



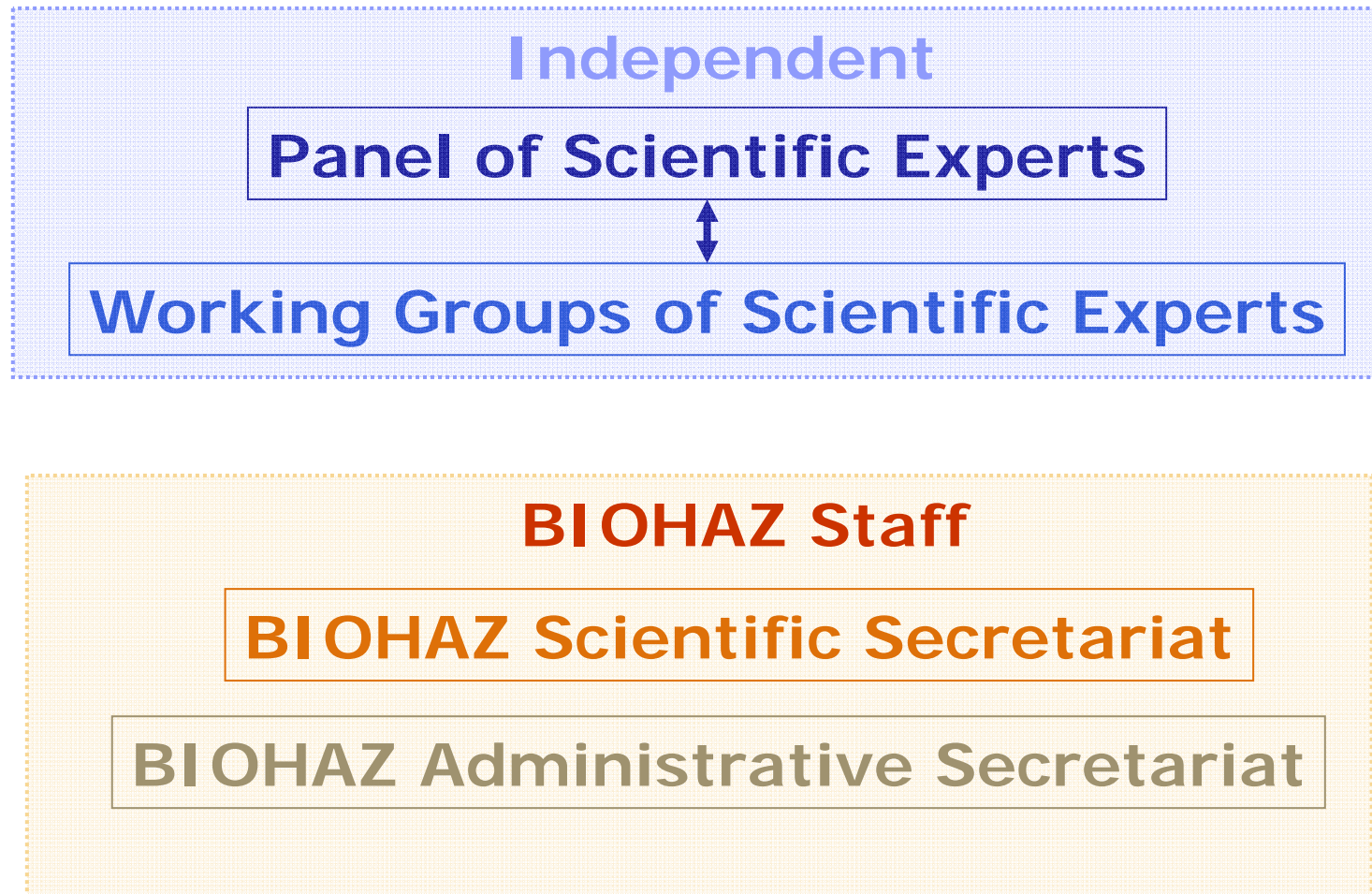
Microbiological risk assessment in feedingstuffs for food-producing animals

Dr Ernesto Liébana on behalf of:





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- The Panel on Biological Hazards deals with **questions** on biological hazards relating to **Food Safety** and **Food-borne Diseases**, including:
 - Food-borne Zoonoses.
 - Food Hygiene.
 - Microbiology.
 - Transmissible Spongiform Encephalopathies.
 - Associated Waste Management.

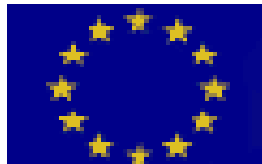
Structure of BIOHAZ Unit



BIOHAZ Panel expertise

- food hygiene
- food technology
- food microbiology
-     public health
- animal health
- parasitology
- virology, zoonoses
- meat inspection
- TSE

Who asks?



European Commission



European Parliament

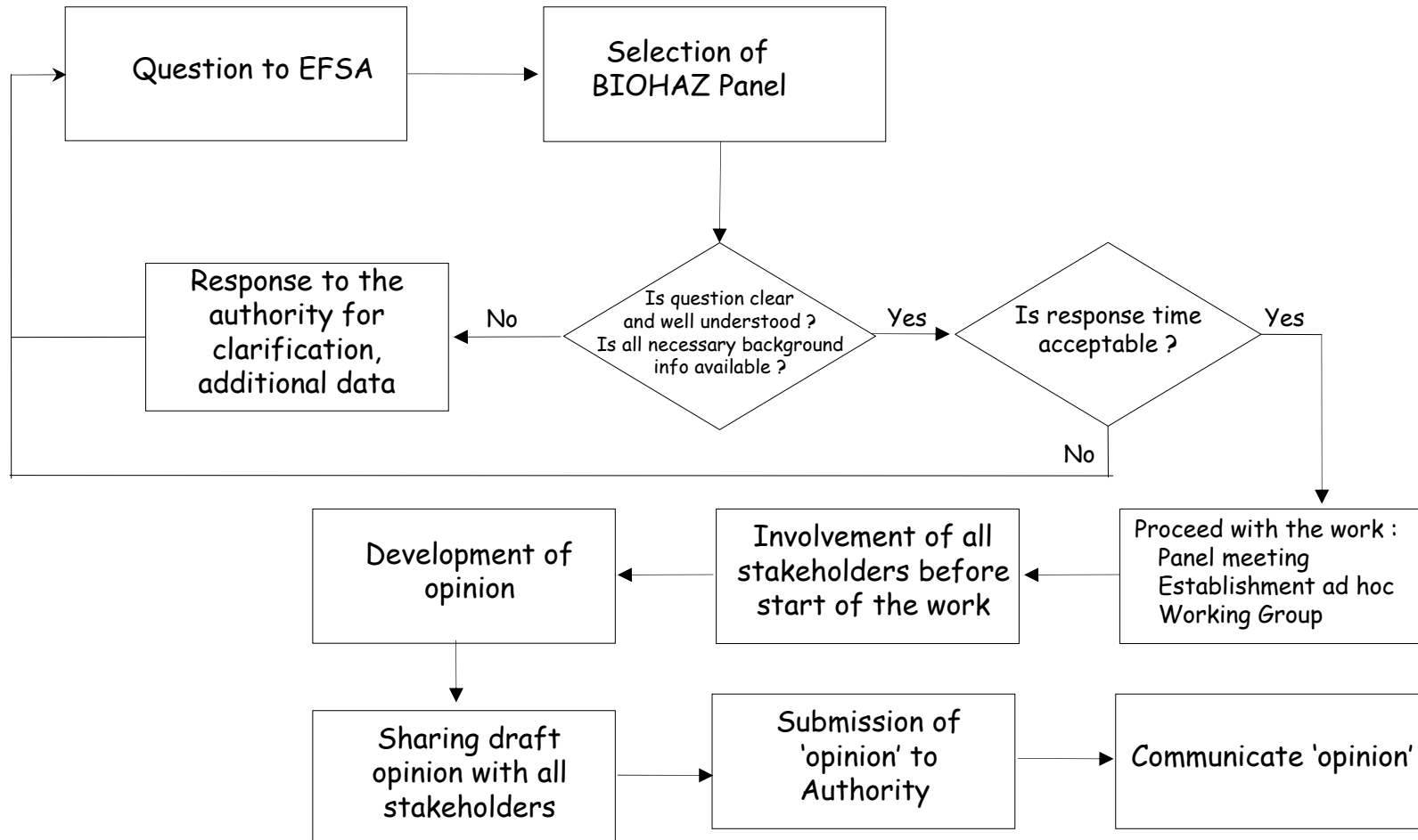


Member States



Self-tasking

How is a scientific opinion produced in the context of BIOHAZ ?



MRA in feedingstuffs for food-producing animals: background.

- Regulation EC 1831/2003 on feed hygiene applies since Jan. 2006.
- Article 5(3) indicates that microbiological criteria and targets (MCA_T) shall be adopted.
- Some criteria have been set in national legislations, but these are not harmonised in the EU.
- According to Regulation 2160/2003 targets for reduction of prevalence of Salmonella are being set in different animal populations.
- Previous Biohaz opinions have expressed:
 - “The control of Salmonella contamination in feed is essential” and “Considerable efforts are required to limit exposure of Salmonella from feed as an absolute minimum” (RA and mitigation options of Salmonella in pig production, EFSA 2006).
 - “The role of contaminated feed as a continuous risk for new introduction to herds in all MS should be considered for further action” Review of the Community Summary Report, EFSA 2004)
- EU Commission is considering the introduction of specific MCA_T in Community legislation. Before this, EFSA has been consulted to provide scientific advice (EU Commission mandate).

MRA in feedingstuffs for food-producing animals: Terms of reference

- Identification of the biological hazards (especially *Salmonella* but also other bacteria pathogenic for humans and/or animals).
- Assessment of the contribution of *Salmonella* contamination in feedingstuffs towards:
 - Prevalence in animals and its health implications.
 - Contamination of food of animal origin.
 - Prevalence of human cases
- Assessment (if possible quantitatively) of the effect of control options.



- Identification of appropriate areas to set microbiological criteria and/or targets for feedingstuffs, as well as elements to be taken into account (e.g. sampling plans, analytical methods).

MRA in feedingstuffs for food-producing animals: Working Group organisation

- Working group is composed of 4 *ad hoc* experts, and 4 panel members [BIOHAZ (2), AHAW (1) and FEDAP (2)]. Also one observer from EU Commission.
- Chaired by Dr. Pierre Colin.
- 3 meetings (June, August and October 2007). 2 more planned for December and February.
- Stakeholder consultation: at the October meeting, 3 industry organisations (FEFAC, COCERAL, FEDIOL) were invited to present information to the group.
- Deadline for adoption of the opinion: July 2008.

MRA in feedingstuffs for food-producing animals: Table of contents (I)

1. Feed production and structure in the EU
2. Processing procedures in feed mills
3. Feeding systems
4. Microbiological hazard identification and characterisation: Bacteria (*Salmonella*, *Listeria*, *E. coli*, *Clostridium*, *Enterococcus*, *Campylobacter*) and Others (AR, viruses, parasites)
5. Assessment of the contribution of feed as a source of *Salmonella* infections in animals and humans :
 - Occurrence of *Salmonella* in feedingstuffs
 - Public health relevance of different *Salmonella* serotypes
 - *Salmonella* infections in animals (feed-derived)
 - *Salmonella* in foods of animal origin (food-derived)
 - *Salmonella* infections in humans (food-derived)
 - Ranking of the risk posed by feed in comparison to other sources.

MRA in feedingstuffs for food-producing animals: Table of contents (II)

6. Strategies to control Salmonella in feed:
 - GHP/GMP and HACCP management systems
 - Processing conditions:
 - Heat treatment
 - Chemical decontamination
 - Potential adverse effects of treatment
 - Alternatives to heat or chemical treatments
 - Use of indicator organisms as a process control
 - Feeding strategies
7. Existing criteria, advantages and disadvantages of using criteria/targets for Salmonella in feed.
8. Conclusions and Recommendations

Thank you for your attention

**BIOHAZ Panel as EFSA is committed to independency
and transparency**

THANK YOU!!!

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