

**VETIVER SYSTEM**

**RURAL AND FARM  
TO MARKET ROADS**

**THE VETIVER NETWORK (INTERNATIONAL)**



# The VETIVER SYSTEM in RURAL ROADS



**Low maintenance, sustainable (lasts 100 years) and can involves local population**



# Culvert bridge in a flood zone. Annually the stream shifts its course



# Same bridge one year later. Road bed & stream bank are stabilized



**After 4 years, the bridge survived 2 cyclones**



# Sustainable protection of small concrete works in dry and wet seasons



# Insures low maintenance of side drains



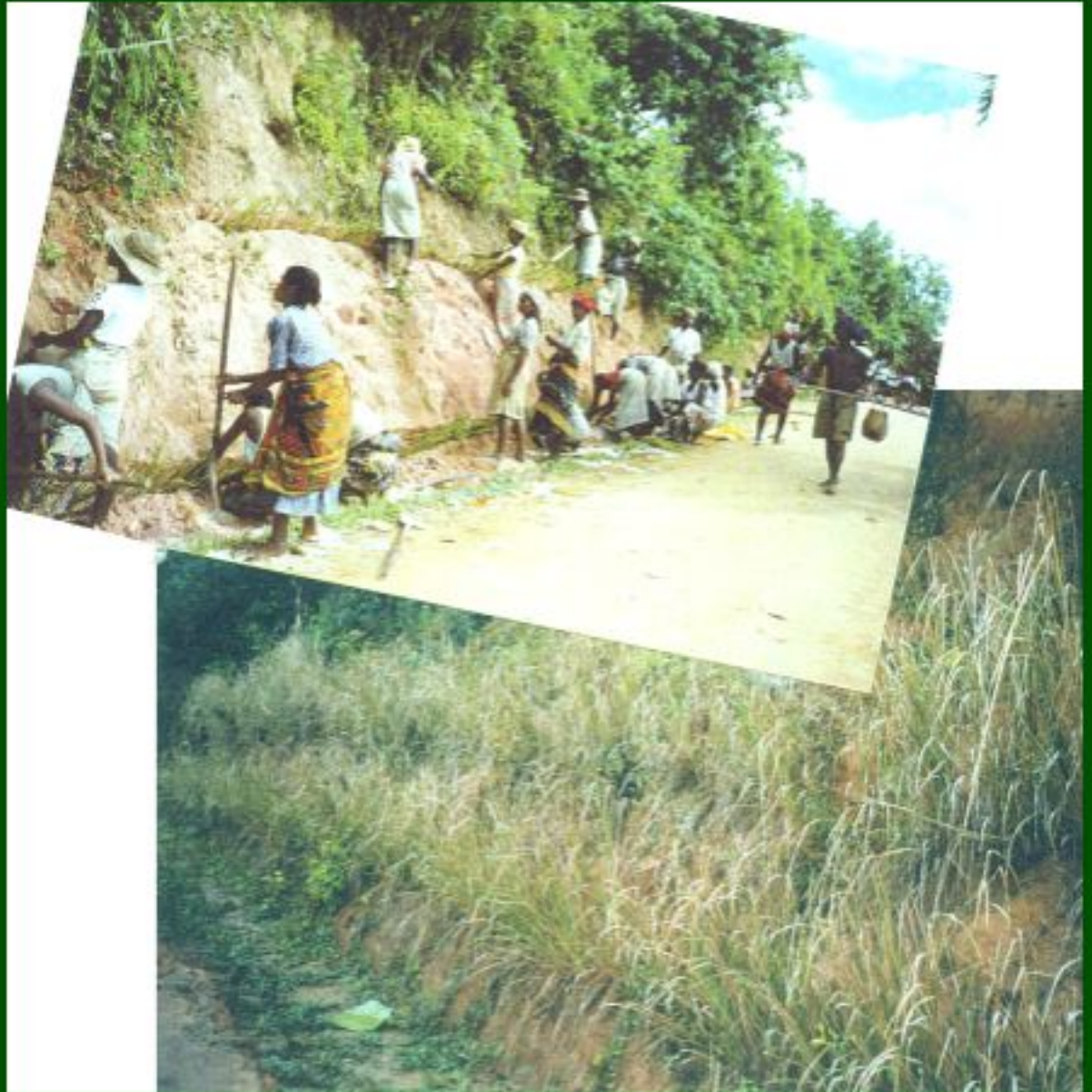
# In high flow areas, gabions are stabilized with vetiver hedges



One yr after



# Community planting of vetiver along steep road side



**one year after**



# **Vetiver rows protecting roadbed leading to submersible bridge**



**Assuring year-round roadway and bridge will remain aligned during flash floods**



# Eliminating gullying at elbow of rural road (Malaysia)



**The rural farm-to-market road was washed out annually until a row of vetiver was planted uphill.**



**Rural road**

**Water force reduced & spread**

