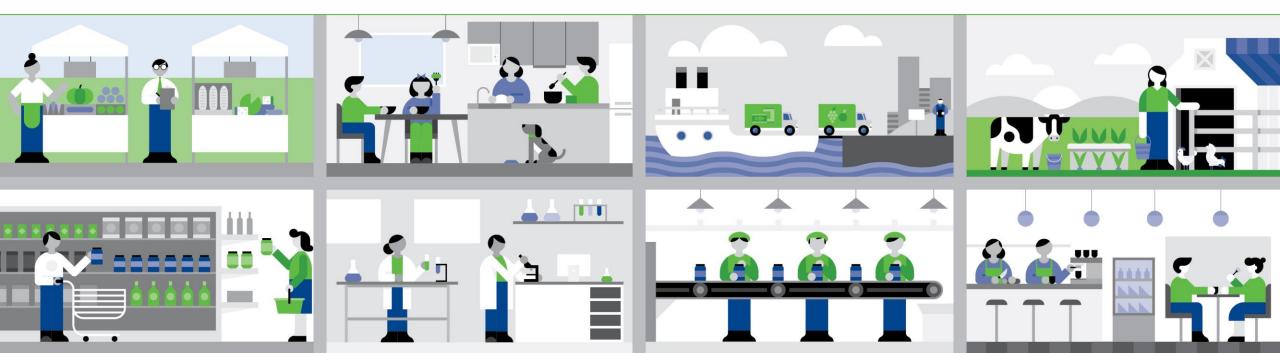


## Food and the Circular Economy: A Regulatory Perspective

Presented by Dr. Mary Lenahan, Acting Senior Technical Executive, Biological Safety

Red Room, UCD Student Centre 30<sup>th</sup> March 2023





#### **Presentation overview**

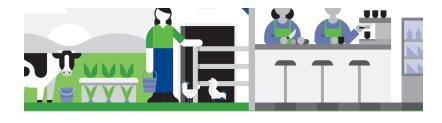
- Who is the FSAI?
- The EU Farm to Fork (F2F) strategy
- Role of food legislation in sustainable food systems
- Food Safety Management System
- FSAI resources





## Who is FSAI?

- The Food Safety Authority of Ireland (FSAI) was established under the Food Safety Authority of Ireland Act, 1998
- Statutory, independent and science-based body
- National responsibility for co-ordinating the enforcement of food safety legislation in Ireland through service contracts with official agencies
- Manage risks in the food chain
- Respond effectively to any national or international food incident or crisis
- Ensure the safety, integrity and authenticity of the food chain
- Detect and prevent breaches of food law
- Taking action to protect consumers



www.fsai.ie







## Safe and trustworthy food for everyone



## We protect consumers and raise compliance through partnership, science and food law enforcement



### 2021 in FSAI in numbers.....



## **European Union (EU) Farm to Fork (F2F) Strategy**

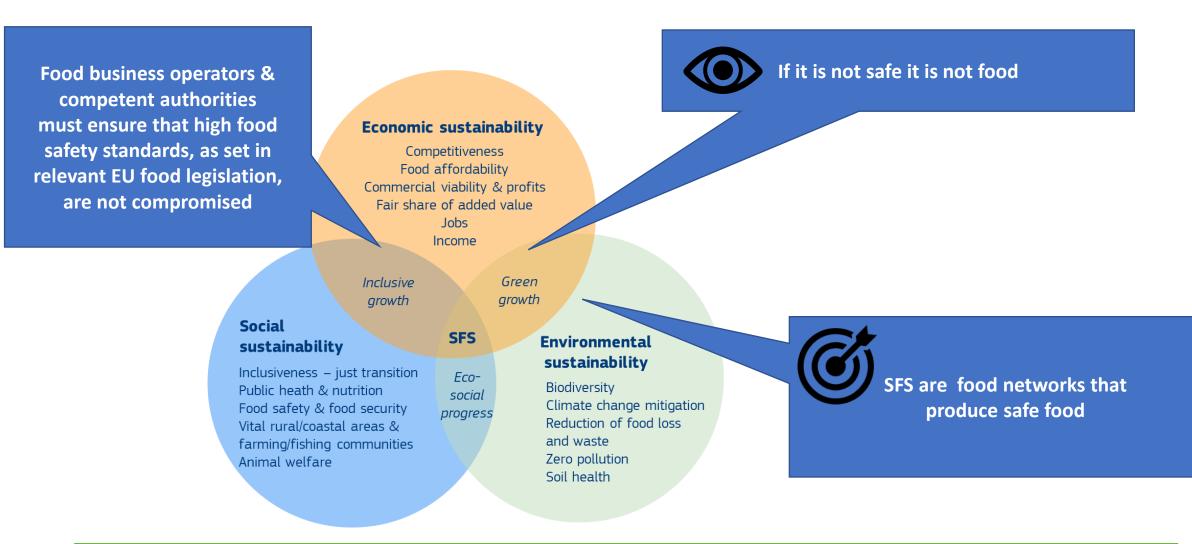


- Published in May 2020 for a fair, healthy and environmentally-friendly food system
- F2F at heart of the **EU Green Deal** which sets out how to make Europe the first climate-neutral continent by 2050
- Addresses challenges of sustainable food systems
- Will enable the transition to a sustainable EU food system that safeguards food security and ensures access to healthy diets sourced from a healthy planet

<u>f2f\_action-plan\_2020\_strategy-info\_en.pdf (europa.eu)</u>



# Role of food legislation in sustainable food systems (SFS)



ood Safety

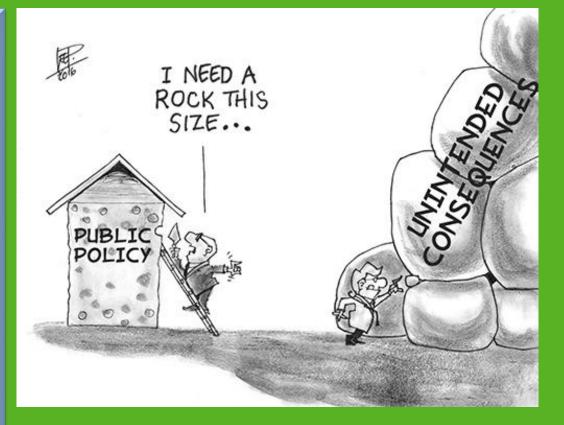


Ensure food safety risks are identified early and proactively addressed.....

### **The Law of Unintended Consequences**

An adage or idiomatic warning that an intervention in a complex system tends to create unanticipated and often undesirable outcomes.

**Robert K. Merton, American Sociologist** 



The Dilemma of Unintended Consequences of Public Policy on Health Care MedAxiom

## Key driver for shaping food safety in Europe



Bovine Spongiform Encephalopathy (BSE) Crisis ~1980-2000

1989 – first cases (n=15) in Ireland



- Attacks the brain and central nervous system of cattle and eventually causes death
- Spread by cattle eating feed that contained contaminated Meat and Bone Meal (MBM)
- New variant Creutzfeldt-Jakob Disease (vCJD) - rare & fatal form of dementia
- Long incubation period (4-6 yrs)
- MBM was incorporated into cattle feed until it was banned (1990 – 2001)

## General Principles of Food Law: Regulation (EC) No 178 of 2002

- The **central** piece of European food and feed law
- Establishes **definitions** relevant to all subsequent legislation
- Contains general **obligations** for
  - Food and feed businesses
  - Competent authorities





## **Key Articles of Reg 178/2002**

Article	Topic addressed				
Article 2 & 3	Definitions				
Article 6	Risk analysis				
Article 7	Precautionary principle				
Article 8	Protection of consumer interests				
Article 9 & 10	Transparency – public consultation & information				
Article 11 & 12	Import & Export				
Article 14	Food Safety Requirements ('Unsafe Food')				
Article 16	Presentation of food (Misleading Labels/Claims etc)				
Article 17	General Responsibilities (compliance and enforcement)				
Article 18	Traceability				
Article 19	Withdrawal and Notification				



## **Unsafe food (Article 14)**

Food shall not be placed on the market if it is unsafe:

Unsafe food is defined as food which is:

Injurious to health or Unfit for human consumption



## Article 14 of Regulation 178/2002 - Unsafe food

## In determining if food is unsafe, consideration to be given to:

- > Normal conditions of use by the consumer
- Stage of production, processing and distribution

➢ Information provided to the consumer (including labelling or other information generally available) concerning the avoidance of specific health effects from a particular food or category of foods (e.g. allergens)

## How to control the risk of unsafe food?





- Legal requirement (Regulation 852/2004) for all food businesses to have a food safety management system (FSMS) based on the principles of HACCP
- All food business must have in place prerequisite programmes (PRPs)
- Good hygiene/manufacturing practices (GHP/GMP) necessary to maintain a hygienic environment
- Hazard Analysis and Critical Control Point (HACCP) to identify and control hazards (i.e. microbiological, chemical or physical) that could pose a danger to the preparation of safe food

**The 7 HACCP principles boil down to** -

- What could go wrong?
- How can I prevent it?
- Make sure I am doing it!

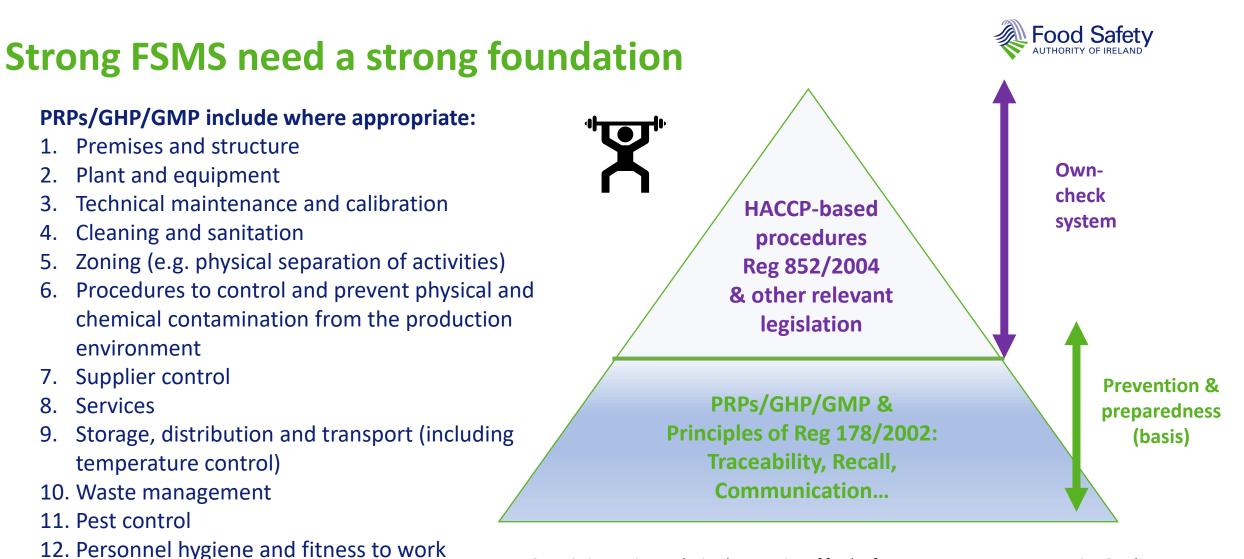


...And it's about putting extra focus & resources on things that are critically important i.e. the Critical Control Points (CCPs)

### GHP/GMP/PRPs...

The **foundation** for the HACCP based procedures, because the majority of hazards are controlled by implementing GHP/GMP/PRPs





Commission Notice on the implementation of food safety management systems covering Good Hygiene Practices and procedures based on the HACCP principles, including the facilitation/flexibility of the implementation in certain food businesses 2022/C 355/01; published on 16.9.2022

13. Training and supervision

14. Working instructions



### **The 7 Principles of HACCP**

**Hazard Analysis** e.g. Survival of pathogenic *E. coli* (STEC) due to inadequate cooking of a beef burger

**Critical control points** (CCP) i.e. the cooking step

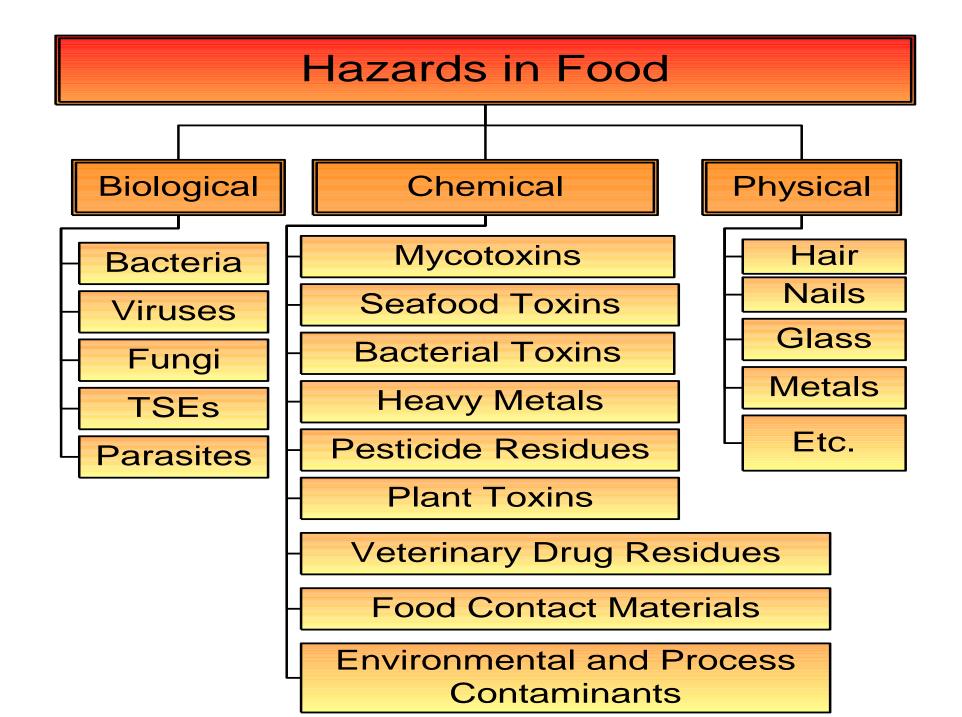
**Critical limits** i.e.  $\ge 75^{\circ}$ C at the core or equivalent (e.g.  $\ge 70^{\circ}$ C for 2 mins)

Monitoring i.e. Periodically check that the correct temperature has been reached

**Corrective action** e.g. Cook for longer, i.e. until correct temperature is reached

**Verification** Check periodically that staff are monitoring CCPs and taking corrective actions

#### **Document** Keep monitoring records



## **Food Allergens** – The 4<sup>th</sup> Hazard!

- Fourteen of the most common European allergens are covered by EU labelling legislation
- But customers may have other allergens
- Regulation (EU) No 1169/2011 on the provision of food information to consumers (FIC)

http://data.europa.eu/eli/re g/2011/1169/2018-01-01



## **Compliance with relevant Food Legislation....**

- Microbiological criteria for foodstuffs
- Additives
- Flavourings
- Contaminants
- Pesticide residues
- Materials and articles in contact with food (e.g. packaging)

 Food information for consumers (FIC) - i.e. Labelling

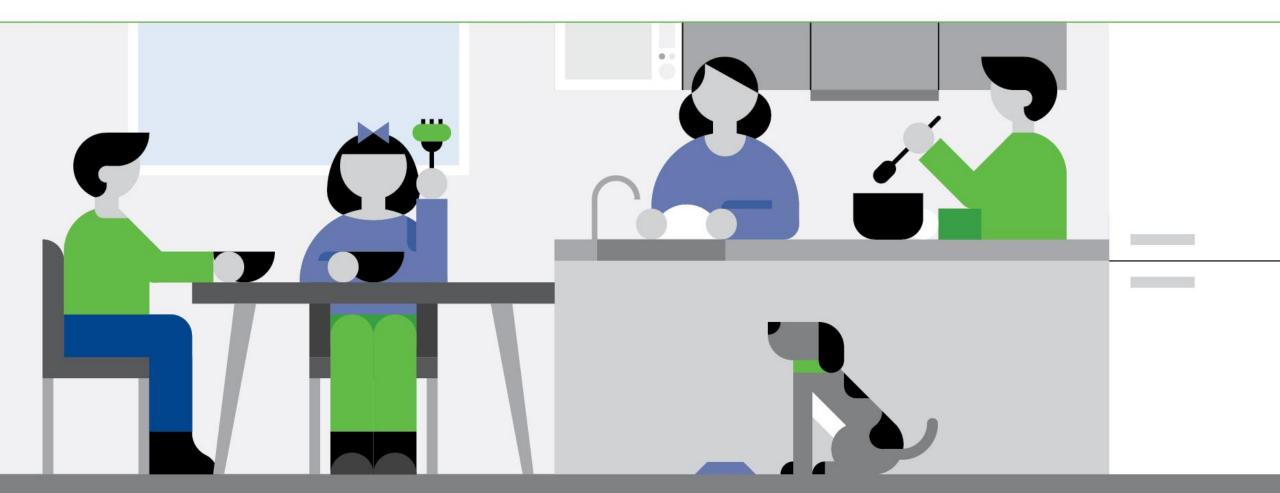
- Product specific legislation (e.g. poultry meat, bottled water, milk & milk products etc..)
- Food fortification
  Nutrition & Health Claims
- Food supplements
  - Novel foods and ingredients
    Genetically modified organisms (GMOs)



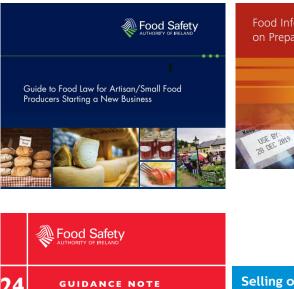


## **FSAI Information & Resources**





## Information and guidance for food **businesses** available at www.fsai.ie



'Gluten-free' and **'Very Low Gluten' Declarations** (Revision 2)

Food Information on Prepacked Foods Bean Extract, WHEAT F





You are here: Home / Food Business / Food Businesses





The FSAI provides new food businesses with a comprehensive range of background information

The FSAI's primary focus is to assist food businesses to achieve good hygiene standards and comply with the law. In this section you can find information on:

- Starting a food business where to start and what you need to know
- Allergens get all the information
- HACCP what it means and how to develop your food safety management system
- <u>Our Safe Catering Pack</u> helps caterers implement their food safety management system
- Training and access our E-learning modules
- Microbiological Criteria- who it applies to and how to comply
- Shelf-life how to determine a food's shelf-life and how to declare it on the label
- Approved food establishments access lists of establishments approved by the HSE, DAFM, LA and SFPA

If you can't find what you're looking for here have a look at our legislation and frequently asked questions sections.

#### **Approved Food** Establishments



Approved establishments handling products of

animal origin for each competent authority in Ireland

View lists of approved establishments

#### **Food Labelling**



the Food Information to Consumers

(FIC) Regulation

#### Legislation



Information regarding

### **FSAI Events & eLearning**

© FSAI



					eLearn	ing
<b>БОО</b> АUTHOR	d Safety		Advice service	Searc	E104	<ul> <li>Food Additives 1: basic information on food additives.</li> <li>Food Additives 2: takes you through an ingredients list of some commonly available products.</li> </ul>
Home About	Us News Centre	Legislation	Enforcement and Audit	Science & Health	<i>Q</i> .	Microbiological Criteria - Regulation 2073/2005
You are here: Home / News Centre / Subscribe To Email and SMS Alerts					63	Module 1: Identifying Relevant Microbiological Criteria Module 2: Sampling and Testing
Press Releases	Subscr	ibe To l	Email and SM	S Alerts	모	Food Contact Materials: the <u>basic</u> information you need to know about food contact materials.
Food Alert	First Nar	ne *				Food Information for Prepacked Foods: information on requirements for
Notifications	Last Nar	ne *				prepacked foods as outlined in the Food Information Regulation 1169/2011 (FIC)
Food Allergen Alert Notifications						Nutrition Information under FIC (Regulation 1169/2011): explains the <u>rules on nutrition</u>
Events	Email Ale	rts			1.011 (100) 1.011	<u>labelling and gives you the opportunity to check</u> compliance of labels.
Newsletters	E-Mail Addre	ess <b>*</b> E.g. jo	hn@gmail.com		T	Food Flavourings: Interviews with the experts: Speakers talk about <u>legislation and</u> <u>safety assessment</u> , <u>labelling and enforcement of</u> food flavourings.
Subscriptions	E	mail 🛛 🗆 C	areers			

https://www.fsai.ie/food\_businesses/food\_safety\_training/online.html



**Food Safety Authority of Ireland** The Exchange, George's Dock, IFSC, Dublin 1, D01 P2V6

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#### www.fsai.ie

## If in doubt - email your query to the **FSAI Advice Line:** info@fsai.ie

