Land Restoration

Land restoration refers to the process of halting degradation or rehabilitating degraded land, typically through activities like reforestation, soil conservation, and the protection of natural processes. It aims to enhance biodiversity, restore ecosystem services, and mitigate climate change impacts.
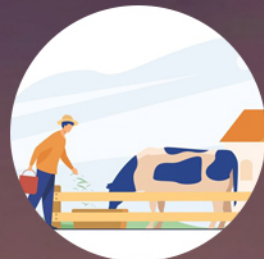
A few examples of restorative methods
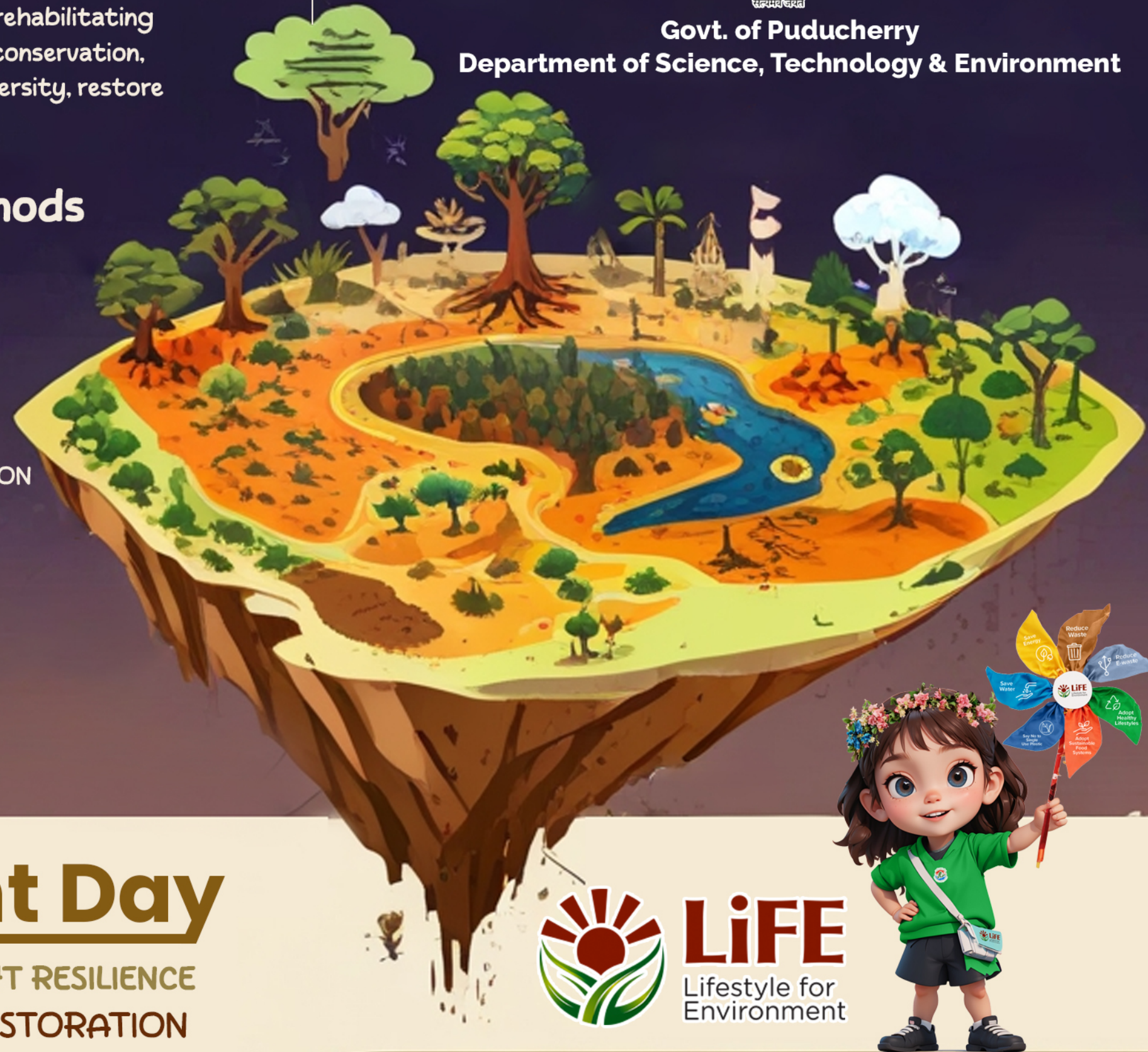
AGROFORESTRY OR AGROECOLOGY

FLOOD PLAIN RESTORATION

MANAGED GRAZING

REFORESTATION

**Govt. of Puducherry
Department of Science, Technology & Environment**

World Environment Day

LAND RESTORATION, DESERTIFICATION & DROUGHT RESILIENCE

#GENERATIONRESTORATION

5th June 2024

LiFE
Lifestyle for Environment

PPCC

PCCC

17 PARTNERSHIPS FOR THE GOALS

15 LIFE ON LAND

"Our land. Our future."

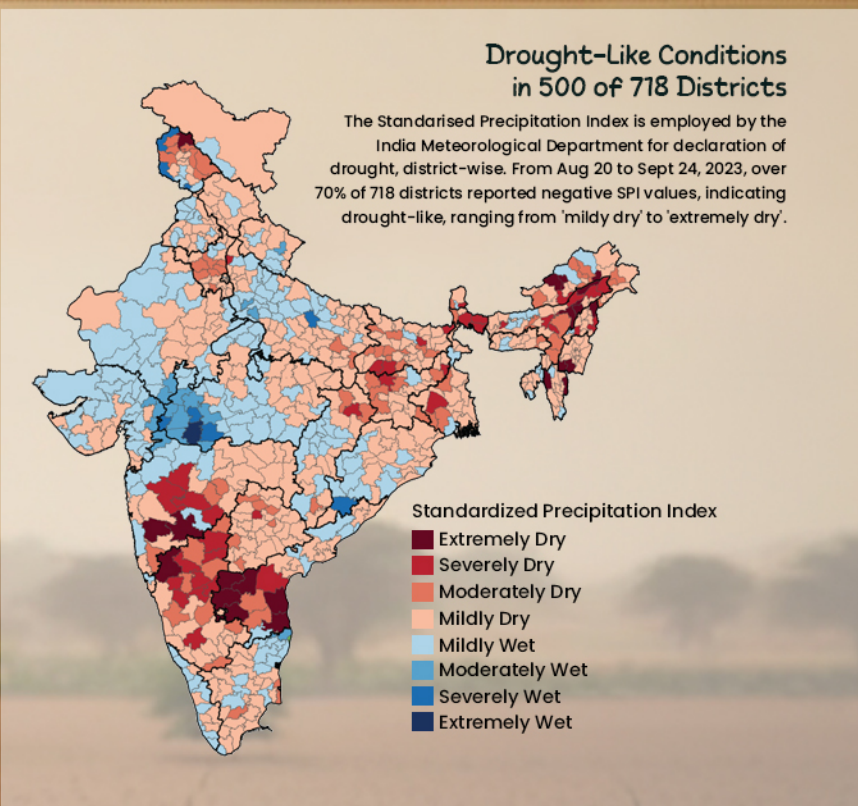Be the Change: Regrow, Replenish, Rejoice for Our Land!

Drought

'Drought' is the absence of water for a long period of time, at a place where it is considered abnormal as compared to its usual conditions. The surface water bodies (rivers, lakes, lagoons, ponds etc.) that offer sustenance to human and animals are under consistent threat of drought across the planet.

Types of Drought

Meteorological drought

Agricultural drought

Hydrological & Socio-Economic drought

Drought-Like Conditions
in 500 of 718 Districts

The Standarised Precipitation Index is employed by the India Meteorological Department for declaration of drought, district-wise. From Aug 20 to Sept 24, 2023, over 70% of 718 districts reported negative SPI values, indicating drought-like, ranging from 'mildy dry' to 'extremely dry'.

Standardized Precipitation Index

- Extremely Dry
- Severely Dry
- Moderately Dry
- Mildly Dry
- Mildly Wet
- Moderately Wet
- Severely Wet
- Extremely Wet

Desertification

Desertification refers to land degradation in arid, semi-arid and dry subhumid areas resulting from various factors, including climatic variations and human activities.

Desertification Causes

The climate crisis

Soil erosion

Deforestation

Livestock Overgrazing

Unsustainable land use

Land degradation
(% of total geographic area)

2003-05	94.53 mha (28.76%)
2011-13	94.53 mha (28.76%)
2018-20	94.53 mha (28.76%)

State-wise area under desertification
(% of Total Geographic Area of State)

State	%
Jharkhand	68.77%
Rajasthan	62.06%
Delhi	61.73%
Goa	52.64%
Gujarat	52.22%

% of desertification due to:

- Water erosion **11.01%**
- Vegetation degradation **9.15%**
- Wind erosion **5.46%**