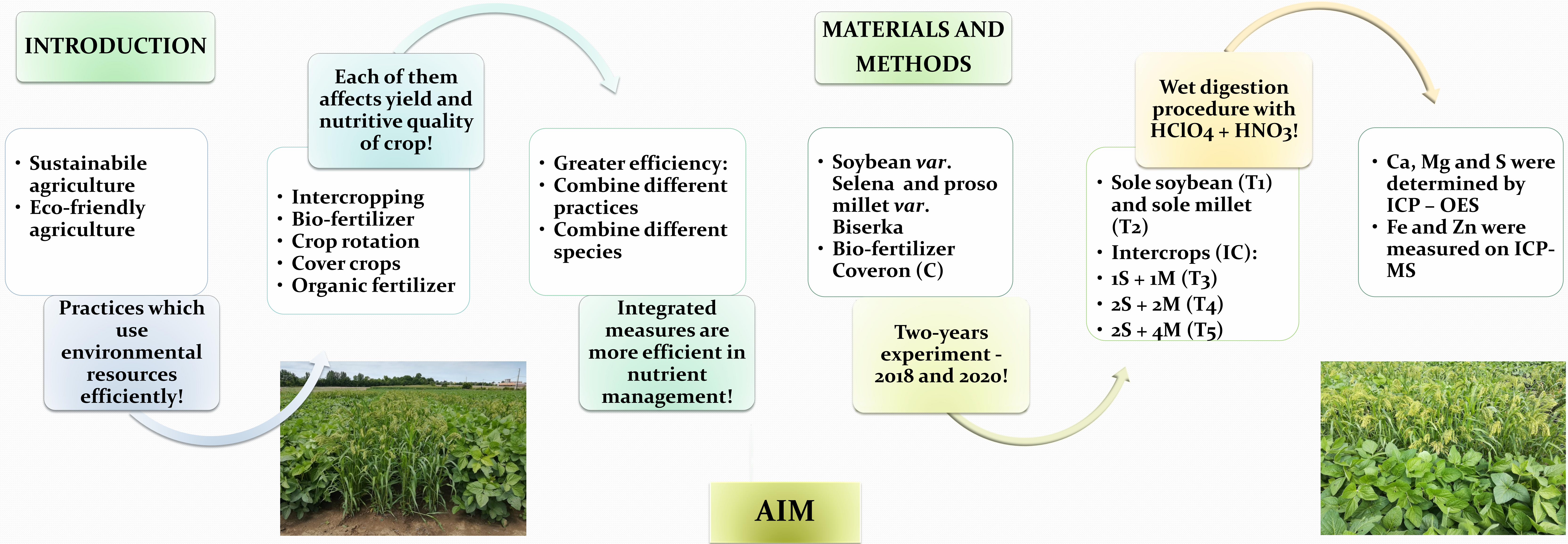


EFFECT OF SOYBEAN/PROSO MILLET INTERCROPPING COMBINED WITH BIO-FERTILIZER ON ACCUMULATION OF ESSENTIAL ELEMENTS IN GRAIN



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Examining the integrated influence of intercropping and bio-fertilizer, as sustainable practices, on the accumulation of essential elements in grain of soybean and proso millet!

MACRO-ELEMENTS

IC didn't show great influence while C had significant impact on accumulation of S, reducing its concentration in soybean grain. Concerning proso millet, similar situation was observed and great influence was expressed for C, who had positive impact on Ca accumulation. When mutual influence was considered, T₄ + C significantly increased Ca value.

MICRO-ELEMENTS

Regarding to soybean, IC was reflected favorably on Fe accumulation, while T₅ + C significantly increased its value when interaction was considered. In terms of millet, IC had positive influence on Fe accumulation and simultaneously reduced Zn concentration. C increased concentrations of both elements. Combinations T₄ + C and T₂ + C had positive effect on Fe and Zn values, respectively.

CONCLUSIONS

- Micro-elements were more affected by the influence of IC and C!
- Positive impact of integrated and sustainable agriculture practices on accumulation of essential elements was observed, thus providing greater nutritional value of soybean and millet grains!

