

Article title	Innovative Fertilization and Application Technologies to Increase Yield and Nutritional Value of Crops Under Field and Farm Conditions in Africa
Authors	Bindraban, Prem S.
Abstract	<p>The African continent is in dire need of Innovative Fertilizers and Application Technologies (IFAT) with targeted combinations of macro and micronutrients to meet site and crop specific needs to increase crop yield and meet growing food demand. IFAT will also increase the nutritional content of crop produced to fight hidden hunger, such as by reducing phytate content and simultaneously increasing zinc and iron content that improves their bio-availability to humans. Moreover, IFAT improves plant health to mitigate the impact of changing climate and enhance the resilience of the production system.</p> <p>Obviously, IFAT are not isolated technical solutions but must be embedded in societal, political, industrial systems that calls for a transformation of the food and fertilizer sector to reach impact at scale. Hence, widespread adoption must be driven by evidence-based agro-technical and socio-economic perspectives embedded in multi-stakeholder processes to create conducive conditions for adoption. This systematic research and implementation approach will be highlighted in the presentation. It will be illustrated by experiences from development programs implemented by the Research and Development Organization IFDC, and more specifically with an on-going program on “Fertilizer Research and Responsible Implementation” in Ghana.</p>
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