THE VETIVER SYSTEM FOR RURAL ROADS

Low maintenance, sustainable (lasts 100 years) and can involve 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.

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 – minimum sediment.
In high flow areas, gabions are stabilized with vetiver hedges.
Community planting of vetiver along steep road side

one year after
Vetiver hedgerows protecting roadbed leading to submersible bridge

Assuring year-round roadway and bridge will remain aligned during flash floods
The rural farm-to-market road was washed out annually until a row of vetiver was planted upslope of the road.
Eliminating gullying at elbow of rural road (Malaysia)