The Food Standards Agency
An Independent Non-Ministerial Department

- From **farm to fork** the work of the FSA, affects **everyone** in the UK, daily.

  - **Food we can trust**
  - **Food is what it says it is**
  - **Able to make an informed choice**
  - **Access to a healthy diet**

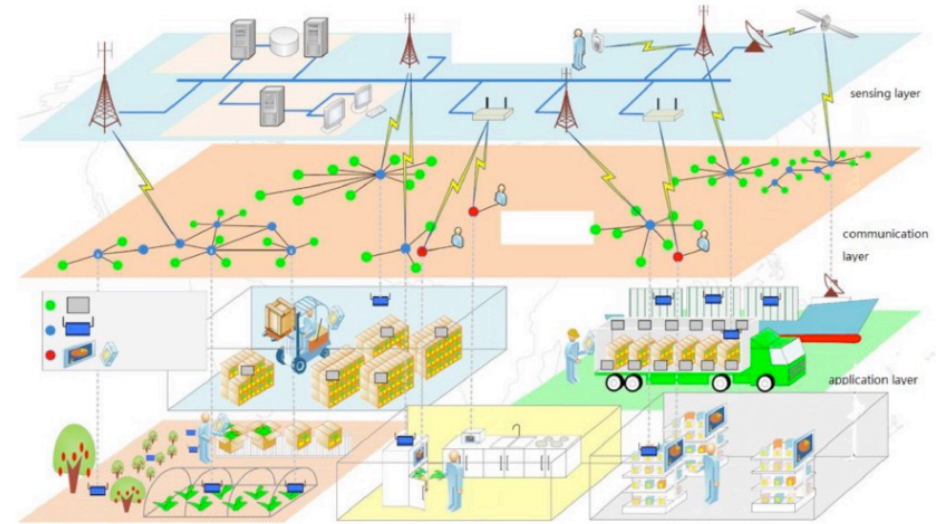- **Chief Scientific Adviser role; Independent advice and challenge**

The Challenge- FSA Priorities and the Role of Data

- **3 high-level priorities**;

  - **'Regulating our Future'**
  - **EU Exit**
  - **Doing the day job well**

Internet of Things; Interconnected Devices of Various Types

- How we **interact** with the world around us, including the food system, is changing.

- 2016- Summary of a research literature survey to capture the landscape of the role of the **internet of things (IoT)** in the safety and security of food.

http://www.itutility.ac.uk/files/2016/07/Internet-of-Food-Things-FSA-IoT-and-Food-Safety-v1.0a.pdf
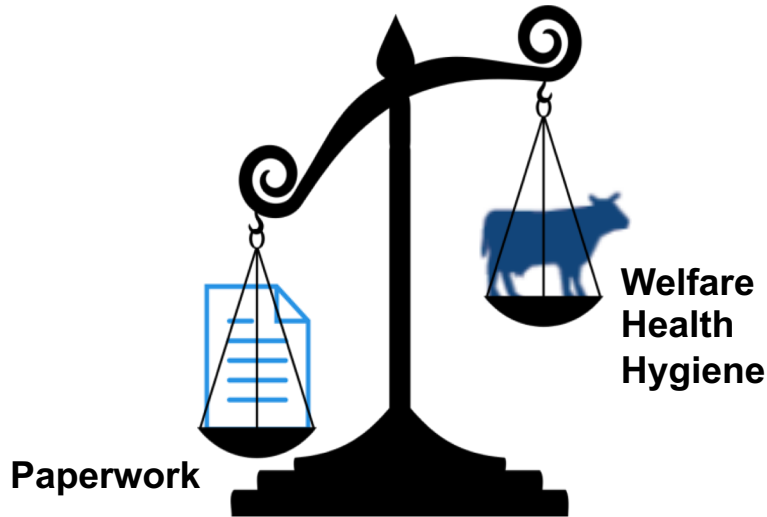
Improved Official Controls for Meat Industry- Blockchain

- More efficient and effective approach to **collection and communication** of inspection results

Farmer moves animal to FBO premise

Inspect Carcase

View inspection results- feedback to producer

Upload inspection findings for FSA vet approval

View inspection results- surveillance/assurance

All network members have a copy of the findings in their ledger

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Improved Official Controls for Meat Industry-Blockchain

Welfare
Health
Hygiene

Paperwork

- **Rebalancing effort**
- **Adding value**

Surveillance

- Meat mass balance
- Hackathon 18-19th Sept
- Can we use data to identify shortages and surplus in the [pork] supply chain?

Smart Sensor Trial

- **Three-month trial** saw five businesses in the Cambridge area replace their paper-based food safety management processes with **Checkit**'s digital solution; **Data exchange between FBOs, LAs & FSA**

- Daily compliance checks recorded via wireless sensors and the results automatically uploaded to the cloud for storage (digitally time stamped and tamper-proof).
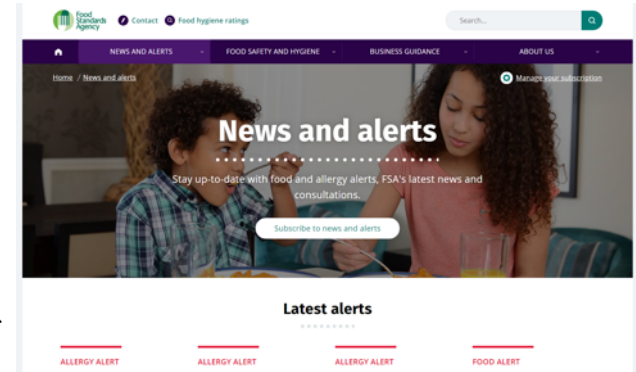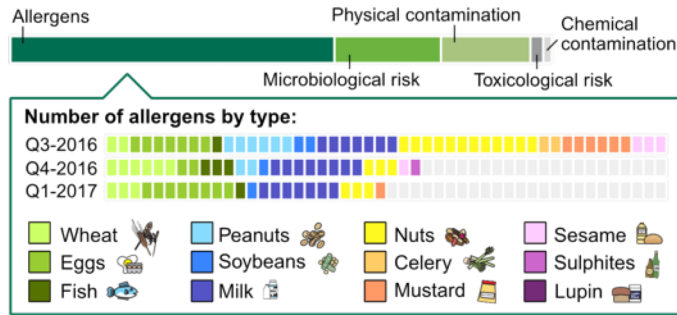
Smart Sensor Trial

- Through the cloud-based control centre, users can access records remotely, receive alerts on any anomalies and track performance in **real-time**.

  – Help inform the decision making approach for auditors and inspectors (**better regulatory judgements**)

  – **Increase efficiency** of food safety inspections by **concentrating on high risk businesses**

  – Support businesses with **regulated assurance** of food safety

  – **Improved transparency** between businesses and regulator- **Trust in a robust system**

  – **Optimise public protection**

Allergy Alerts

New allergy alerts service, powered by **APIs**, to get information about food recalls and withdrawals to businesses and consumers quicker.

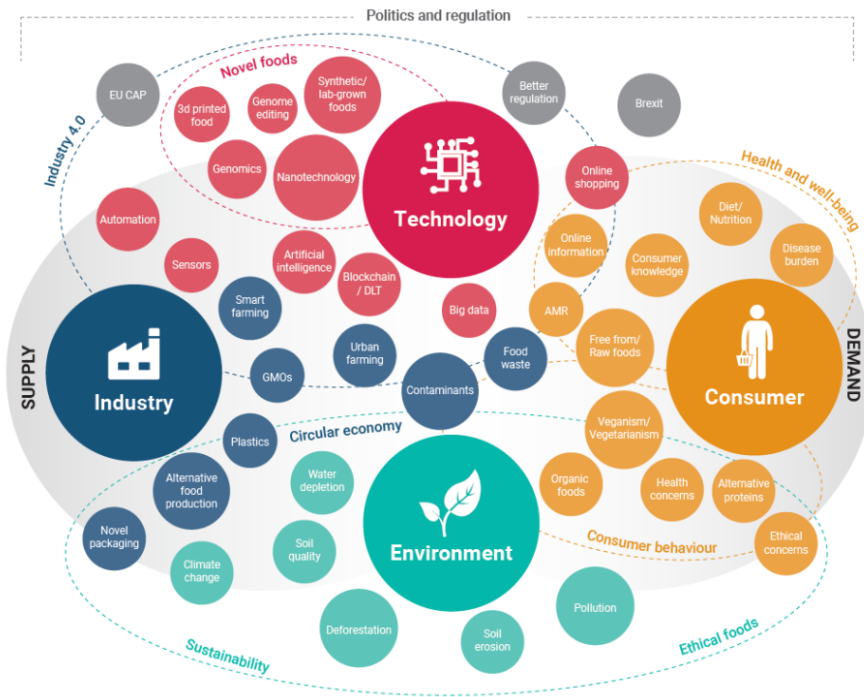http://data.food.gov.uk/food-alerts/ui/reference

The FSA Science Council

https://science-council.food.gov.uk/

- **Working Group 3-** Horizon Scanning; risk and opportunities in the food system till 2030

- **Working Group 4-** Data usage and Digital Technology

The FSA Science Council- Data Governance and Standards

- Over the next 2-5 years, what are likely to be the emerging data tools, techniques and technologies which could have the greatest impact on the FSA's mission?

- What are key implications for the FSA of advancements in open data, data sharing and how should the Agency go about leveraging them?

- How can the FSA ensure that it adopts the right controls and governance around data?

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Trust and Trustworthiness

Crucial to our ability to protect the public.

70%
trust the FSA
to do its job

75%
trust us to
be truthful

- https://www.food.gov.uk/about-us/our-board
- https://www.food.gov.uk/sites/default/files/media/document/our-food-future-full-report.pdf
- https://acss.food.gov.uk/

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FSA Open Data Policy

- 'Open by Default' since January 2016

- Maintain approximately 70% of all our data assets as open data

- Food Hygiene Rating Scheme the most accessed dataset;
  - Provision of ratings on a range of 3rd party websites.
  - Supporting some unusual innovations including helping emergency services in the West Midlands better plan, model and respond to incidents.

https://data.food.gov.uk/catalog

RoF Principles

- Our regulatory system should make it **as easy as possible** for everyone to comply with the standards that we have all come to expect

- **Regulated self-assurance and earned recognition**

- **Target Operating Model;** offer more options to businesses rather than a 'one size fits all' approach

- **Setting businesses up for success**

Internet of
Food Things
Network Plus

- **Comes at a time of huge horizontal and vertical changes to the food supply system**

- **Opportunity for IoFT impact vast**

FSA ⇄ IoFT

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Thank You

Prof. Guy Poppy