

# Payment for Ecosystem Services

- Total Value of Global Ecosystems Services
  - USD \$16 – 54 Trillion
- Value of ES lost annually world wide
  - USD \$2-5 Trillion as of 2008
- Impact of Climate Change
  - Agriculture in particular may be impacted
  - Rice production dropping 50% by 2100
  - Reduction of GDPs in SEA countries by 2.2 – 6.7% annually at century's end = loss of 11 times greater than forecasted decline in global GDP

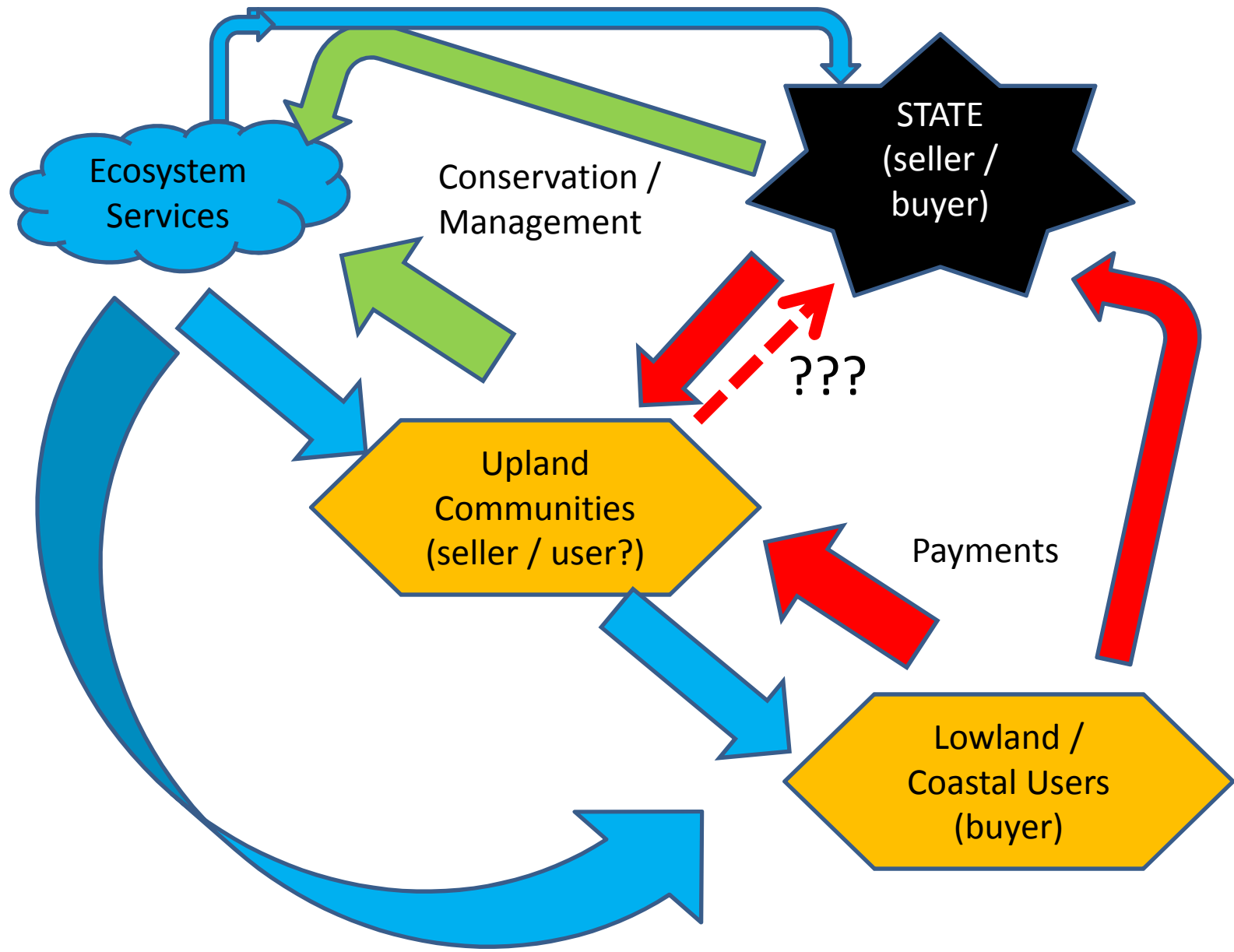
Source: UNESCAP 2009

# Types of Ecosystem Services: Terrestrial

- Provisioning Services
  - Food
  - Freshwater
  - Fuel
  - Fiber
- Regulating Services
  - Climate regulation
  - Flood regulation
  - Water purification

# Types of Ecosystem Services: Terrestrial

- Support Services
  - Nutrient cycling
  - Soil formation
- Cultural Services
  - Aesthetics
  - Spiritual
  - Educational
  - Recreational



Terrestrial Ecosystems

# Samar Island Natural Park

- Provisional Services
  - Food, water, fuel, fiber
- Regulating Services
  - Climate regulation, flood regulation, water purification
- Support Services
  - Nutrient cycling, soil formation, etc
- Cultural Services
  - Aesthetics, spiritual, educational, recreational

# Samar Island Natural Park

- So many goods provided by the Natural Park, thus affecting the services
- Reward / incentive system should have a limit because too many rewards / incentives would lead to degradation
  - Degradation sets in = less resilient to impact of Climate Change
  - Demand is the driver for over exploitation

# Bio-Prospecting in Bataan

- Provisional Services
  - Medicinal plants, Marine organisms
- Cultural Services
  - Spiritual
- Access and Benefit Sharing – a form of PES?
  - Pay for the goods? Or pay for the service?

- PES programmes alone are not the solution to protecting Ecosystem Services, there are other management and conservation strategies that need to complement it – UNESCAP 2009
- If there is no conditionality of payments, then such a payment is more likely intended to facilitate good community relations than to invest in ecosystem services – UNESCAP 2009
- Payments need to be backed up / supported by scientific information

end