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# Mainstreaming Ecosystem Services and Biodiversity into Agricultural Production and Management to Minimize Dependency on Agrochemicals

**SPREP Meeting Side Event**  
**20<sup>th</sup> September 2016**  
**Niue**





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## Background:

FAO, SPREP and SPC collaboration to implement “Capacity-Building Related to Multilateral Environmental Agreements in ACP Countries-Phase 2 (MEAs 2)”

MEAs 2 Objective: to strengthen regional and national institutional capacity for the synergistic implementation of target MEA clusters (on chemicals/wastes and biodiversity).





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## MEAs 2 Project:

Enhance institutional capacity by:

- Working with the CBD Secretariat to develop tools and guidance on integrating agriculture into National Biodiversity Strategy and Action Plans (NBSAPs) (to address selected Aichi Targets that are integral to agriculture e.g. Targets 7, 8, 13 and 14), for dissemination at national levels; and
- Building synergies with measures to eliminate the use of toxic chemicals in agricultural production systems.







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## A Key Output:

### ***Technical Guidance Document – Mainstreaming Ecosystem Services and Biodiversity into Agricultural Production and Management to Minimize Dependency on Agrochemicals***

*Practical issues for consideration in National  
Biodiversity Strategies and Action Plans in  
Pacific Island Countries*





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## TGD Objective:

- Assist countries in finding synergies between two important realms of international agreements: sound chemicals management and biodiversity conservation and sustainable use.
- To be used as countries are revising any of their strategies or policies related to these two realms, in particular is oriented toward country revision, or to assist implementation, of their National Biodiversity Strategies and Action Plans (NBSAPs), to help them attain a number of relevant Aichi Targets.





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## TGD Outline:

### **Section II:** Using ecosystem services and biodiversity to minimize the use of agrochemicals in agricultural production in the Pacific Islands

- ① Defining ecosystems and ES in the Pacific Islands
- ② ES and ecological Pest and Weed management
- ③ ES and Soil Fertility
- ④ ES and Organic Agriculture
- ⑤ ES and farmlands in margins of Protected Areas (PAs)
- ⑥ ES and Agriculture in Ecotourism
- ⑦ ES and Invasive Alien Species (IAS)





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## Ecosystem Services:

<u>MEA Categories</u>	
<b>Supporting services</b>	such as nutrient cycling, oxygen production and soil formation. These underpin the provision of the other 'service' categories.
<b>Provisioning services</b>	such as food, fibre, fuel and water
<b>Regulating services</b>	such as climate regulation, water purification and flood protection
<b>Cultural services</b>	such as education, recreation, and aesthetic value





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## Ecosystem Services of Ecotourism:

<u>MEA Categories</u>	
<b>Supporting services</b>	Providing species habitat, protection of biodiversity, protection of natural ecosystem processes, e.g. carbon sequestration
<b>Provisioning services</b>	Subsistence harvesting, resources for cultural activities (e.g. traditional medicine, handicrafts)
<b>Regulating services</b>	Reduce land clearing, promote habitat regeneration, reduce soil erosion, decrease water sedimentation
<b>Cultural services</b>	Cultural areas (e.g. old village sites), Cultural practices (e.g. traditional medicine collection, handicraft making, traditional harvesting practices ), recreation, education, heirloom seed varieties and local agro-biodiversity







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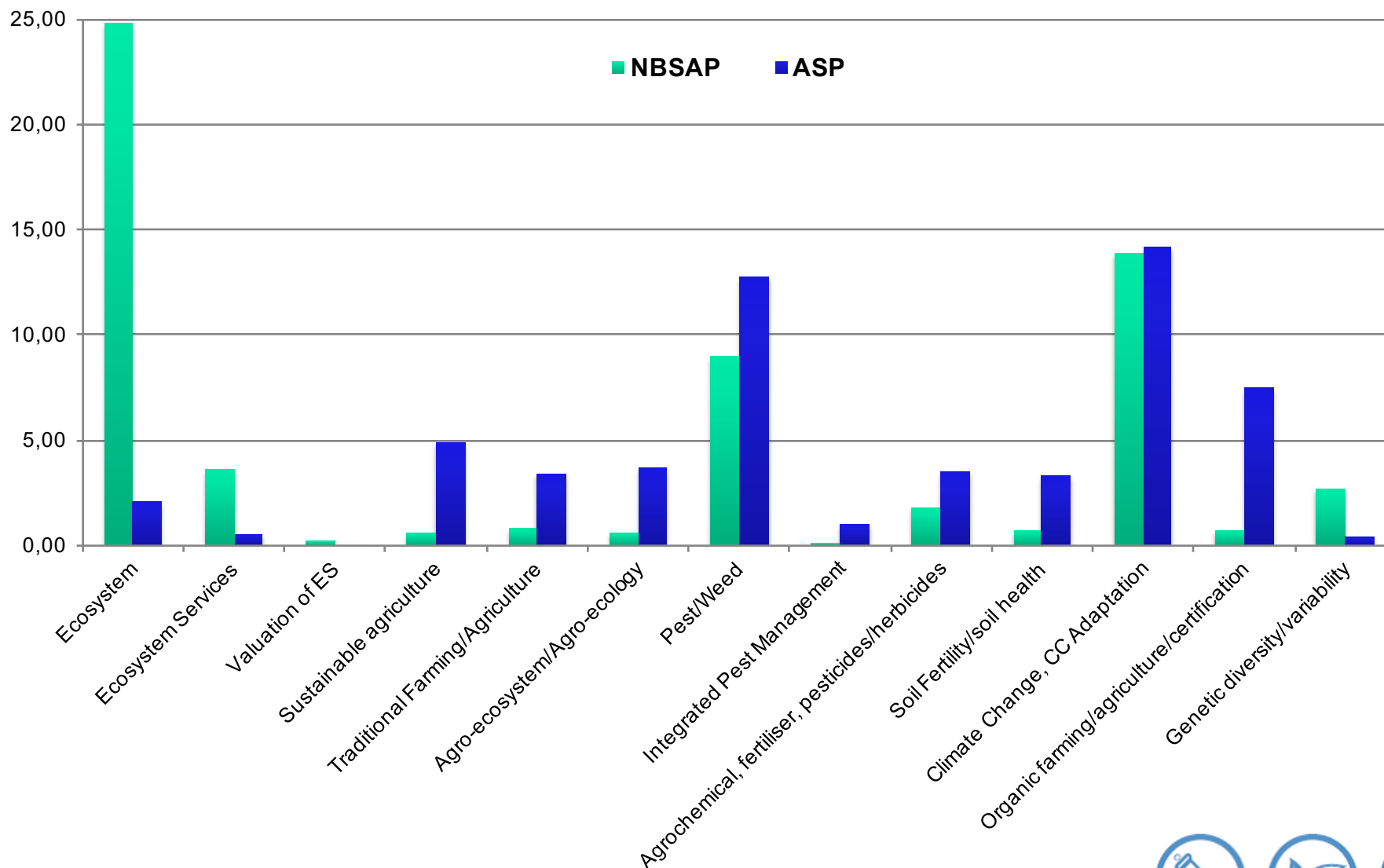


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## NBSAPs and ASPs Keyword Analysis



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Country NBSAP	Mainstreaming BD in other sector Plans
<b>Cook Islands</b>	Integrate biodiversity into national and sectoral legislation, policies, plans and programmes.
<b>Fiji</b>	ensure mainstreaming of biodiversity across sectors of government, society and the economy and to find synergies with national implementation of multilateral environmental agreements
<b>FSM</b>	integrate concepts of conservation and sustainable use of biodiversity into all relevant sectoral policies, programs and plans
<b>Kiribati</b>	Mainstream the protection and management of island biodiversity into different sectors of government, private sectors and civil society
<b>Niue</b>	mainstreaming biodiversity and environmental concerns into plans and actions
<b>Palau</b>	integrate biodiversity conservation strategies and policies into all government planning and operations
<b>PNG</b>	mainstreaming of biodiversity conservation into all the main sectors is envisaged to be a gradual process
<b>Samoa</b>	biodiversity conservation mainstreaming is also seen in other sector plans including agriculture
<b>Solomon Is</b>	biodiversity conservation mainstreaming is also seen in other sector plans including agriculture
<b>Tonga</b>	Biological diversity is recognized, respected and integrated into all social and economic sectors strategies and plans for its economic, ecological, social, cultural and spiritual values
<b>Tuvalu</b>	Mainstreaming of biodiversity into the national policy framework and sector plans
<b>Vanuatu</b>	incorporate the Aichi Targets which will also be mainstreamed into other sectoral policies and legislation





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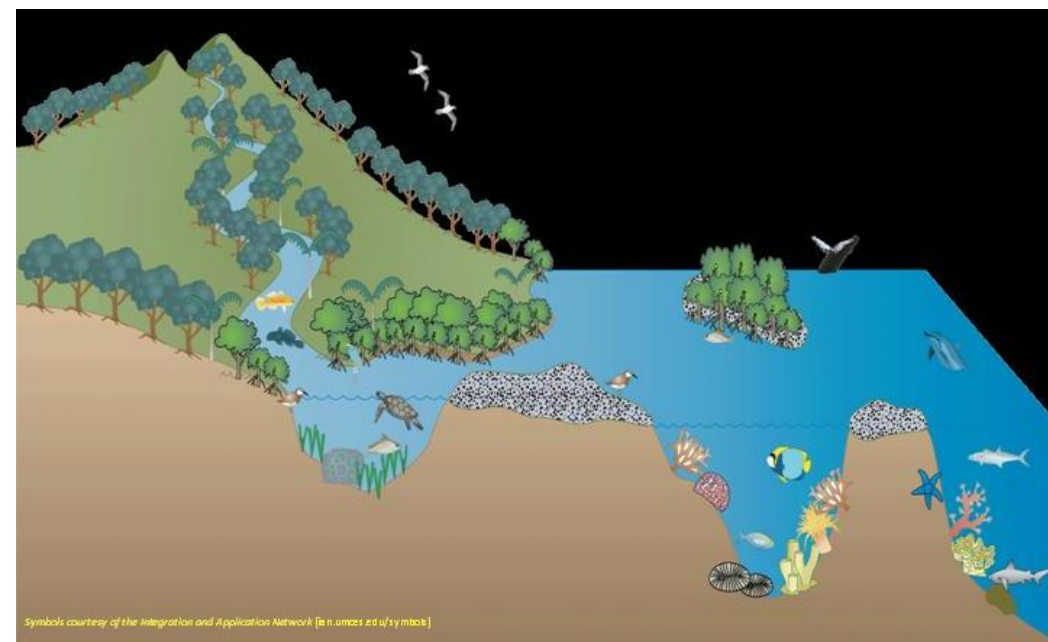


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## Policies to promote Ecosystems-based Agriculture

Examples:

- Whole of Landscape-approaches
- Ridge to Reef
- Green Economy
- Ecosystem-based Adaptation
- Incentives
  - Payment for Ecosystem Services
  - Polluter-pays







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