Horizon Scanning 2023

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Changes in methods of food production and new food technologies

Direct challenges from climate change:

Challenge	Possible actions
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Novel Foods

- 1. The novel foods sector is growing rapidly, which has in part been driven by a sustainability agenda triggered by increased awareness of climate change as well as, in the UK, by factors such as EU Exit. Novel foods such as alternative proteins may carry a lower risk of some hazards typically considered for meat, such as *Salmonella* or *Campylobacter*. However, it is not always clear what new or increased risk may be associated with such novel foods or novel processes. Robust processes for approval will mitigate this challenge, but novel foods approved in other regions by local competent authorities may be sold illegally and promoted via social media. Furthermore, new business entrants with less experience of safe food production may be less aware of safety measures they need to comply with.
- The FSA should consider the follo evidence through commissioned r assessment and/or review of risk
- 1.1 Ways to generate evidence to sup assessment and associated regular food production processes e.g., con plant-based foods.
- 1.2 Take action to maintain and impro ACMSF and ACNFP to identify co microbiological safety of dossiers novel foods and processes.
- 1.3 Ensure that exposure data and hat foods and processes is considered pathogen growth.
- 1.4 Consider the potential microbiolog products that are produced using
- 1.5 Improve data capture during outborn processes, not just food type.

Manufacturer regulation

9.6 FSA should consider developr manufacturers on validation for ne current guidance if already in place

New Farming/Fertilisation Methods

- 10 Various changes in farming practices to cope with increasing challenges associated with climate change may affect the microbiological safety of food. For example, the increased use of biodigesters and resulting impact on microbiological safety of wastewater and fertilization. Similarly, the development of vertical farming may be of concern due to the closed loop nature of its operation and especially with the recycling of irrigation water (e.g., Listeria risk). Also, the impact on need, and availability, of artificial fertilizers is driving an increased use of natural fertilizers. This may result in more animal waste runoff on agricultural crops and water during flooding. The use of animal by-products for use in animal feeds is also a concern.
- 10.1 FSA should consider estab with OGDs to learn about protreatment and commission wo impact on food safety.
- 10.2 The FSA should consider of for indoor and vertical farming recommendations for proactive
- 10.3 The FSA should consider of stakeholder exercise to map processing farming