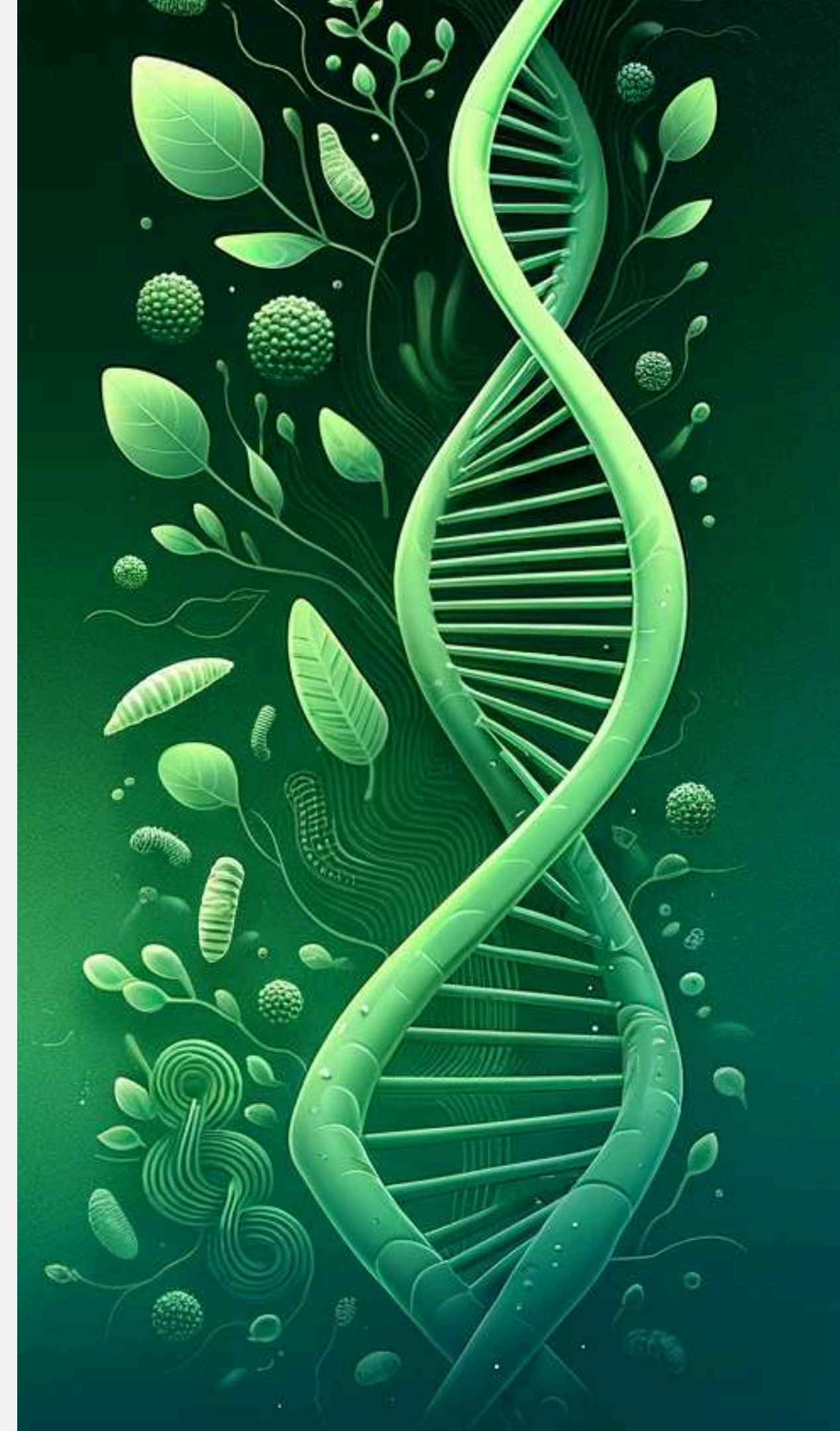




ENTOGENIX BIOSOLUTIONS

EMPOWER THE BIOECONOMY





IN LOVING MEMORY OF DR. LILIA GUREVICH-VASILKOVSKY

DR. LILIA (LILY) GUREVICH-VASILKOVSKY (38)

MOTHER OF TAMAR AND DEKEL, DAUGHTER OF ROZALIA AND DAVID

WAS A DISTINGUISHED SCIENTIST WITH A DEEP PASSION FOR HER FIELD. BORN IN KISHINEV, MOLDOVA AND MADE ALIYAH TO ISRAEL AS A CHILD, SHE EXCELLED IN HER STUDIES, PURSUING A CAREER IN MOLECULAR BIOLOGY AND BIOCHEMISTRY. KNOWN FOR BLENDING HER LOVE OF SCIENCE FICTION WITH REAL-WORLD RESEARCH, LILIA'S WORK PUSHED SCIENTIFIC BOUNDARIES. SADLY, LILIA WAS BRUTALLY MURDERED BY HAMAS AT NOVA FESTIVAL (7.10.23), A CELEBRATION THAT ENDED TOO SOON. LILIA'S LEGACY CONTINUES THROUGH THE LASTING IMPACT OF HER RESEARCH AND THE VIVID MEMORIES CHERISHED BY THOSE WHO KNEW HER.





A GLOBAL WASTE CRISIS

2 BILLION TONS

of municipal solid waste
produced annually

400

million tons of
plastic waste

7.3% GHG

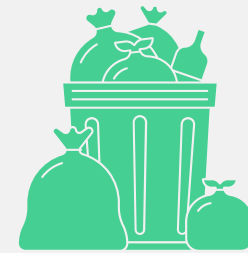
come from waste



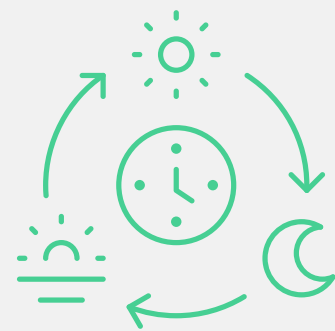
Municipal Solid Waste (MSW)

Everyday trash from homes, offices, and cities

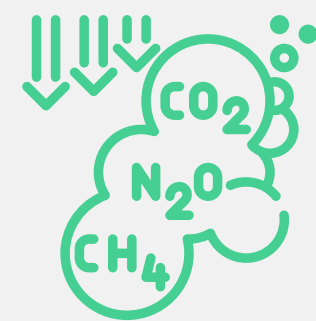
OVER 2 BILLION TONS
generated globally per year



Includes plastics, food, paper, textiles

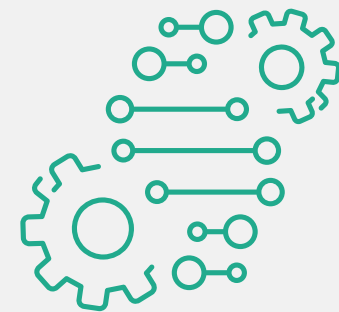
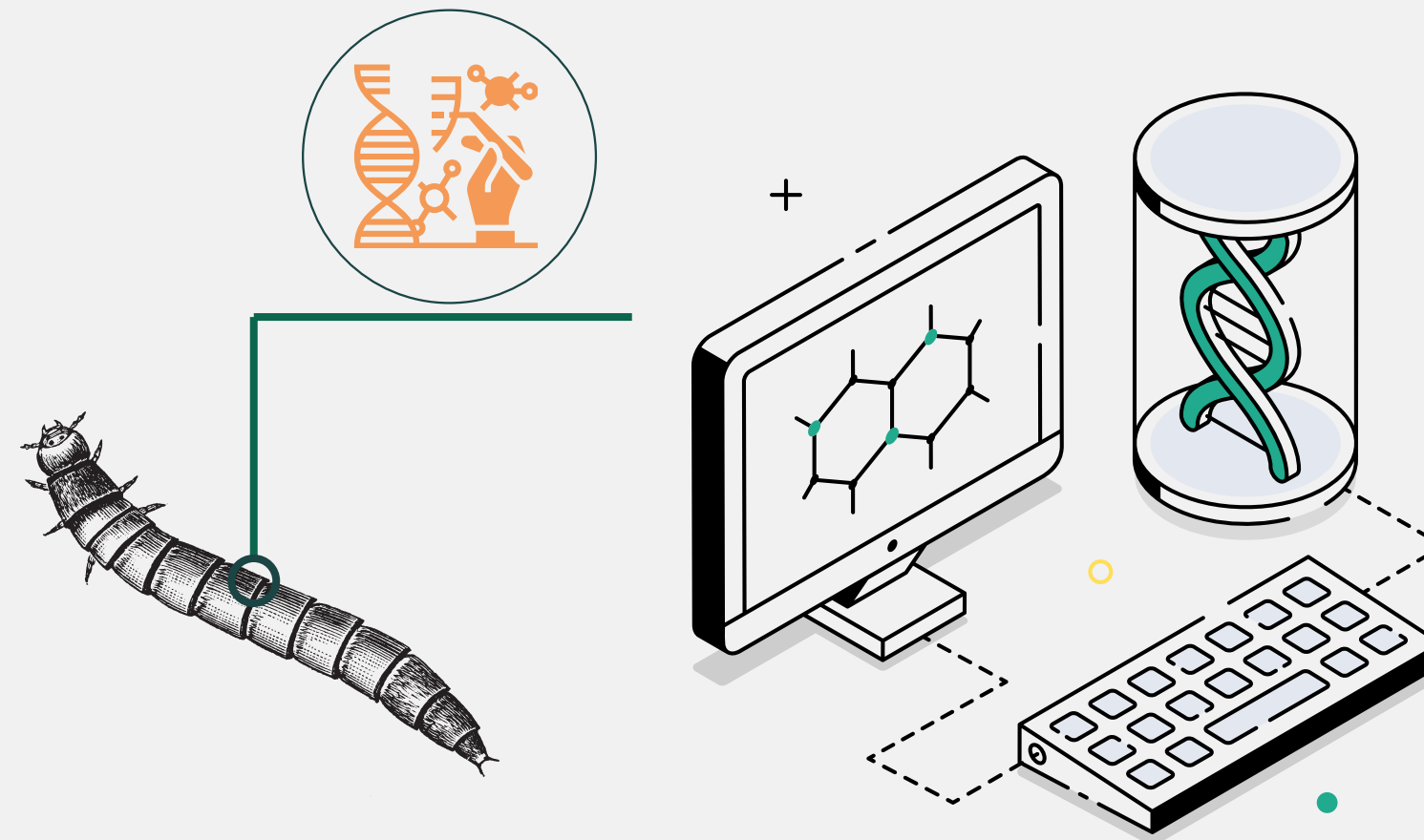


Generated daily — it's constant, growing, and underutilized



Major source of pollution & methane emissions

Entogenix solution: **BIOTECHNOLOGY**



BIOENGINEERED INSECTS
treating organic and plastic waste



How it can work:

UNLOCKING SYNERGY – BIOENGINEERED INSECTS + BIOGAS



**ENTOGENIX ENHANCES BIOGAS EFFICIENCY AT ITS BIOLOGICAL CORE:
unlocking greater energy yield and sustainability.**

How it can work: FROM PLASTIC TO BIOENERGY



5X MORE EFFICIENT

than stand alone biogas or insect-based waste treatment



BIOENGINEERED INSECTS

Pre-treatment of
Municipal Solid Waste
and plastic

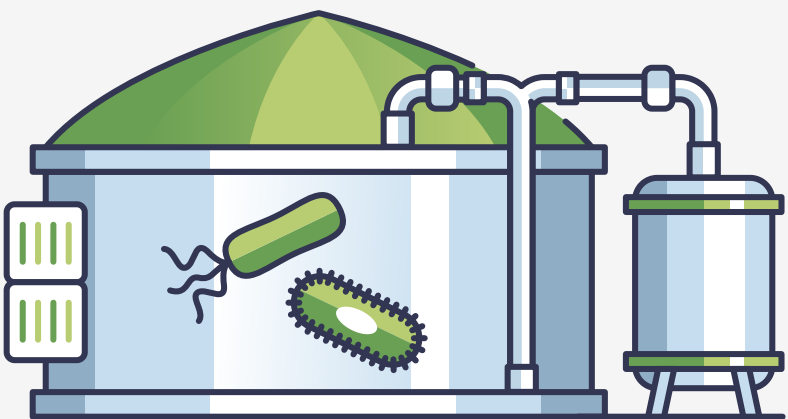


VALUABLE BY-PRODUCTS



BREAKDOWN OF PLASTIC

Biological solution

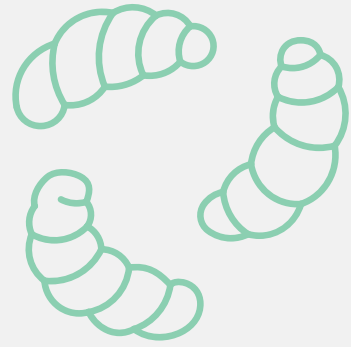


ENHANCED BIOGAS PRODUCTION

Boosting biomethane yield by 30%

Feasibility & Innovation

WHY IS IT FEASIBLE?



Built on proven insect
bioconversion systems



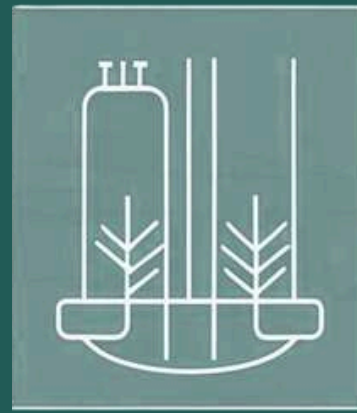
Use of validated genetic
engineering tools



WHAT MAKES US UNIQUE



First insect platform for
enzymatic plastic degradation

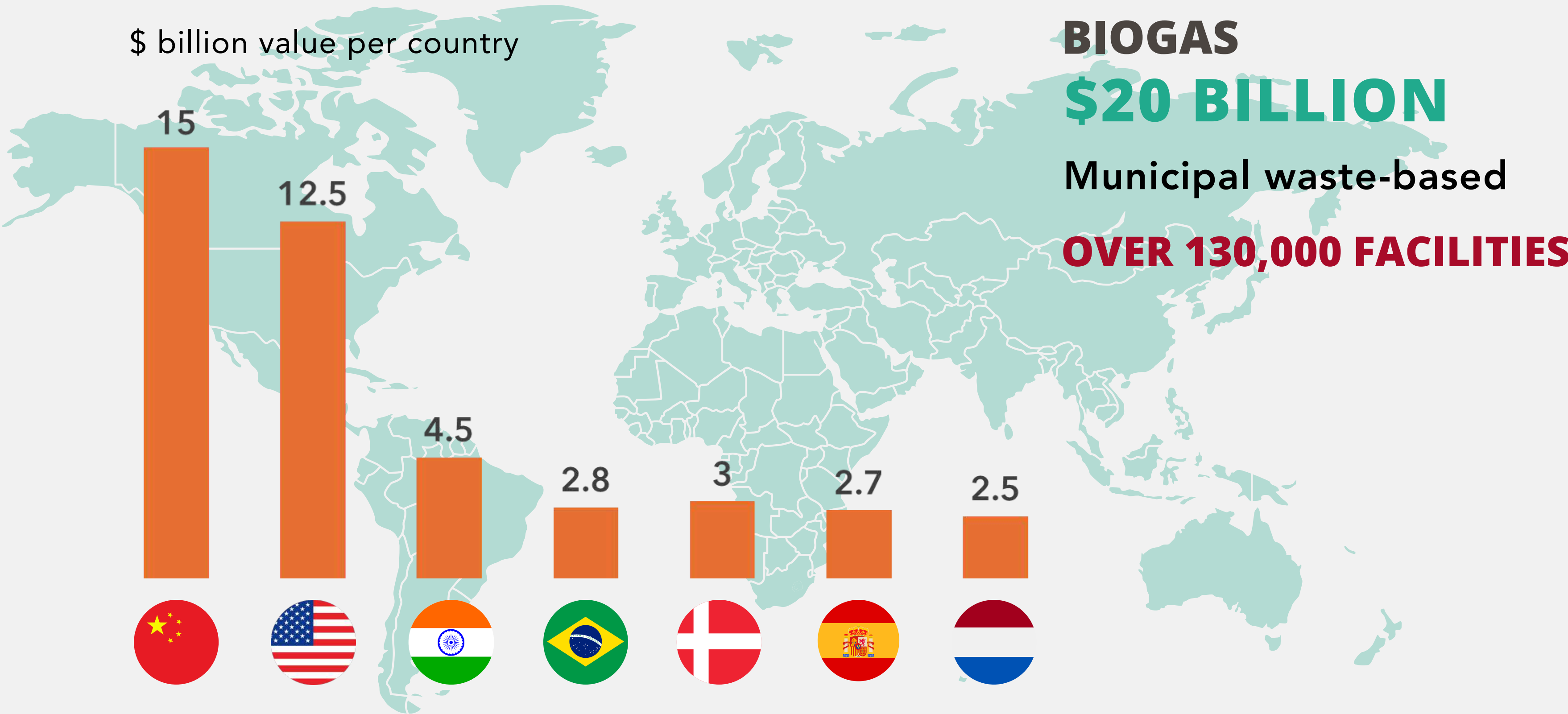


Integrated with biogas
and biofuel production



Scalable and modular

Market opportunity



Scalability and Long-term Viability

1 FACILITY 100 TON/DAY

= **\$4.5MLN**
annual revenue

100 FACILITIES

= **\$450M**
annual revenue

130,000
potential biogas facilities

REVENUE STREAMS



Selling
Bioengineered
Insects



Biogas
Efficiency
Increase



Plastic
Breakdown
Through
Biological
Processing



By-Product
Sales
(Insect Oil,
Protein)



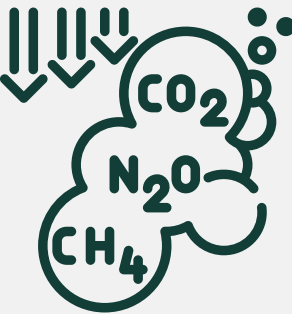
Environmental & Social Impact

ENVIRONMENTAL BENEFITS

SOCIAL BENEFITS



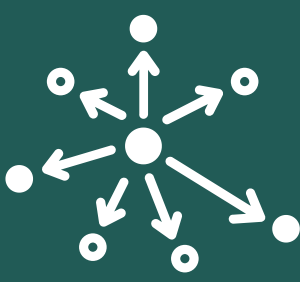
Diverts plastic and organic waste from landfills



Reduces methane emissions from unmanaged decomposition



Generates renewable energy and valuable byproducts (oil, protein)



Enables inclusive, decentralized deployment



Supports local energy generation and economic resilience

RISK ASSESSMENT & MITIGATION

NO ENVIRONMENTAL RELEASE

NO FOOD/FEED

CONTAINED USE ONLY



GMO CONCERN



TECH RISK

**LEVERAGING EXISTING
PLATFORMS**

**VALIDATING ENZYMES
BEFORE MARKET ENTRY**

**DIVERSIFIED REVENUE
CHANNELS**

**MULTIPLE WASTE
STREAMS**



MARKET RISK



EXECUTION RISK

**STRONG FOUNDER-LED
TEAM**

MODULAR PILOTING

PROVEN SCALABILITY

TEAM

Advisory Board



Dr. Anna Melkov

FOUNDER, CEO

Entrepreneurial scientist with a Ph.D. in Cellular and Molecular Biology and a strong track record in insect biotechnology. Founder and CTO of BugEra Ltd



Eyal Flom

GENERAL COUNSEL

Independent lawyer specializing in startups, from inception to public listing. Co-founder, General Counsel, and board member of Innocan Pharma, and has served on the boards of NurExone and Revium. Legal counsel to the Israeli Pharmaceutical Association since 1995, he holds an LLM and an MBA.



Sarai Kemp

AGRIFOOD & CLIMATE TECH
VENTURE CAPITAL: INVESTOR,
MENTOR, TECH SCOUTER,
STRATEGY BUILDER.

Senior Principal at a top venture fund with 10 years in agrifood and climate tech, supporting early-stage startups with strategy, scaling, ESG, and funding.



Dr. Silvia Noiman

SEASONED EXECUTIVE AND
SERIAL ENTREPRENEUR

Leading executive with over 30 years of experience in Biotechnology, have decided to apply her vast experience in developing scientific innovations also to one of the most pressing challenges of our times, global warming.