



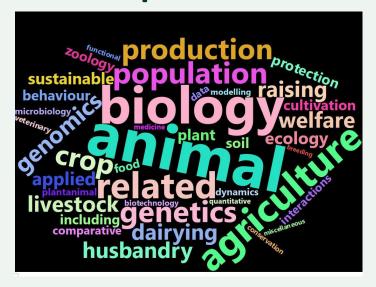
## WG-8 Inclusion & Representation

1st Annual Report

Mert Kükrer

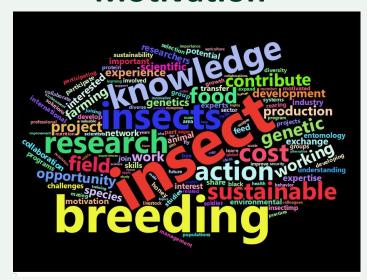
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#### **Expertise**





#### **Motivation**



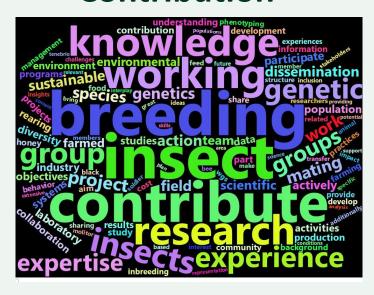
# Diversity & & Convergence



#### **Background**



#### **Contribution**



## WG-8 / this year in action

Focused on:

expanding Action community

enhancing inclusivity

improving collaboration with industry

3

Meetings

11-16

**Attendees** 

**52** 

Members





## **Community Expansion**

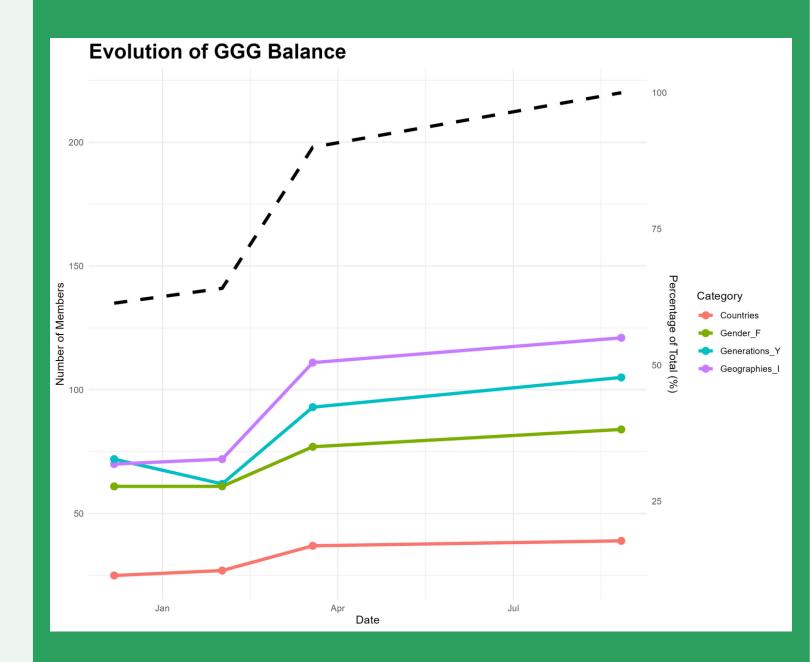
- Underrepresented regions (including those from Asia, Africa, and America where insects are a part of the diet) and stakeholders across different research fields.
- Specialist teams to attract individuals working with Honey Bees, Black Soldier Flies, Yellow Meal Worms, and Super Worms.
- Standard Invitation Letter to be distributed among potential Action members.
- Spreadsheet to track and follow up the individuals we got in contact with.
- ITC Conference Grant announcements communicated with EurBee and COLOSS networks.



## Awareness & Monitoring

#### Currently (n=220, 39 countries)

- 84 female members (38%)
- 105 young researchers and innovators (48%)
- 121 members from inclusiveness target, near neighbour, or other developing countries (55%)



## **Industry Collaboration**

- Bridge the gap between academia and industry & ensure knowledge transfer in both ways
- Recommend tandem speeches during workshops and online events
- Introductory material for inclusion in the German Agricultural Society (DLG) International Newsletter, aiming to attract potential industrial partners
- Four meetings with four companies to discuss their potential participation in the Action

## Insect-IMP: New International Initiative for Advancing Insect Breeding and Genetic Improvement

The global population is expected to grow to 10 billion by 2000, increasing demand for food, specifically protein, tracer farming can significantly affect global food security by reducing environmental footprints and improving sustainability. However, 6 currently relies on tracet populations whose genetics are poorly undestood and not necessarily tred or for purpose. Understanding the genetics of large livestock species has made a tig difference in advancing farming systems. Sall, little effort has been put into treating opportunit that would ensure the benefit deposement of insert species. With the continuous scales-up of insert farming systems, there is a raing need to coordinate measure efforts in meant forwarding and genetics.

To address this challenge, experts and professionals interested in sustainable insect freeding fort met in September 2005 in Enciseur to kindstart an interdisciplinary solisaboration. This reteivals forms the Insect-MP Action tunded by GCST, CGST. Actions are collaborative research networks funded by the European Cooperation in Science and Technology (CGST) program for addressing scientific, actioningical, or societal challenges. A twent network for innocation, transit-MP since in facilitate summunication, cultaboration, and knowledge transfer within and across insect species. Another goal of the CGST Action is bridging the gap between scadenia and Industry to advance the field of breeding and provide improvement of insect.

The insect-MP Action seeks to address challenges fixed by the growing insect farming industry, where genetic improvement needs to catch up with the rapid pace of industry expansion. Objectives of the Action include:

- 1. Coordinating research efforts an perotyping and population situature.
- Understanding making behaviors and improving making control in insect species.
- blankfying the impact of community interactions on insact performance.
- 4. Defining breeding goals for panels improvement in insect species.
- 1. Addressing challenges in phenotyping
- 6. Assessing and improving models for genetic and genomic evaluation.

These are eight cecicated Wesking Groups (WGs) to fulfill these objectives. These eight WGs have already started their online overloops to set standards and provide impulses for progress to the applications and food sectors. Apain from online meetings, three self-started three linguistics (Section), the other time in particular the plant one in Novi Sed (Section), the other in Celle (Germany), and the final one in jupicipies (Sissenia). Furthermore, as Indisatry workshop in May in the Issacta Conference and otherwise workshop have in the year and being planted, where interested parties can meet the Action community.

As of mid-February, more than 160 representatives of academic institutions and industry partners from 27 countries, joined the Action. Currently, the industry is represented by around 15 companies from the sector issect-MP Invites potential staxeholders besides senses there and snowwest. - From issect families and insect breeding companies to fivestock, positry, and aquaculture industries that might utilize insects as feed—to portiogate in the Action and its upcoming events to:

- Share their expensive and insights to address challenges in the field:
- Collaborate with researchers working on diverse insect species.
- Commisse to the development of best-graptice recommensations for Presching
- Force: communication between academia and industry.
- Participate in avoidabous, stateing, and collaborative efforts.

Interch-BiF certook accountges participation from individuals at all stages of their careas and from diverse tactographs. Creating as inclusive envisorment to support the field's growth issect terring is a young industry unsurprisingly, almost half of the interch-BiF members are gounger from 16. Moreover, the Action will support proving voices from inclusiveness. Target Countries as defined by COGT. The four conference grows will reinfluence travel, participation, accommodation, and substatence costs. Moreover, the initiative will hold training achorise their growth participation will not strong actions during the cent four years and fund short-term scientific missions for staff exchange.





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#### For more information about insect-MP contact

- or Di. G. Porf. Dr. Nills Borchard. (N. Borchard (Cl. G. org.).
- Coordinator of Working Group II: Inclusion and Representation - Dr. Mart Külew (martis store) growth speci.
- Action Chair Dr. Gertje Petersen
  IGertje Petersen@inven.niedemartsen.der
- · or visit the indicative's wallenge.

Potential participants can use the link to apply for the working groups.

#### **Next Steps**

#### Not Yet Achieved



#### Members (n=10)

Armenia, Cyprus, Georgia, Iceland, Ireland, Latvia, Luxemburg, Malta, Norway, and Ukraine



#### Neighbours (n=9)

Algeria, Azerbaijan, the Faroe Islands, Jordan, Lebanon, Libya, Palestine, Syria, and Tunisia



#### Webinar

on inclusiveness and resilience in bioeconomy

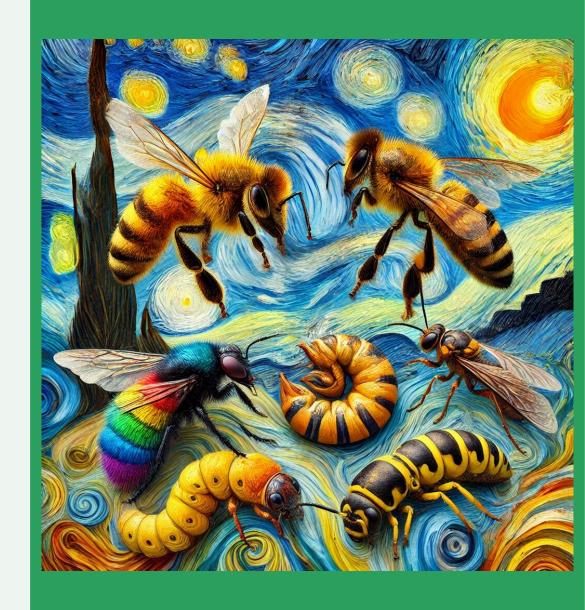
potential speakers from *academia*Lotte Asveld –Delft Uni.

Andre Brasil -Leiden Uni.



#### What the next?

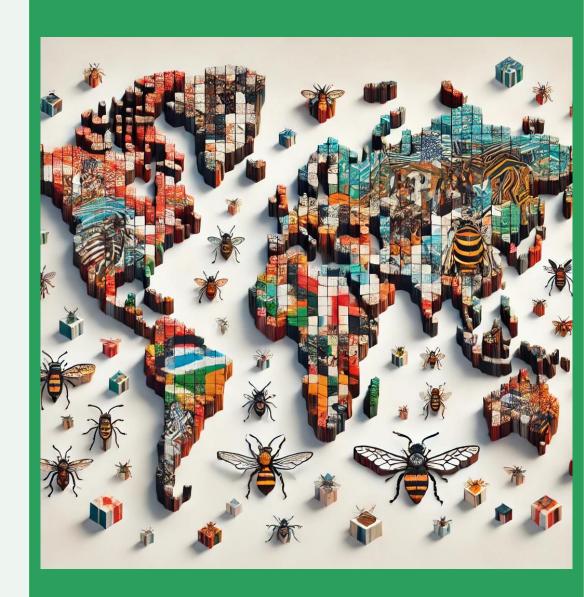
- Bring all reports and presentations to publish a newsletter immediately after the MC meeting
- General announcements, grants, open positions, important news, upcomşng events, project notices, research highlights, collaboration calls
- Introduce the 6 ITC Grantees on website once all the reports are received, Europe/Global grant, year-round open
- Collect potential STSM hosts and visitors
- Did have no face to face meetings in an ITC (Belgium, Germany, Italy), aim for at least one for each year





## **Community Mapping**

- Interactive World Map: to visualize and display membership (EuroFAANG)
- Simple Text Mining: to understand needs and track how the community evolves (yearly)
- 5 most relevant species/research keywords/publications related to Action (transfer to Knowledge Hub)
- «How do you plan to use the knowledge generated/assembled via the Action?»
   (stakeholders-> insights-> communication)
- SWOT Analysis (strengths, weaknesses, opportunities, threats) -inspired by the Cretan Workshop





## Native Language Science

 Science beyond English, overlooked knowledge generated in native languages

A survey in 16 languages revealed that 36% of scientific documents on biodiversity conservation published were not in English<sup>1</sup>

- Species of interest
- Languages/countries of interest (South & East Europe, Asia, Latin America, Africa)
- Topics/keywords of interest (genetic diversity, breeding, mating, phenotyping, gxexc)
- Enrich the Knowledge Hub by local publications



<sup>1</sup>Amano, T., González-Varo, J. P., & Sutherland, W. J. (2016). Languages are still a major barrier to global science. *PLoS biology*, *14*(*12*).



## Knowledge Hub

• Why?

get to know and **reach** each others work

explore collaboration possibilities

contribute community building

pairing early-carreer researchers with experienced

young/ITC/disadvantaged voices better heard

What?

resources, publications, datasets, relevant tools, protocols, best practices, webinars/seminars







## Thank you!

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