

5. Conclusions The present study revealed that environmental enrichment through the provision of carcass and meat quality of broiler chickens. Heat stress adversely affected most of the of cooled multifunctional platforms did not compromise the production performance or functionality separately with respect to animal welfare, performance, and environmental lowered mortality rates under heat–stress conditions and reduced the risk of breast muscle myopathies, likely due to the cooling functionality. Given these promising results, performance variables except the feed conversion ratio. Access to these elevated platforms further research should focus on developing the platform prototype to be more suitable for commercial uptake. Additional studies are needed to evaluate the effects of these impact. For instance, the optimal temperature setting for water cooling, depending on the platforms under commercial conditions, including the assessment and optimisation of each age of the birds and the ambient temperature, need to be investigated.