Plastic Soup and Dead zones: Source prevention for cleaner seas

Addressing Food Security and Nutrition through a Source-to-Sea (S2S) approach

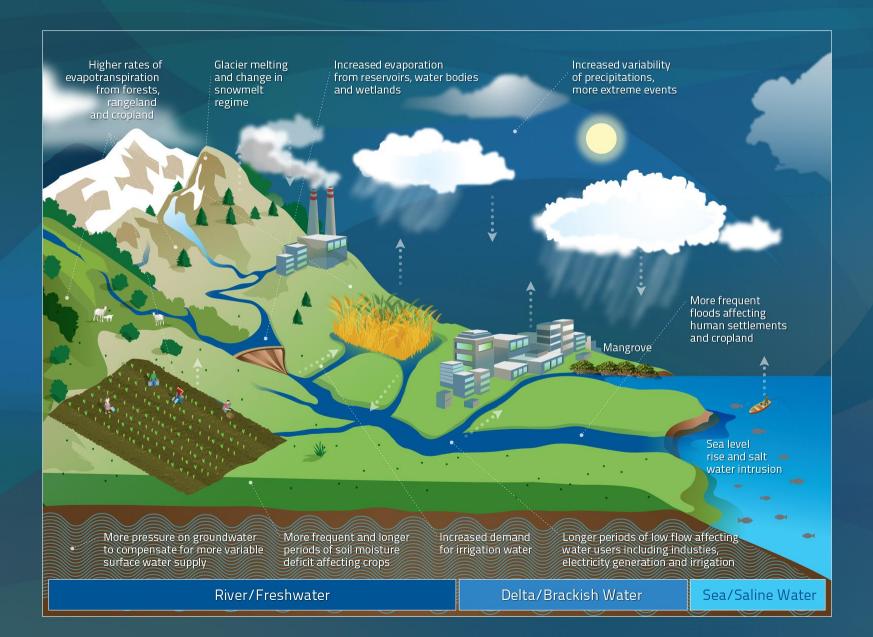
Olcay Unver, FAO Amani Alfarra, FAO



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FAO Works within S2S to achieve Sustainable Food Security & Nutrition



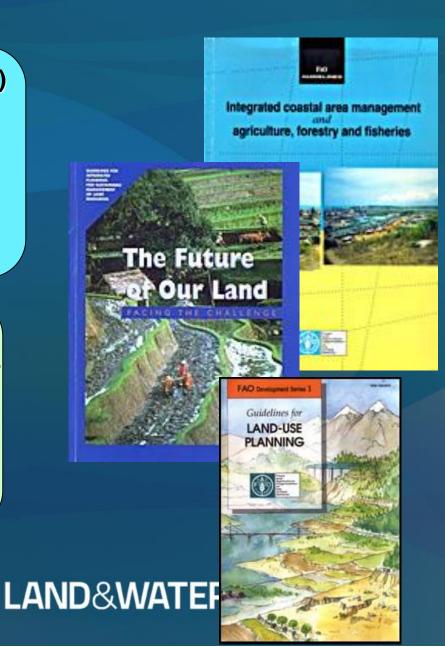
FAO developed guidelines with an integrated approach in 1998

Socio-ecological zones (interconnectivity)

- Local community : natural resource use
- Local government : interface
- National development programmes : larger ecosystem policies

Institutional system

- Fit existing structures and mechanisms
- Jurisdiction
- Responsibilities
- Competence and role of line-agencies
- Stakeholders





More recent work with an integrated landscape approach

- Integrated watershed management
- Forest and landscape restoration
- Coastal area management
- Agro-ecology
- Climate-smart agriculture
- Sustainable land management
- Agro-ecosystem approach
- Incentives for ecosystems services
- Negotiated territorial development

...carried out with partnerships



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Agroforestry in rice-production landscapes in Southeast Asia a practical manual



Negotiation, environment and territorial development Seen Registric Tertinic Development (SeenTD)

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Informing Future Interventions for Scaling-up Sustainable Land Management

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FAO's contribution to S2S approach

FAO's past/ongoing experience shows the need for:

- Holistic territorial vision, focus on water and up- downstream interconnectivity
- Cross-sectoral/inter-institutional work
- Environmental impact, and, food security & safety evaluation of agricultural/ non-agricultural chemical & wastes
- Medium/long-term strategies, policies, planning & action
- Full stakeholders' involvement at different levels
- Equitable territorial distribution of investments & service supply

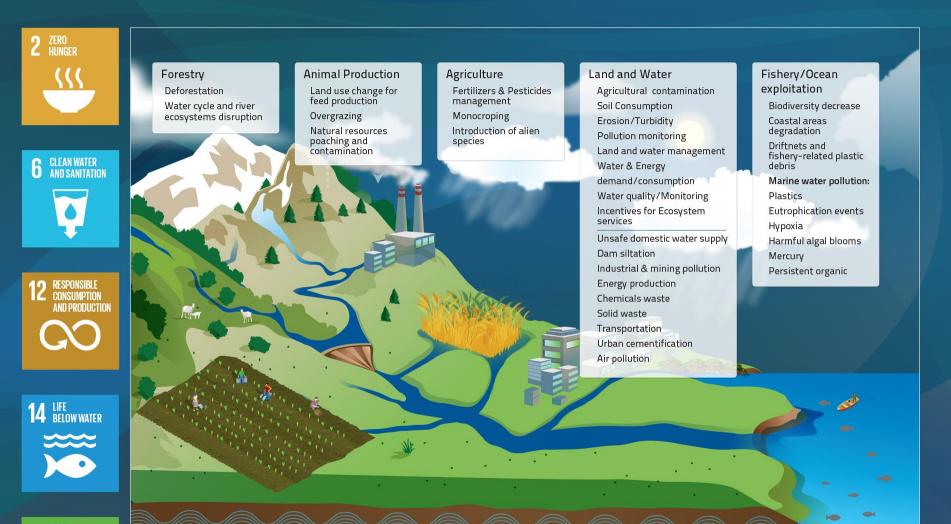


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FAO's contribution to S2S approach

by working with national/international partners at all levels offering its experience/skills:



Contribution to Food Security and Nutrition

- Diversified agriculture production systems to ensure food security, nutrition and safety
- Focusing on agro-ecologically suited production systems
- Preservation and promotion of forest and biodiversity (e.g. forest foods to improve diets)
- Adoption of multisector/interdisciplinary approaches to tackle immediate, underlying & basic causes of malnutrition
- Diverse, healthy and sustainable diets positively contributing to address malnutrition
- Better resource management to improve food environments & food systems (from farm to plate/from sea to plate)
- Improved handling, processing & storage to prevent food & nutrient loss (e.g. aflatoxins)
- Capacity building and knowledge transfer and management





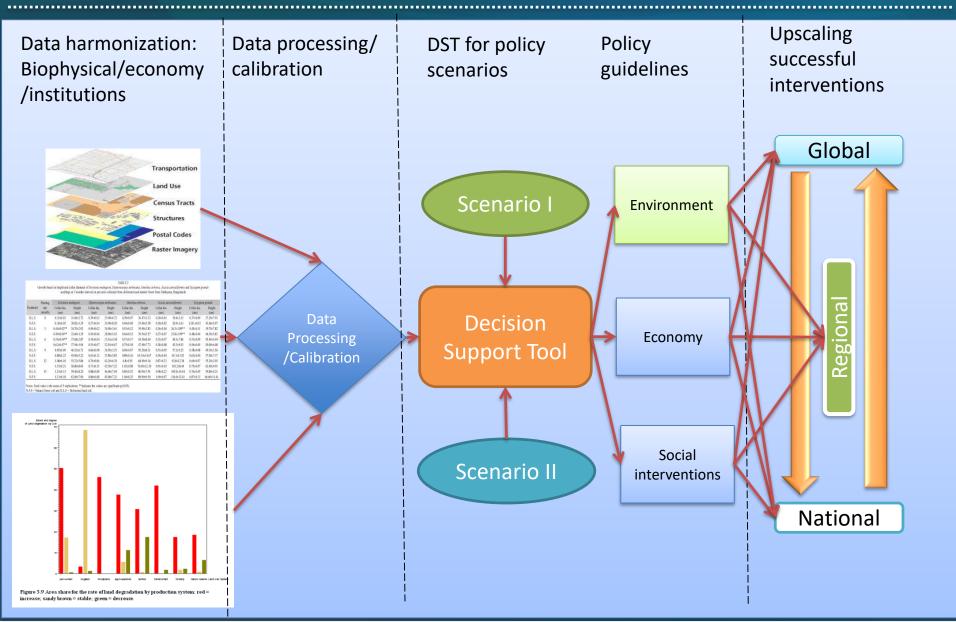
ECUADOR/FAO/GEF - PROMAREN project Interconnected multi-actor planning & implementation by altitude ecosystems

- Full national execution through inter-institutional, CSOs & public/private dialogue
- <u>Integrated watershed mgmt.</u> addressing diversified altitudinal areas/ecosystems with focus on water resources
- Improved food production, access & diet
- erosion control, source protection, chlorinated drinking water supply, improved irrigation water use, rangeland mgmt., efficient crops/milk storing systems, bio horticultural & livestock products, awareness raising/capacity development, etc.
- <u>Diversified & increased household income sources</u>, including through value chain development (milk, alpaca & vicuna wool, certified potato seeds, silos, etc.)
- '<u>Package' compensation scheme for environmental services (CES)</u> (national government incentives, local governments funds, private sector coinvestments, negotiated increase in irrigation & domestic water charges, etc.)
- <u>Enhanced cross-sectoral territorial vision, planning & implementation</u> capacities at Government and users level





Objective: Formalize the S2S approach in a Decision Support Tool (DST)



Towards a global program on Source to Sea





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Thanks

FAO GEF - Jeffrey Griffin & Hernan Gonzalez Fishery- Jokim Kitolelei Forestry - Thomas Hofer & Luca Fe' d'Ostiani Land & Water-Stefan Schlingloff Climate change- Nadia Scialabba Nutrition-Boitshepo Giyose Plant production & protection - Debra Turner & Gerold Wyrwal



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