

SUSTAINABILITY OF IPM STRATEGIES IN THE CURRENT ENVIRONMENT OF PEST RESURGENCE

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Abstract Sustainability is the survival goal of humanity and IPM focuses on meeting our present day needs, without compromising the ability of Future generations to meet their needs. In our modern times of technological advancements and innovations has also seen resurgence of pest infestations that are having direct & indirect impact on human health & sustenance of human properties. This era is witnessing pest emergence in human occupied spaces utilising different situations and property conditions to advance their development and ingress, making it challenging for global IPM professionals to manage. Further, the considerations due to heightened global safety concerns and compliances compounded by challenges of modern innovative property designs, operational conditions and varying external conditions, are compelling IPM professionals to think out of the box to implement strategies using pest biology information, but with modifications and customisation of solutions beyond conventional pest management science. Applied entomology science today faces challenges sui generis, such as: Innovative property design leading to pest ingress and treatment difficulties, Pesticide resistance, 24/7 operational properties posing difficulties for delivery of services, Materials used in interiors causing pest related situations, Availability of affected premises for treatments particularly commercial facilities, Bed bugs presence in commercial, healthcare, educational and sensitive properties, Global citizen - open trade, travel and connectivity across the globe related pest considerations, Managing compliances, food safety standards, OHSAS despite client related limitations, Managing expectations on IPM services and creating awareness on its practical applied science. Comprehensive study required on practical data of pest related human health impact, operational and economic loss and relating it with sustainability goals. These challenges demand a holistic approach and stakeholder collaboration amongst the IPM fraternity - Academia, Businesses, Authorities to develop a modern integrated strategy to deals with pests while safeguarding people, property and environment.

Key words Sustainability, strategies, resurgence, public health, applied entomology