THE VETIVER SYSTEM FOR RURAL ROADS



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



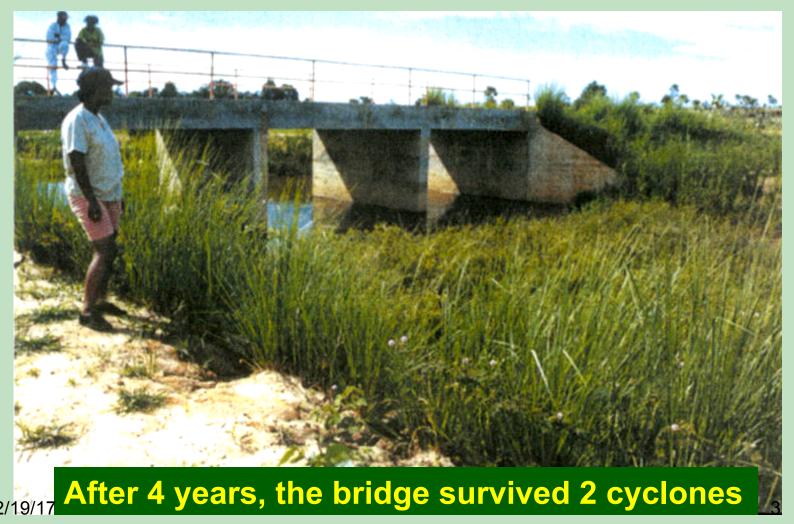
12/19/17

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





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





Sustainable protection of small concrete works in dry and wet seasons







Insures low maintenance of side drains – mimimum sediment.





In high flow areas, gabions are stabilized with vetiver hedges





Community planting of vetiver along steep road side





12/19/17

Vetiver hedgerows protecting roadbed leading to submersible bridge





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



Rural road

Water force reduced & spread



Eliminating gullying at elbow of rural road (Malaysia)



