



**FORESTS:
A GREEN PATHWAY
FOR HUMAN
DEVELOPMENT**

***Watershed management
and its contribution to
food security and climate
change adaptation***

COFO 21
WORLD FOREST WEEK



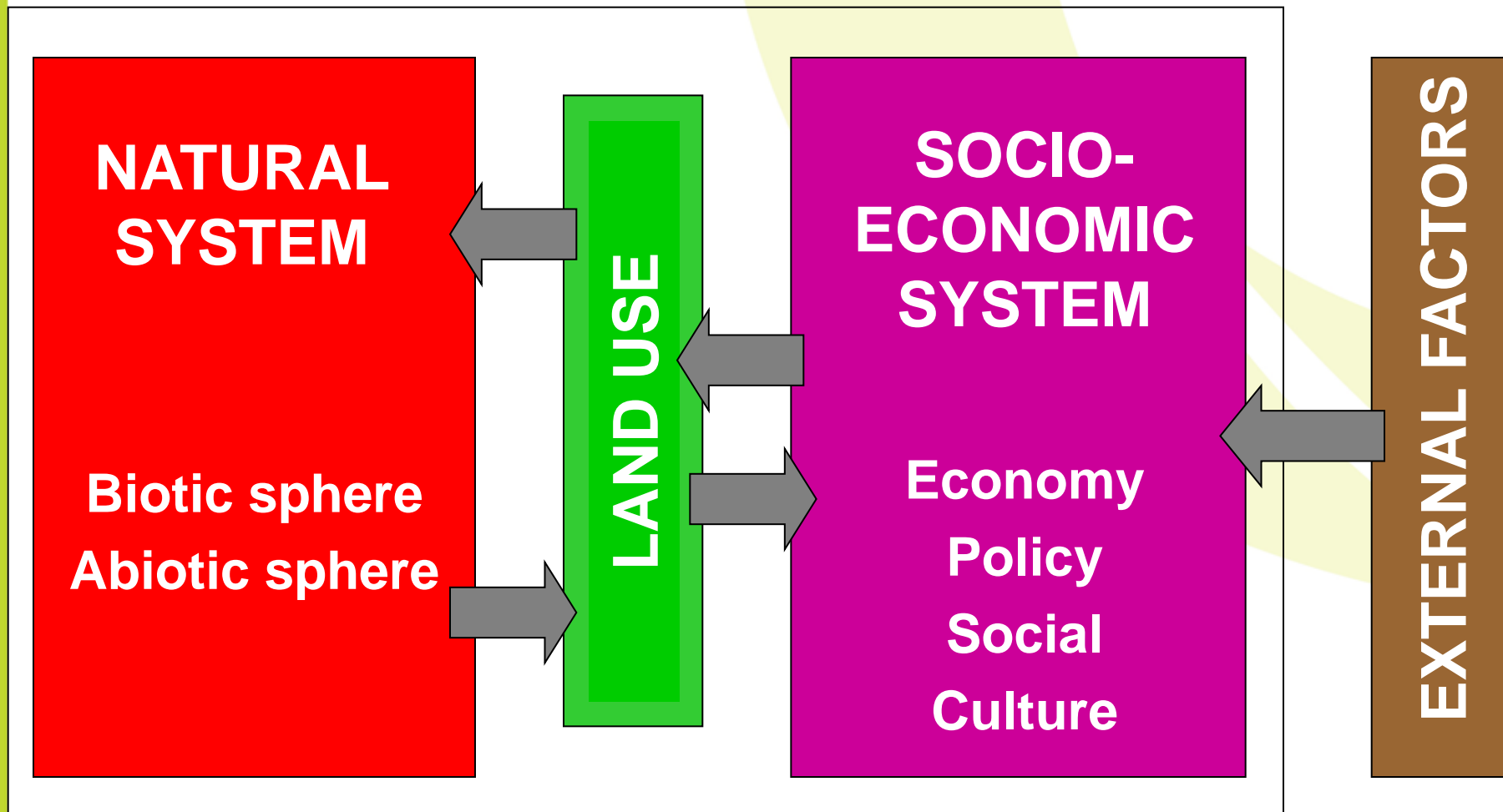
Setting the stage



Watershed services

- Natural resources for local livelihoods
- Freshwater and flow regulation
- Fertilization of lowlands
- Landslide risk mitigation
- Energy
- Minerals and mining
- High quality products
- Recreation

Watershed components





Climate change adaptation

- Sustainable forest management;
 - Soil and water conservation;
 - Adaptive agriculture practices and varieties;
 - Conservation agriculture;
 - Diversification of livelihoods.
- Adaptive land use planning and management

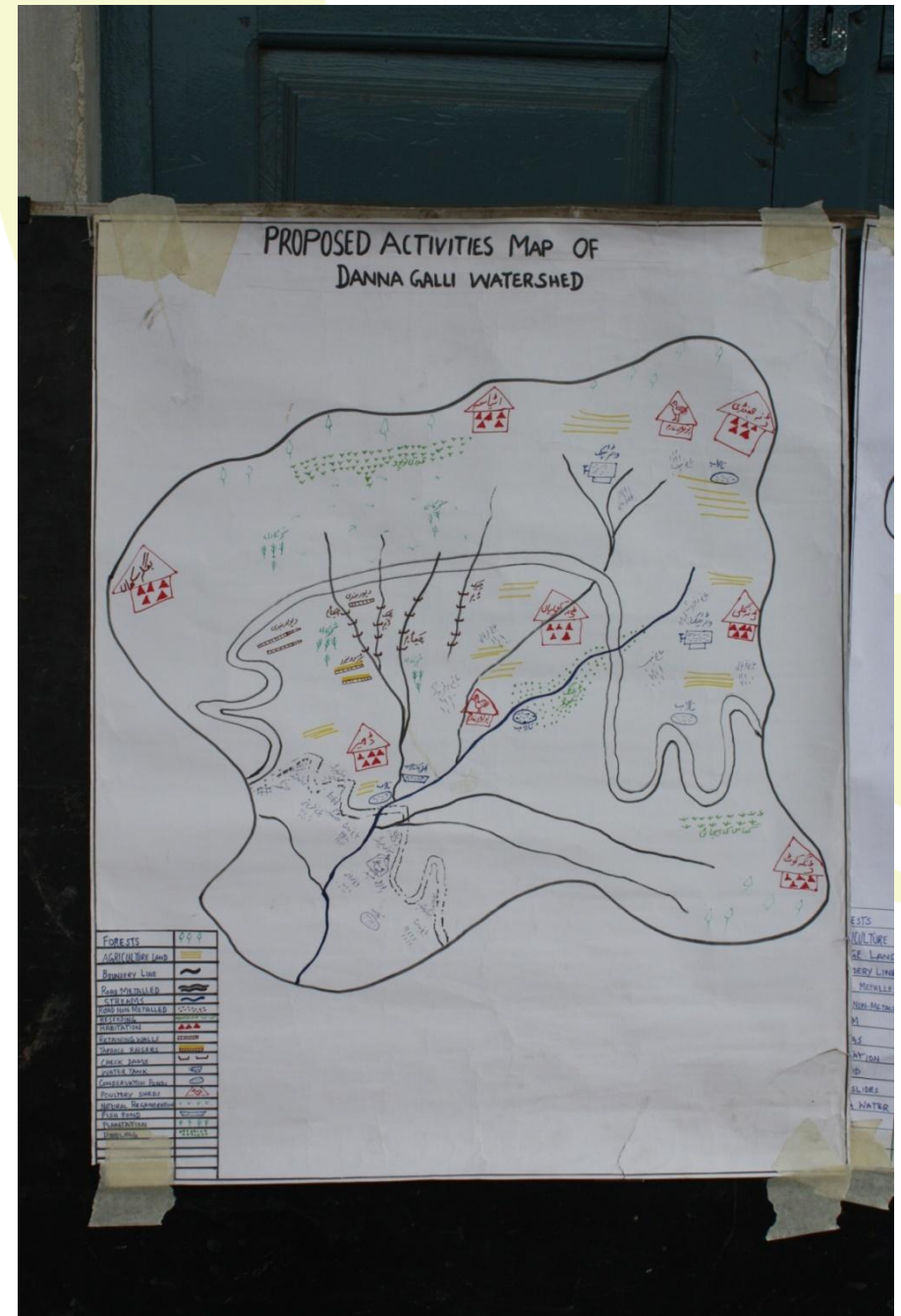
Example Pakistan



Watershed management committee



Watershed management plan



Landslide stabilization



Aforestation, reforestation



Repair of agricultural terraces



Kitchen gardens



Water harvesting



Fish ponds



Climate change adaptation



Mosaic of sustainable landuses



Take home messages

- Watershed management links forests, pastures and agriculture through a landscape approach and contributes to food security
- Forests are an important component of the food security system
- Institutional mechanisms need to be developed which cross thematic and administrative boundaries
- Watershed management is very important in climate change adaptation

Thank you!

