



**WELCOME**



# International Council of the Aeronautical Sciences

11-12 September 2023

**Kyoto, Japan**

# Introduction

## Today's Presenter



### Yoichi (Joe) Tamura

Head of "Center of Excellence  
Japan Global Practice Group

*JGPG: Global services organization that responds to various risks  
of Japanese multi-national companies*

### WTW

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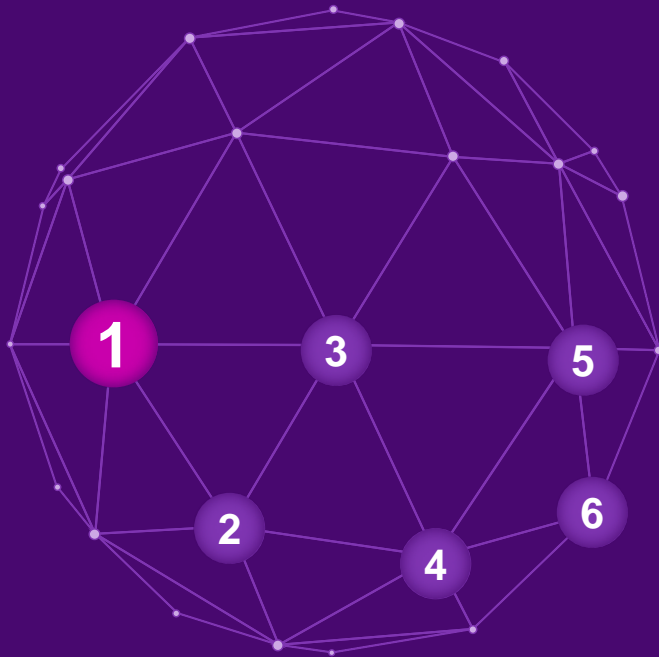
## Emerging Technology Forum

# Future Air Mobility Barriers and Enablers

- Joined WTW in June 2020
- 40 years in the industry including 34 years with Tokio Marine & Nichido (TMNF). 15 years cumulatively in London, Houston & Atlanta
- Domestic and international commercial lines
- 2012-2017 - TMNF Aerospace Dept
- 2014-2017 - VP, International Union of Aerospace Insurers



# About WTW



- 1 Overview
- 2 Business segments
- 3 Global Marine and Aviation Experience
- 4 TMT
- 5 Geographies
- 6 Values

## Overview



We have **46,000** employees  
Serving more than **140+**  
countries and markets



Revenue **\$8.9 billion**  
(2022)

## We work with



**449** of the Fortune  
Global **500**



**93** of the FTSE **100**

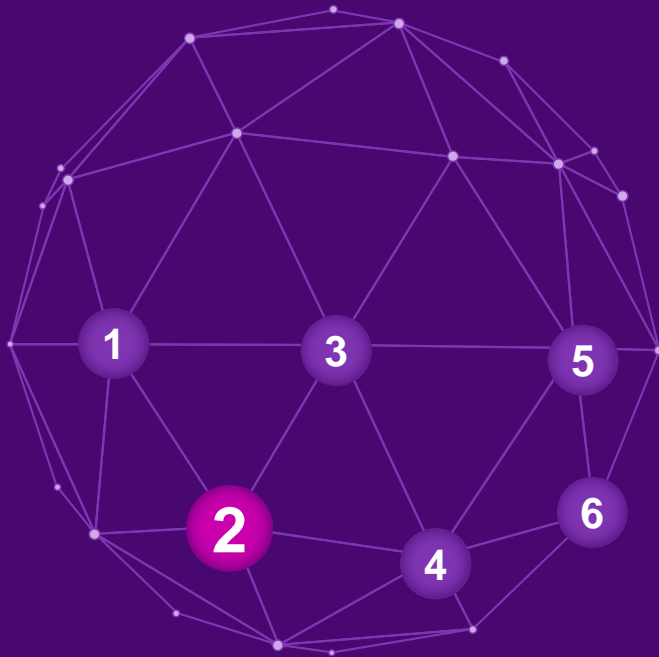


**89** of the U.S.  
Fortune **1000**

and thousands of non-Fortune-listed companies



# About WTW

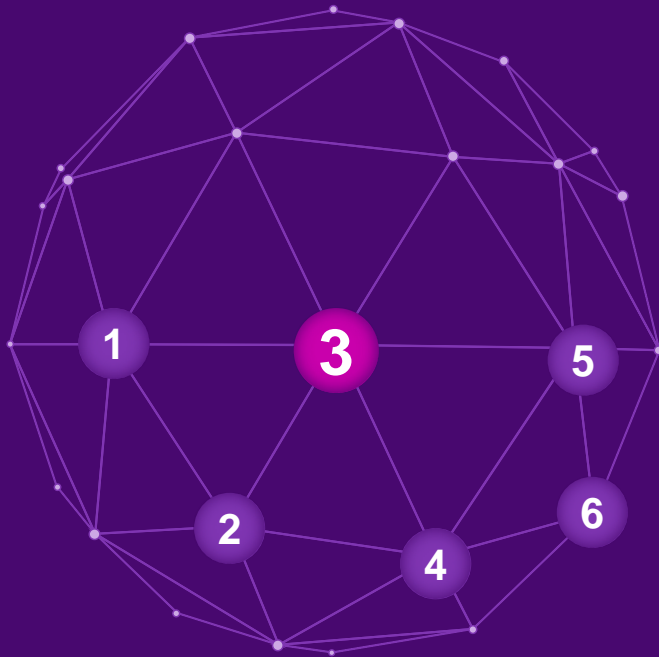


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## 2 Business Segments



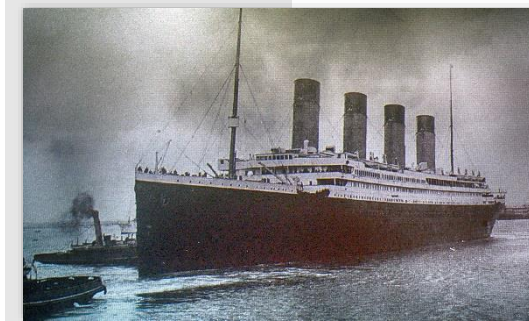
# About WTW



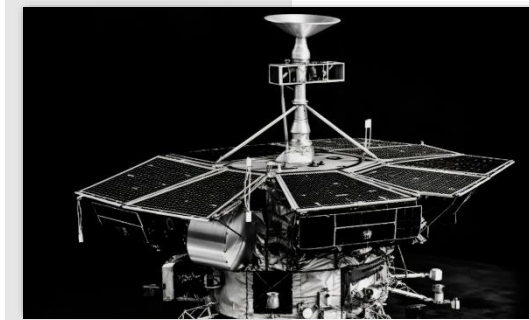
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## Global Marine and Aviation Experience

We've been putting **clients first** since 1828

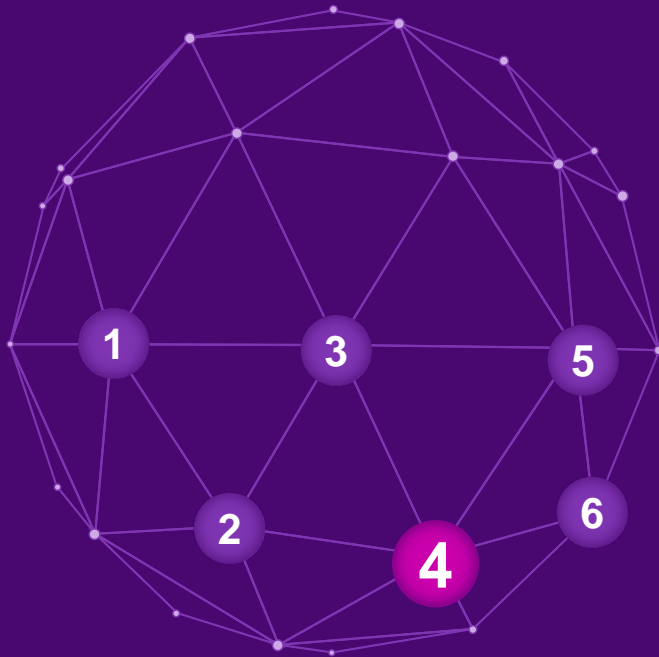


Brokered insurance for the maiden voyage of the Titanic in **1912**



Brokered insurance for the first satellite to the Moon in **1977**

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## Technology, Media & Telecommunications



7 Global centers of excellence

The convergence of technologies in the current generation have meant that innovation in a number of industries can be accelerated by the core technology building blocks of:-

### Computing Power

- AI/Machine learning
- Cloud
- Chip Design



### Connectivity

- 5G
- Cloud
- Edge



## What does this mean for Autonomy

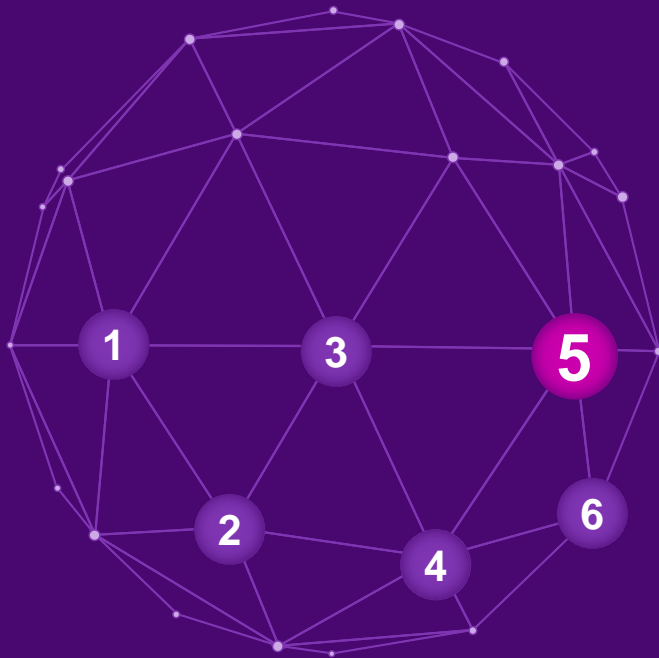
▶▶ Acceleration of Testing

📈 Increased data

🔍 Regulators Outpaced

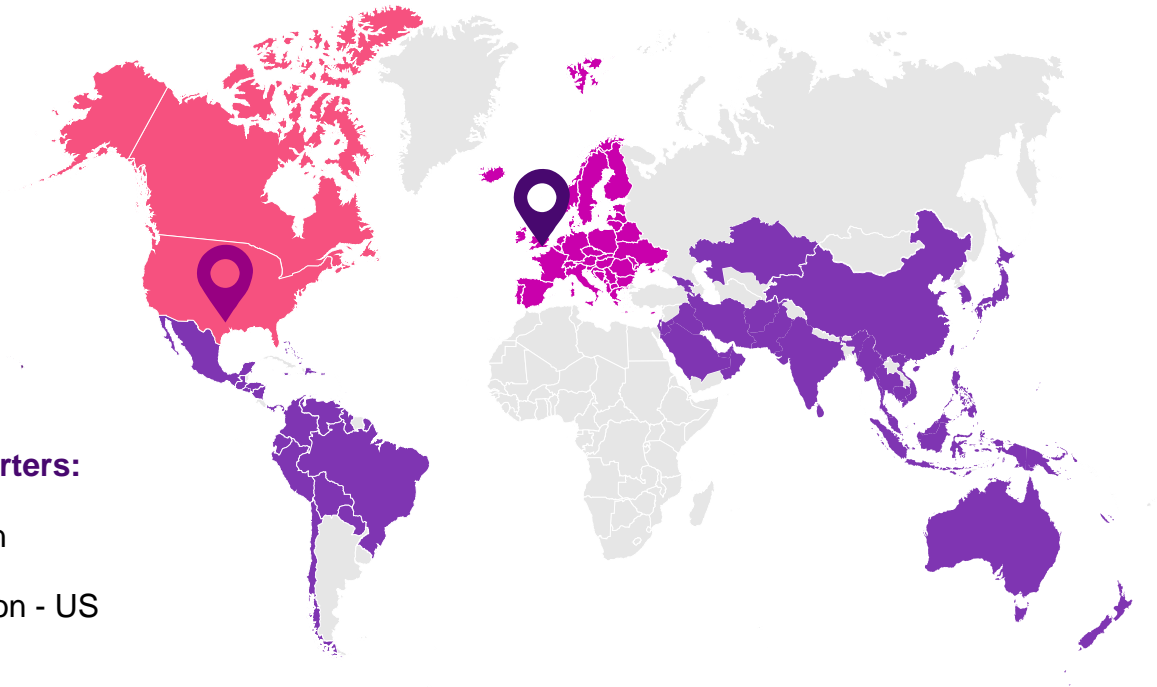


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## 3 Geographies



### Headquarters:

- London
- Arlington - US

North America

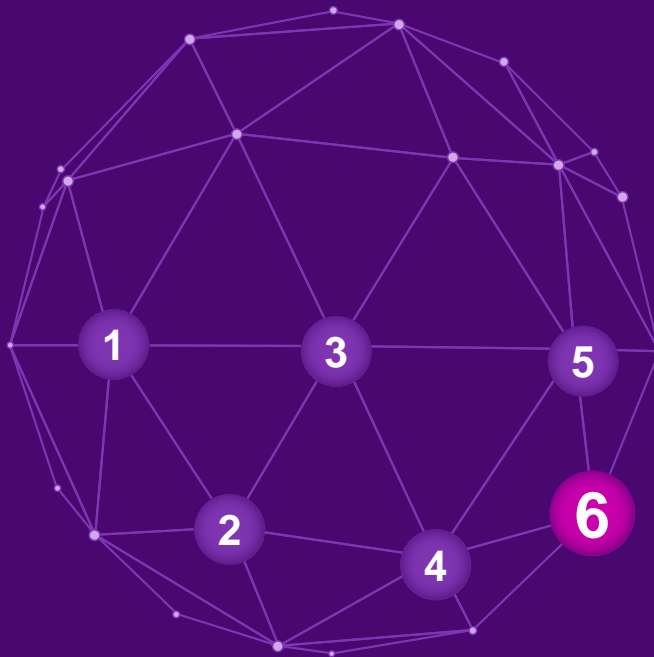
Europe

International



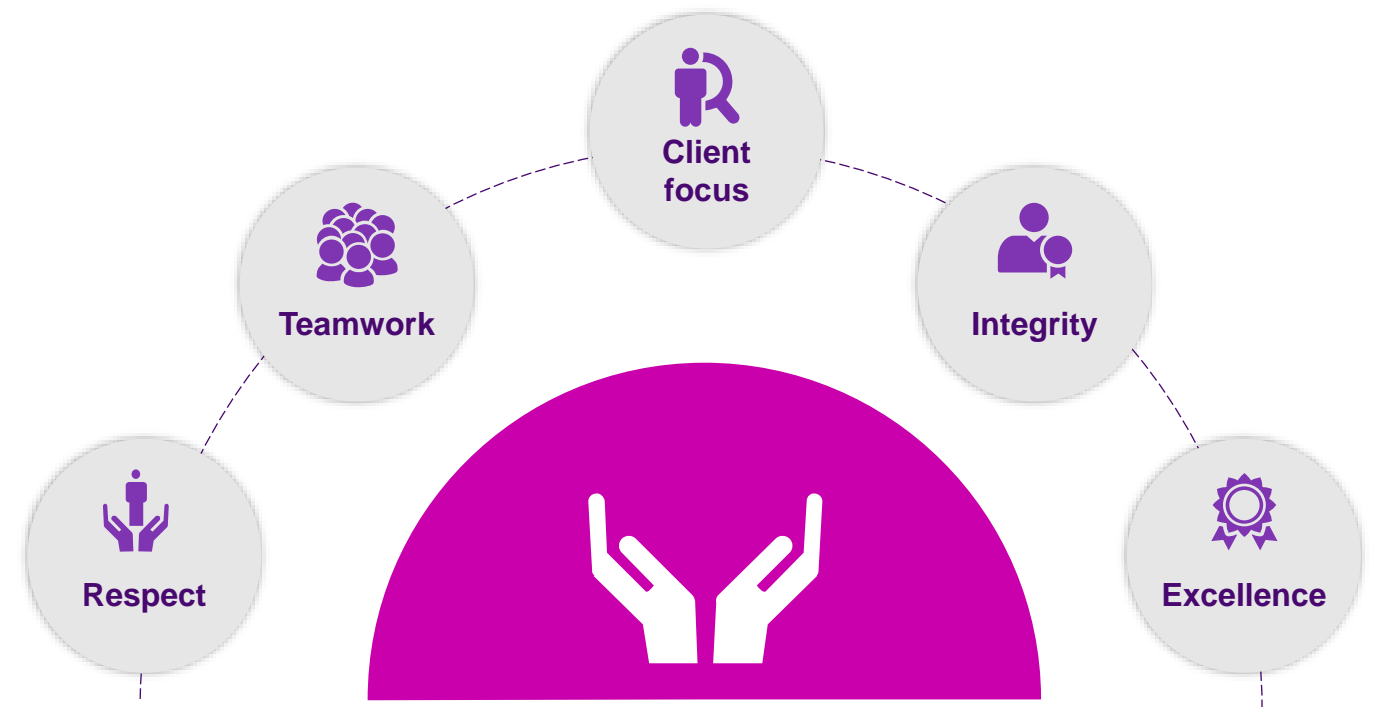


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## WTW values



# Highlights

## How we support our clients

We design and deliver solutions that manage risk, optimise benefits, cultivate talent, and expand the power of capital to protect and strengthen institutions and individuals.



# Highlights

## WTW in Japan

- Since merging in 2016, 4 independent corporations in Japan, run as a single comprehensive entity under “**One WTW**” umbrella
- Single Japan Country Manager

### Four organizations of WTW in Japan



- HQ - Chiyoda-ku, Tokyo
- 2 locations – Tokyo, Osaka
- Dedicated Account Lead Relationship Manager to service all lines of P&C business
- JGPG responding to global & local risks of multi-national Japanese companies
- Analytical and agile approach to solutions
- Accessible to all sectors of global expertise and lines of business



# Future Air Mobility / Barriers & Enablers

Understanding and Mitigating the Evolving Risk

## Breaking New Ground...



Ambition



R&D, experimentation



New frontiers



First movers

## Integrating your risks...

1

Define your risk tolerance

2

Areas of risk: Strategic, Safety and Security, Operational, Financial, Transitional

3

Align risk decisions with financial imperatives by establishing appetite and capacity for risk



# Future Air Mobility / Barriers & Enablers

## Understanding and Mitigating the Evolving Risk

### Properties of an industrial revolution...



### The complex web of interrelated risks...

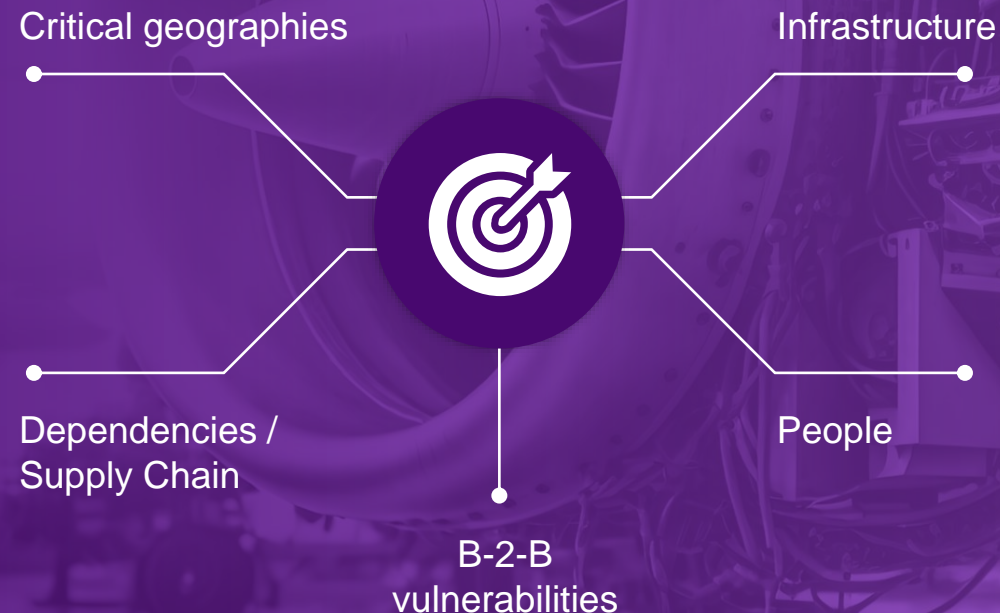
- Artificial Intelligence and machine learning
- Blockchain
- Robotics
- Automation
- Miniaturisation
- Digital printing
- Internet of things
- Biotechnology
- Mobile, sensors
- Companies as platforms, Deconstruction of work into activities, Talent on demand 'Uberisation'

# Future Air Mobility / Barriers & Enablers

## Understanding and Mitigating the Evolving Risk

### How do you *measure* risk?

#### Understand your Environment Challenges / Opportunities



### Company Operations

- Customised analytical solutions
- Optimised insurance design/purchasing
- Risk strategy supports corporate objectives
- Aligned insurance to risk exposures/budget/tolerances
- Support corporate governance/audit trail

### Financials

- Quantity/improve understanding of cost of risk/variability
- Connect risk decisions to financial performance
- Improve certainty in financial planning

# Future Air Mobility / Barriers & Enablers

## Understanding and Mitigating the Evolving Risk

### How do you *manage* risk?



Diversify portfolio



Host country business partnerships



Understand political dynamics



Crisis Management Protocols



Legal frameworks

### Risk Transfer/Insurance Solutions

- Transfer risks which can not be mitigated elsewhere

### Captives

- Absorb risk management into your own insurance structure

### Parametric Solutions

- Develop measurable key metrics risk index to manage risks



# Future Air Mobility / Barriers & Enablers

How Corporate Risk and Insurance Broking can *help*

- Realise threat / opportunity
- Market-leading analytics
- Thought-leadership / shared learnings
- Consultancy
- Risk Strategy Review
- Insurance Market Capacity



**Risk**



**Opportunity**

## Examples of Insurance Covers

- Political & Trade Credit
- Aviation & Space
- Property
- Mergers & Acquisitions
- Cyber
- D&O
- Crime
- Construction
- Reputation
- Natural Resources
- Product Recall
- Environmental



**Decision support**





# Future Air Mobility / Barriers & Enablers

How Corporate Risk and Insurance Broking can *help*



**Build the Intelligence**



**Understand the transitional risks**

Transitional Risks: Largest challenge for the board



**Know your dependencies**

**Insurance Broker**



**Insurance Cover**

**Business Protection**



# THANK YOU



# QUESTIONS?



# Japan

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