Mainstreaming Disaster Risk Management in Government Institutions
Session 2.2 Disaster Risk Reduction (DRR), Climate Change Adaptation (CCA): The Sustainable Development Goals (SDGs) and Paris Climate Agreement
Session Objectives

At the end of this session, participants should be able to:

• Discuss importance of Sustainable Development Goals (SDGs) and Paris Climate Agreement
Outline

• What is the 2030 Agenda for Sustainable Development Goals (SDGs)?
• How are the Sustainable Development Goals linked with DRR?
• What is Paris Agreement on Climate Change?
• How is Paris Agreement linked with DRR?
• Risk-Informed Sustainable Development: Linking Global Agendas
• Connecting Sustainable Development, Climate Change, and DRR
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What is the 2030 Agenda for Sustainable Development Goals (SDGs)?

- Adopted by the United Nations in 2015 as a universal call to action to **end poverty**, **protect the planet**, and ensure that by 2030 all people enjoy **peace** and **prosperity**
- The **17 SDGs** to help end extreme poverty, fight inequality, combat climate change, and **build resilience to disasters**

How are the Sustainable Development Goals linked with DRR? (i)

TARGET 1.5: By 2030, build **resilience** of the poor and those in vulnerable situations and **reduce** their **exposure** and **vulnerability** to climate-related extreme events and other economic, social and environmental shocks and disasters.

TARGET 2.4: By 2030, ensure sustainable food production systems to implement **resilient** agricultural practices that increase productivity and production, that help maintain ecosystems, that strengthen capacity for adaptation to climate change, extreme weather, **drought**, **flooding** and other **disasters** and that progressively improve land and soil quality.
How are the Sustainable Development Goals linked with DRR? (ii)

**TARGET 3.D:** Strengthen the capacity of all countries, in particular developing countries, for *early warning, risk reduction* and management of national and global health risks.

**TARGET 4.A:** Build and upgrade educational facilities that are child, disability and gender sensitive and provide *safe*, non-violent, inclusive and effective environment for all.
How are the Sustainable Development Goals linked with DRR? (iii)

**TARGET 6.6:** By 2020, **protect** and restore water-related ecosystems, including mountains, forests, wetlands, rivers, aquifers and lakes.

**TARGET 9.1:** Develop quality, reliable, sustainable and **resilient** infrastructure, including regional and transborder infrastructure, to support economic development and human well-being, with a focus on affordable and equitable access to all.
How are the Sustainable Development Goals linked with DRR? (iv)

TARGET 9.A: Facilitate sustainable and resilient infrastructure development in developing countries through enhanced financial, technological and technical support to African countries, least developed countries, landlocked developing countries and small island developing States.

TARGET 11.5: By 2030, significantly reduce the number of deaths and the number of people affected and substantially decrease the direct economic losses relative to GDP caused by disasters, including water related disasters, with focus on protecting the poor and people in vulnerable situations.
How are the Sustainable Development Goals linked with DRR? (v)

**TARGET 11.B:** By 2020 substantially increase the number of cities and human settlements adopting and implementing integrated policies and plans towards inclusion resources efficiency, **mitigation** and adaptation to climate change, **resilience to disasters**, and develop and implement, in line with the SFDRR, holistic **disaster risk management** at all levels.

**TARGET 13.1:** Strengthen **resilience** and adaptive capacity to climate-related hazards and **natural disasters** in all countries.

**TARGET 13.3:** Improve education, awareness raising and human and institutional capacity on climate change, **mitigation**, adaptation, impact reduction and **early warning**.
How are the Sustainable Development Goals linked with DRR? (vi)

**TARGET 14.2:** By 2020, sustainably manage and protect marine and coastal ecosystems to avoid significant adverse impacts, including by strengthening their resilience, and take action for their restoration in order to achieve healthy and productive oceans.

**TARGET 15.3:** By 2030, combat desertification, restore degraded land and soil, including land affected by desertification, drought and floods, and strive to achieve a land degradation-neutral world.
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What is Paris Agreement on Climate Change?

- **Legal** binding agreement on the global response to **climate change**, adaptation, **mitigation** and finance
- Adoption of the Paris Agreement, Decision 1/CP.21, makes an explicit reference to both the **2030 SDGs Agenda** and the **Sendai Framework**
How is Paris Agreement linked with DRR?

Article 7.1 mentions that Parties hereby establish the global goal on adaptation of enhancing adaptive capacity, strengthening **resilience** and reducing **vulnerability** to climate change (United Nations, 2015)

Article 8.1 recognizes the importance of averting, minimizing and addressing loss and damage associated with the adverse effects of climate change, including **extreme weather events** and **slow onset events** (United Nations, 2015)
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Risk-Informed Sustainable Development: Linking Global Agendas

Source: UNDRR, 2019
Connecting Climate Change and Disaster Risk Reduction

IPCC risk-based conceptual framework

Actions to reduce Hazards
- Ecosystem-based measures to reduce coastal flooding
- Mangroves to alleviate coastal storm energy
- Water reservoirs to buffer low-flows and water scarcity

Limits to Adaptation
- E.g., physical, ecological, technological, economic, political, institutional, psychological, and/or socio-cultural

Actions to reduce Vulnerability
- Social protection
- Livelihood diversification
- Insurance solutions
- Hazard-proof housing and infrastructure

Actions to reduce Exposure
- Coastal retreat and resettlement
- Risk sensitive land use planning
- Early warning systems and evacuations

Source: https://www.oecd-ilibrary.org/sites/ec322f35-en/index.html?itemId=/content/component/ec322f35-en
Connecting Sustainable Development, Climate Change and Disaster Risk Reduction

Sustainable Development

- Pollution prevention
- Climate change mitigation

Disaster risk reduction
- Climate change adaptation

Source: Kelman, 2017
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