III. FRIDAY, 31 AUGUST 2018

A. PLENARY SESSIONS

PLENARY SESSION H

PIH-01

Intensification and Climate Change Mitigation: What are the Incentives for Crop-Livestock Farmers?

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Abstract: Feeding the future world population will require undoubtedly intensification of agricultural production. The urgency of intensifying production is motivated by different pressing needs across continents but all are related to the demand for good quality diets, mitigating GHG emissions from inefficient crop and livestock production and to improve the livelihoods of millions of poor farmers worldwide. In particular, the African continent represents the biggest challenge of all. With a booming human population, very poor agricultural productivity, alarming poverty rates and the current migration waves, intensifying production in Sub-Saharan Africa (SSA) is everyone’s concern. There is plenty of scope to improve productivity in SSA by implementing relatively simple crop and livestock management practices. Many of these changes require and inflow of inputs, of knowledge but above all stability of markets. Studies conducted in East Africa show how dedicated and intensive production of feed crops for dairy cows can improve farm profitability, the production of the farm, direct GHG emissions and contribute to spare forests and therefore reducing the absolute contribution of agriculture to the overall sector’s GHG emissions. Our studies in East Africa show that climate policies could clearly support food production and poverty alleviation objectives, whereas truly contributing to mitigation. We see this as an opportunity for poor farmers to access climate finance, and for carbon financial mechanisms to support food security in Africa. In this study we show clear examples of attractive investments for small-scale crop-livestock farmers and for farming business to support East Africa food production.

Keywords: greenhouse gas emissions, fertilizers, maize, silage, milk, nutrients, soils
INNOVATIVE CROPPING AND FARMING SYSTEMS FOR HIGH QUALITY FOOD PRODUCTION SYSTEMS

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