

International Workshop on Building Resilience to the Risk of Compound and Cascading Disasters in the Context of Climate Change - Launch of the New e-learning Course on AP-PLAT, 21st Jan 2022

LAUNCH AND INTRODUCTION OF AP-PLAT'S E-LEARNING COURSE

Building resilience to compound and cascading disaster risks



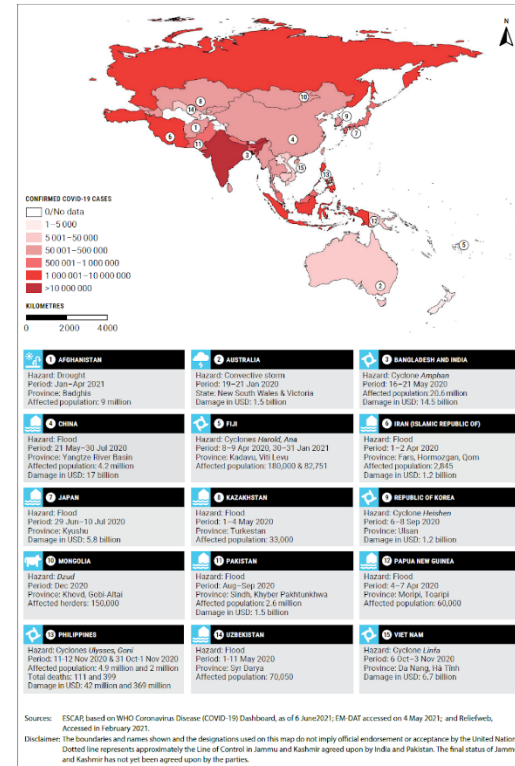
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Why compound and cascading disaster risks?

- COVID-19 pandemic: a complex scenario for disaster risk management
- Climate change: responsible for extreme hydro-metrological disasters involving compounding and cascading affects
- Compound and cascading disasters: a new normal of the changing risk profile
- Are governments, sectors, communities and individuals fully aware of the complexities involved and have access to necessary knowledge and tools?

FIGURE 1-14 COVID-19 and major disasters in 2020 and 2021



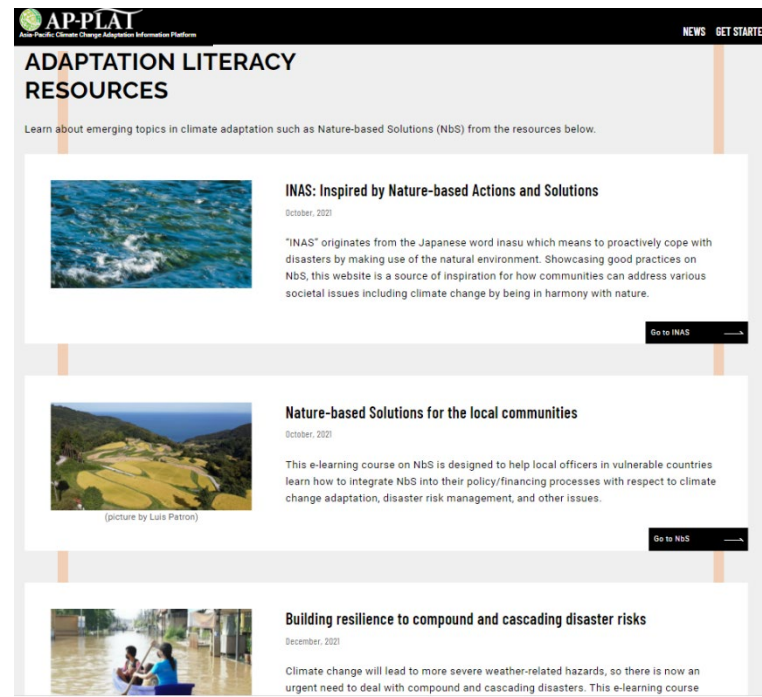
Source: Asia Pacific Disaster Report 2021, UNESCAP

Key knowledge gaps

- How to **enhance understanding** about compound and cascading disaster risks?
- How compound and cascading disasters **differ from** normal disasters?
- What **additional steps** government, sectors, communities and individuals need to cope with the situation and minimize such risks?
- How could we **build resilience** against future risks from such disasters, especially, at the **community level**?

AP-PLAT's E-Learning

- E-Learning is a part of AP-PLAT's '*Adaptation Literacy for Climate Resilient Society*' which aims to promote and exchange knowledge of emerging adaptation issues by developing self-paced e-learning videos and related materials
- This e-learning is an attempt to highlight the importance of compound and cascading disaster and encourage governments and relevant stakeholders to think seriously about it in their disaster risk management planning and strategies



Key considerations

- It should be simple, not highly technical, yet include adequate details to grasp an overall picture of 'key concepts' and 'what should be done next?'
- It should not look like an entirely new process or something to be planned from a scratch
- Trigger interests among stakeholders to dig further into the topic
- Could be used as a starting point to organize capacity building for local level planning on compound and cascading disasters
- Potential for further development into a full fledged learning tool through research, organizing targeted capacity building events, and collaboration with other similar initiatives

Inputs used for developing the lessons

- Recent scientific literature, assessment reports

Literature



- Review of cases involving compound and cascading disasters from Japan, Asia, Europe

Cases

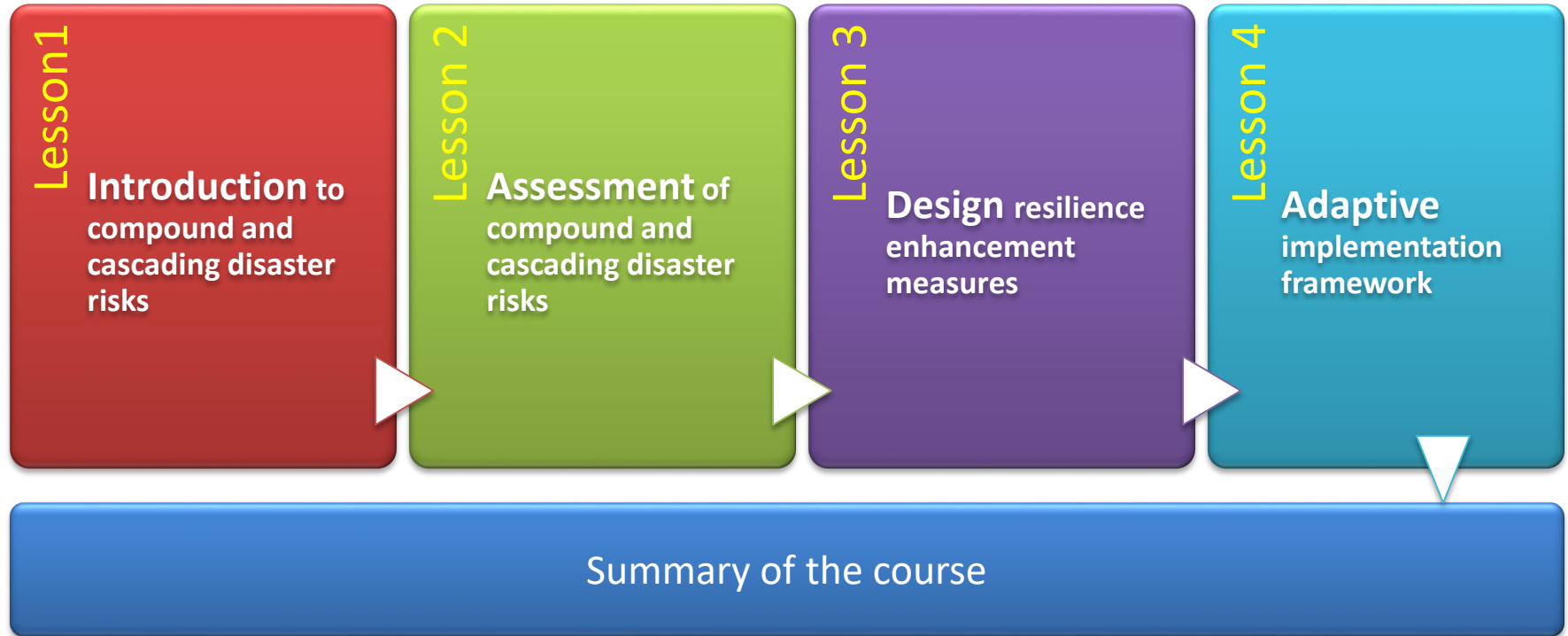


- Interactions and interview with leading experts in the field

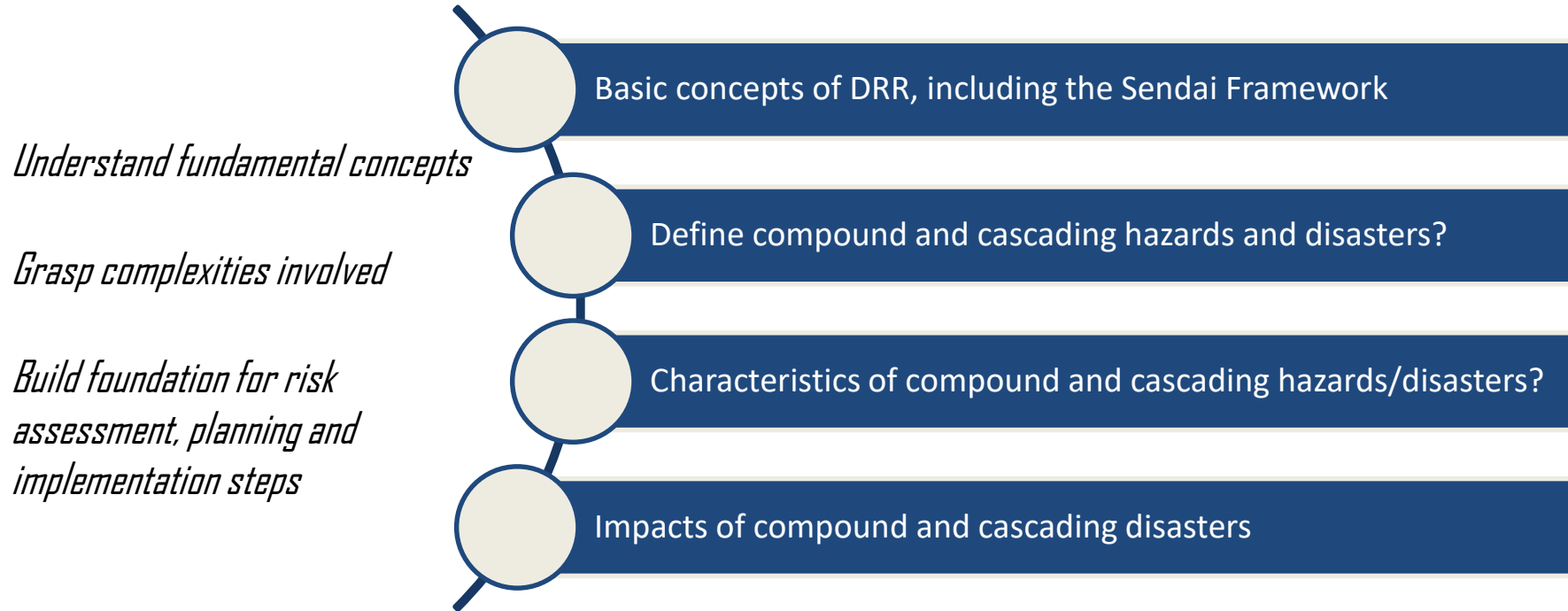
Expert



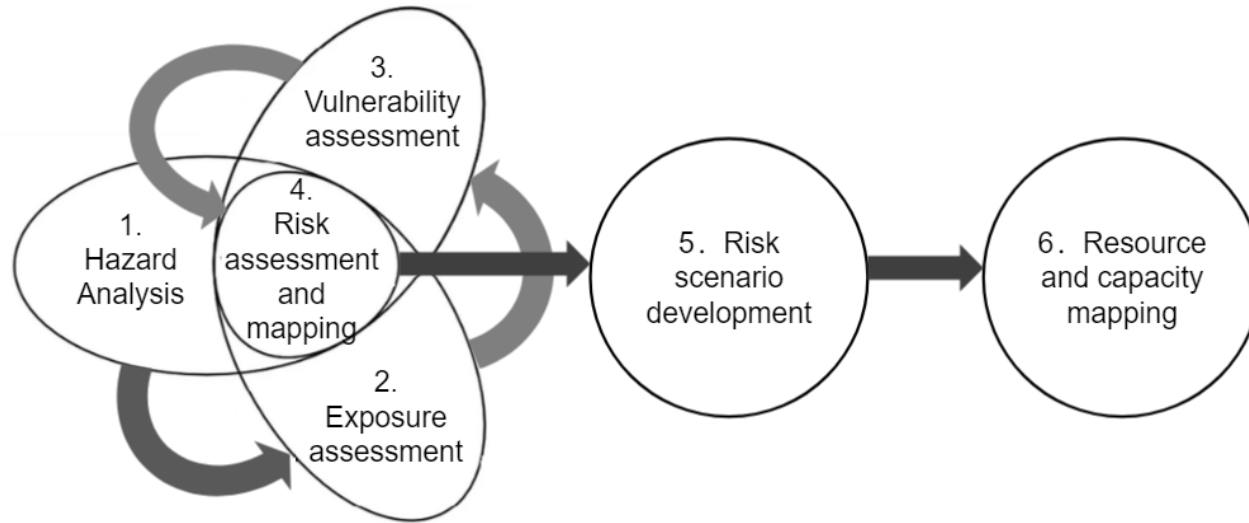
Course structure



Lesson 1: Introduction to compound and cascading disaster risks

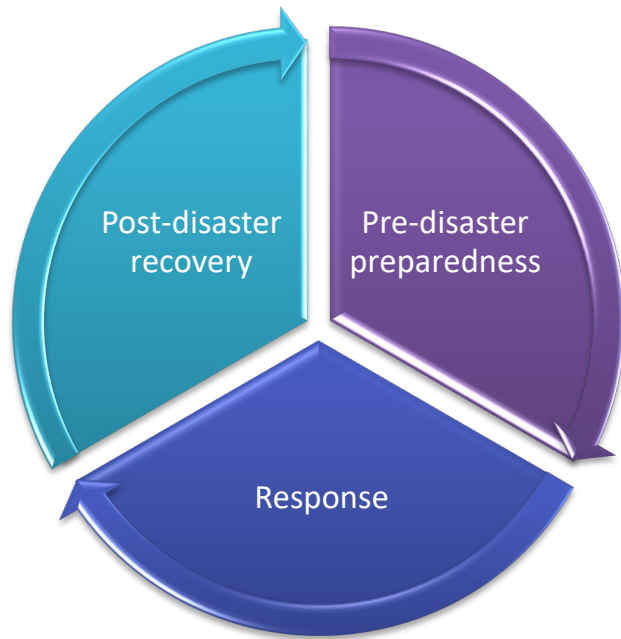


Lesson 2: Assessment of compound and cascading disaster risks



Builds on the existing processes and practices of risk assessment and mapping

Lesson 3: Designing resilience enhancement measures

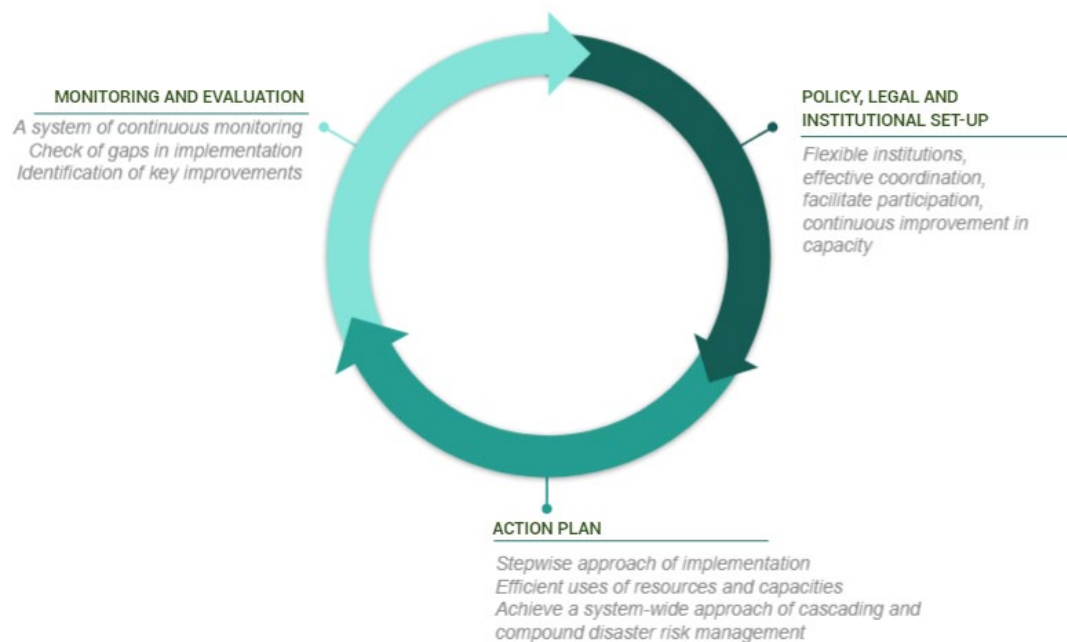


Covers extended impacts (spatial, temporal and systemic) on all elements of disaster management cycle

Considers all potential combination of hard and soft measures to minimize loss/damages and break the chain of impacts

Build-back-better or adaptive recovery by considering systemic impacts

Lesson 4: Adaptive implementation framework



Three mutually reinforcing pillars

A systemic and transformative thinking based on the concept of adaptive governance

A multi-level coordination, meaningful participation and effective decision making

A step-wise approach backed by robust monitoring and evaluation for continuous learning and adaptation to uncertainties and surprises

Summary: follow-up steps

- Use the course to review gaps and identify necessary measures to incorporate compound and cascading risks into local disaster planning
- Downloadable videos with script, useful links to additional references/resources to advance further understanding
- Case examples
- Templates for conducting exercise while organizing a training sessions



2021 Ministry of the Environment, Japan



Supplementary worksheets for the e-learning course

"Building resilience to compound and cascading disaster risks"



Lesson 1: Compound and cascading disaster risks. What are they?

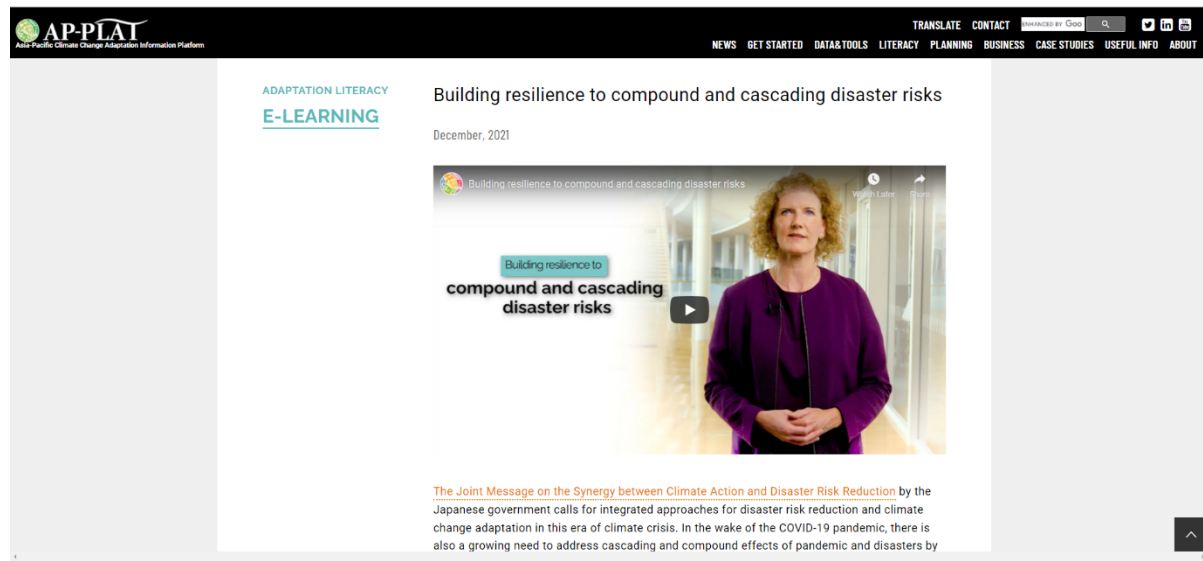


Step 1: Prepare a list of potential hazards and characterize them

Hazards	Triggers and causes (what)	Occurrences (when)	Frequency (how often)	Scale (where)	Impacts/damages (how much/how big)
Heavy rains					
Wind storms					

For Further Details:

https://ap-plat.nies.go.jp/adaptation_literacy/resources/e_learning/drr/index.html



Acknowledgements and great appreciation to all contributors....

....Thank you for your kind attention