

Title	Smart Agriculture Box
Organisation	Department of Agriculture, Rural Development, Land and Environmental Affairs, Mpumalanga Provincial Government
Innovation	The Smart Agriculture Boxes Project is a revolutionary tool designed to address pressing challenges faced by Mpumalanga's agricultural sector and communities. The Smart Agriculture Box is a portable, water efficient, and versatile solution that aims to enhance agricultural productivity, promote sustainable practices, and empower small-scale farmers and vulnerable households. • Water efficiency: With a 28-litre reservoir, the box can self-water for 2-3 weeks. • High crop yields: The box employs a dense planting system, which contributes to high crop yields. • Mobility and relocation: The box can be easily moved by two people providing flexibility in protecting crops from adverse weather conditions. • Sustainable resource management: The box is constructed using recycled plastic that is treated with UV stabilizer, making it durable and able to withstand harsh environmental conditions.
Impact	The project reached more than 8000 vulnerable households, 1000 churches and engaged 4960 participants from various farming programs. The following are areas where the project had positive impact: • Rapid vegetable harvest within 3 weeks of planting demonstrates improved agricultural practices and increased crop yields. • The ability of beneficiaries to feed vulnerable people through the utilisation of harvested vegetables showcases the project's contribution to addressing food security. • The reported economic contributions and income generation activities within communities highlight the project's positive influence on economic empowerment.