

## R & D Needs

WATER/WATERSHED	CARBON	BIODIVERSITY	LANDSCAPE/SEASCAPE BEAUTY	CROSSCUTTING
<p>Studies on impacts of different conservation and rehabilitation methods/land uses on water yield and quality</p> <p>Studies on the relationships between land uses and soil erosion potential</p> <p>Impacts of climate change on water quantity and quality</p> <p>Hydrological studies e.g. where water comes; Recharge and extraction rates; Hydrologic Assessments</p> <p>Policy studies on watersheds e.g. Panay</p> <p>Research dissemination (IEC) to stakeholders re: connection of watershed</p>	<p>Carbon sequestration potential of different ecosystems/tree species</p> <p>Carbon budget in different ecosystems (including GHGs)</p> <p>Appropriate scale for mapping carbon sinks using RS/GIS; Assessment of carbon sequestration of various ecosystems using RS/GIS</p> <p>Feasibility assessments of areas with potential carbon values</p> <p>Assessment of the different carbon market standards to determine which among the standards will be beneficial to the Philippine situation</p>	<p>Economic valuation of biodiversity</p> <p>Payment mechanisms for Bioprospecting</p> <p>Carrying capacity of the ecosystem</p> <p>Effect of upland dwellers/fisherfolks on biodiversity</p> <p>Re-establishment of biodiversity</p> <p>Study on the validation of biodiversity areas</p> <p>Management of data on biodiversity eg baseline, biodiversity data through time</p> <p>MRV</p> <p>Impacts of climate change on biodiversity</p>	<p>Parameters/standardized monitoring and evaluation tool to monitor impact of interventions to protected landscape</p> <p>Transboundary benefits</p> <p>Stakeholders mapping and analysis</p> <p>Engagement of stakeholders in the conservation of forest/marine ecosystems</p> <p>Carrying capacity of a landscape/seascape</p> <p>Understand cultural practices of local communities vis a vis forest/marine protection and conservation</p> <p>Mitigation measures to preserve or restore scenic</p>	<p>Transboundary benefit sharing</p> <p>Development and design of payment scheme</p> <p>Multidisciplinary studies and monitoring studies from ridge to reefs to determine impacts of environmental change and effects of intervention programs</p> <p>PES and poverty alleviation</p> <p>Population and health and ES</p> <p>Legal framework for PES implementation</p> <p>Alternative livelihood schemes for program sustainability</p> <p>Effective intermediaries on</p>

<p>protection to water yield and quality</p> <p>Alternative uses of watershed (water vs timber etc)</p> <p>Watershed characterization</p> <p>Generation of more specific values to estimate the correct value of the watershed</p> <p>Carrying capacity of the watershed</p> <p>Studies on the correct species for reforestation projects in watershed areas</p> <p>Research on issue and application for water rights</p> <p>Mechanisms for PES bet providers and users in two LGUs involved / PES for different services of water/Application of PES</p>	<p>Carbon ownerships</p> <p>Methods to assess eligibility proposed project site</p> <p>Measuring, verifying, reporting (MRV)</p> <p>Allometric equations of different species</p> <p>Safety nets on carbon trading</p> <p>Localize carbon standards validators</p> <p>Assessment of carbon sequestration in marine environment including mangrove areas</p> <p>Modeling (quantifying impacts of various activities that disturb natural carbon sinks)</p> <p>WTP studies on transport systems/pollution</p> <p>Carbon-less or CO<sub>2</sub>-</p>	<p>Biodiversity conservation and poverty alleviation</p> <p>Geopolitical effects on conservation program</p> <p>Institutionalization of property rights on biodiversity resources to LGUs</p>	<p>beauty</p> <p>Stakeholders mapping and analysis</p> <p>Valuation of Aesthetic Potentials; Valuation of aesthetic values;</p> <p>Policies /sanctions for degrading scenic beauty.</p>	<p>PES (bringing buyers and sellers, PES expo?)</p> <p>Setting standards/metrics for different ES</p> <p>Identifying ES providers/users</p> <p>Vulnerability studies</p> <p>Possible linkage between EIA (mitigation measures ) and PES</p> <p>Assessment of criteria and indicators</p> <p>Knowledge Management</p>
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on private sectors' wastewater discharges	efficient technologies Enforcement/Incentives Comparative assessment of the different methods in determining carbon stocks Identification of potential markets for carbon			
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