

Cooperation of  
institutions in  
reformulated  
disaster  
protection legal  
environment



2017.10.25

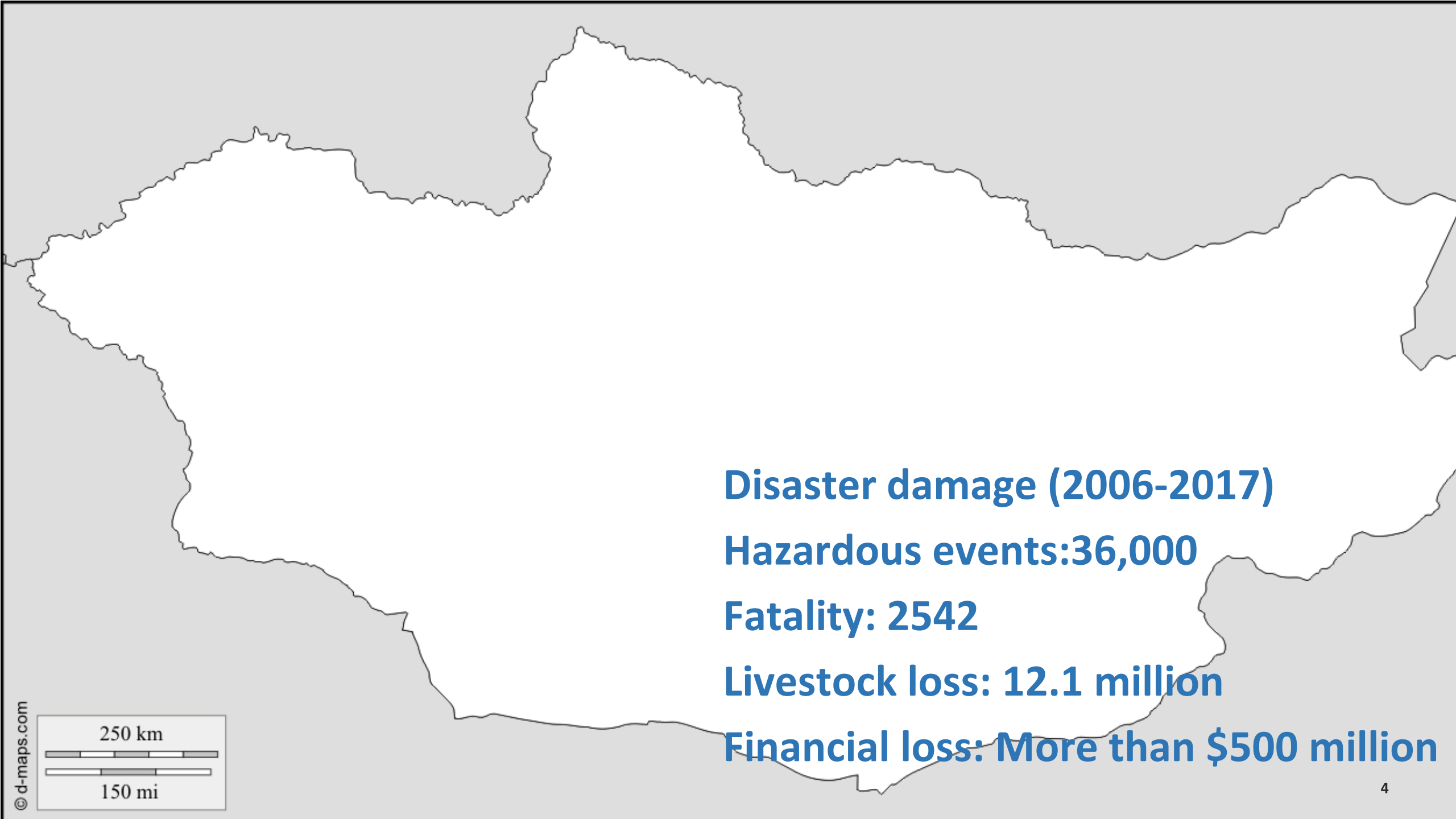
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# Contents

- Existing legal regulation of Mongolian Disaster protection sector
- Cooperation of institutions
- Space technology in Mongolian disaster protection sector

# Disaster Profile

Classification	Type	Disasters
<p>Natural Disasters</p> 	<p>Climatic hazardous phenomena</p>	Snow storm
		Severe snowfall
		Dzud
		Dust storm
		Flood
		Steppe and forest fire
		Desertification
	<p>Geological threats</p>	Thunderstorm
		Earthquake
		Landslides
<p>Biological threats</p>	Spread of detrimental rodents	
	Human infectious diseases	
	Livestock or animal infectious diseases	
<p>Manmade Disasters</p> 	<p>Technological accidents</p>	Industrial accidents
		Traffic accidents
		Leakage of chemical and radiological substances
		Explosion
		Building fire



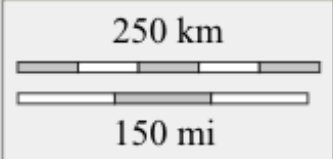
**Disaster damage (2006-2017)**

**Hazardous events: 36,000**

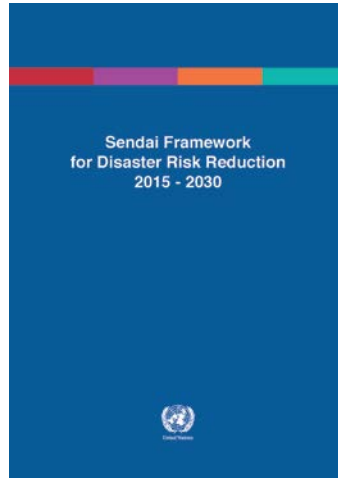
**Fatality: 2542**

**Livestock loss: 12.1 million**

**Financial loss: More than \$500 million**



# Key documents approved in 2015



Sendai framework for disaster risk reduction  
Sendai 2015



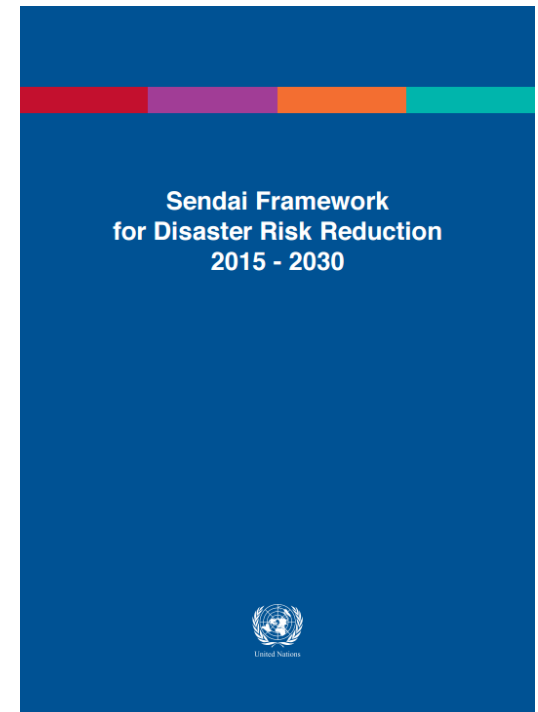
Paris climate agreement  
Paris 2015



Sustainable development goals 2030  
New-York 2015

# Reformulation of policy environment

- Amendment of fire safety law /2015/
- Amendment of disaster protection law /2017/
- State policy and programme on disaster protection /2011/
- Community participatory disaster risk reduction programme /2015/
- Strategy for implementation of Sendai framework of disaster risk reduction /pending/



Amendment of Disaster  
Protection Law of  
Mongolia (02.02.2017)



## Pre-disaster activities:

- Development of disaster protection plan
- Disaster risk reduction
- Ensure readiness
- Control and monitoring of disaster protection
- Conduct training and advocacy
- Create disaster information database

## Disaster emergency operation:

- Set up disaster communication and early warning system
- Set up restriction zones of disaster site
- Implement search and rescue operation
- Mobilize man power and relocate
- Disaster response operations

## Recovery operation:

- Rehabilitate social structures and services
- Recovery of infrastructure





# Policy arrangement for use of 'Space' information usage

1

All forms of communication network can be used to gather or disseminate disaster related information from/to public or private entities, international organizations and other countries

2

Disaster information dissemination's fee is waived

3

Establishment of Geographic information system (GIS) based disaster database is mandated by disaster protection law.

# Remote sensing cooperation in disaster risk reduction

## International

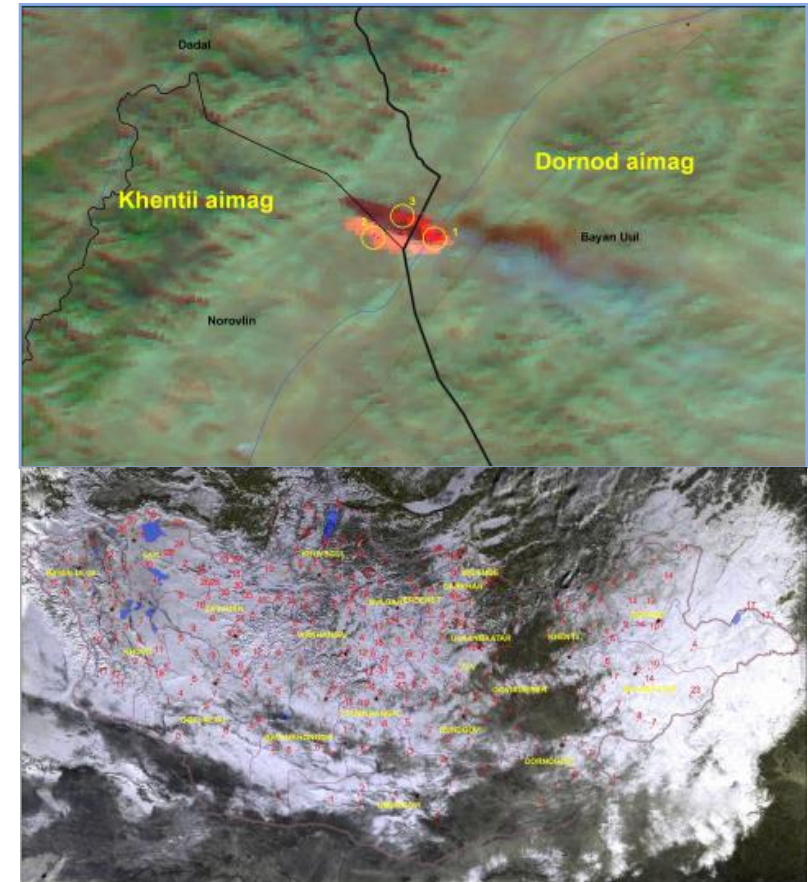
- Japan's Aerospace Research Agency
- Asia-Pacific Space Cooperation Organization
- Airbus

## Domestic

- Agency for land administration and management, geodesy and cartography
- Mongolian academy of sciences, Institute of geology and geoecology
- Institute of astronomy and geophysics
- Mongolian association of remote sensing
- National university of Mongolia
- Mongolian university of life sciences

# Satellite data usage in disaster risk reduction and disaster emergency response

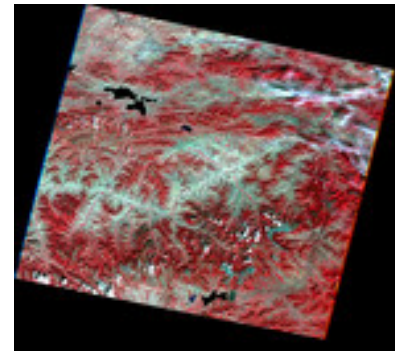
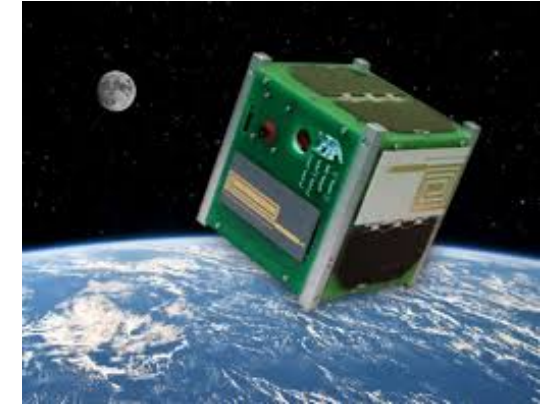
1. First Mongolian satellite launched into space in June of 2017. Core purpose of the satellite launch is to support DRR operation
2. NEMA is using image from ASTER, EOA, SRTM satellites for various disaster research purposes.
3. Satellite images are providing information for the following hazardous events and disasters.
  - Drought
  - Dust
  - Steppe and forest fire
  - Snow level
  - Vegetation



# Satellite data usage in disaster risk reduction and disaster emergency response

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- Geographic information system (GIS) based disaster database is developed with Japanese International cooperation agency
- NEMA is using image from ASTER, EOA, SRTM satellites for various disaster research purposes.
- Emergency management department of 21 provinces are connected to 4 regional emergency operation centers covering Mongolian territory
- Emergency operation centers integrate emergency management services, police and ambulance services
- The system uses second generation cellular technology to disseminate early warning messages to general population instantly upon disaster.



# Thank you for your attention!



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