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The where, who and what of sustainable cacao for livelihood, life and land

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Statement of the Problem: Weaving cacao agriz-zones and climate change, together with the politics of farmer adaption and family health, this research brings an interdisciplinary (plant pathology, public health and business) approach to upskill farmers in a way that is truly sustainable for their land, wealth and health directly citing latest research from case studies in Bougainville, and Sulawesi. Where – The biggest contribution to carbon footprint of a chocolate bar comes from the farming, which echoes IPCC reports tracing agriculture as responsible for up to 29% of green-house gas emissions. The need to collaborate between science and farming for a new way forward in conservation agriculture is called for and there is opportunity for agri-zone specific site-level climate adaption planning and training with farming. Who - Addressing a farmer's pain-points and their ability to make a sustainable living income is vital and although farmers have been very adaptive to earth's evolutions in the past, there is evidence to suggest that there is an unprecedented rate of change, as well as reducing cacao yields.

Methodology & Theoretical Orientation: Literature review and case studies from latest interventions in Bougainville Papua New Guinea, and Sulawesi Indonesia.

Findings: Conservation agriculture in cacao has four surprising opportunities to meet these challenges and resolve other challenges at the same time. 1) Agroforestry which from diversity creates new income sources, as well as improved soil nutrition and lower carbon footprint. 2) Unique projects have shown how cacao can contribute to post-conflict resolution and 3) contribute to the measures outlined in the Sendai Framework for risk reduction.

Conclusion & Significance: As cacao yield decreases, yet financial investments increase, cacao farmer training needs to have impact-criteria meeting health, wealth and land care objectives for livelihood, land, life and learning. These key criteria are outlined in the result.