

Insect production: current EU Regulations and sector's 1-3 years roadmap for widening opportunities

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International Platform of Insects for Food & Feed (IPIFF)

1. Introduction : IPIFF missions & Members

2. Short overview of EU Regulations applying to insects for food & feed

3. EU insect sector's roadmap for widening opportunities

1. INTRODUCTION: IPIFF MISSIONS AND MEMBERS

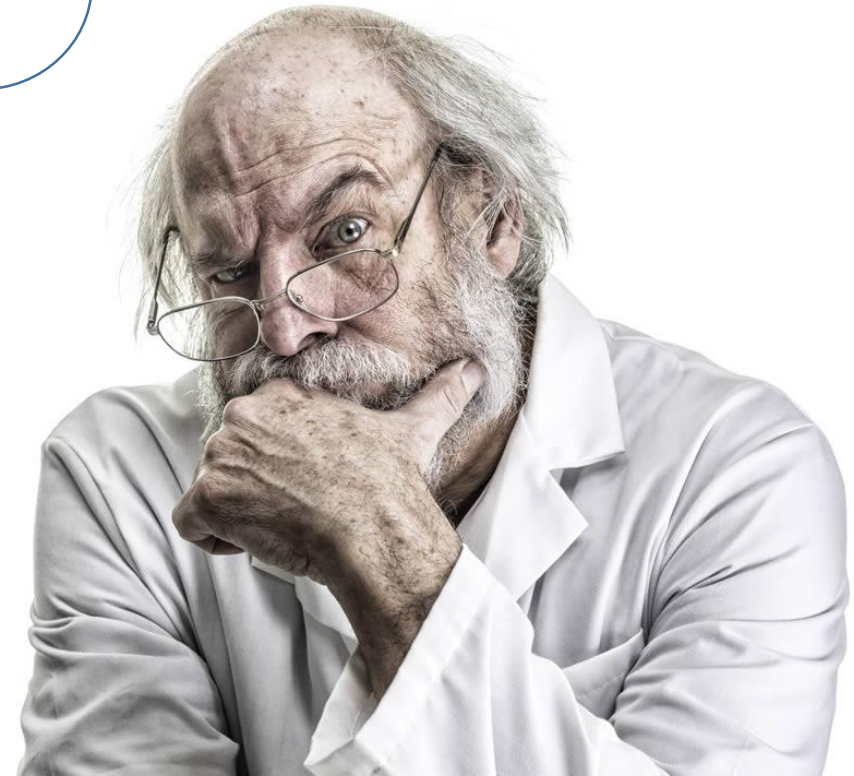
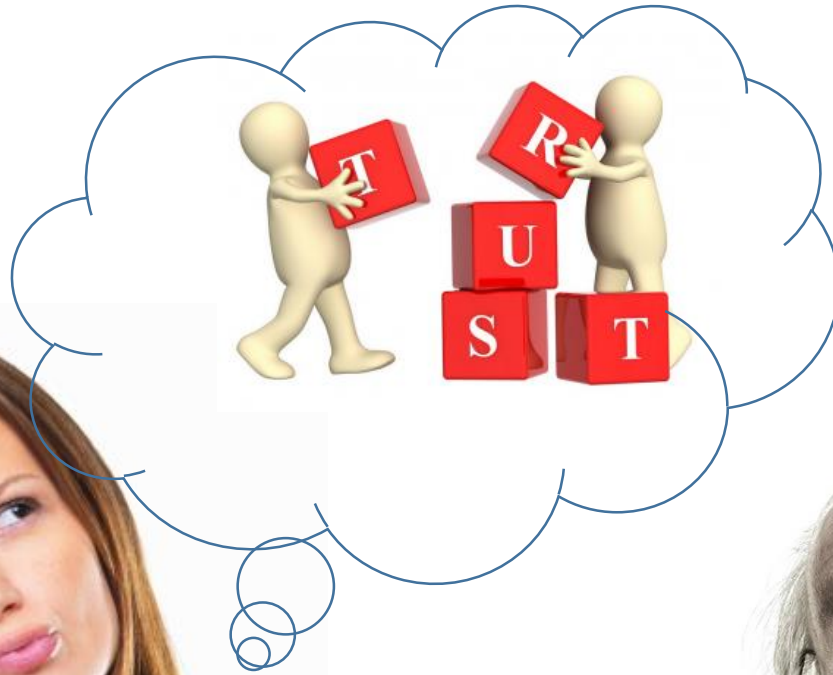
WHAT IS IPIFF? *'International Platform of Insects for Food & Feed'*

- Originally founded in **2012** and formally established in **2015**.
- Alliance of key players - **42 members** today - in the insect industry.
- The **'voice of insect producers'** towards the European institutions & other relevant stakeholders.

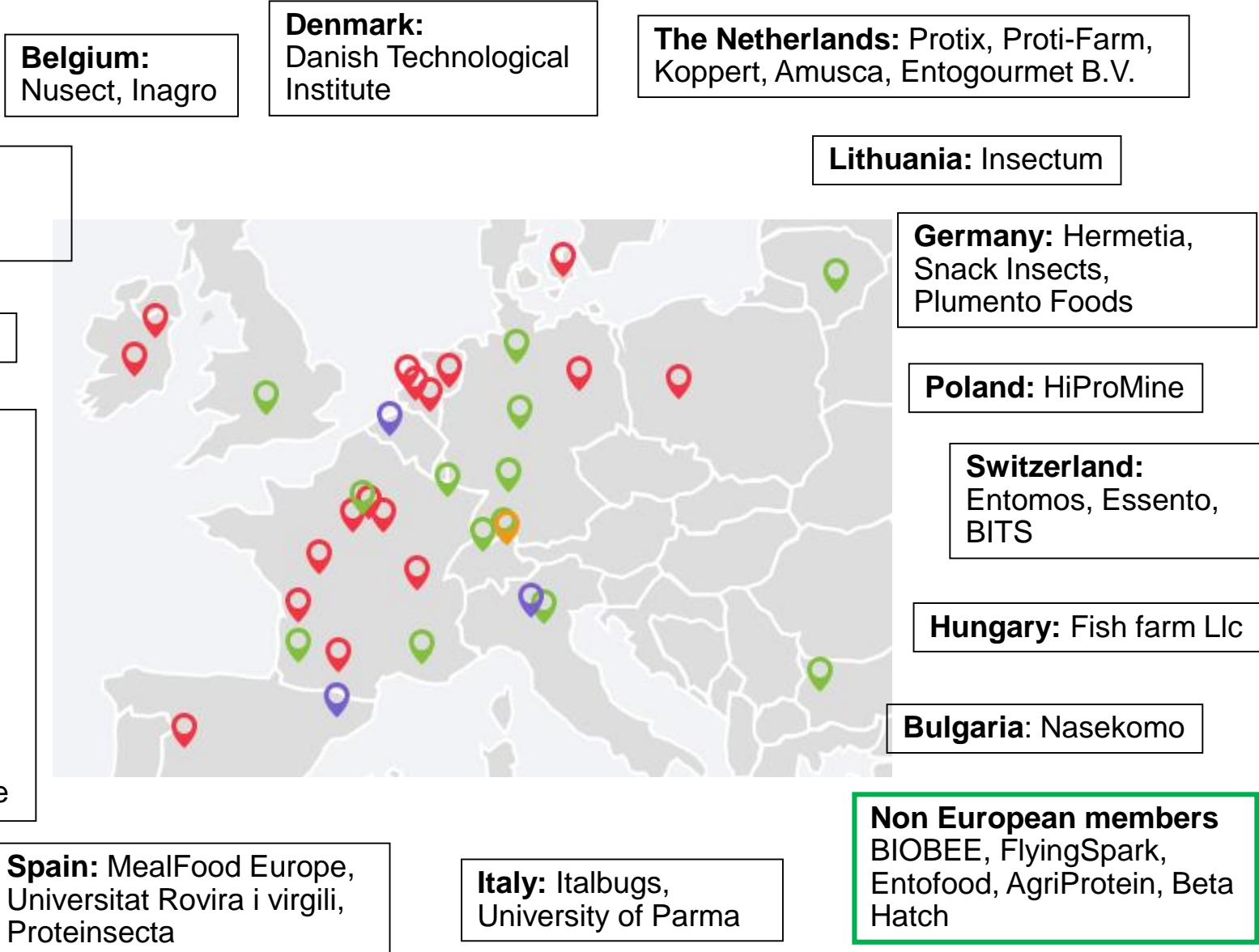
IPIFF OBJECTIVES - *'Building a responsible sector'*

- **Promoting insects** as top-tier source of nutrients for food & feed.
- Consolidating **dialogue with EU public authorities** & advocating for appropriate **legislative frameworks**.
- Support insect producers in the effective **implementation of food & feed safety legislation**.
- Promotion and/or development of **shared standards & best practices**.

1. INTRODUCTION: BUILDING A RESPONSIBLE SECTOR



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2. SHORT OVERVIEW OF EU REGULATIONS APPLYING TO INSECTS FOR FOOD & FEED



EU legislation- insect production in the EU



- Insects kept in the EU for the production of food, feed or other purposes are **'farmed animals'** (Regulation (EC) No 1069/2009 on Animal by Products)
- General **requirements for food hygiene and animal Health apply** to insect production (Reg (EC) No 178/2002 (General Food Law) and 183/2005 (Feed Hygiene))
- Invertebrates are excluded from Directive 98/58/EC : **EU welfare rules do not** apply to insects...however...important topic

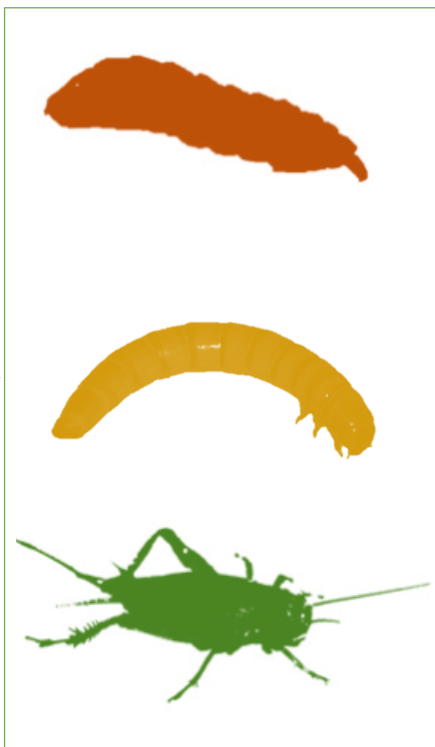
2. SHORT OVERVIEW OF EU REGULATIONS APPLYING TO INSECTS FOR FOOD & FEED

EU Regulatory possibilities for insect PAPS use in animal feed

Feed stocks

- ✓ Vegetal substrates
- ✓ Unprocessed former foodstuff: dairy & eggs
- ✗ Unprocessed former foodstuff: meat and fish
- ✗ Catering waste & Slaughterhouse products
- ✗ Animal manure

Insect production



Target species

	Protein*	Fat	Live
	✓	✓	✓
	✓	✓	✓
	✗	✓	✓
	✗	✓	✓

Allowed to be fed to fish as from 1st July 2017.

* Non-hydrolysed protein (if classified “hydrolysed”, all markets would be allowed)

2. FIRST SUCCESSES: PROCESSED INSECT PROTEINS AQUACULTURE



2. SHORT OVERVIEW OF EU REGULATIONS APPLYING TO INSECTS FOR FOOD & FEED



Eligible feed materials for insect feed materials



- Regulation (EC) No 767/2009: animals in the EU may be only be fed with safe feed & prohibition of feeding **faces** and separated digestive tract content.
- Animal by Products legislation prohibits to feed insects for feed use with **manure** or **catering waste** and unprocessed **former foodstuffs** containing meat or fish.
- Regulation (EC) No 999/2001 prohibits to **feed insects with any PAPs**, except fishmeal.
- EU residue **limits for contaminants** (Directive 2002/32/EC) apply to feed for insects and insects as feed materials.

2. SHORT OVERVIEW OF EU REGULATIONS APPLYING TO INSECTS FOR FOOD & FEED



EFSA' S RISK PROFILE OPINION 8 OCTOBER 2015 (1)

Main conclusions:

*“When currently allowed feed materials are used as **substrate to feed insects**, the possible occurrence of **microbiological hazards** is expected to be **comparable** to their occurrence in **other non-processed sources of protein of animal origin**”*

2. SHORT OVERVIEW OF EU REGULATIONS APPLYING TO INSECTS FOR FOOD & FEED



EFSA' S RISK PROFILE OPINION 8 OCTOBER 2015 (2)

Main conclusions:

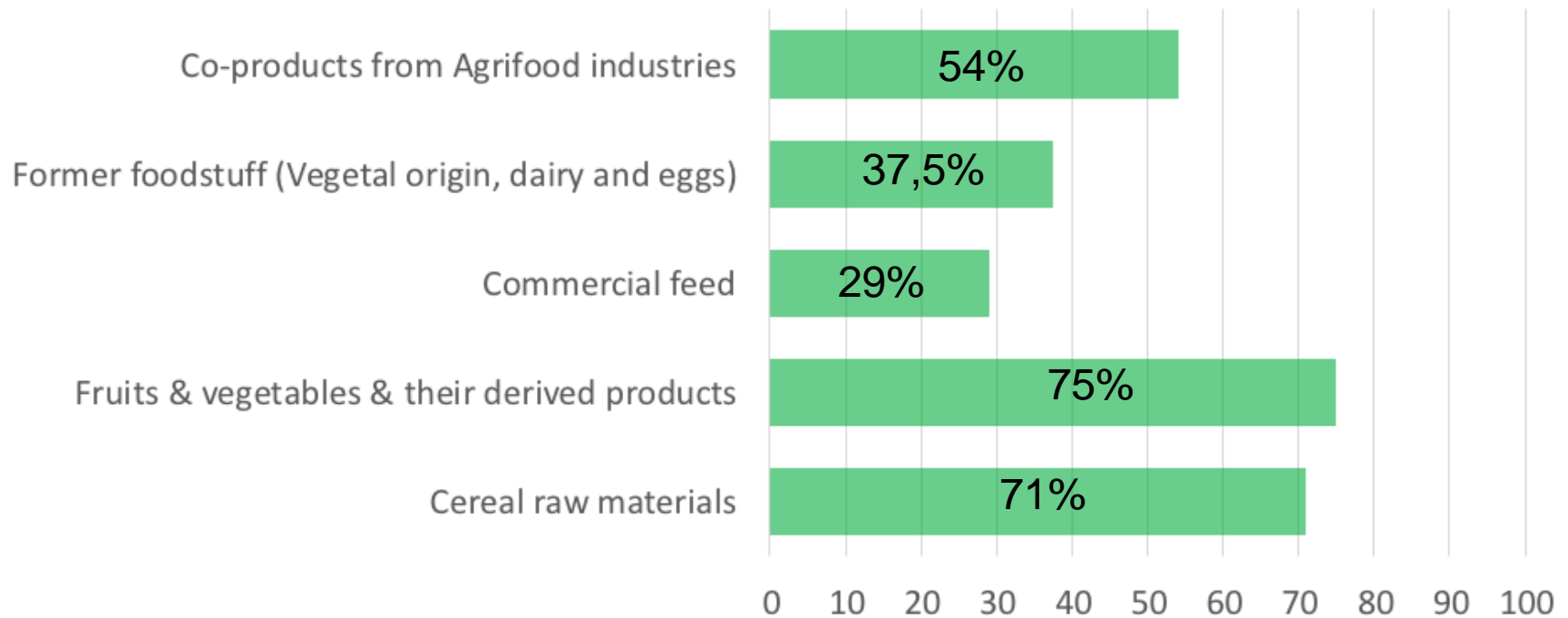
*“the specific **production methods**, the **substrate used**, the stage of harvest, the insect species and developmental stage, as well as the **methods for further processing** will all have an impact on the occurrence and levels of biological and chemical contaminants in food and feed products derived from insects”*



2. SHORT OVERVIEW OF EU REGULATIONS APPLYING TO INSECTS FOR FOOD & FEED



Substrates used by the IPIFF members to feed their insects



2. SHORT OVERVIEW OF EU REGULATIONS APPLYING TO INSECTS FOR FOOD & FEED



‘New’ EU Novel Food Legislation and its consequences for insect producers



Regulation 2015/2283 covers *‘whole insects and their parts’*.

Concrete implications

As from 1st Jan 2018, **all types/forms of insects** intended for human consumption **must be authorized** prior to their marketing within the EU

Companies intending to commercialize such products **must in principle submit a Novel Food application** to the European Commission. Once authorized, these applications become **‘generic’**, unless **5-years data protection** is granted by the European Commission.

2. SHORT OVERVIEW OF EU REGULATIONS APPLYING TO INSECTS FOR FOOD & FEED

IPIFF Guidelines on Regulation (EU) 2015/2283

Objective: provide an **overview of the ‘administrative steps’** to be followed by insect producers intending to submit a NF application.



Available on the
IPIFF Website:

<http://ipiff.org/>

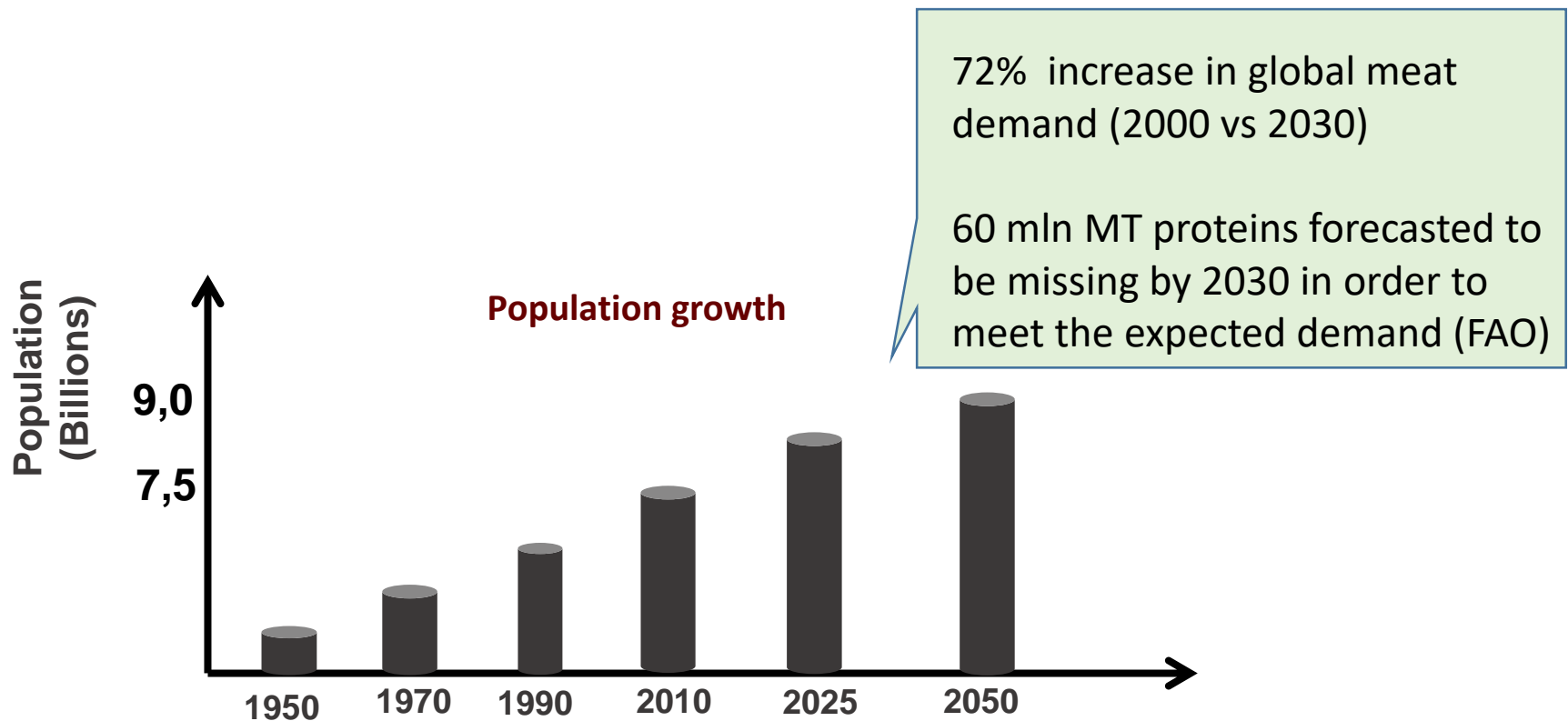
Realized by the IPIFF Novel Food TF, in collaboration with specialized Law firm (Bird & Bird LLP).

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Context: global population growth commands to 'double protein production' by 2050



Context: need for credible solutions to solve global challenges



Need for more 'high grade' proteins

- **Direct replacement**
- **Alternative feed ingredients**

'90 Millions tonnes of food wasted in the EU each year'

3. EU INSECT SECTOR 'S ROADMAP: POULTRY



3. EU INSECT SECTOR 'S ROADMAP: FORMER FOODSTUFFS INCLUDING MEAT AND FISH



**ZERO
WASTE
SUPERMARKETS**



IPIFF policy position reg. the use of insects in animal feed



*'IPIFF pleads for a new 'relaxation' of the EU feed ban rules so as to **authorise the use of insect PAPs in feed for other non-ruminant livestock animals (pigs & poultry species)**' .*

*'IPIFF pleads for **expanding scientific investigations** on the safe use of new substrates such as **'former foodstuffs'** containing meat and fish or **food losses from catering establishments (...)** these products may be authorised as feed for insects **if EFSA assures that these do not entail safety risks**' .*

Participation in EU funded Research Programmes



- **Horizon 2020** Work Programme: "[LC-SFS-17-2019: Alternative proteins for food and feed](#)".
- **Horizon Europe** (FP 9 Programme): opportunities for the insect sector to advance research on 'priority subjects' (e.g. options for feeding insects with alternative feed sources) and anticipate EU regulatory evolutions.

3. EU INSECT SECTOR 'S ROADMAP FOR WIDENING OPPORTUNITIES



Ongoing & future IPIFF projects



- Publication of the **IPIFF Guide on Good Hygiene Practices** (by the end of 2018)
- Publication of **IPIFF vision paper** on the future of the European insect sector until 2030
- Setting up of the IPIFF Working Group '**food safety & consumer policy**' and of the Task force on '**insect frass**' & '**organic insect farming**'
- **Annual conference** 'contribution of the EU insect sector to sustainable & competitive value chains' (6 November 2018)



Questions?



THANK YOU FOR YOUR ATTENTION!