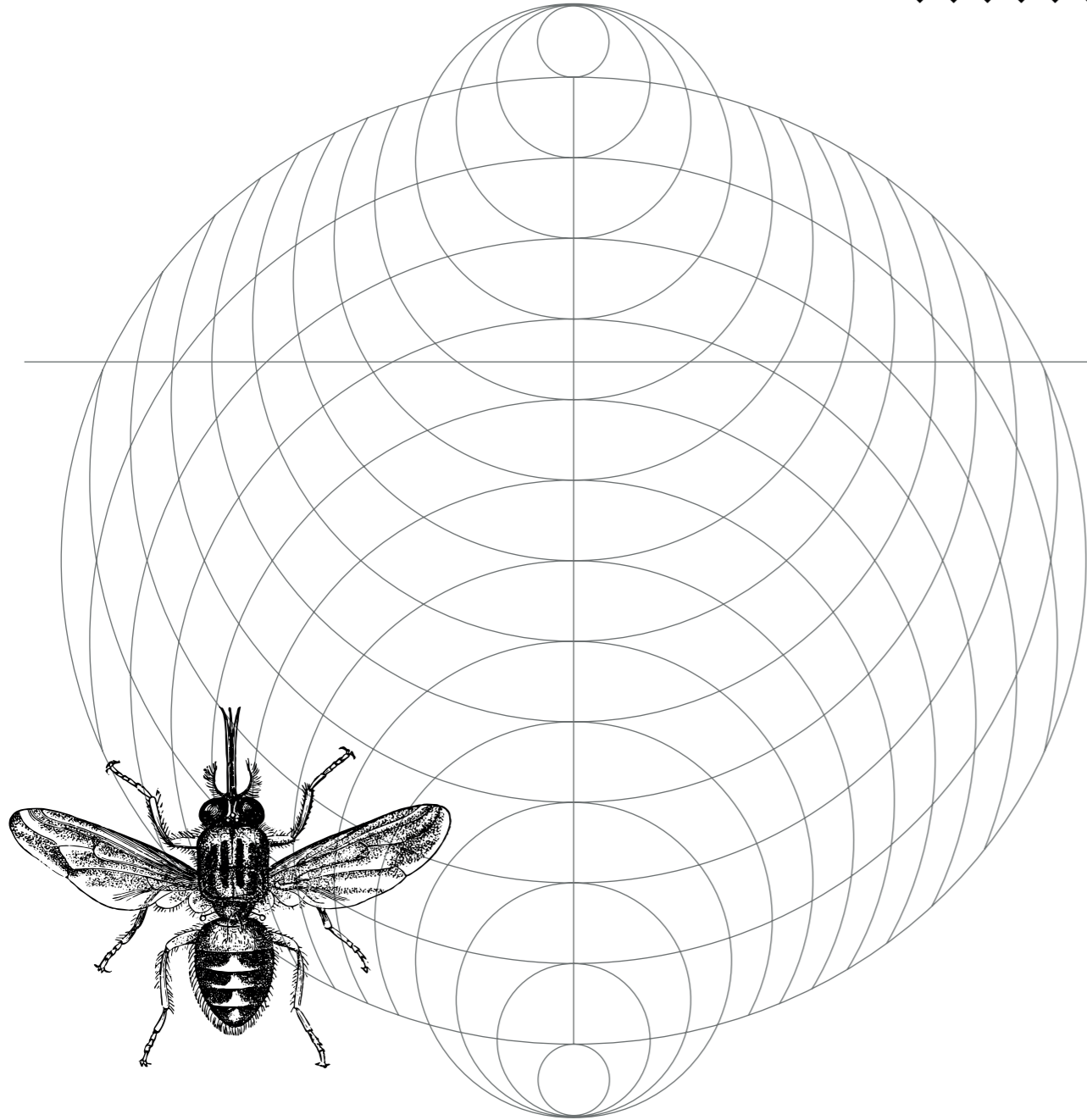


The background of the image is a dense forest of evergreen trees, likely spruce or fir, shrouded in a thick mist or fog. The lighting is soft and diffused, creating a serene and somewhat ethereal atmosphere. The trees are dark green, and the mist is a pale, hazy blue-grey. The overall composition is centered and balanced, with the text and logo overlaid on the left side of the frame.

Bioscentis

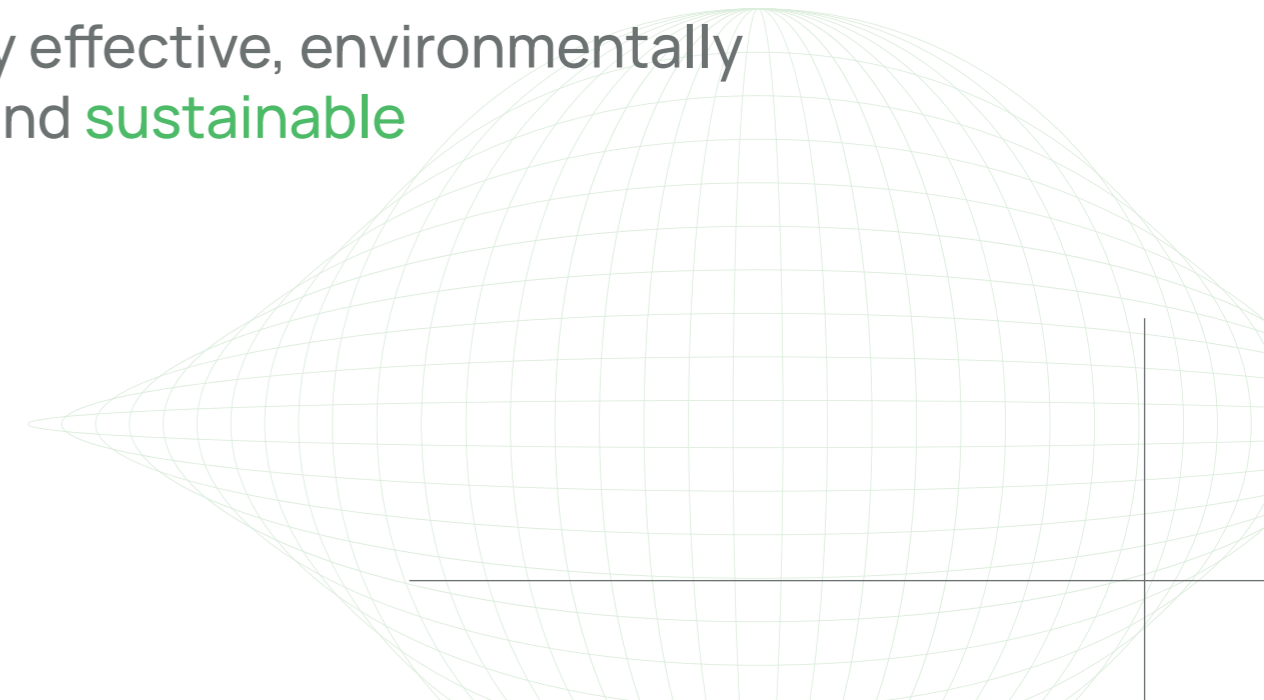
**We are shaping the future
of insect control.**

Ground-breaking insect control solutions for a healthier and sustainable world



**At Biocentis, our mission is clear:
revolutionize how we control
harmful insects**

We leverage on the latest advancements in genome engineering and a unique technological platform to develop **insect control solutions** that are highly effective, environmentally friendly and **sustainable**




Agricultural pests pose a huge threat to food security

25%

of crops destroyed by insect pests



 FAO declared that

700,000,000 people face hunger today

We need 60% more food by 2050

more than

1 B tonnes of additional cereals

280 M tonnes of additional sugar and oil crops

Land is running out: the only way to feed the world is by increasing yields and cutting waste

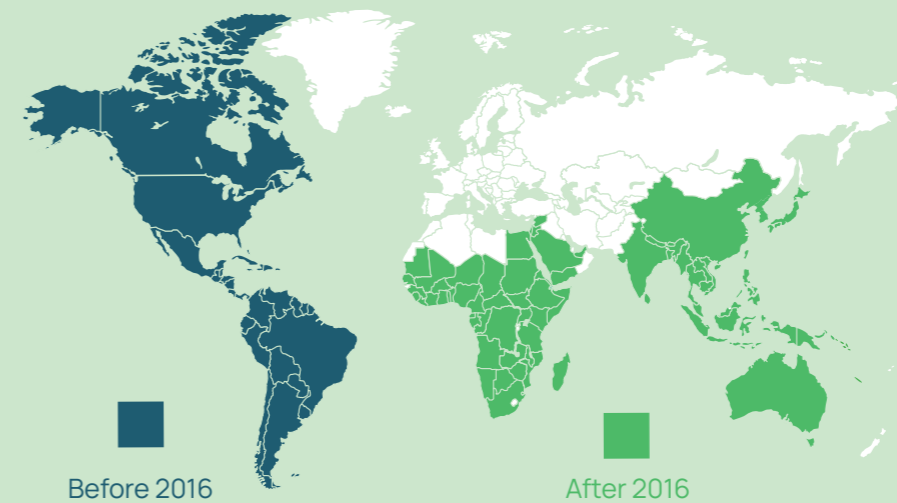
Still today, pests continue to invade and wreak havoc on entire countries and even continents

2005-present: Asian citrus psyllid in Florida, expanding to California & Brazil



-80% decrease in Florida citrus production

2016-present: Fall armyworm invaded Africa, Asia and Oceania, affecting corn, soy, wheat



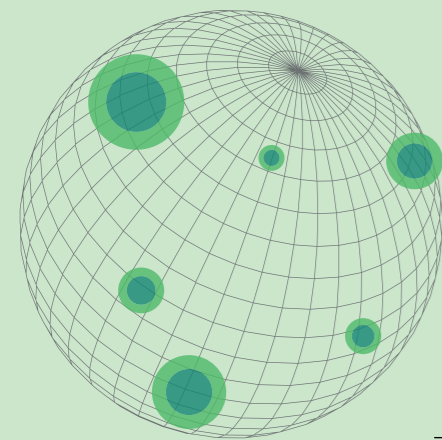
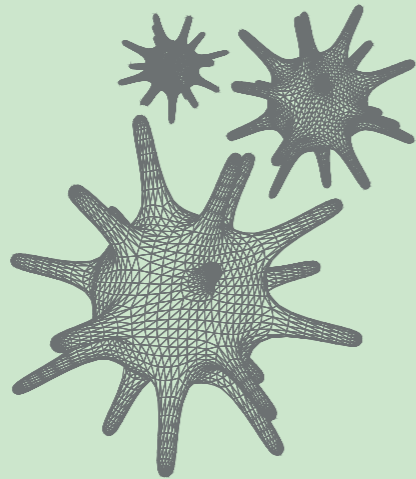
600M people whose food security is at risk

Insect vector-borne diseases are an unsolved global emergency

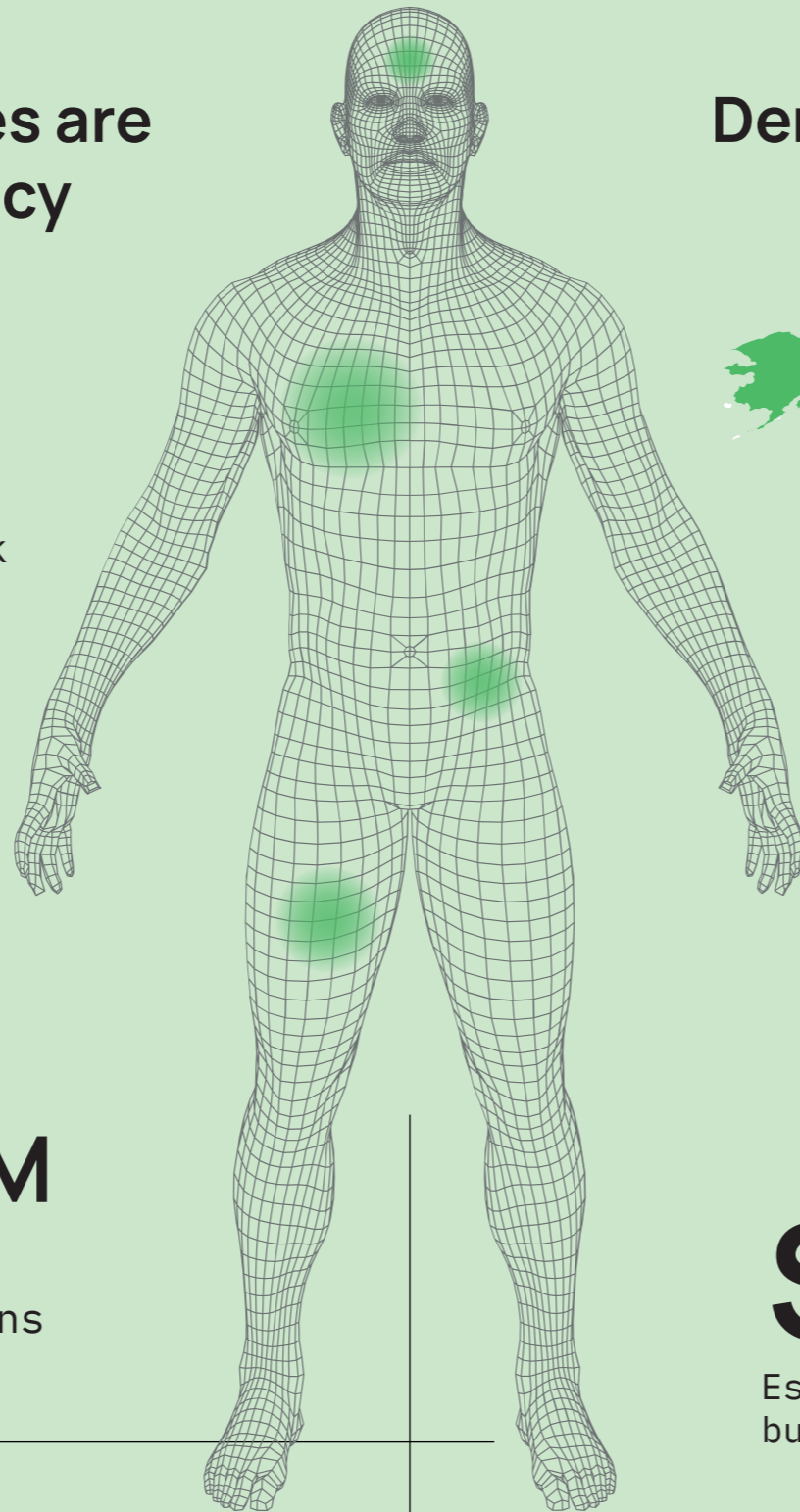


5.5^B
people at risk

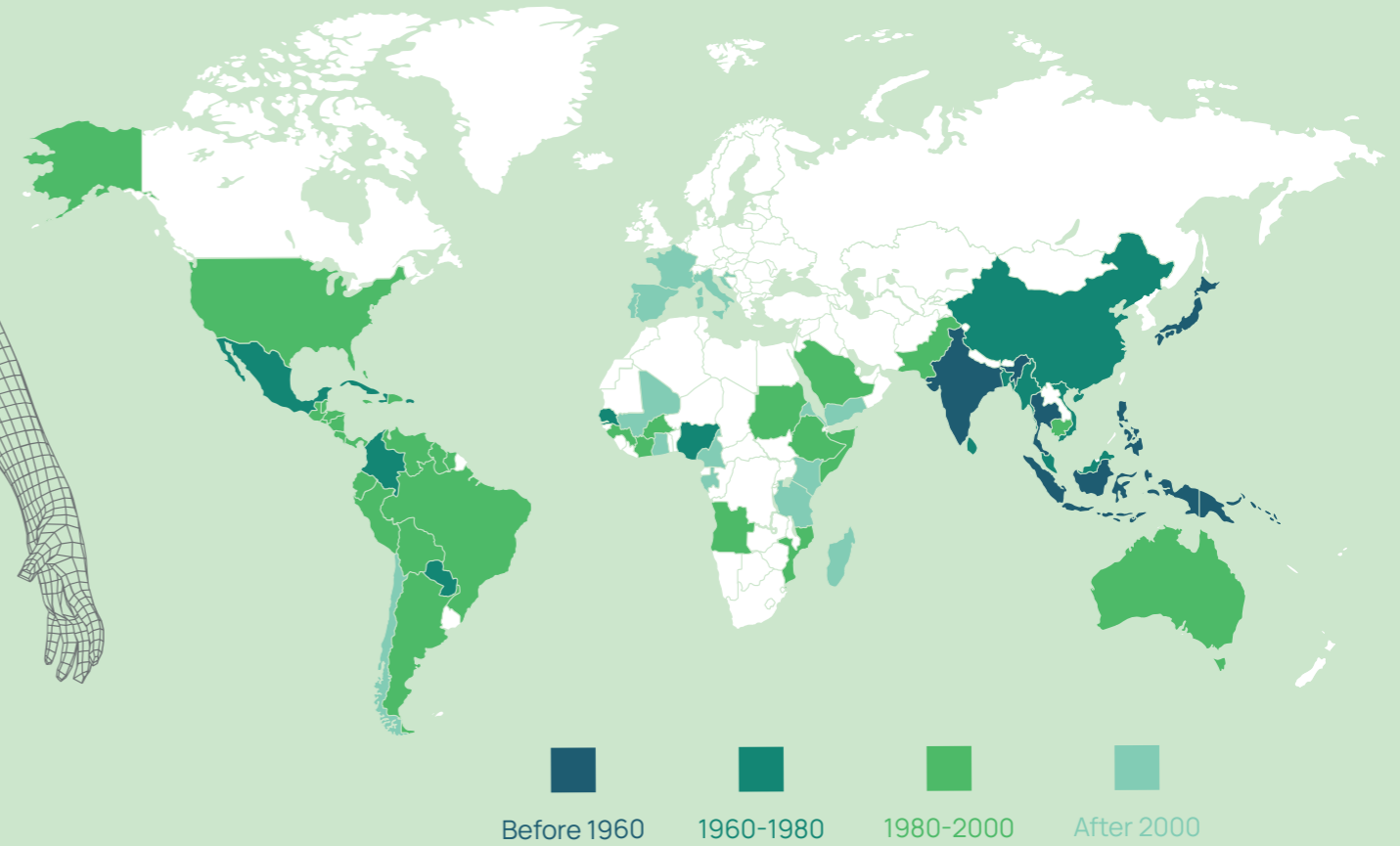
700^K
Annual deaths



400^M
Annual infections



Dengue is spreading at an alarming pace



\$40^B

Estimated yearly economic burden of dengue

> 30^X

Increase in global incidence of dengue in the past 50 years



>>>>>>

Continued reliance on chemical insecticides is unsustainable

> 2700M tonnes of pesticides used annually

> 60% of global agricultural land at risk of pesticide pollution

> 300 insecticides hampered by resistance from pests

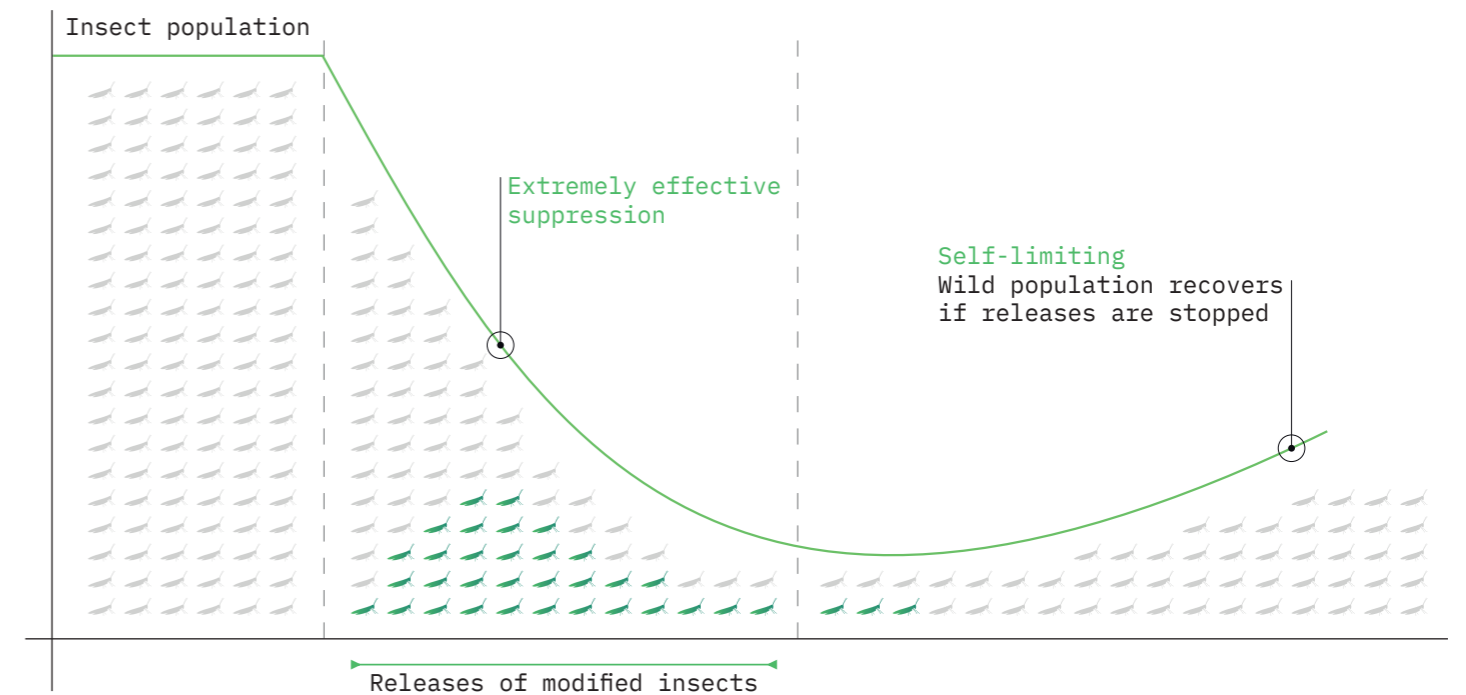
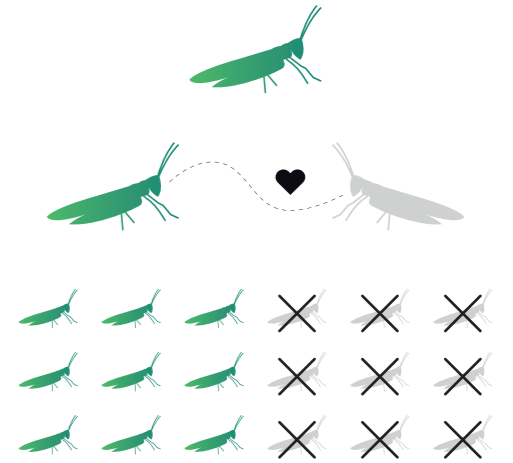
That's where we step in

Our next-generation genetic control technology addresses the need for exceptionally effective and sustainable insect control tools

We engineer insects carrying genetic traits designed to prevent the targeted insect population from reproducing in large numbers, while reducing the use of chemical insecticides to further safeguard the environment

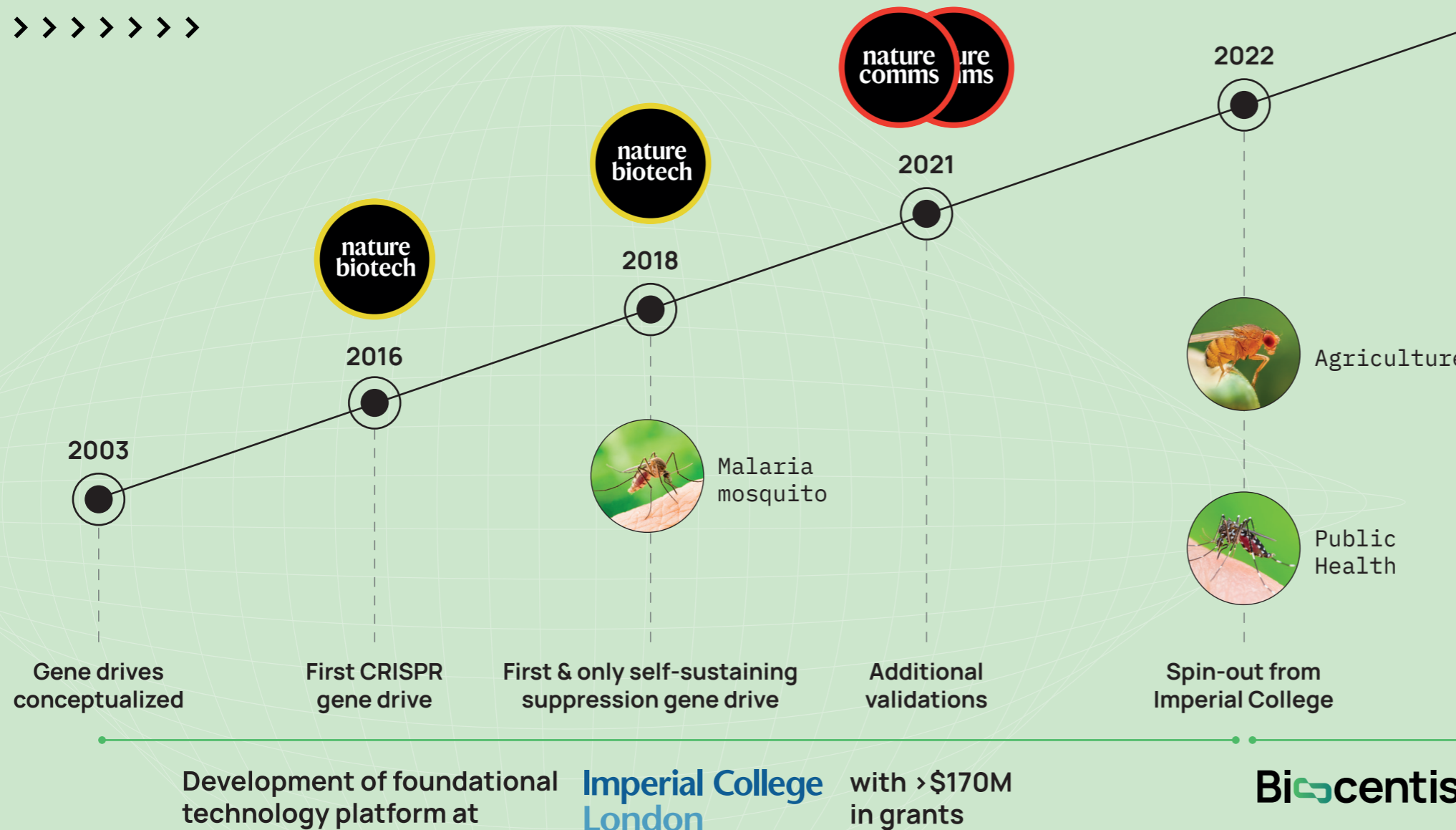
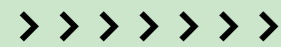
How does it work?

- 01** We introduce a specific modification into the genome of male insects of the species targeted for control.
- 02** We release our males into the environment. Males neither bite nor lay eggs, but they look for females and mate with them.
- 03** The female offspring do not reach adulthood, effectively reducing the size of the harmful insect population. The male offspring inherit the genetic modification for a limited number of subsequent generations. This ensures that they can continue the work.
- 04** The result of the intervention is a strong reduction in the size of the harmful insect population. If releases are interrupted, the modification gradually disappears from the environment.



We build on the gene drive technology invented at Imperial College by our founders

At Biocentis, we are making this exceptional technology reversible and scalable



Effective and affordable

Thanks to its multigenerational effects, our technology offers highly effective localized control at a fraction of the cost of alternatives.

Environmentally friendly and sustainable

Our solutions are species specific, leaving beneficial insects unharmed and preserving the environment and human health.

Reversible and controllable

The self-limiting traits that we introduce fade over time, providing a reversible solution that can be used over specific areas of land.

Scalable

We employ proprietary methods to ensure that our insects can be effectively reared and delivered at scale.

Flexible

We target the most fundamental elements of the insect genome. Because of this, we can adapt it to control various insect vectors and pests.

Mitigates insecticide resistance

Our technology works regardless of insecticide resistance and can help prevent the traits from spreading so that insecticides remain effective.

Product pipeline

Our **technology platform** is built on universal ingredients that can be tailored to develop solutions for the **sustainable** control of various insect vectors and pests

We are already working on **two of the most harmful insect species**, and we are actively evaluating opportunities to expand our product pipeline

Current product pipeline



AEDES AEGYPTI

Yellow fever mosquito

The *Aedes aegypti* mosquito is a global health threat due to its role as a vector of arboviruses, including dengue fever, yellow fever, Zika, and chikungunya. Of these, dengue fever poses the greatest burden, affecting 100 million people annually and causing over \$40B in yearly economic damages. Historically confined to tropical regions, *Aedes aegypti* and the diseases it vectors are spreading to temperate regions.

Portfolio

Public Health

Diseases transmitted

Dengue fever, yellow fever, Zika, chikungunya

Geographical distribution

Asia, Africa, Americas, Europe, Oceania



DROSOPHILA SUZUKII

Spotted wing drosophila

Drosophila suzukii is a highly invasive fruit fly native to South-East Asia. Since 2008, it has spread into Europe, the Americas and Africa and is threatening the cherry and berry industry. *Drosophila suzukii* damages fruits by laying eggs inside, making them protected from insecticides. This creates huge problems for farmers and results in losses estimated in the order of several billion dollars.

Portfolio

Agriculture

Main crops damaged

Berries, cherries, soft-skinned fruits

Geographical distribution

Asia, Africa, Americas, Europe



“Biocentis was founded to bring about a paradigm shift in the way we control harmful insects. We are developing groundbreaking solutions with unparalleled efficacy, all while ensuring environmental sustainability and affordability.”

Andrew Hammond, PhD
Co-founder & Head of R&D

Our executive team

With a presence in the UK and Italy, we leverage the experience of a diverse and accomplished team from 7 countries with unparalleled experience in the scientific and technological fields and an outstanding track record in company building and management.



Giorgio Rocca
CEO



Andrew Hammond, PhD
Head of R&D



Federico Guelpa
Head of Strategy



Kyros Kyrou, PhD
Senior R&D Lead



Anna Strampelli
R&D Strategy Manager



Matteo Rucco, PhD
Data Science Manager



Gerard Terradas, PhD
R&D Lead

Our advisory board

Our advisors are recognized as world leaders in their respective fields, bringing a wealth of experience that complements our team's unparalleled expertise.

They are technology pioneers, Nobel laureates, expert regulators and seasoned executives.



Teodoro D'Ambrosio



Andrea Crisanti, PhD



Luke Alphey, PhD



Boet Glandorf, PhD



Mario Rasetti, PhD



Peter Agre, PhD



Gianluca Fusco

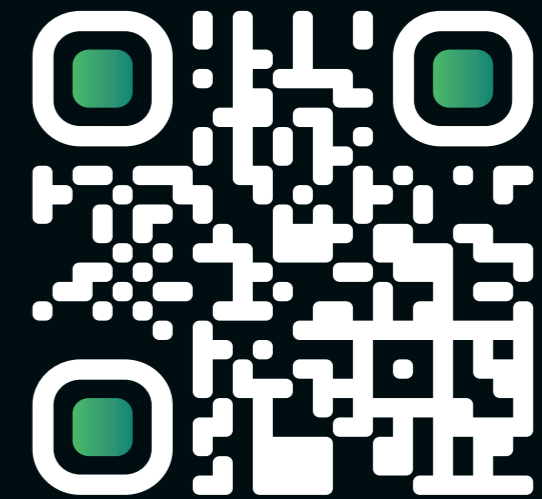
“Our solutions will alleviate the burden imposed by vector-borne diseases, improve agriculture productivity, and reduce the damage from the use of traditional pesticides, addressing the agenda of a future green economy – a sustainable model that combines reduced environmental impact with significant improvements in the health and livelihoods of communities around the world.”

Andrea Crisanti, PhD
Co-founder & Lead Advisor





Interested in learning more?
Contact us at info@biocentis.com



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