

# VETIVER SYSTEM - RAILROAD PROTECTION AND STABILIZATION



**This 200 km railway in eastern Madagascar was devastated by cyclones due to lack of maintenance and cultivation in the right of way. A plan linking the railway, farmers and vetiver was put in place, with a result that the railroad is now stable, operates without slope failure, and the farmers have better incomes**



# VETIVER SYSTEM FOR RAILBED STABILIZATION



**The China Vetiver Network and the China Railways worked together to stabilize this very sandy and unstable fill embankment. Bottom left - three years after planting. Stable railroad track.**



# VETIVER SYSTEM - RAILROAD PROTECTION AND STABILIZATION



**Australia, Queensland. Railroad tunnel entrance, drain underpass and railway batter cut all stabilized with vetiver grass hedgerows at 1/20 of the cost of standard practices.**

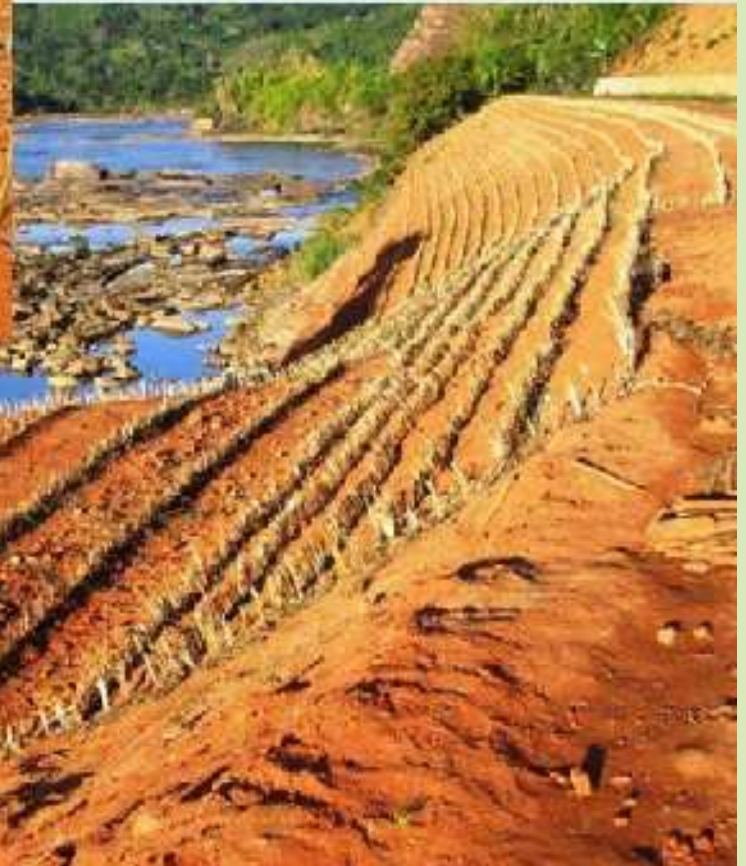


# Australia – Vetiver treatment of railroad batter



# **MADAGASCAR :**

**Railway between  
Tananarive and  
Tamatave (Yoann Coppin)**



**25.000 Vetiver were  
planted in August  
2013, total 2.500m in  
length, with a spacing  
of 0.60m between the  
rows.**

