

Consideration for Effective Use of Space-based Information for Emergency Response

**Dr. Shirish Ravan, Head, UN-SPIDER Beijing
Office**

(Round table meetings on innovations in technologies for disaster
rescue efforts amongst ASEM countries, New Delhi 4-5 December 2014)

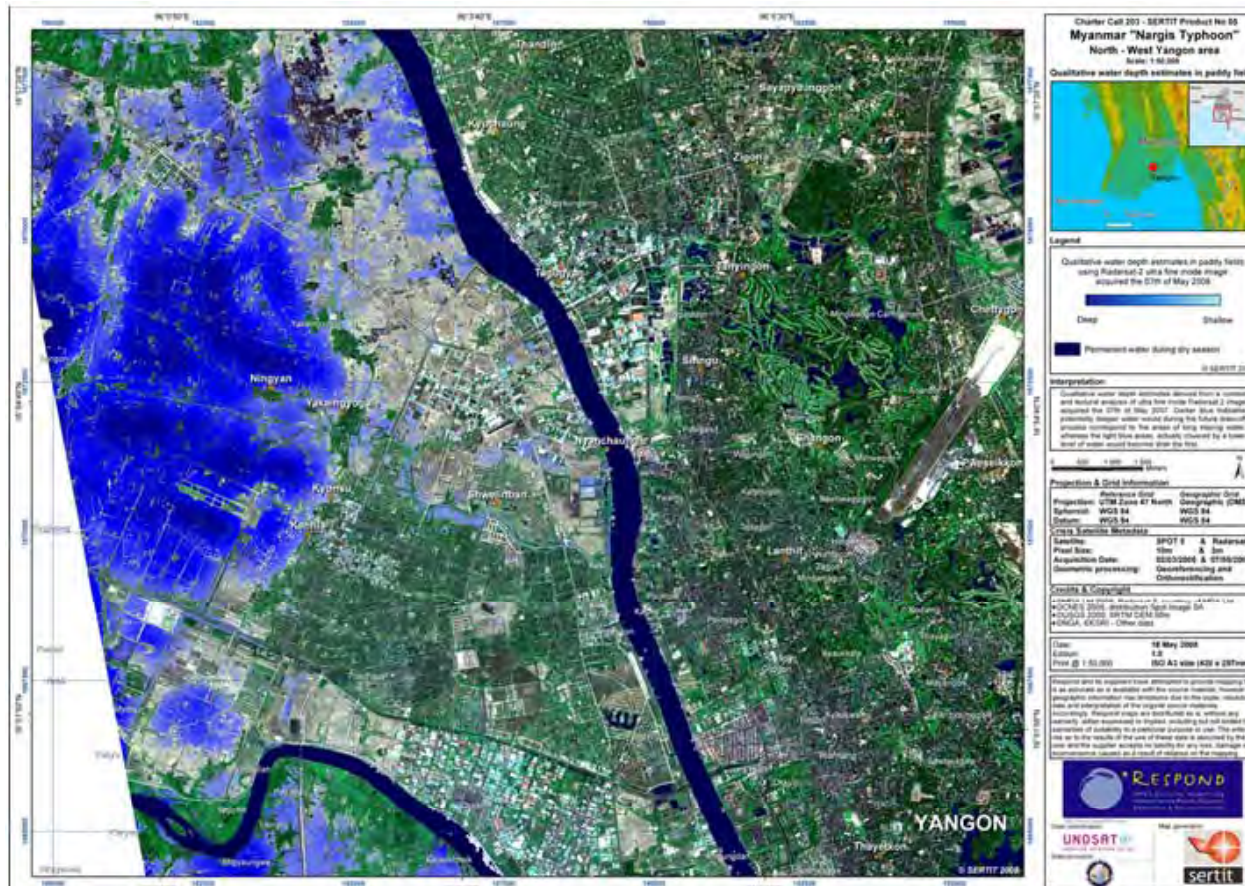


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Cyclone Nargis 3 May 2008



UNOOSA (UN-SPIDER) activated International Charter on behalf of UN OCHA. Several map products were generated to respond to emergency,



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Myanmar 2013 - UN-SPIDER Technical Advisory Mission



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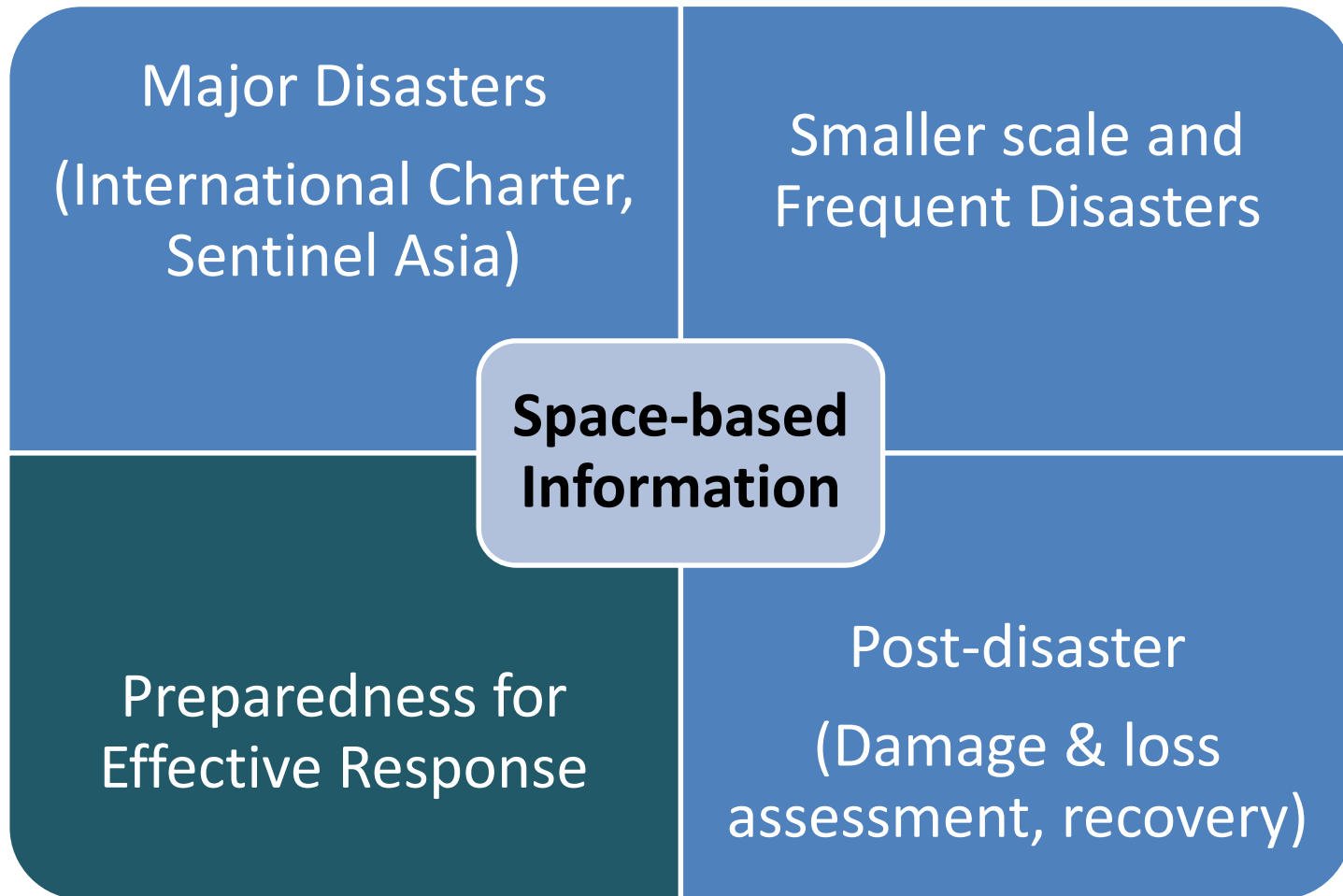
**Yogyakarta, Indonesia
15-16 April 2014**



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Preparedness for effective response

Investment Priorities

Tools/Supplies/Infrastructure

vis-à-vis

Information



The Value of Geoinformation
for Disaster and Risk Management
(VALID)
Benefit Analysis and Stakeholder Assessment



International Council
for Science - GeoUnion

Joint Board of Geospatial
Information Societies

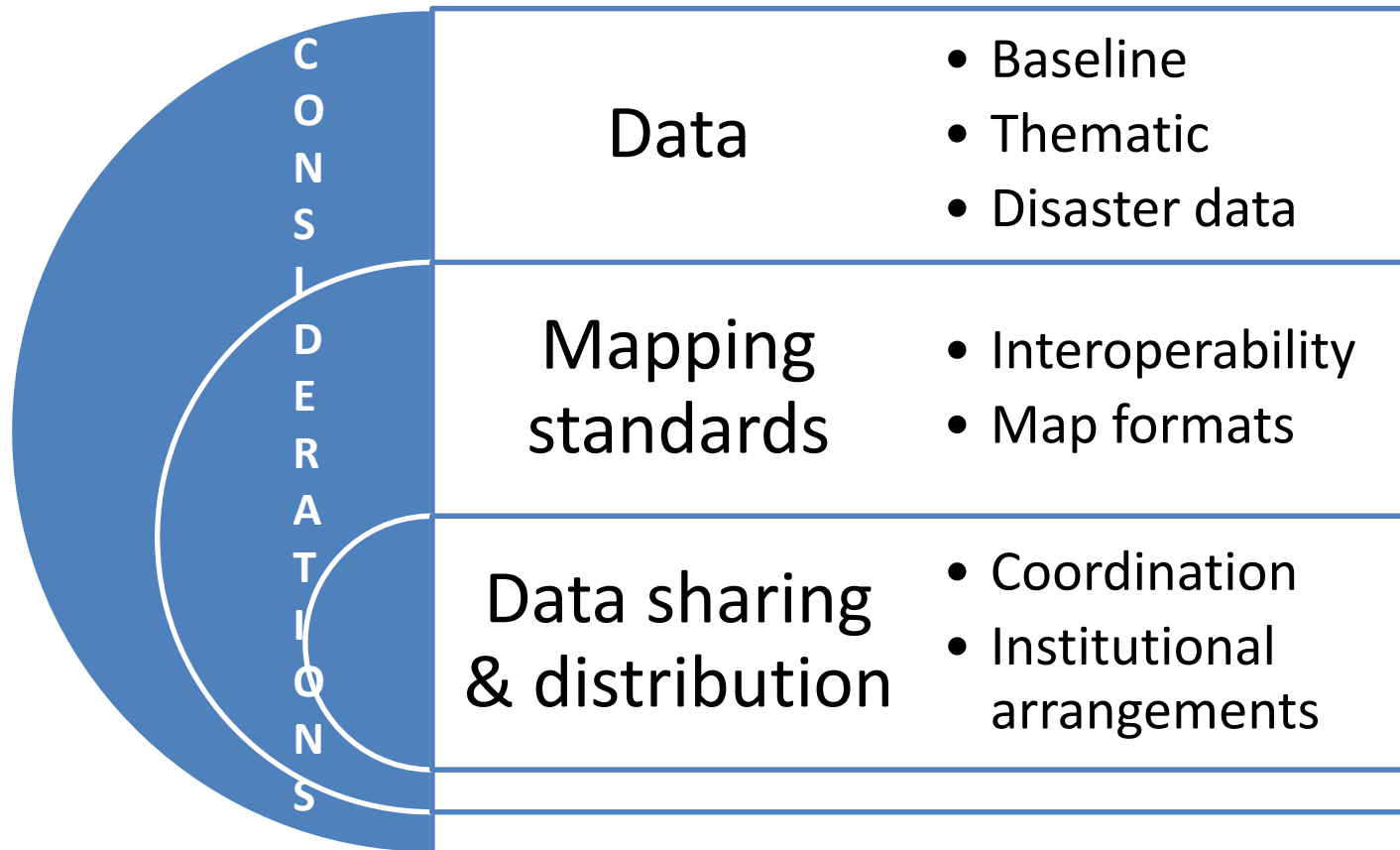
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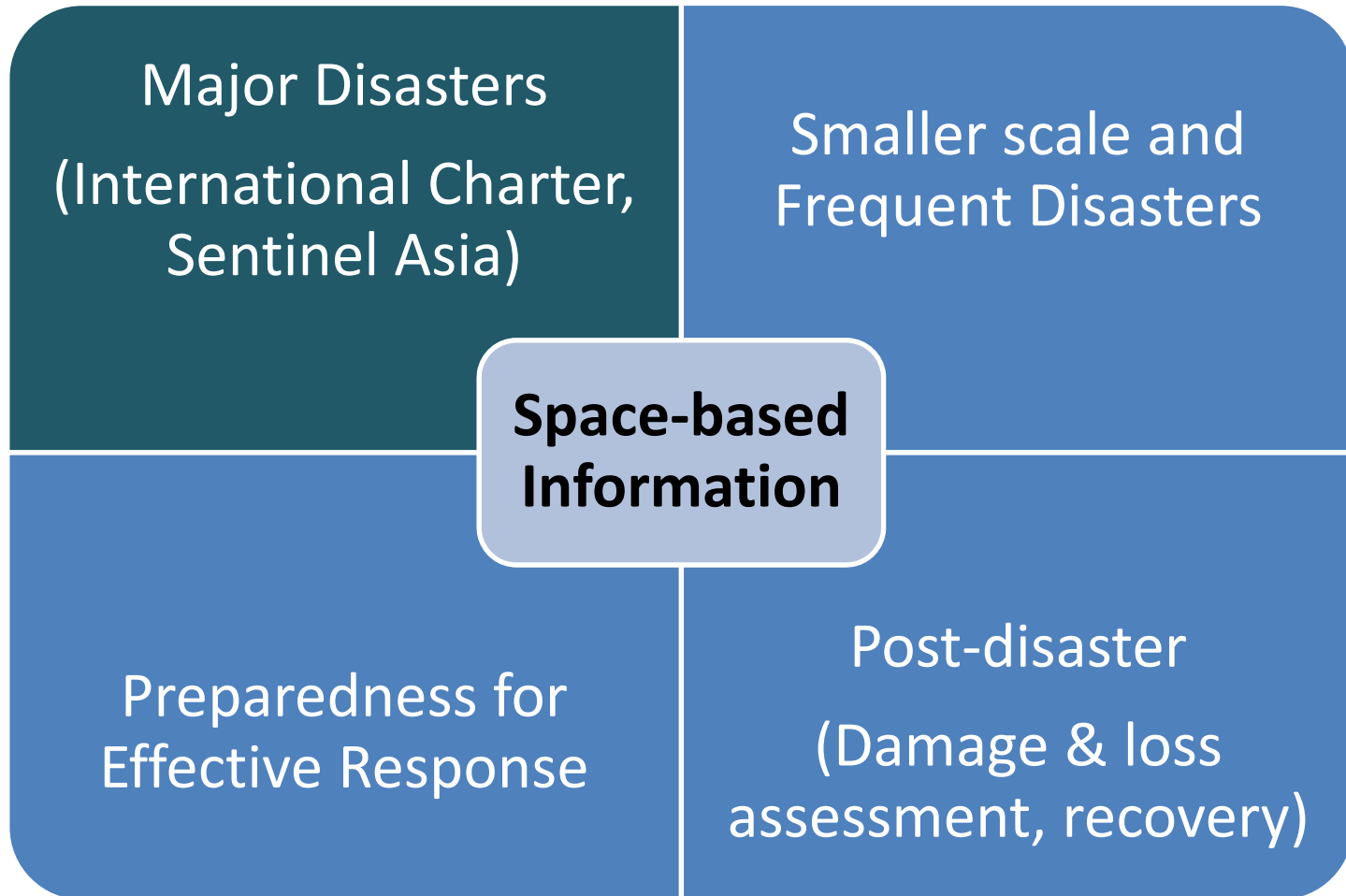


Preparedness for effective response





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Major disasters and International Mechanisms

- International Charter Space and Major Disasters



- Sentinel Asia



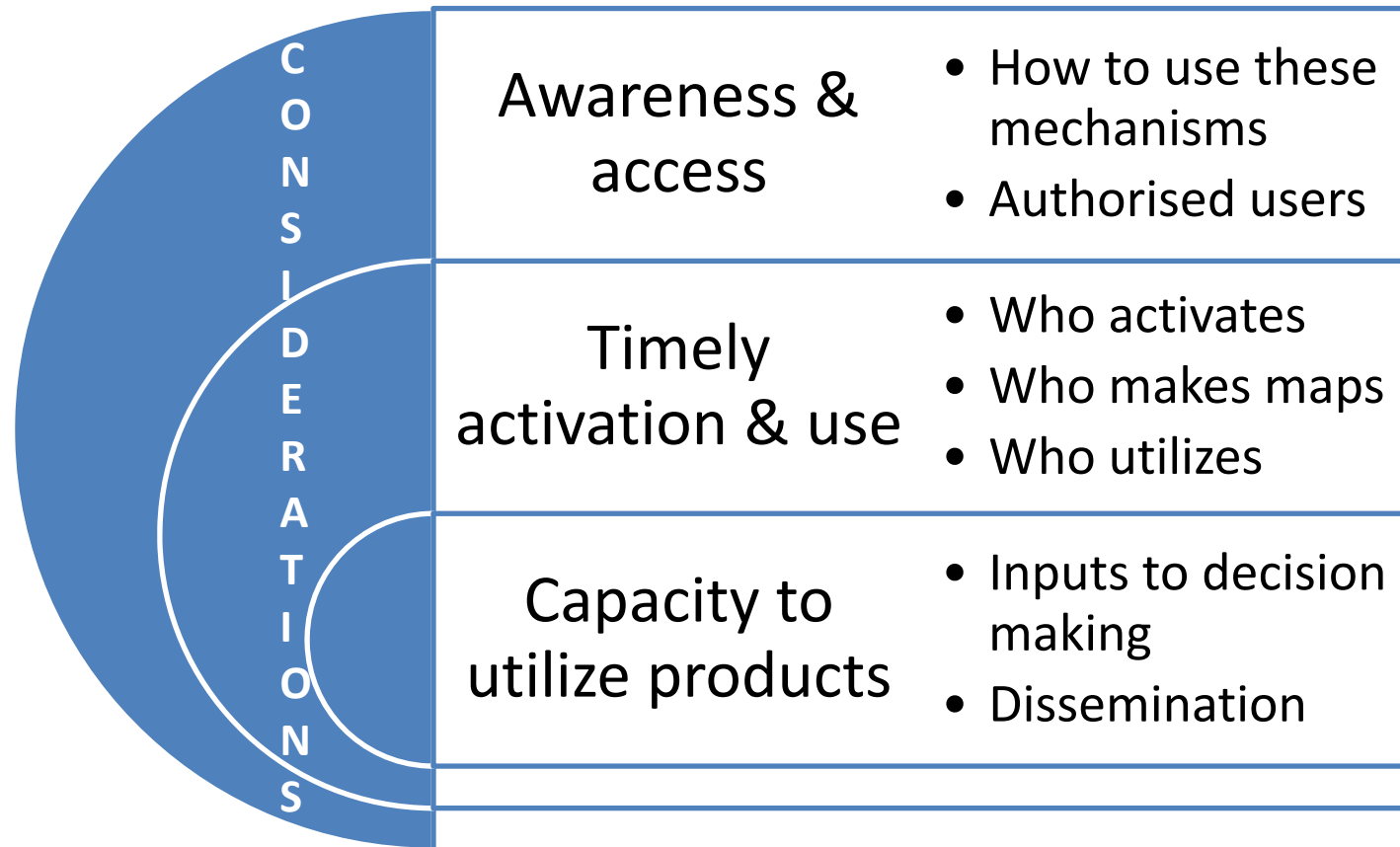
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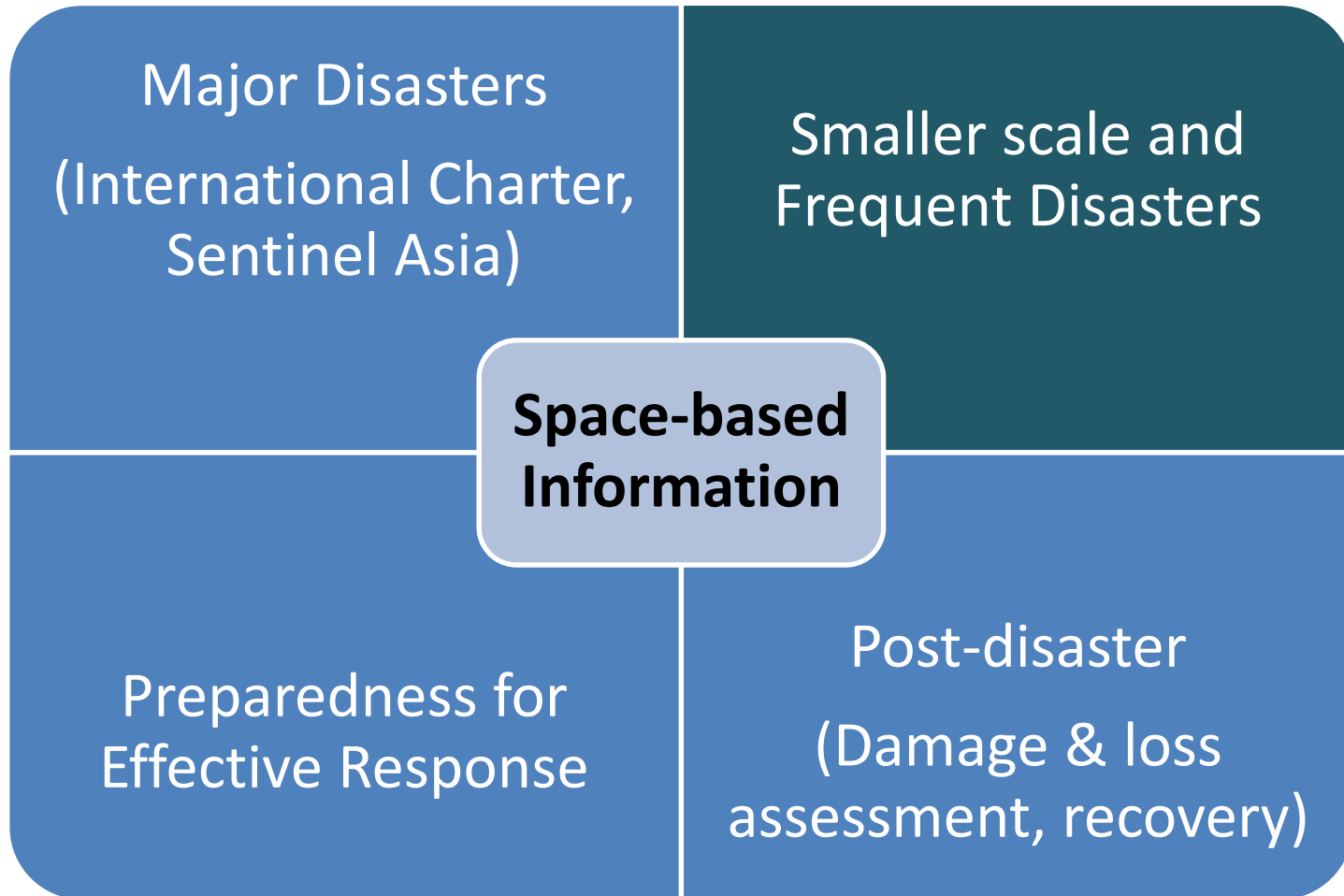


Major disasters and International Mechanisms





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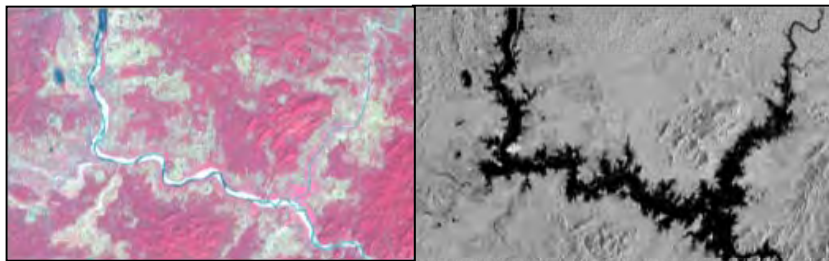
Smaller scale & frequent disasters

Charter activation (2002 to 2014)

- Indonesia - 15 times
- Myanmar - 6 times
- Vietnam - 14 times
- Philippines – 16 times



But how many disasters these countries might have faced in 12 years?



Pre-Flood

During-Flood





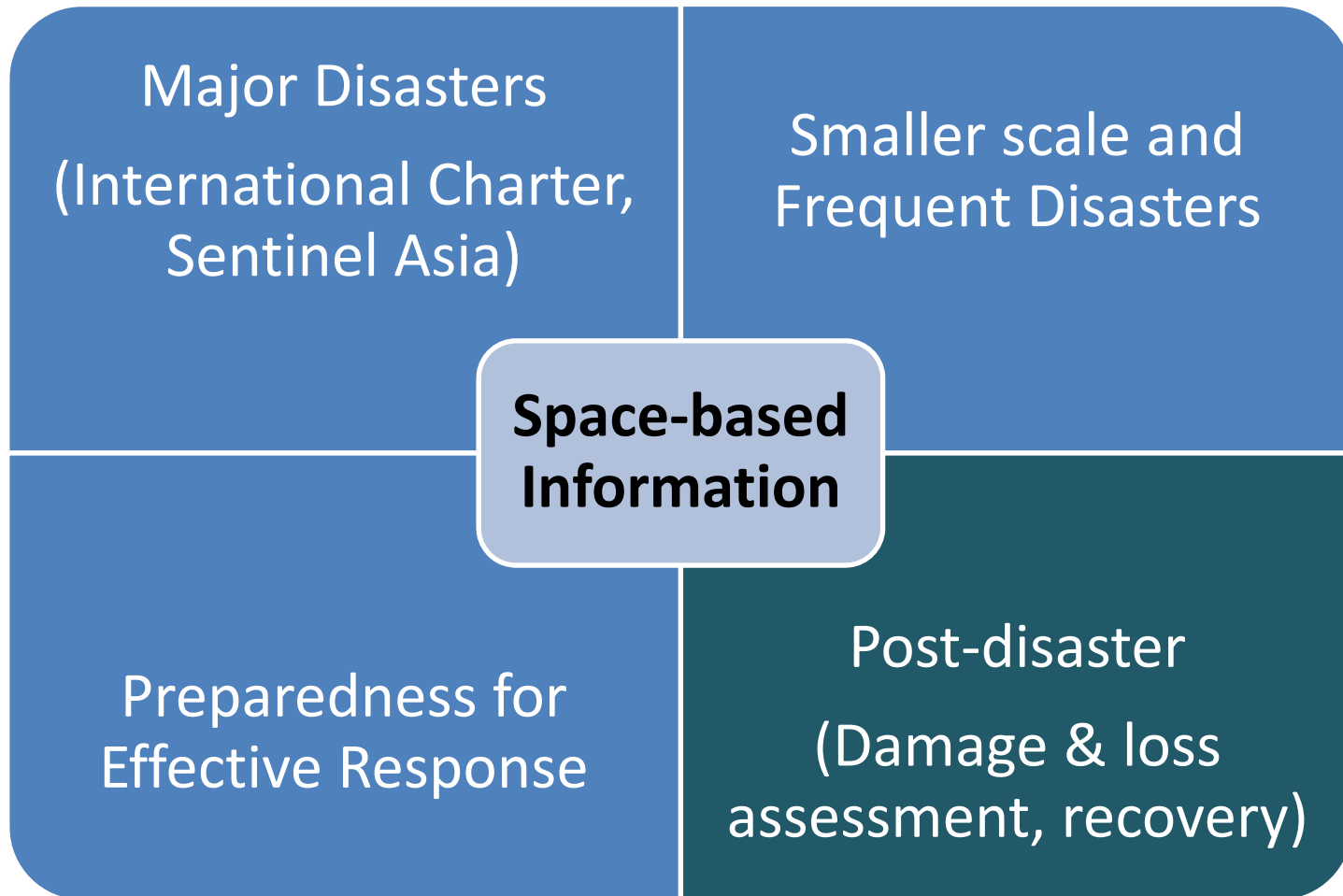
Smaller scale & frequent disasters

C O N S I D E R A T I O N S	Access to satellite images	<ul style="list-style-type: none">• Budget• Regional/bilateral cooperation
	Emergency mapping capacity	<ul style="list-style-type: none">• Who makes maps• Who utilizes
	Standard Operating Procedures	<ul style="list-style-type: none">• Data sharing• Flow of information



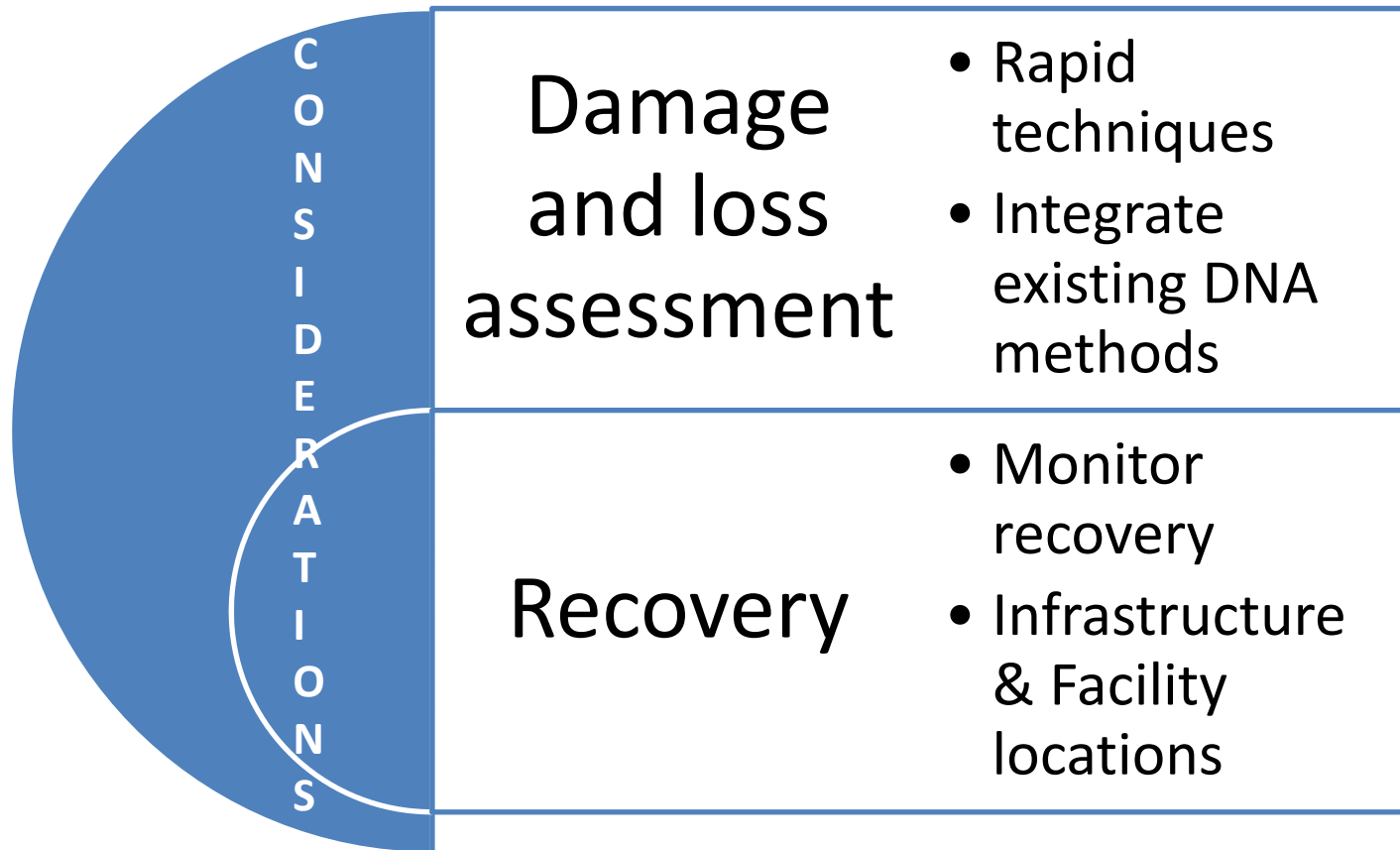


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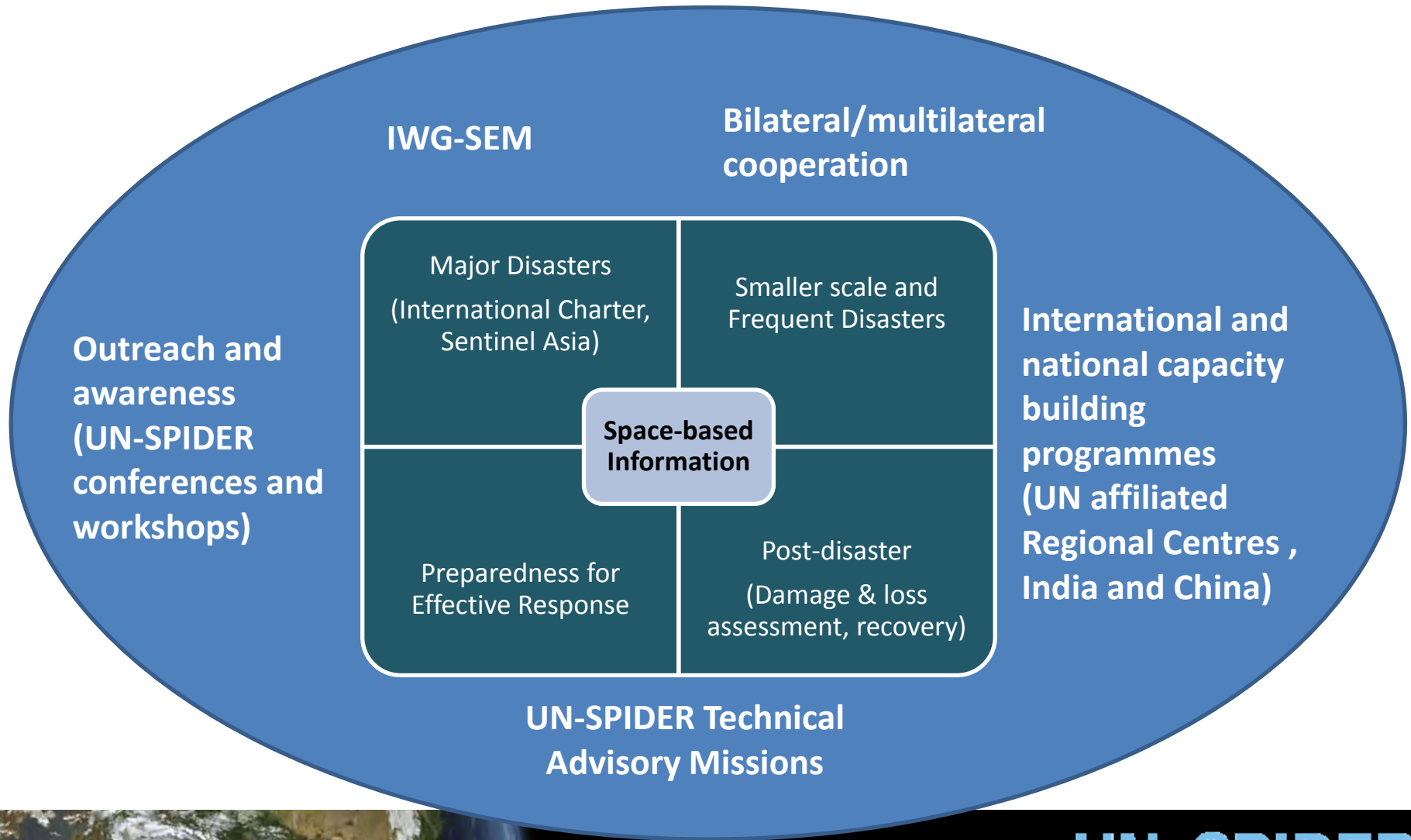


Post-disaster (Damage & loss assessment, recovery)



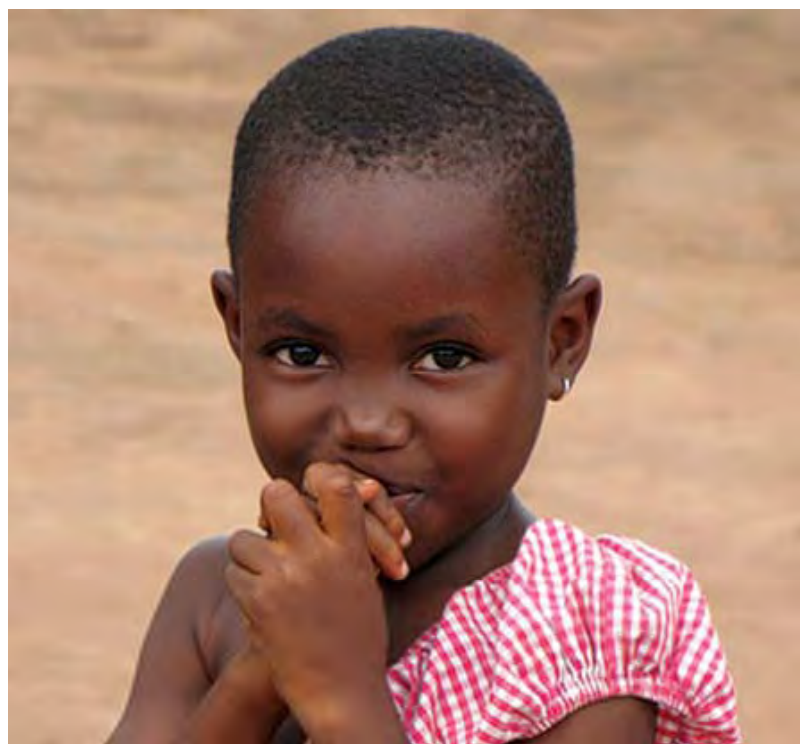


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**Bringing benefits of the
space to humanity**

shirish.ravan@unoosa.org



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