



APDIM
Asian and Pacific Centre for
the Development of Disaster
Information Management



Presidency of the Islamic Republic of Iran
Vice-Presidency for Science and Technology

**ASIA-PACIFIC INNOVATION FORUM 2019
TECHNOLOGY START-UPS FOR SUSTAINABLE DEVELOPMENT**

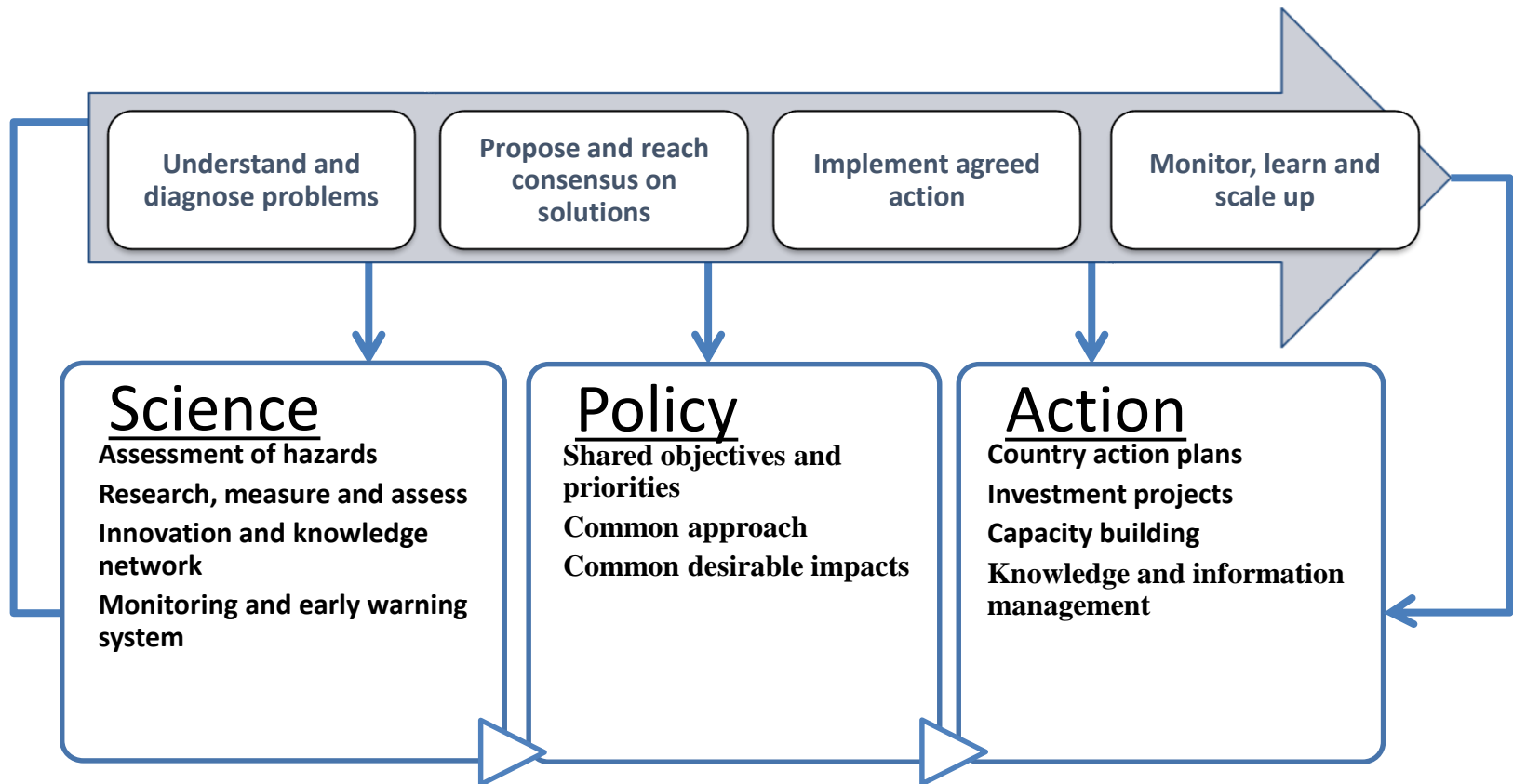
Technology Start-ups and Disaster Information Management

***Mostafa Mohaghegh
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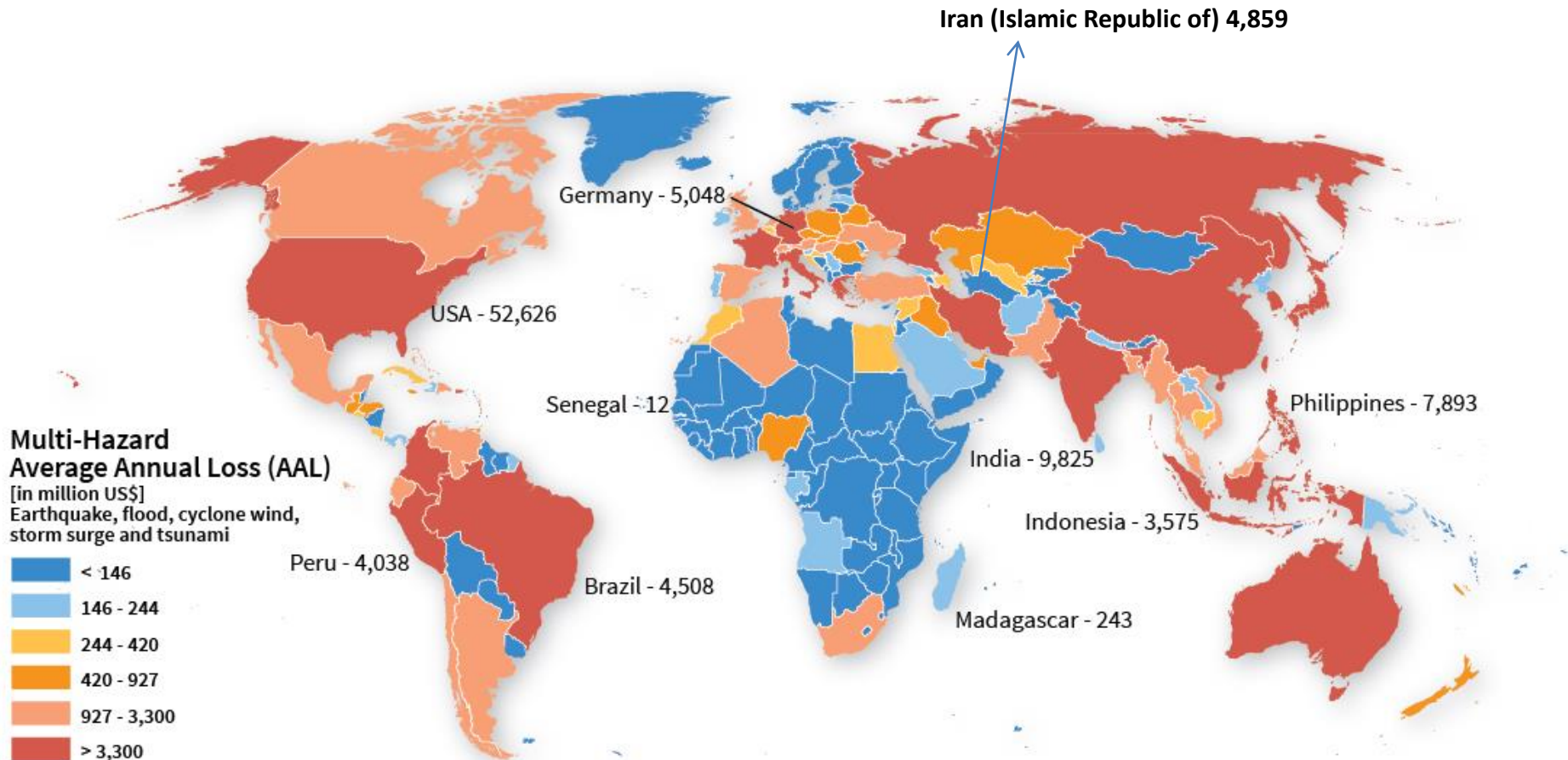
***Asia and Pacific Centre for Development of Disaster
Information Management (APDIM)***

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Science , Policy , Action Nexus



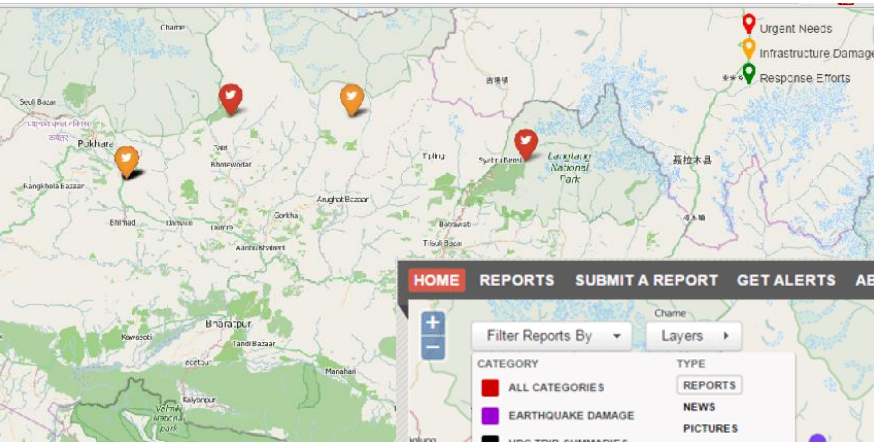
Role of information management in understanding and assessing disaster risk



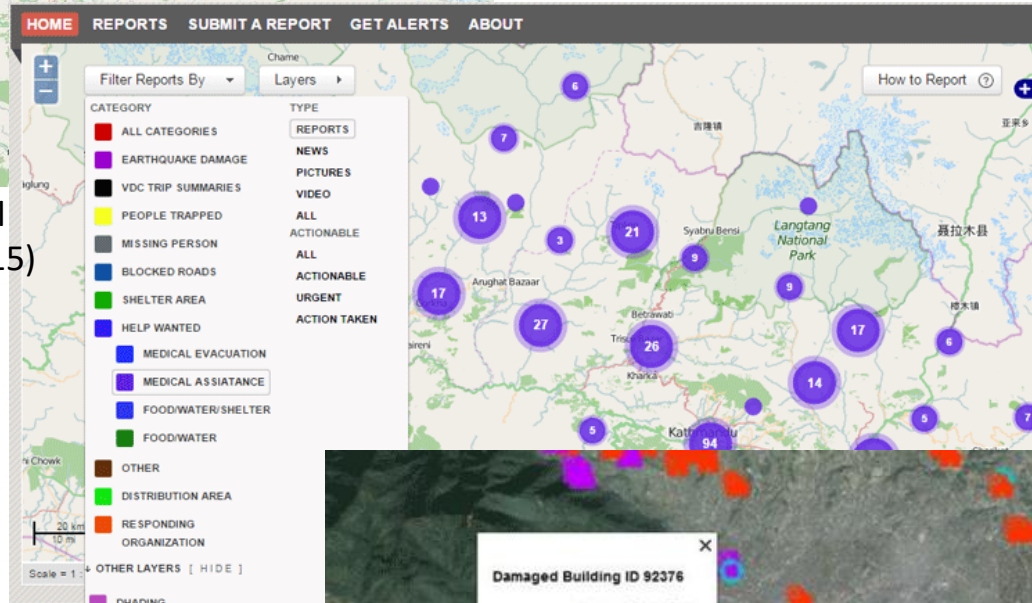
Expected future disaster losses annualized over the long term

Technology start-ups and disaster information management

Discursive Analytics

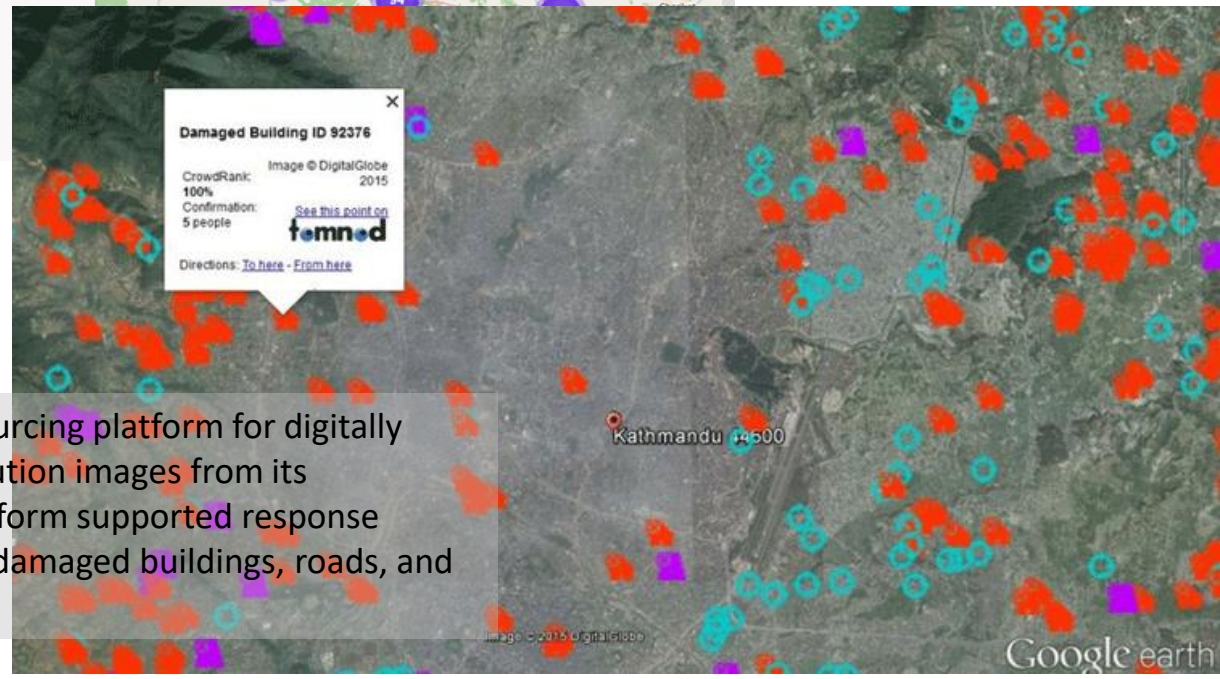


Tweet Crisis Map – Nepal Earthquake (9th May 2015)



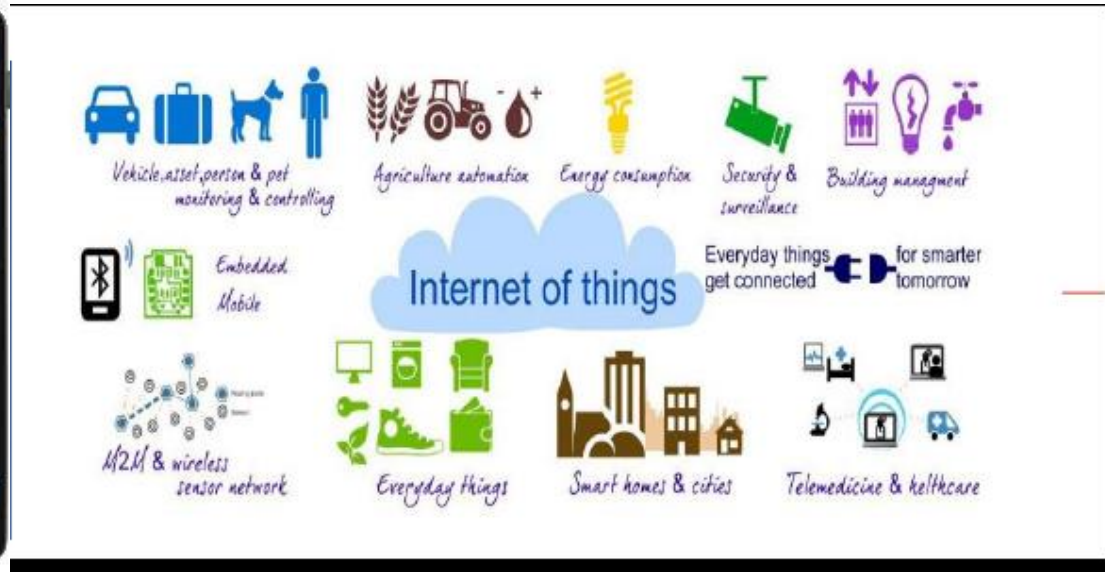
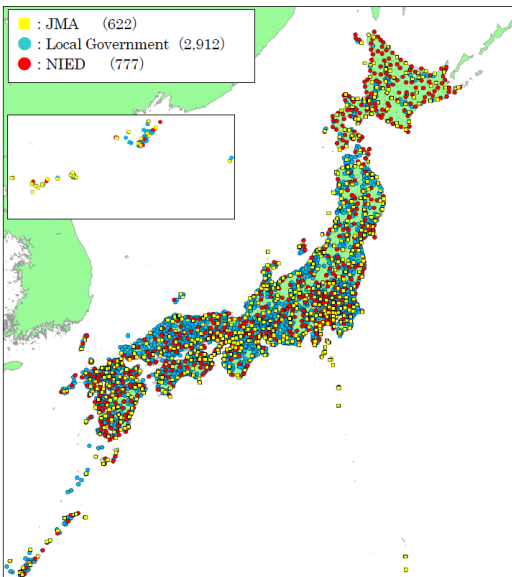
A crowdsourced map made sense of tweets, texts and imagery- Crisis Response Map – Nepal earthquake (medical assistance required, 9th May 2015)

Digital Globe activated its, a crowdsourcing platform for digitally connected volunteers with high resolution images from its WorldView-3. The crowdsourcing platform supported response teams by mapping damage – tagging damaged buildings, roads, and areas of major relief operations.



Technology start-ups and disaster information management

IoT enables efficient earthquake early warning in Japan



Sites of seismic intensity meters

Startups like Zizmos (Stanford University), using IoT by interconnecting multiple seismic sensors in high-risk areas, detects motion close to the earthquake epicenter and transmits a warning alert to users further away from the epicenter. It uses smartphone apps with cloud messaging services provided by Apple and Google

Sensor costs have significantly decreased over the last decade through advances in smart phone and wearable technology, making an earthquake early-warning system affordable.

In the wake of increasingly frequent and extreme events, data, information and knowledge management are vital for risk reduction and prevention

Interconnectedness of countries call for regional cooperation mechanisms and regional information sharing and management to address transboundary disaster risks

This is the core mandate of APDIM, as reflected in resolution 71/11 on the establishment of APDIM as a regional institution of ESCAP

Other resolutions:

72/7 on regional cooperation to combat sand and dust storms in Asia and the Pacific

73/7 on enhancing regional cooperation for the implementation of the Sendai Framework in Asia and the Pacific

74/6 on advancing disaster-related statistics in Asia and the Pacific



ESCAP

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APDIM strategic plan

Three pillars conveying APDIM's thematic priorities

Information and knowledge repository

Regional repository of databases, information and knowledge

Regional hub of new tools, techniques and standards for information management

Capacity development

Regional capacity development hub for exchange of expertise, experiences and knowledge

Demand driven and customized training services to address information and knowledge gaps

Regional information services for cross-border disasters

Specialized services (geospatial & statistical) for cross-border disasters

Regional information (maps & databases) for cross-border disasters



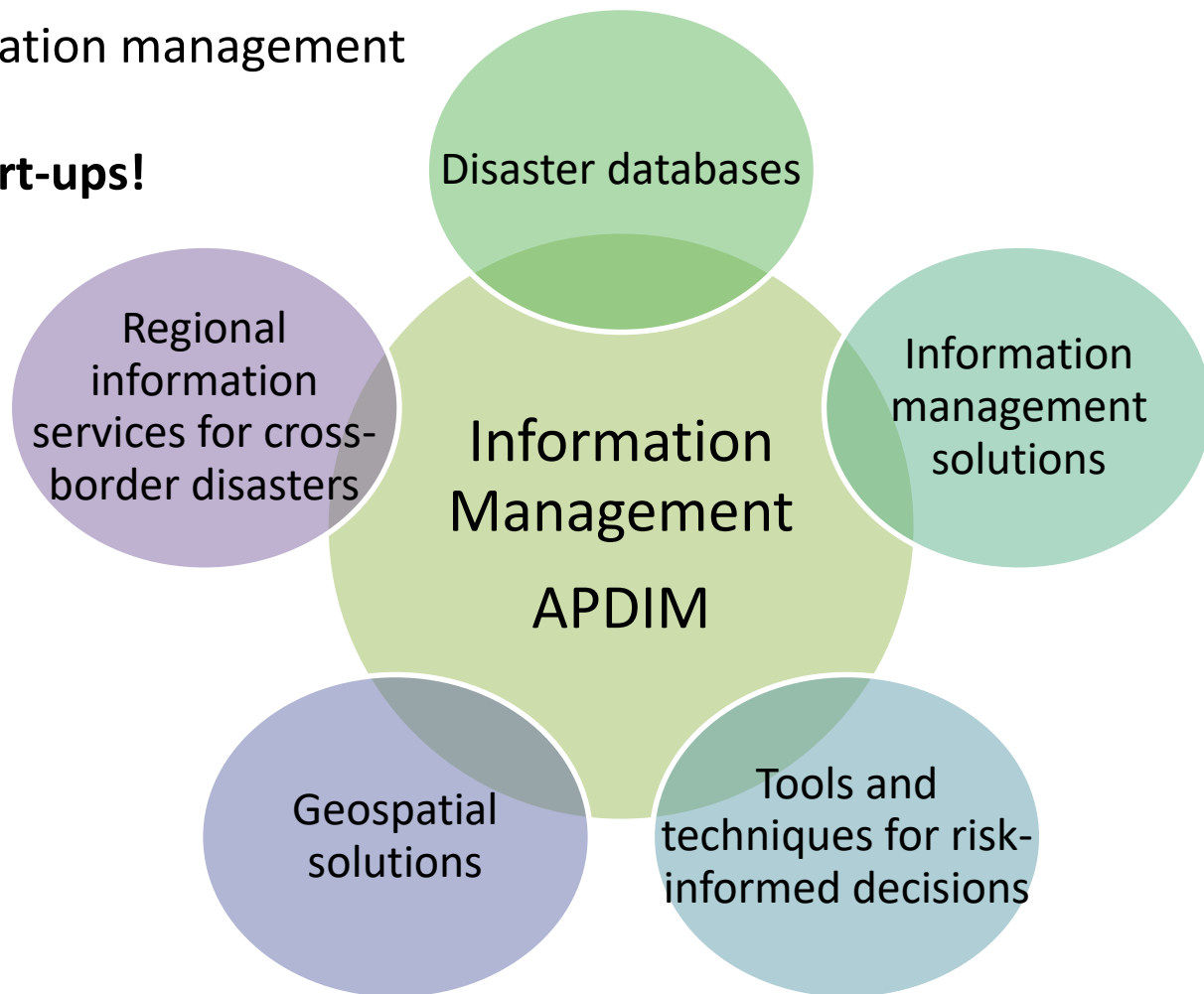
ESCAP

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Areas of partnership

Advances in innovative tools, techniques
and applications led to state-of-art
disaster information management
systems,
Technology start-ups!



Thank you