

# **IPIFF 's role in the production of insects in Europe**

*International Conference on Novel Foods (Prague, 19 June 2018)*

---

Christophe Derrien, Secretary General

International Platform of Insects for Food & Feed (IPIFF)

# 1. IPIFF missions & Members

2. Potential of the European insect sector

3. Short overview of EU legislation applying to insects for food & feed

4. IPIFF activities regarding the implementation of the new EU Novel Food legislation

# 1. IPIFF MISSIONS AND MEMBERS

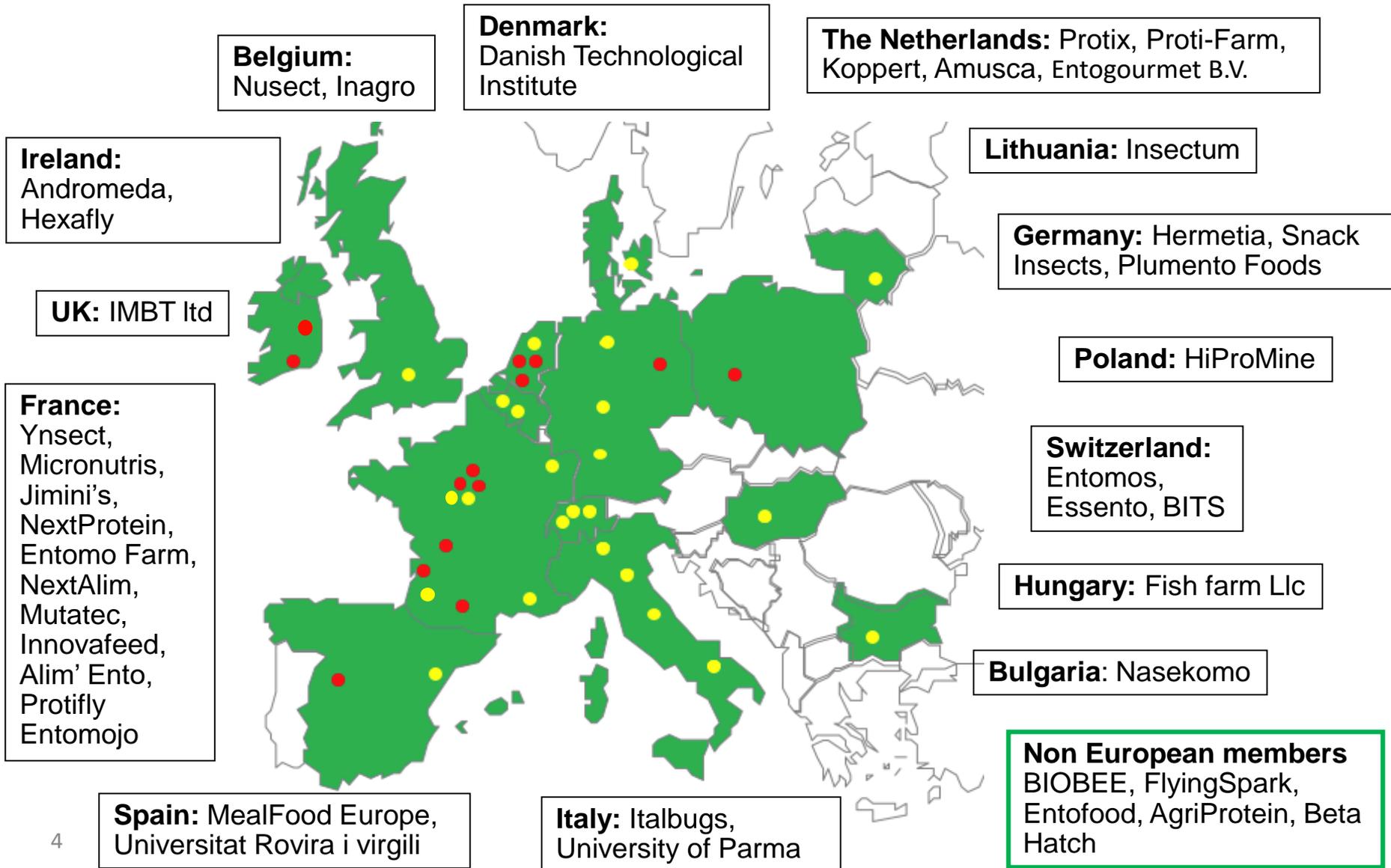
## WHAT IS IPIFF? *'International Platform of Insects for Food & Feed'*

- 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. IPIFF MISSIONS AND MEMBERS



# 1. IPIFF MISSIONS AND MEMBERS

## IPIFF Members' profile & membership status

### Primarily **European producers**

- European insect producing companies (farming and/or processing) – Ordinary members

- Non European insect producing companies & 'knowledge sharing' organizations (e.g. technical institutes) – Associated members (non voting members)

- Non insect producing companies - Observer members

All insect companies members serve **food and/or feed markets**

Several Members are also active in market segments such as biological control, green chemistry or plant nutrition



1. IPIFF missions & Members

**2. Potential of the European insect sector**

3. Short overview of EU legislation applying to insects for food & feed

4. IPIFF activities regarding the implementation of the new EU Novel Food legislation

## 2. POTENTIAL OF THE EUROPEAN INSECT SECTOR

### Contextual elements: Why eat insects ?

- Insects are part of the **staple diet of around 2,5 billion people** in large areas of the world.
- Insects are an important part of the **natural diet of widely consumed animals** (e.g. trouts, poultry).
- Insects products have interesting nutritional characteristics, both for **human consumption & animal feed**.
- Insects can very efficiently **convert** low value feed into **high grade nutrients**.



## 2. POTENTIAL OF THE EUROPEAN INSECT SECTOR

### Consumer demands for insects as food

- **Healthy food** (high quality protein, healthy fats, natural vitamins and minerals)
- Preferably **authentic, natural and organic** foods
- **High protein food** for specific categories of consumers (e.g. elderly, children, sick people, sports nutrition)

Examples of applications with insects: whole insects (snacks), bars, pastas, powders



### The EU insect production sector today

- Today, **several dozens** of companies are established in **Europe**.
- The sector is predominantly composed of **SMEs**, serving both **food & feed** markets.
- European companies currently play a leading role in terms of **innovation & technological advancement**.
- EU production represents today a few **thousands of tonnes**, whereas investment accounts above **250 Million of Euros**.
- **A few hundreds jobs today** – potential to increase up to a few thousands by 2025.

1. IPIFF missions & Members

2. Potential of the European insect sector

**3. Short overview of EU legislation applying to insects for food & feed**

4. IPIFF activities regarding the implementation of the new EU Novel Food legislation

### 3. SHORT OVERVIEW OF EU LEGISLATION APPLYING TO INSECTS FOR FOOD & FEED



## EU legislation- insect production in the EU



- 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))
- 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)
- Invertebrates are excluded from Directive 98/58/EC : **EU welfare rules do not** apply to insects

### 3. SHORT OVERVIEW OF EU LEGISLATION APPLYING TO INSECTS FOR FOOD & FEED



#### Eligible feed materials for insect feed materials

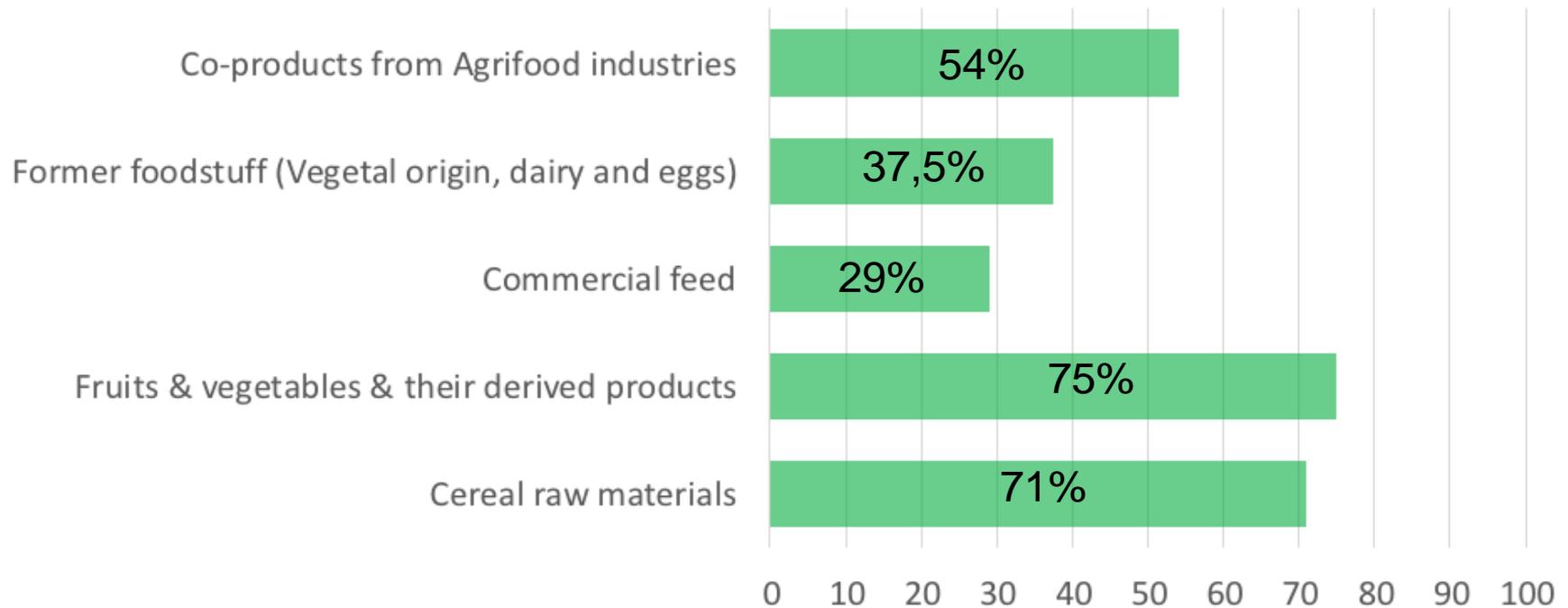


- Regulation (EC) No 767/2009: animals in the EU may be only fed with safe feed & prohibition of feeding **faces** and separated digestive tract content.
- Animal By Products legislation prohibits to feed insects for feed use with **manure** or **catering waste** and unprocessed **former foodstuffs** 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.

### 3. SHORT OVERVIEW OF EU LEGISLATION APPLYING TO INSECTS FOR FOOD & FEED



## Substrates used by the IPIFF members to feed their insects



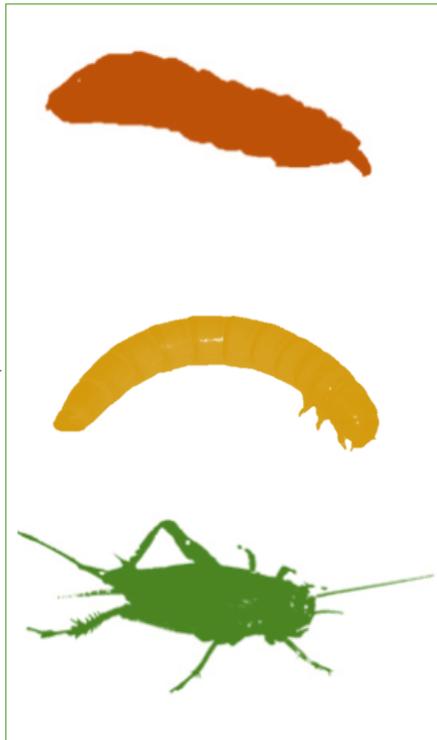
### 3. SHORT OVERVIEW OF EU LEGISLATION APPLYING TO INSECTS FOR FOOD & FEED

## 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)

### 3. SHORT OVERVIEW OF EU LEGISLATION APPLYING TO INSECTS FOR FOOD & FEED



## 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**' .*

### 3. SHORT OVERVIEW OF EU LEGISLATION 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 1<sup>st</sup> 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.

1. IPIFF missions & Members

2. Potential of the European insect sector

3. Short overview of EU legislation applying to insects for food & feed

**4. IPIFF activities regarding the implementation of the new EU Novel Food legislation**

## 4. IPIFF ACTIVITIES REGARDING THE IMPLEMENTATION OF THE NEW EU NOVEL FOOD LEGISLATION



### Adoption and implementation of the new NF Legislation Timeline 2015-2018

Date	ITEM	DETAILS
<u>25 Nov 2015</u>	<b>New NFR adopted</b> by the European Parliament and EU Member States (28)	IPIFF welcomed the introduction of EU harmonized legislation for insects
<u>10 Nov 2016</u>	Publication of <b>the EFSA guidance</b> on the preparation & presentation of NF applications	Technical guidance (not only for insects but for all novel foods) incl. micro, tox, allergenicity
<u>1st Jan 2018</u>	<b>New NFR</b> (i.e. Reg 2015/2283) <b>applies</b>	Follows the adoption of implementing Reg. on scientific & admive standards for NF applications
<u>4 Jan 2018</u>	First <b>NF application covering insects</b> officially <b>submitted</b> to the EC	Application concerning lesser mealworm (Proti- Farm)
<u>1st Jan 2019</u>	Deadline for submitting NF application for producers benefiting from art. 35.2 trans. measure	Concerns insect producers in NL, BE, FI, UK, DK & AU.
<u>2nd half 2019</u>	First NF authorizations granted to insect products ??	1 <sup>st</sup> applic. currently assessed by EFSA

## 4. IPIFF ACTIVITIES REGARDING THE IMPLEMENTATION OF THE NEW EU NOVEL FOOD LEGISLATION



### IPIFF assistance in the preparation of Novel Food applications

#	NOVEL FOOD TASK FORCE (created in October 2016)
1	Advice insect producers in complying with <b>'scientific' requirements of NF applications.</b>
2	<b>Practical guide explaining the key 'administrative steps'</b> (e.g. structure of NF application or notification, data protection, rules of confidentiality) derived from Reg. 2015/2283 & its implementing Regulations.
3	Explore avenues <b>for joint applications or notifications by sector organization-</b> (opportunity for producers covering the same species - cost sharing)

## 4. IPIFF ACTIVITIES REGARDING THE IMPLEMENTATION OF THE NEW EU NOVEL FOOD LEGISLATION



### IPIFF assistance in the preparation of Novel Food applications

#### REPORT ON ADDRESSING DATA REQUIREMENTS FOR NF APPLICATION COVERING INSECTS

1	Details on the main data required to support a NFA (e.g. need for sub chronic animal tox studies, allergenicity) and justifications for excluding certain papers
2	Outlining the organization and presentation of the risk assessment data

*Summary version the document available on the IPIFF website*

#### SCIENTIFIC LIBRARY (DBASE)

1	Literature / public studies on the (safe) consumption of insects, eg nutritional aspects, tox studies, allergenicity etc.
2	Assessment of the quality of scientific papers & summary

*Document realized for IPIFF by a specialized Consultancy (Exponent)*

*For further information about the documents, please contact the IPIFF Secretariat:  
[Christophe.Derrien@ipiff.org](mailto:Christophe.Derrien@ipiff.org)*

## 4. IPIFF ACTIVITIES REGARDING THE IMPLEMENTATION OF THE NEW EU NOVEL FOOD LEGISLATION

### 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).*

# 4. IPIFF ACTIVITIES: IMPLEMENTATION OF THE NEW EU NOVEL FOOD LEGISLATION

## IPIFF Guidelines on Regulation (EU) 2015/2283

Illustration of the EC online submission system



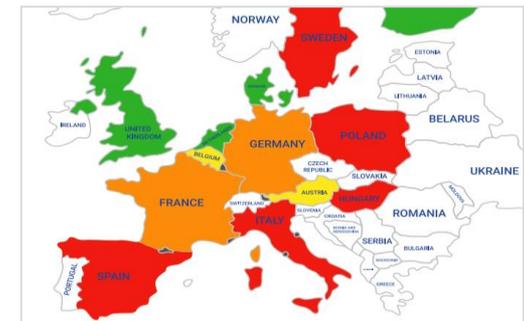
### 2.2. Applications must be submitted through the e-submission system

Novel Food applications for authorisation must be submitted to the European Commission services, through the **e-submission system**, which is available on the DG SANTE website (European Commission) through the following link: [https://ec.europa.eu/food/safety/novel\\_food/e-submission\\_en](https://ec.europa.eu/food/safety/novel_food/e-submission_en).

Illustration: starting page of the e-submission system



Application of article 35.2 transitional measure by EU Member States



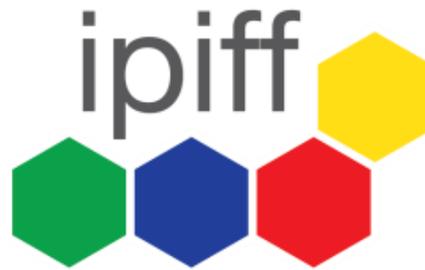
## 4. IPIFF ACTIVITIES REGARDING THE IMPLEMENTATION OF THE NEW EU NOVEL FOOD LEGISLATION

### Ongoing & future IPIFF projects in 2018



- 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'
- **IPIFF annual conference** (20 November 2018)





**THANK YOU FOR YOUR ATTENTION!**