

Introduction to **Group 7**

How Can Space Technology Contribute to
Improving the Accuracy of Prediction for Natural
Disasters?

Moderator: Quentin Verspieren, The University of Tokyo



November 30, 2019
the 7th UNISEC Global Meeting

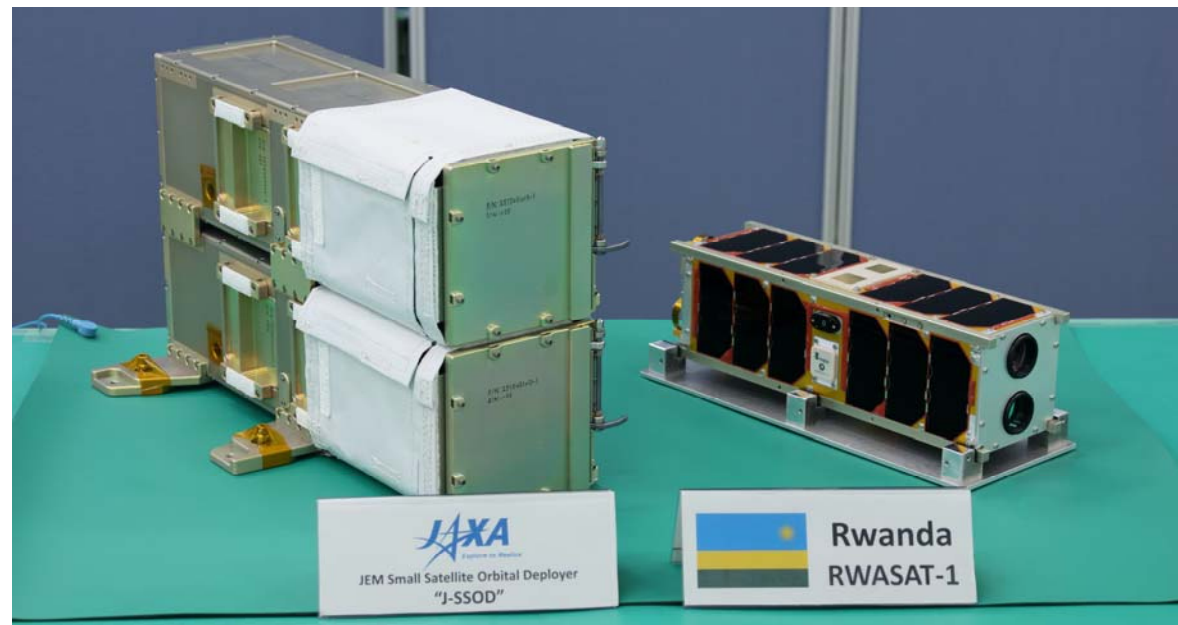
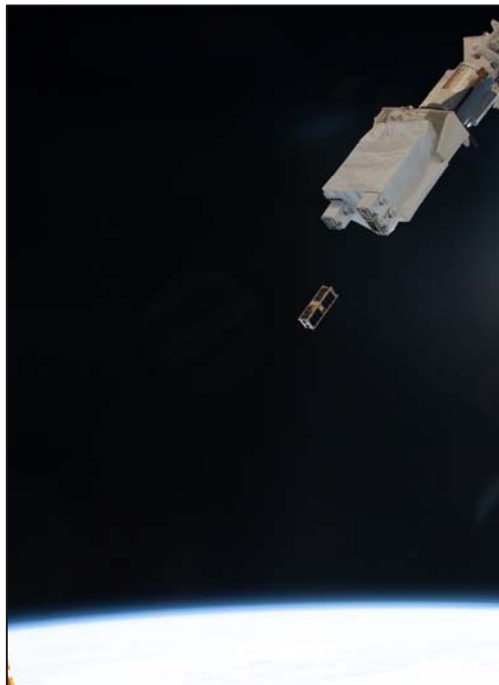
Personal introduction – Quentin Verspieren

- ❑ **PhD Candidate, Graduate School of Public Policy**
- ❑ **Researcher, Intelligent Space Systems Laboratory**
- ❑ Consultant for government, NGOs and private sector



東京大学
THE UNIVERSITY
OF TOKYO

Expertise: Space policy in developing countries; Space Traffic Management & Space Situational Awareness; Small satellites (astrodynamics); Space security, military uses of space



Group discussion topic introduction

Consequences of disasters in Asia-Pacific

Human impact of 1,625 disasters in Asia and the Pacific, total 2005-2014		
Disaster type	Lives lost	People affected (millions)
Earthquakes and Tsunamis	199,418	74
Storms	166,762	321
Floods	43,800	771
Others	73,772	199
Total	483,752	1,366

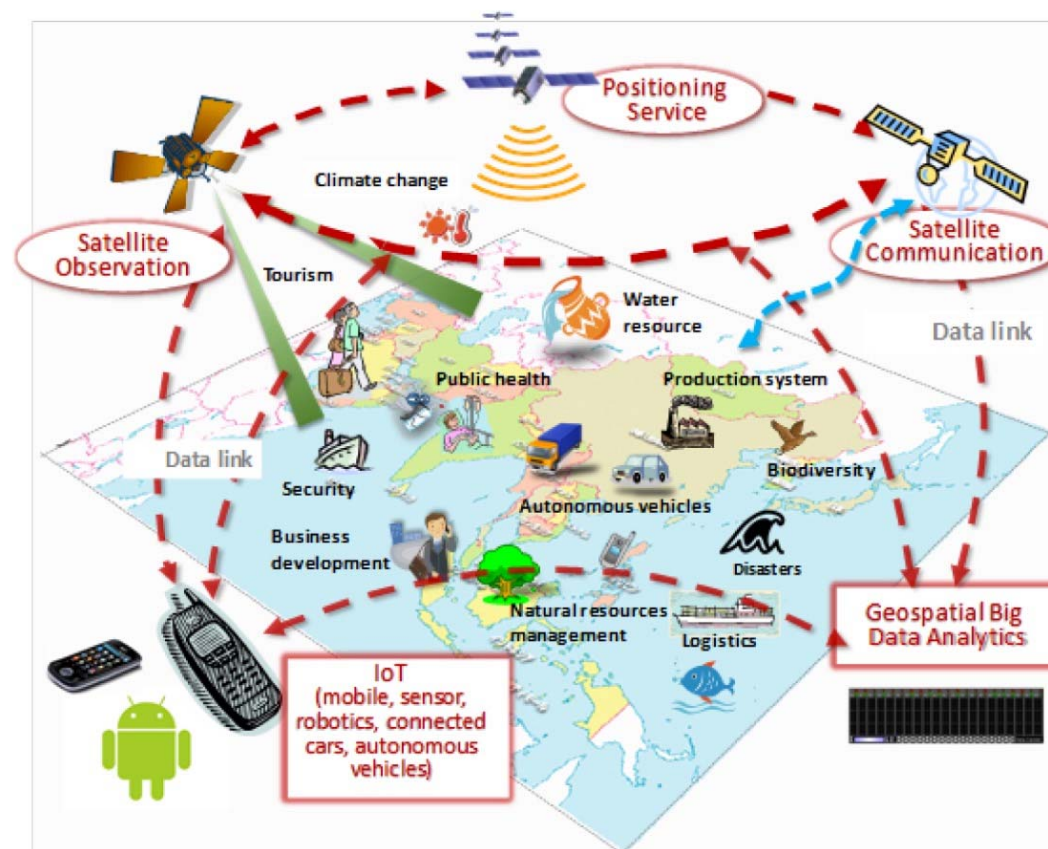
Direct economic damages
worth **US\$523 billions!**

Source: UNESCAP Disaster Report 2015

Group discussion topic introduction

How Can Space Technology Contribute to Improving the Accuracy of Prediction for Natural Disasters?

Experts for natural disaster prediction such as drought, flood, and earthquake are invited to make a short presentation on the mechanism of prediction and possible ways to improve the accuracy for mitigation of the disasters. Also, experts of micro/nano satellites and companies that provide satellite data (SAR and optical) are invited to explain what they can provide to tackle mitigation o



Group discussion schedule

- ❑ Self introduction

- ❑ Experts' presentations on natural disaster prediction
 - Yohei Sawada: Drought prediction
 - Kei Yoshimura: Flood prediction
 - Masahi Kamogawa: Earthquake prediction

- ❑ Inputs from companies – How can their technology help to mitigate natural disasters?
 - Shiori Kimura, Synspective
 - Alice Pellegrino, Canon Electronic, Inc.

- ❑ Inputs from small satellite expert
 - Shinichi Nakasuka