

POSTER

## Conservation Agriculture (CA) has to Move On

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<p><b>Farmers, including organic, are learning how to incorporate un-conventional weed, disease and pest controls with biological agents; non-chemical fertilizers and new bio-inoculants.</b></p>	<p><b>With new sustainable technologies the farm sector is increasing food availability &amp; reducing food hazards. Policymakers need to REWARD these eco-social services (PES).</b></p>
<p><b>New CA practices need to be identified, quantified and valued at local and national level to instigate PES.</b></p>	<p><b>This is the dawn the of innovative biotechnologies, demanding higher skill levels for labour &amp; special consultants.</b></p>
<p><b>Innovative inoculants, for nutrient availability &amp; soil disease control.</b></p> <p><b>Field scouting with drones for regular or spot spray at low dosage rates; Controlled traffic farming, less compaction, better yields, less fuel use; Biological controls of pests and diseases, IPM; Mixed cover crops with different functions; innovative inoculants; laser robotics, electric shocks &amp; steam for weed control; Benchmarking of indicators to improve factor efficiency.</b></p> <p><b>Rock meal to substitute chemical fertilizers, Precision Agriculture with GPS &amp; variable rate application.</b></p>	<p><b>Need to widen CA scope to include ALL sustainable technologies This requires a list of approved technologies and a host organization e.g. FAO, ECAF or other.</b></p> <p><b>The challenge from Regenerative Agriculture (RA) can be resolved by a scientific definition as a CA base with approved add-ons of CA umbrella sustainable technologies.</b></p> <p><b>The Farmer Responsibility Index shows ever-reducing chemical hazards.</b></p> <p><b>Policymakers need to take this into account in payments for environmental services (PES)</b></p>
<p><b>PES for new technologies with CA/ZT will improve profits &amp; stimulate sustainability.</b></p>	<p><b>To the contrary, governments will be responsible for biosphere degradation.</b></p>
<p><b>CONCLUSION: The success and longevity, of the ZT/CA movement, will depend on incorporation and promotion of new and sustainable technologies in an umbrella concept – the farmer needs a broader concept for CA. payment of socio-environmental services (PES) is the key (Declaration of Madrid. 2001).</b></p>	