehd.com/en/sustainability/



PricewaterhouseCoopers Aarata

PwC あらた有限責任監査法人

PwC's Global network



With offices in 157 countries and more than 223,000 people, we are among the leading professional services networks in the world. We help organisations and individuals create the value they're looking for, by delivering quality in assurance, tax and advisory services. In FY16, PwC firms provided services to 422 companies in the Fortune Global 500.

As a PwC member firm, PricewaterhouseCoopers Aarata LLC has adopted international best practices in accounting and auditing which fully conform to PwC methodologies. The firm

draws upon the accumulated experience, know-how and resources of the PwC global network, and provides domestic and international companies in Japan with high quality audit services that meet international standards. At the same time, PwC Aarata is committed to actively participating in the operation of the PwC global network.

Our purpose: To build trust in society and solve important problems

Our purpose – *'To build trust in society and solve important problems'* – is founded in our heritage of creating trust in the capital markets (by auditing financial accounts), and providing advice to help public, private and voluntary organisations be successful. Our aim is that while describing our work today, our purpose will also guide our decision-making and investment strategy for tomorrow, ensuring our ongoing relevance and leadership in the marketplace.

One example is our assurance services, through which we aim to increase the level of trust placed not just in company accounts but in all kinds of information, systems and processes. In the past two years, there's been nothing short of a revolution in audit reporting, and we're exploring how extended reporting requirement can provide additional insight into the performance of companies, over and above the financial accounts. We're also exploring new approaches to the measurement and assurance of non-financial information. And, we're developing ways to use technology to provide completely new levels of assurance and insight over huge data sets.

In parallel, our clients face global and local challenges arising from increasing volatility and change in our world and society. We've identified five key, long-term 'megatrends' that are shaping the future world of our clients and our business: climate change and resource scarcity; demographic and social change; rapid urbanization; a shift in global economic power; and technological advances.

We're investing in solutions to these important problems, and the 'collisions' between them. We continue to build our Sustainability and Climate Change practice, advancing natural capital accounting and international development, for example, and providing insight about the business implications of significant developments such as the Road to Paris (COP 21) and the Sustainable Development Goals. We've also expanded the capabilities of our Technology teams in key areas of cyber security, data analytics and digital business and have run a sustained campaign on the digital revolution (worldinbeta.com).

Moving forward, our purpose will continue to influence our interactions with our stakeholders, permeating our business strategy and investment choices. It will ensure our ongoing relevance as a pioneer, shaping the debate and driving change for positive economic, social and environmental impact.

Why we work with ARISE (or, how joining ARISE changed us)

The broader context

Colliding megatrends and disaster risk impacts

Colliding megatrends

PwC has identified five megatrends that are shaping and disrupting social, ecological and economic systems.

As global interdependencies continue to grow, the collisions between these megatrends are posing major challenges but also creating new opportunities globally and locally.

By analysing how the megatrends affect critical systems we will better understand the underlying drivers of disaster risks and more efficiently improve access to appropriate, actionable disaster risk information.

This will help businesses and organisations to make more risk-informed decisions and increase resilience.

We encourage businesses and governments to map the possible impact of these megatrends on their organisations.



Demographic and social change:

Explosive population growth in some areas against declines in others contributes to everything from shifts in economic power to resource scarcity to the changes in societal norms.



Shift in global economic power:

The focus of global growth has shifted. Western economic dominance is a relatively recent phenomenon, and the developments we see are essentially a rebalancing of the global economies.



Climate change and resource scarcity:

Scarcity of resources and the impact of climate change are of growing economic concern. By 2030, demand for energy is forecast to increase by as much as 50%, water by 40% and food by 35%.



Rapid urbanisation:

It is estimated that around the world, 180,000 people move to cities every day. By 2050, the world's urban population will have increased by some 72%.



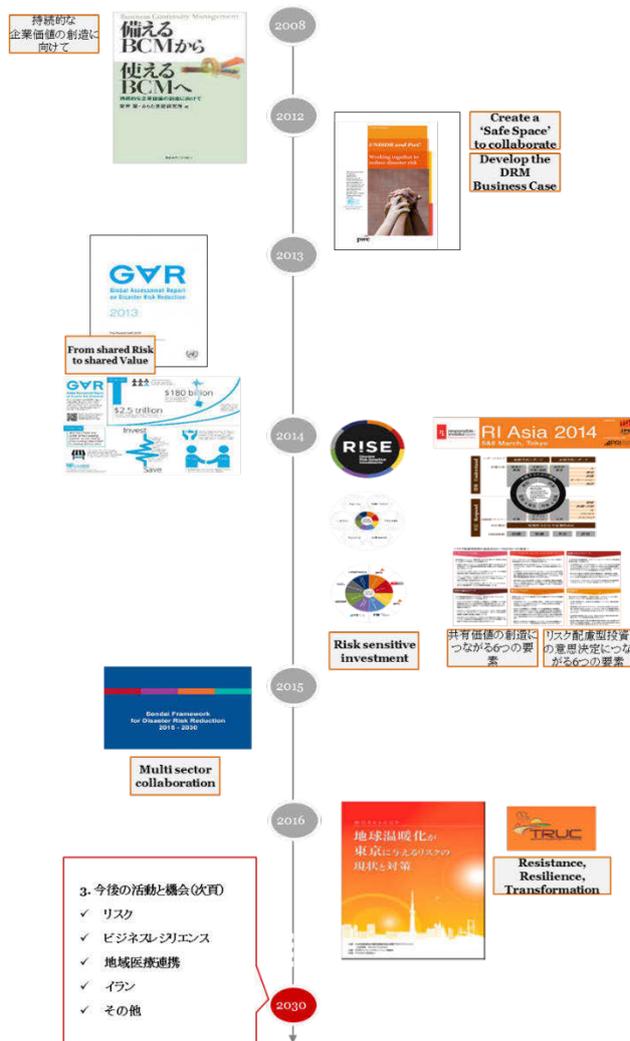
Technological breakthroughs:

Breakthroughs in nanotechnology and other frontiers of research and development are increasing productive potential and opening up new investment opportunities. The combination of the internet, mobile devices, data analytics, and cloud computing will continue to transform our world.

PwC and the ARISE initiative

PwC Aarata hosts ARISE Japan bi-monthly meetings, collaborating with more than 50 organizations and experts from diverse sectors to implement specific activities and projects to improve resilience.

Utilizing the results of research at the PwC Aarata Research Institute that began in 2008, we have conducted some demonstrations/presentations at various global and domestic events.



- PwC Aarata Research Institute: Research on Companies’ Business Continuance Management (2008-2013)
- PwC and UNISDR: Published *Working together to reduce disaster risk* (2012)
- RISE Japan Symposium: For Sustained Growth and Risk Resilience Enhancement - The Concept of Multi-sector Collaboration and Disaster Risk-Sensitive Investment (12th March, 2015)
- Bi-Monthly meeting (From 2014 RISE 2014 to arise 2015 till now)
- RI Asia 2014: The miss-pricing of risk. Strategic asset allocation in Asia and Japan. Introducing the Initiative for Risk Sensitive Investment (RISE). (2014)
- Case study of Japanese company’s risk resilient investment and creating shared-value (2014)
- Business Solution Matching and identification of challenges by utilizing Disaster Resilience Scorecard (2015)
- TRUC (Transformation and Resilience on Urban Coast), G8 Research Council Initiative global project (2016)
- Arise Japan collaboration committee symposium (held annually since 2016)

In November 2015, following the adoption of the Sendai Framework, UNISDR streamlined its engagement with the private sector to create the ARISE initiative. Oz Ozturk (Partner, PwC UK) co-chairs the ARISE Board working alongside UNISDR and several other global private sector businesses represented on the Board (photo).

Especially in Japan, we launched the ARISE Japan Collaboration Committee in March 11th, 2014 working co-actively with the Association of Resilience Japan whom works to implement “National Resilience Plan”.

The detailed activities are listed in following pages.



Service Lineups of PwC Aarata: Changing your perspective - What is resilience?

“Resilience is defined as the ability of an organization to protect against, or adapt to, short or long term change. In today’s business environment any organization lacking this ability is only likely to survive as a result of luck.” Marco Amitrano / Global Assurance Market Leader

Our point of view

In the last ten years, many entities went bankrupt because of the lack of risk oversight and insufficient crisis management systems. Risks that surround entities have also become greater and more complex as cross-border interdependence between organizations increases due to changes in supply chains, financial markets, the development of business skills, and the trade environment.

There are several risks that can obstruct business performance, not only in Japanese companies that aim for development in the growing Asia market, but also in many global companies. For instance, the massive increase of natural disasters related to climate change, the complexification of business environment with corporate acquisitions and reorganizations, the diversification of stake holders, the sudden change in demand and in business opportunities are some examples. Therefore in this context, the challenge in management is to maintain a resilient structure (swift and flexible response). In PwC Aarata, through our PwC Global Network, we gather all knowledge related to business resilience in various countries as a strategic and consistent framework, and offer a broad range of services that support companies to enhance their capacity of resilience.

Service lineups - How we can help

- Sophisticate risk management system
- Develop and enhance global group governance system
- Build and enhance Business Continuity Plan/ Management System (BCP/BCM)
- Enhance project governance
- Enhance risk culture/ organizational system

PwC Aarata’s service for BCP/BCMs-In building Business Continuity Plan/ Management (BCP/BCM)

The business environment, such as the frequent occurrences of disasters and incidents, progressing cooperation between companies, or the requirements of corporate social responsibility (CSR), is changing. In this context, an effective Business Continuity Management (BCM) can help to mitigate operational interruptions by maintaining a stable supply chain and providing a guidance of sufficient preliminary measures to the stakeholders.

In “Business Continuity Plan (BCP) and Business Continuity Management (BCM) service”, PwC Aarata offers a broad range of BCM services such as strategic identification of risks of operational interruptions, Business Impact Analysis (BIA), recovery strategy or Business Continuity Plan (BCP) design, and incident response.

For further information <http://www.pwc.com/jp/ja/assurance/strategic-risk-resilience.html>

arise Member Stats	
ARISE Themes	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="background-color: #f4a460; padding: 5px; text-align: center;">DRM Strategies</div> <div style="background-color: #9933cc; padding: 5px; text-align: center;">Benchmarking & Standards</div> <div style="background-color: #f4a460; padding: 5px; text-align: center;">Urban Risk Reduction & Resilience</div> <div style="background-color: #0056b3; color: white; padding: 5px; text-align: center;">ARISE Board Co-Chair (Oz Ozturk, PwC UK)</div> </div>
Sector	Professional, scientific & technical services (incl. consulting)
Employees	PwC Global: more than 223,000 employees in 157 countries PwC Aarata: 2,550 employees (as of Jun. 30th, 2016)
Type	Private Sector Enterprise
Area served	Headquarters: Tokyo, Japan (for PwC Japan) Offices in: 157countries, Projects in: 157 countries or more
Website	Global: https://www.pwc.com/ , Japan: http://www.pwc.com/jp/ja.html

4. ARISE-Network Japan: our way forward

ARISE Network Japan has, together with ARISE Philippines, led the way towards establishing a local presence of private sector DRR champions - ARISE companies - as partners for governments and other stakeholders in the implementation of the Sendai Framework. In 2016 and 2017, Colombia, Chile, Peru, and Canada were added to the list of ARISE networks and chapters, and the establishment of ARISE networks in Mongolia and India is underway.

As a local network in Japan, ARISE-Network Japan has found a way to serve the Japanese DRR community at large, by providing a neutral venue for dialogue and crosstalk between stakeholders, government agencies, and the private sector; becoming a connection point for various established and existing private sector groups pursuing DRR and resilience-related goals; driving private sector participation and involvement in the many DRR and resilience-related events, activities, and projects in Japan; and, in support of the UNISDR office in Japan, assisting awareness raising and being an entry point for businesses newly interested in DRR and UNISDR.

Of course, ARISE-Network Japan also serves its members by forming a community where ideas can be shared, partners can be found, and updates from different sectors and countries heard.

Going forward, we will work to increase ARISE membership in Japan, connect with an even wider range of stakeholder groups in Japan, and increase our contribution to the regional and global DRR conversation, bringing the efforts and best practices of the Japanese private sector in view through efforts such as this publication.



22-26 MAY, 2017 | CANCUN, MEXICO
2017 GLOBAL PLATFORM
FOR DISASTER RISK REDUCTION

FROM COMMITMENT TO ACTION

This publication will be released on the occasion of the 2017 Global Platform for Disaster Risk Reduction in Mexico, where curbing the rise of economic losses, and engagement of the private sector, will be in focus as key issues that must be discussed in this first Global Platform after the adoption of the Sendai Framework to successfully reach the goals of the Sendai Framework by 2030. We hope this volume contributes to give a clearer picture of us - your private sector partners - so that we can work better together.

To host country Mexico, UNISDR, and all participants of the 2017 Global Platform, we convey our best wishes for a fruitful discussion from our ARISE-Network Japan members.



ARISE Network Japan
ARISE-Network Japan secretariat & focal point



arise

PRIVATE SECTOR ALLIANCE FOR DISASTER RESILIENT SOCIETIES