

Appropriate-scale mechanization: an essential dimension of Agroecology and Conservation Agriculture in South-East Asia

Saruth Chan, Lytour Lor, Dyna Theng, Leng Vira, Sar Veng, Vuthy Suos, Rotnak Khy, Sokha Khom, Phanidet Tong, Rada Kong, Florent Tivet, Stephane Boulakia, Hoá Tran Quoc, Timothy Rendall, and Alan Hansen

For smallholders engaged in annual cash crop production, agro-ecological and CA alternatives must pair with labor productivity improvement without introducing bottleneck in working calendar.



Commodities like maize and cassava for human consumption and animal feed industry for instance present limited possibilities of price premium for acknowledged agroecological quality. Agroecological-based alternatives must be sufficiently “practicable” to get a chance to substitute current practices based on a wide provision of services for soil tillage and even conventional sowing, like it is the case in West Cambodia.



Roller with cutting discs used to terminate the *Stylosanthes guianensis* before sowing maize, soybean, upland rice and cassava. Conservation Agriculture Training Centre, Cambodia.



Rolling down sunnhemp (*Crotalaria juncea*) and maize sowing in the uplands of Battambang, Cambodia.



Seed broadcaster mounted on motor-bike. Broadcasting mix of cover crops on soybean.