Roads for Water the unused potential



As part of a 15-month research program In Tigray, Ethiopia, several solutions have been implemented to overcome gully erosion, flooding of farmlands and waterlogging caused by road runoff. The program also brought together road and water practitioners, local governments and roadside communities. After implementing several technologies by different stakeholders (regional bureaus and communities) results are visible:

- •Moisture levels in soils along the road have increased
- •Shallow groundwater levels have increased
- Gully expansion has been halted
- •Reduction of road maintenance costs
- •Reduction in flooding of dwelling houses and farmlands



Road side run-off diverted into ponds



Farmers diverting water from a culvert into a percolation pond



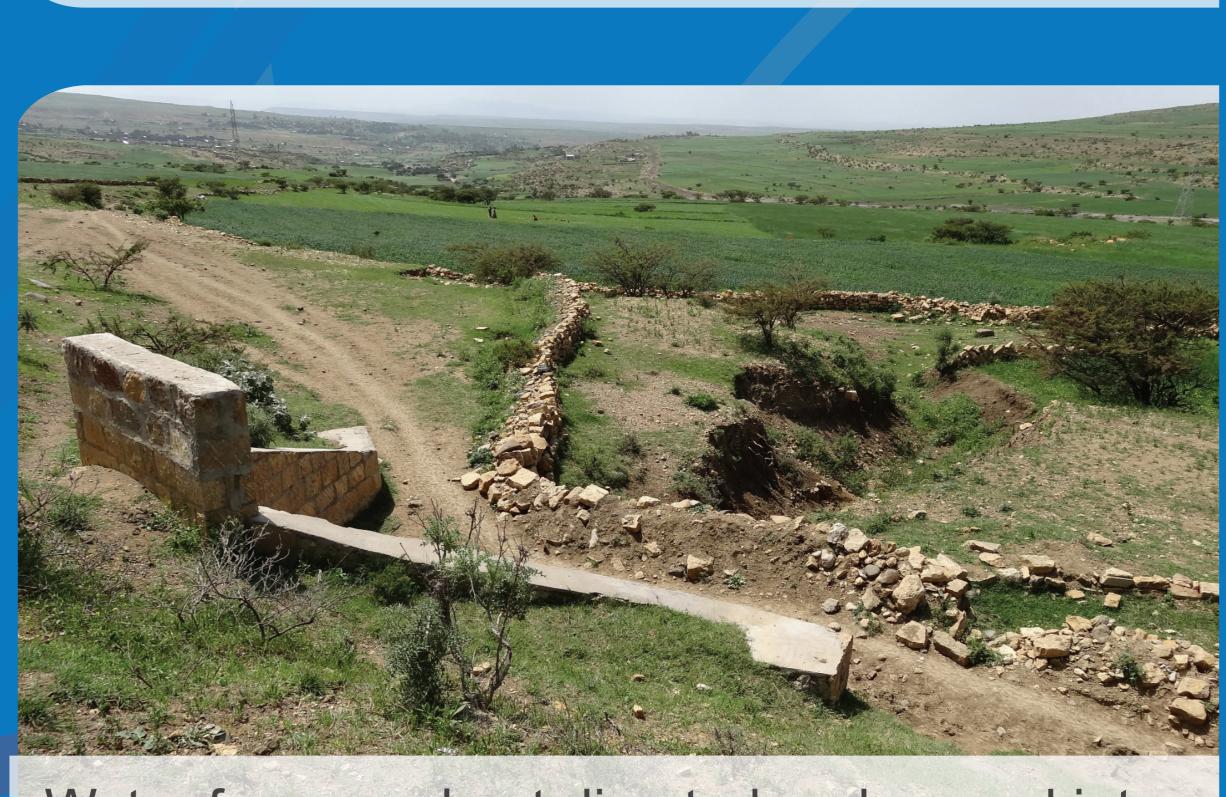
Upstream deep trenches combined with water from a culvert channelled into a borrow pit



Road side run-off channelled into farmlands



Deep trenches at downstream side of roads used to recharge groundwater



Water from a culvert directed and spread into farmlands

www.roadsforwater.org









