

Appendix 8

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Table 8. Summary of responses: What developments are underway that have potential to roll out in the next ten years? (Outside of your sector)

Category	Academia	Manufacturing	Farmers & veterinary surgeon	Other
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Energy

- Electrical baking, remove dependency on steam use
- Possibly lower power consumption milling but given that wheat and corn milling were the first processes to use external power, (Roman water mills) and grain must be processed to get the nutrition this may be difficult.
- Green energy
- Long-distance electricity transmission (HVDC subsea cables) are likely to become very significant in a global clean electricity grid
- Hydrogen as an energy source
- Electric and hydrogen vehicles

Technology

- Robotics and sensing systems

Waste

- Recycling of nutrients and further use of agricultural waste
- Food manufacture from former food waste streams
- Waste valorisation (to circular economy approaches)

Farming methods

- Dietary additives to reduce enteric fermentation in ruminants
 - but only during the period when fed concentrates
- Nitrification inhibitors for application with nitrogen fertilizer.
- New crops and cultivars
- Cultured meat, fish and milk

Biodiversity measures

- Biodiversity measures at scales not previously imagined