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| **Template 3B: Understanding how human activities and actors relate to ecosystem services (examples from Kochi, India)** | | | | | |
| **Which activities help to protect ecosystems and to ensure a sustainable provision of ES? (by conserving biodiversity or managing ecosystems) Who are the stewards?** | | **Which activities use or depend on ES?  Who are the beneficiaries that have an interest in ES provision?** | | **Which activities pollute ecosystems and/or deplete or harm the provision of ES?  Who are the degraders?** | |
| activities | actors | activities | actors | activities | actors |
| * mangrove management | * coastal zone authority / Indian coast guard / navy (national) * protected areas managed by forest department | * fishing (mangrove for breeding and nursery) | * fisherman and communities consuming fish * fishing industry * boat tour operators | * Cochin shipyard port activities * Kochi LNG (liquid natural gas) terminal construction for offshore storage and transport destroy mangroves | * households with sewage * constructors * Indian navy (dredging) * Indian coast guard (dredging) * Indian national railways (cut down mangroves |
| * Management and protection of Mangalavanam | * Kerala Forest Department * Kochi Municipal Corporation | * Leisure trips, including boat tours (for pleasure, recreation, physical & Mental Health) | * Public visitors * Tourism operators * morning walkers | * Incompatible land use in surrounding area (with high buildings) | * Corporation GCDA * Railway * Developers * High court * KMC * Govt. of Kerala * Private builders |
| * Eco-friendly tourism | * DTPC * Private Agencies | * Nature Camps and education activities | * Students * general public * neighborhood * KFD | * Light and noise pollution in surrounding area | * Local public and households * high court building * traffic |
| * Research | * KFRI * CUSAT * SACON * Colleges | * Climate protection efforts | * Agencies responsible for climate protection * Global community | * Improper drainage system and destruction of natural drainage | * Govt. bodies * Local bodies |
| * Buffer zone protection | * Kerala State | * birdwatching | * bird watchers * tourism operators | * Introduction of exotic plants and predators | * Forest Department * Natural invasion |