

**Promoting the use of space-based  
applications in disaster-risk reduction,  
climate change and sustainable  
development**

United Nations Office for Outer Space Affairs  
United Nations Office at Vienna  
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## **Three post-2015 development processes**

- **Disaster-risk reduction - Sendai, Japan,  
March 2015**
  - **Sustainable Development Goals – New York,  
Sept. 2015**
  - **Climate Change – Paris,  
Dec. 2015**
- .... three frameworks, some of them including targets, inter-related**



# 1. Post-2015 framework for disaster risk reduction

As of 28/01/2015

## *Priority 1: Understanding disaster risk*

### National and local levels

- 22(f) Promote real-time access to reliable data, **make use of space and in situ information, including GIS**, and use information and communications technology innovations to enhance measurement tools, collection, analysis and dissemination of data;

### Global and regional levels

- 23(c) Promote and enhance, through international cooperation and technology transfer [...] access to, and the sharing and use of, [...] data, information, [...] communication and **geospatial and space-based technologies and related services. Maintain and strengthen in situ and remotely-sensed earth and climate observations. [...]**;



# Post-2015 framework for disaster risk reduction - voluntary commitments

## Global and regional levels: proposed ways forward

- Proposed partnership involving international, regional and national organizations from the disaster-risk reduction and space communities as a way to facilitate the use of space-based applications, including Earth observation.
- Proposed partnership involving international, regional and national organizations as a way to improve Early Warning Systems worldwide, including through the use of space-based applications and Earth observation.



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**ESCAP**  
Economic and Social Commission for Asia and the Pacific



**GFDRR**  
Global Facility for Disaster Reduction and Recovery



Deutsches Zentrum  
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German Aerospace Center



## ICIMOD



MEXT  
MINISTRY OF EDUCATION,  
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SCIENCE AND TECHNOLOGY-JAPAN



Disaster Management Centre



## Climate change - COP 21 in Paris, France

**Efforts to promote the use of space-based applications in:**

- **Essential climate variables (ECVs), work already advanced**
- **Mitigation, work already advanced**
- **Adaptation, in process**
- **Loss and Damage, in process**
  
- **And to contribute to monitor the implementation of the new framework to be launched in Paris.**



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## **Sustainable development - New York, Sept. 2015**

**Efforts to promote the use of space-based applications to:**

- **Monitor the environment (land, oceans);**
- **Development in urban / rural areas**
- **Applications in agriculture, ecosystems, etc**



## United Nations/Germany International Conference: Earth observation – Global solutions for the challenges of sustainable development in societies at risk

Bonn, Germany, 26 to 28 May 2015

- To **bring together** space leaders and Earth observation experts and decision makers and stakeholders involved in sustainable development, climate change and disaster risk reduction.
- To outline how Earth observation solutions **should be employed to address sustainable development** in societies at risk that must face the challenges of climate change.
- To showcase existing solutions, to identify emerging trends that need to be addressed, and **to facilitate collaboration and synergies** among stakeholders involved in these efforts.



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**Thank You**

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