

## Theme4: Ecosystem rejuvenation

- Water resources adaptation strategies; Protection and restoration of water-related ecosystems, Ground water recharging, moisture conservation, watershed management practices, forestry as a source of healthy ecosystem, improving water use efficiency.
- Managing Agriculture, Horticulture and forests, Improving soils, Conservation and Management of soils,
- integrated watershed management. Wetlands improvement and Management.
- Natural processes to enhance water availability (e.g., soil moisture retention, groundwater recharge), improve water quality (e.g., natural and constructed wetlands, riparian buffer strips)
- Water harvesting water recharging, and reduce risks associated with water-related disasters and climate change (e.g., floodplain restoration, green roofs).
- Plant genetics and breeding techniques DNA manipulation techniques breed resistance against specific diseases and common pests and insects, and to reduce environmental burden of fertilizers,
- Varieties to reduce the demand for irrigation water and to improve crop production transgenic breeding, improved crop varieties for marginal agro-ecological regions.
- Improving resource use efficiency, conserving protecting and enhancing natural resources, meeting challenges of growing demand. Irrigation water Management.
- Prevention and reduction of marine pollution of all kinds, in particular from land-based activities, including marine debris and nutrient pollution.
- Coastal eutrophication, 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

### **Action:**

Adoption, Protection, Conservation and storage, Management

### **Keywords:**

- Recharging, moisture conservation, Agriculture, Horticulture and forests,
- Integrated watershed management. Water Harvesting,
- Wetlands, Ecosystem regeneration,
- Plant genetics and breeding, marine pollution, Coastal eutrophication.