



# **State of play of the reintroduction of processed animal proteins in feed for farmed animals**

**CIVIL DIALOGUE GROUP ANIMAL PRODUCTS –  
SECTOR POULTRY AND EGGS  
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# INTRODUCTION

**TSE Roadmap**

strategy in the  
short,  
medium and  
long-term

**Step-wise and  
science based**

**ADAPT TO THE  
EVOLUTION OF  
THE  
EPIDEMIOLOGICAL  
SITUATION**

**RELAXATION OF  
THE TOTAL FEED  
BAN**

LABORATORY  
METHODS

CROSS  
CONTAMINATION

CANNIBALISM



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# CURRENT SITUATION

|   | Farmed animals other than fur animals         |  |   | Pet and fur animals |
|---|---|--|---|---------------------|
|   | Ruminants                                     | Non-ruminants (except aquaculture animals) | Aquaculture animals                               |                     |
| Ruminant Processed Animal Proteins (PAP), except blood meal   |   |  |   |                     |
| Non-ruminants PAP   |   | ★  |   |                     |
| PAP from farmed insects (NEW as of 1 July 2017)   |   | ★  |   |                     |
| Blood meal (PAP) from non-ruminants, excluding aquatic animals (= fishmeal)                           |   |  |   |                     |
| Fishmeal (PAP) (includes blood meal of aquatic animals)   | In milk replacers for unweaned ruminants only |  | No fishmeal of farmed species X to same species X |                     |
| Blood products from non-ruminants   |   |  |   |                     |
| Blood products from ruminants   |   |  |   |                     |
| Hydrolysed proteins from non-ruminants and/or ruminants hides and skins                               |   |  |   |                     |
| Hydrolysed proteins other than those only derived from non-ruminants and/or ruminants hides and skins |   |  |   |                     |
| Gelatine and collagen from ruminants  |   |  |   |                     |
| Gelatine and collagen from non-ruminants  |   |  |   |                     |
| Di and tricalcium phosphate of animal origin  |   |  |   |                     |
| Egg, egg products, milk, milk products & colostrum  |   |  |   |                     |
| Animal proteins other than the above mentioned ones   |   |  |   |                     |



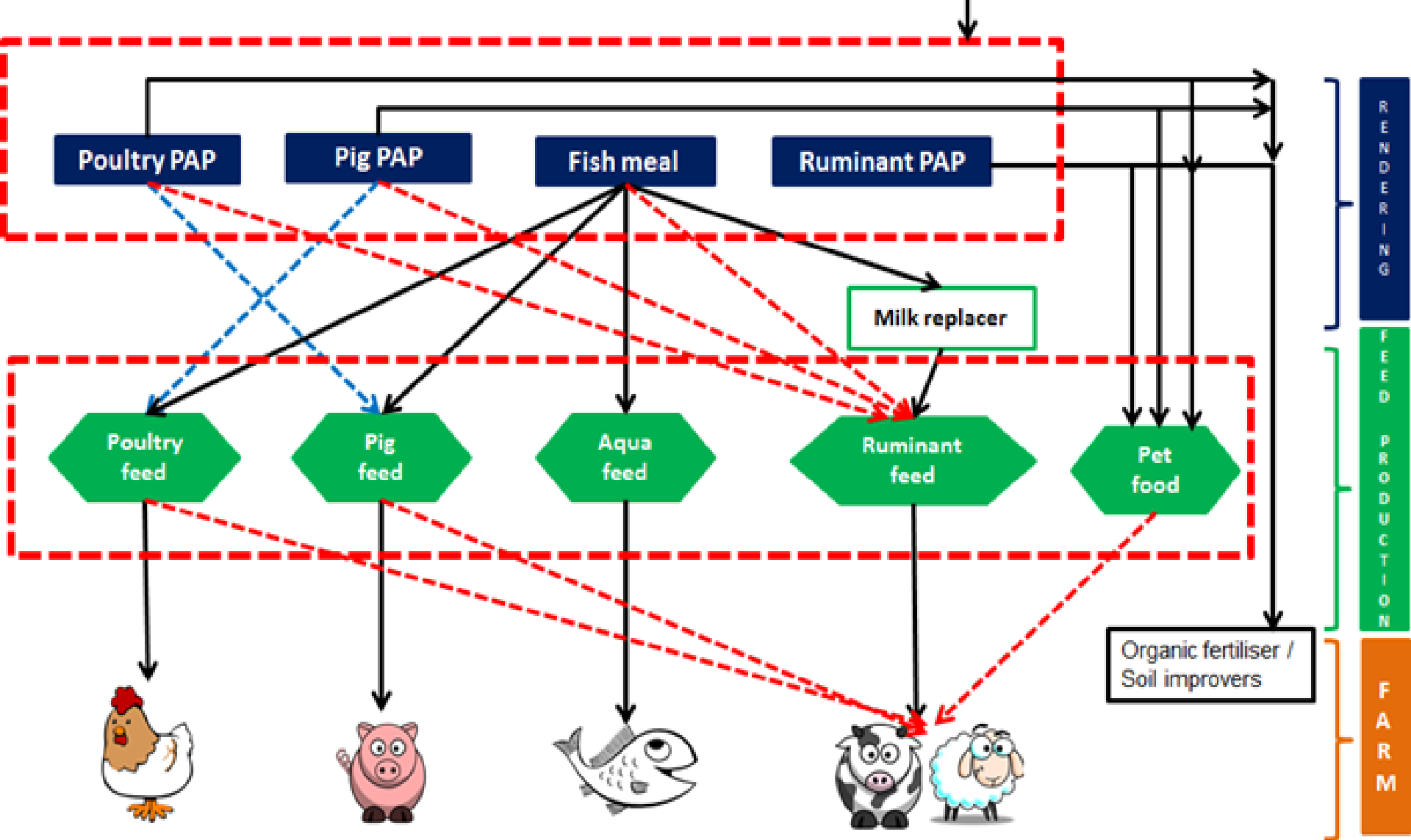
Not authorised



Authorised



Authorised for certain types of animals



Area of additional potential cross-contamination at production, storage or transport



Authorised production route



Possible reauthorization

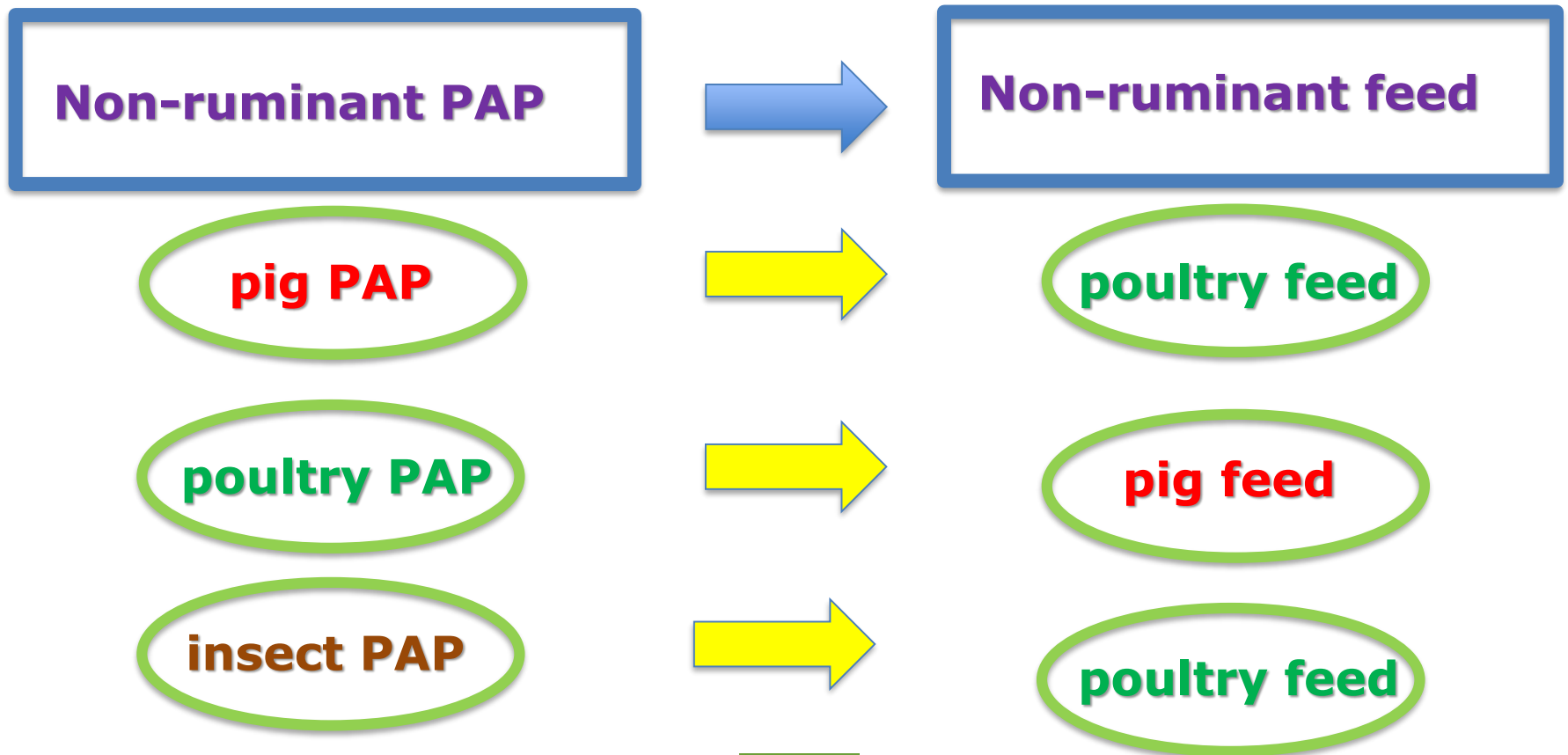


Potential route of contamination of ruminant feed



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# Feed ban: next possible steps



# Pig PAP in poultry feed

Laboratory methods  
for official control

PCR for ruminant DNA 🖱️

PCR for poultry DNA 🖱️

Avoid cross  
contamination

Separated lines

Improvement of the  
official controls

Directorate F audits

False positives

Action limit

**EFSA OPINION**

## **Discrimination between authorised and non-authorised ingredients**

**-Mass spectrometry** for identification of the type of tissue present  
→ method in the process of validation

## **Compensation of the high sensitivity of the PCR**

**-Action limit**

→ EFSA Scientific Opinion on the revision of the quantitative risk assessment (QRA) of the BSE risk posed by processed animal proteins (PAPs) Adopted: 7 June 2018

# Insect PAP in poultry feed

**Laboratory methods  
for official control**



Double sedimentation

**Avoid cross  
contamination**



Substrates for the growing  
of the insects





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# Poultry PAP in pig feed

Laboratory methods  
for official control



PCR for ruminant DNA 🖐️

PCR for pig DNA 🖐️

**Mass spectrometry**

Avoid cross  
contamination



Dairy products or pig  
blood are commonly used



**"false positives"**





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# EFSA Scientific Opinion on the revision of the quantitative risk assessment (QRA) of the BSE risk posed by processed animal proteins (PAPs) *Adopted: 7 June 2018*

 *less than one additional BSE infected cattle could be expected in the EU cattle population per year with an upper 95% confidence*

 *BSE infectivity in cattle four times lower than that of the 2011 QRA model*



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## **EFSA main recommendations:**

- *Testing and speciation of PAP to detect contamination before its inclusion in animal feed*
- *Clear identification and/or systematic monitoring of GTH to Category 1 and 2 material*
- *Physical segregation of ingredients for ruminant feed and those for non-ruminant feed, at all stages, from the primary collection of ABP at slaughterhouses: separated lines*
- *Establish an EU-level reporting system from the monitoring of the feed ban*



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# ***Conclusion*** ***possible next steps?***

- Authorisation of PAP in poultry feed?
  - Pig PAP?
  - Insect PAP?
- Action limit
  - Ruminant material?
  - Poultry material? (Cannibalism)



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**Thank you for your attention!**

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