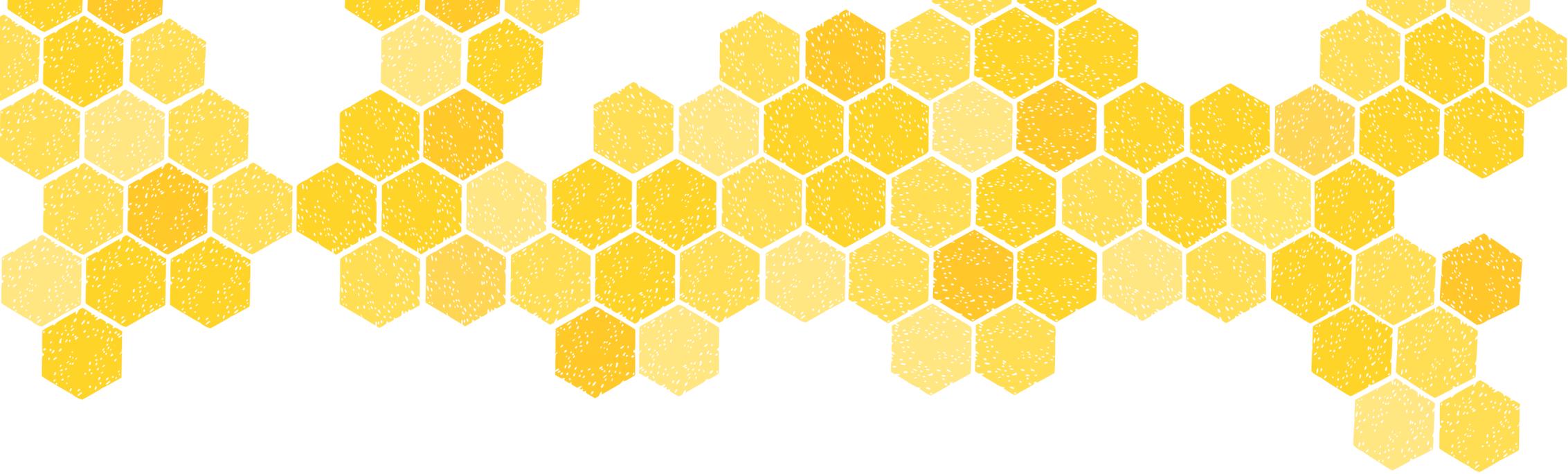


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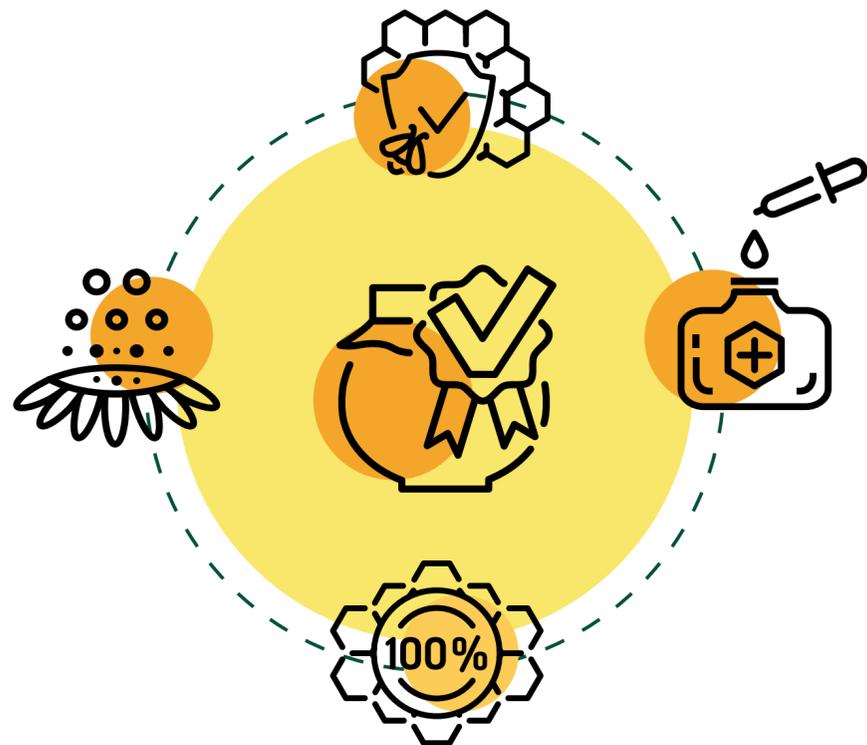
Keep the world sweet

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INTRODUCTION



Bee-io produces honey without bees in a process that combines natural nectar flowers with unique biological processes that turn the nectar into honey.

The demand for honey continues to rise along with population growth. Honey is a miraculous product, the fruit of a unique interaction between the plant and animal kingdoms.

Bees are perfectly adapted to pollinate, helping plants grow, breed and produce food. They do so by transferring pollen between flowering plants and therefore keeping the cycle of life turning.

There is growing public and political concern at bee decline across the world that includes loss of habitat and food sources, exposure to pesticides, and the effects of climate breakdown.

ABOUT US

OUR TEAM



OFIR DVASH
CEO

Ofir (B.Sc. in Engineering from the Ben Gurion University and M.Sc in Economics from the Hebrew University) has over 12 years of experience leading the development of military and commercial products, from initial concept to a complete and final product. In the past 5 years leading GKI Group's technological innovations while building and managing three start-up companies.



DR. EFRAT DVASH
VP R&D

Dr. Efrat Dvash Riesenfeld earned her PhD In Molecular Genetics from the Weizmann Institute of Science (2015). Efrat was awarded an American Diabetes Association fellowship and conducted her postdoctoral research at Harvard Medical School (2018). In the past 2 years she was the Director of Breast Cancer Translational Research Laboratory at Tel Aviv Sourasky Medical Center (Ichilov Hospital).

Company Information:



Offices and laboratory situated in Park Hamada, Rehovot, Israel



A team of 8 Ph.D. microbiology researchers

ADVISORY BOARD



PROF. MENACHEM RUBINSTEIN
ADVISOR

Prof. Menachem Rubinstein is a member of the Department of Molecular Genetics at the Weizmann Institute of Science. During his career, Prof. Rubinstein's research focused on questions with bio-chemical and molecular aspects, while using cutting edge technological and scientific techniques. His studies led to the development of three drugs used for autoimmune diseases, viral infections and cancer. Prof. Rubinstein has vast experience in protein expression, isolation and characterization. Many of his discoveries led to registration of patented inventions.



PROF. GUY BLOCH
ADVISOR

Professor Guy Bloch is one of the top research scientists from the Department of Ecology, Evolution, and Behavior (EEB) at The Hebrew University of Jerusalem. Professor Bloch's main research interests are the evolution and mechanisms underlying sociality and social behavior, using bees as a model system. Professor Guy Bloch has also years of experience working as a scientific advisor to Pollination Services Yad-Mordechai



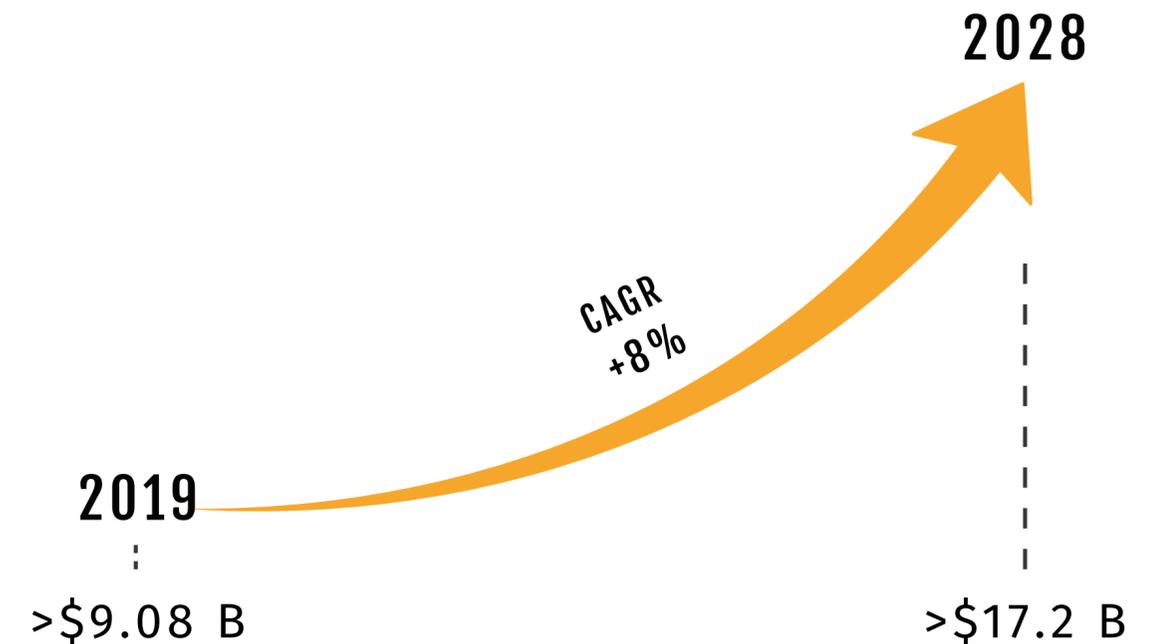
PROF. YUVAL SHOHAM
ADVISOR

Prof. Yuval Shoham from the Department of Biotechnology and Food Engineering at the Technion institute. Received his Ph.D. in Biochemical Engineering from M.I.T. Served as the director of The Lorry I. Lokey Interdisciplinary Center for Life Sciences and Engineering, and as the President of the Israel Society for Microbiology. Professor Shoham's research focuses on the catalytic mechanisms and structure-function relationships of industrial enzymes. He was involved in several industrial projects, including the development of a large-scale process for bleaching paper pulp and an enzymatic process for making low calorie natural juices.

MARKET OPPORTUNITIES

HONEY MARKET SIZE

- + The global honey market size was valued at USD 9.08 billion in 2019.
- + Honey market size is expected to reach a of 17.2 billion USD in 2028.
- + Expected compound annual growth rate (CAGR) of 8%.



The factor driving the market growth includes:

- + High demand for nutritious food products (super food) such as honey, as part of maintaining a healthy lifestyle.
- + honey is becoming widely used in many applications: food & beverages, cosmetics and pharmaceuticals.
- + World population growth.

Source: The global honey market and Ukraine challenges and trends

2020 - HONEY WAS DECLARED THE MOST PREFERRED SWEETENER IN THE USA

Which of the following sweeteners is your favorite?
(n= 2,000, Gen Pop)

Goodness Seekers
(n= 350)

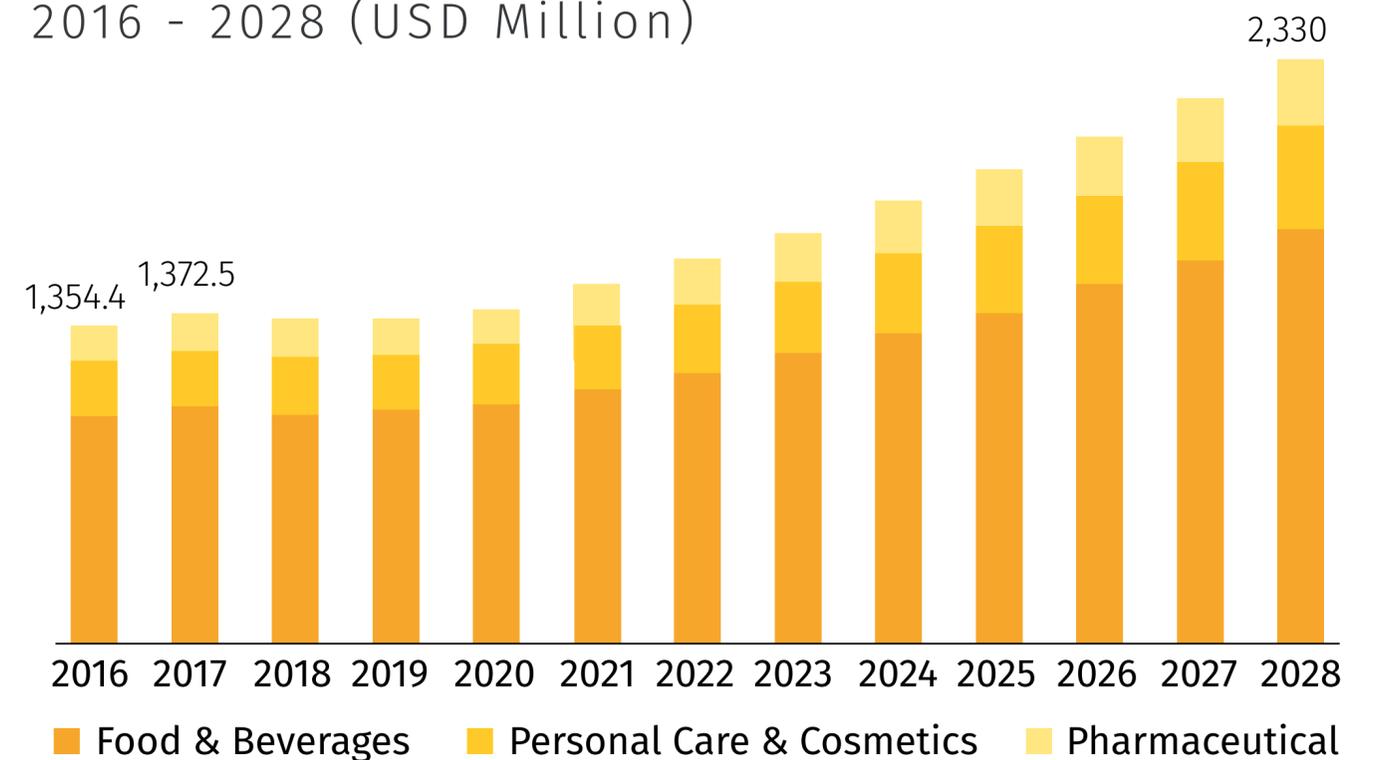
Honey	26%	31%
Granulated sugar (or white sugar)	23%	15%
Brown sugar	11%	8%
Non-calorie sweeteners (like Splenda or Sweet N Low)	9%	11%
Maple Syrup	9%	8%
Stevia	9%	12%
Other sugar (like sugar in the raw or turbinado)	4%	3%
Monk fruit	3%	3%
Agave nectar	3%	3%

Source: The attitude & Usage Study NHB | 2020

THE U.S HONEY MARKET

- + Honey is an excellent source of numerous nutritional ingredients including vitamins, minerals, calcium, and antioxidants.
- + Honey has several medicinal properties and can help improve metabolic activities, maintain blood pressure levels, and can even heal burn wounds.
- + Honey is widely used in many applications: food & beverages, cosmetics and pharmaceuticals.

The U.S honey market size, by application
2016 - 2028 (USD Million)

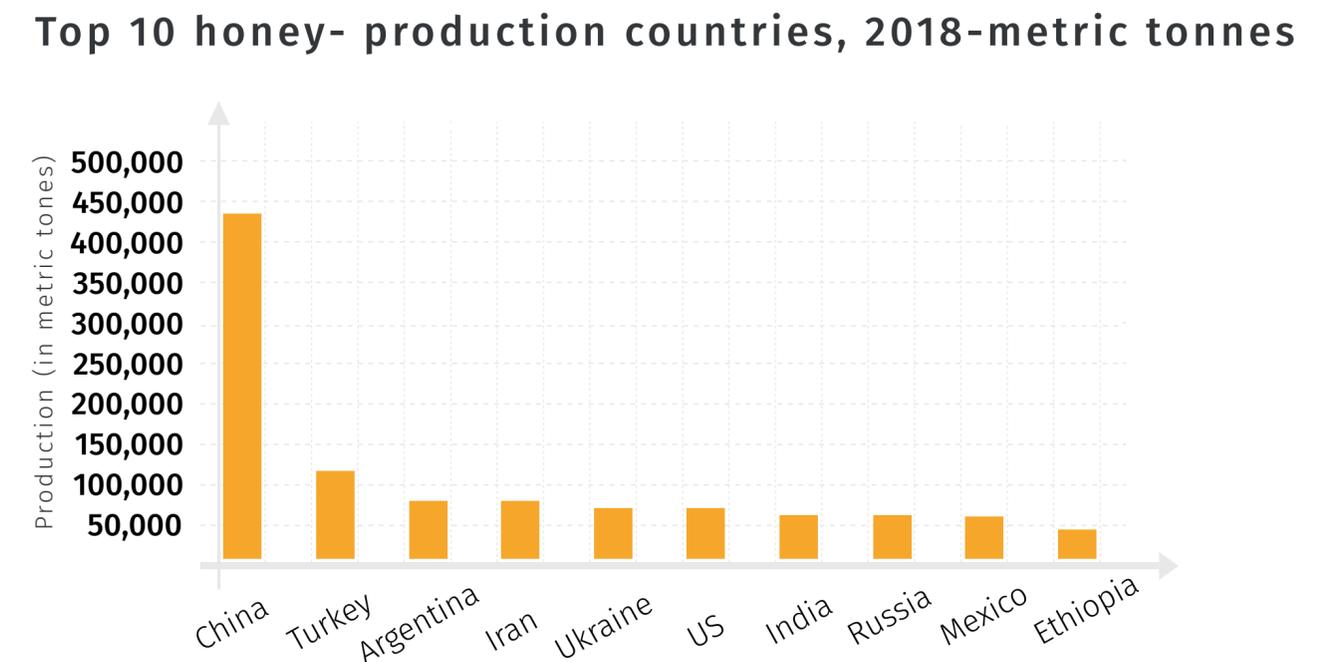
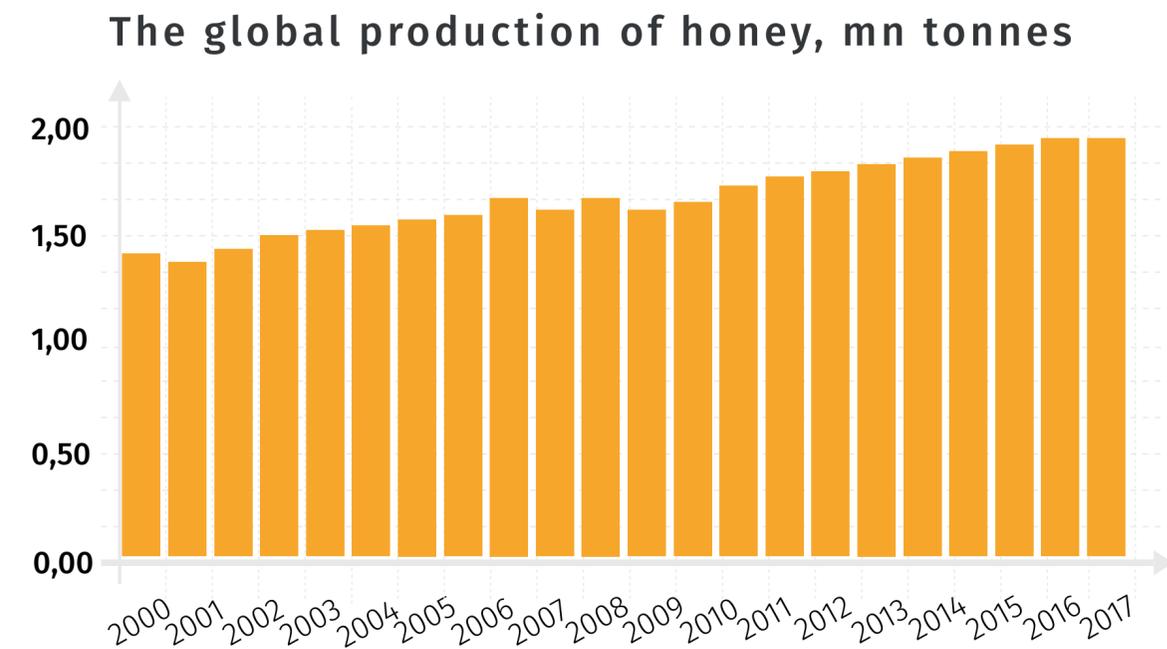


Source: Grand View Research

THE GLOBAL PRODUCTION OF HONEY

Global Production of honey is limited and, in some countries, declining due to different factors:

- + moving away from honey production to pollination services.
- + Sensitivity of the Honeybee.
- + Climate changes and rain absence in many places in the world.



Source: The global honey market and Ukraine challenges and trends, Food and Agriculture Organization (FAO) of the United | FAO Statistics Division 2020

KEY PLAYERS MAP

Pure Honey



Honey Sustitutes



Honey Based Cosmetics

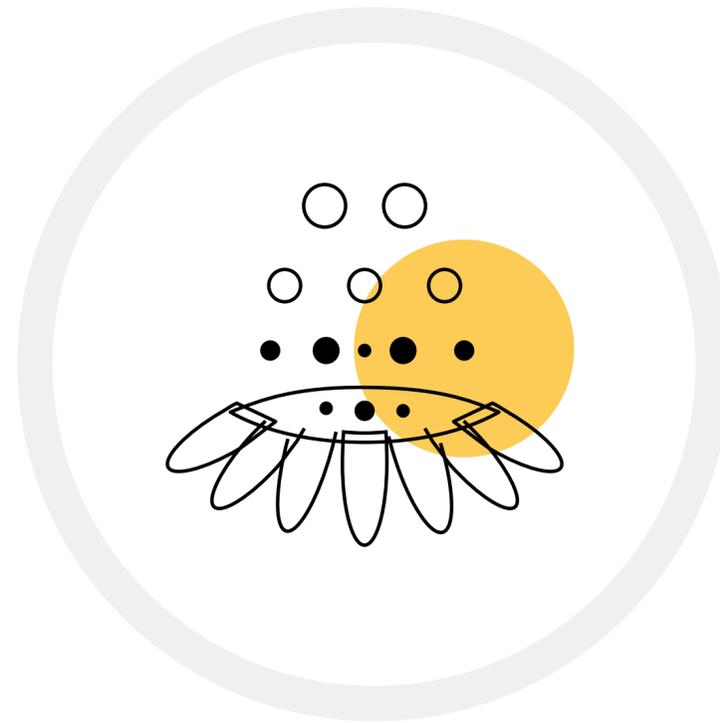


MAIN CONCERNS

THREE INHERENT PROBLEMS:



ECONOMICAL



ENVIRONMENTAL



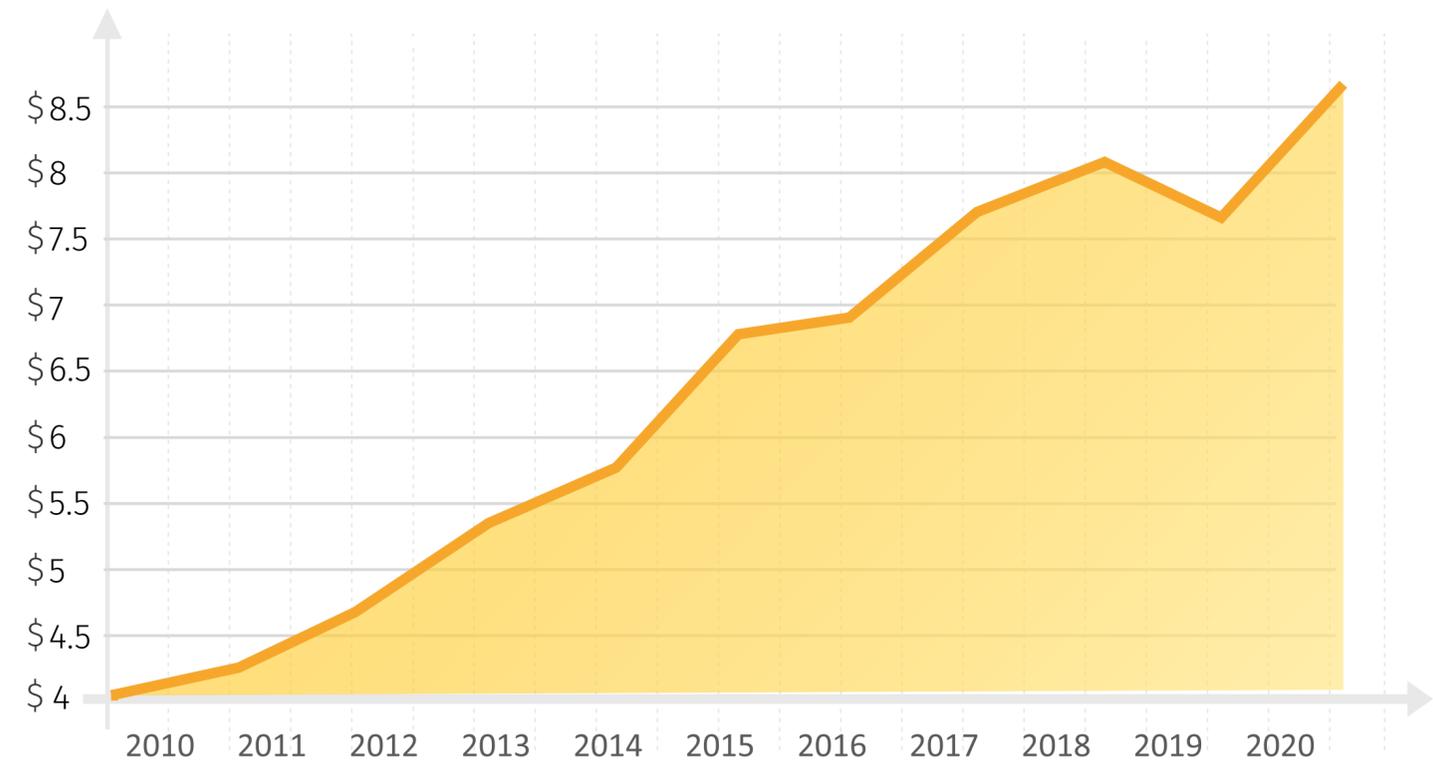
ETHICAL



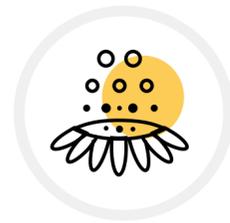
ECONOMICAL

- + World consumption is increasing faster than production.
- + Honeybee populations are declining due to climate change, parasites, contaminations and viruses.
- + Honey is getting more expensive.

Average retail honey price per pound
Across all reporting regions



Source: <https://adventuresinbeeland.com/2019/01/14/how-many-honey-bees-are-there-a-2019-update/>
<https://www.honey.com/honey-industry/statistics/retail-honey-price> (Data from Bee Culture magazine)

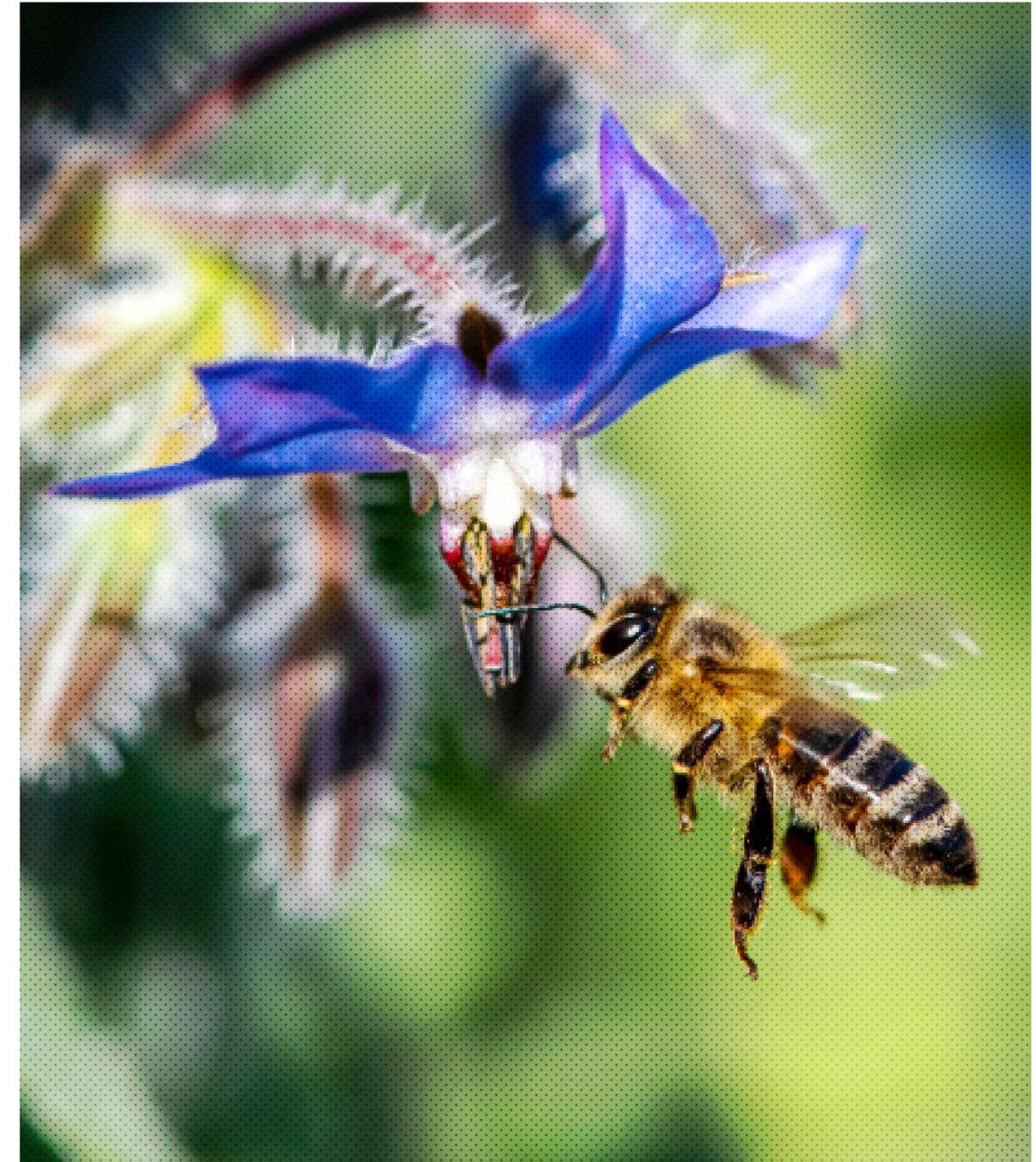


ENVIRONMENTAL

“
Albert Einstein: *“If the bee disappeared off the surface of the globe then man would only have four years of life left. No more bees, no more pollination, no more plants, no more animals, no more man.”*
”

Current honey manufacturing has led to:

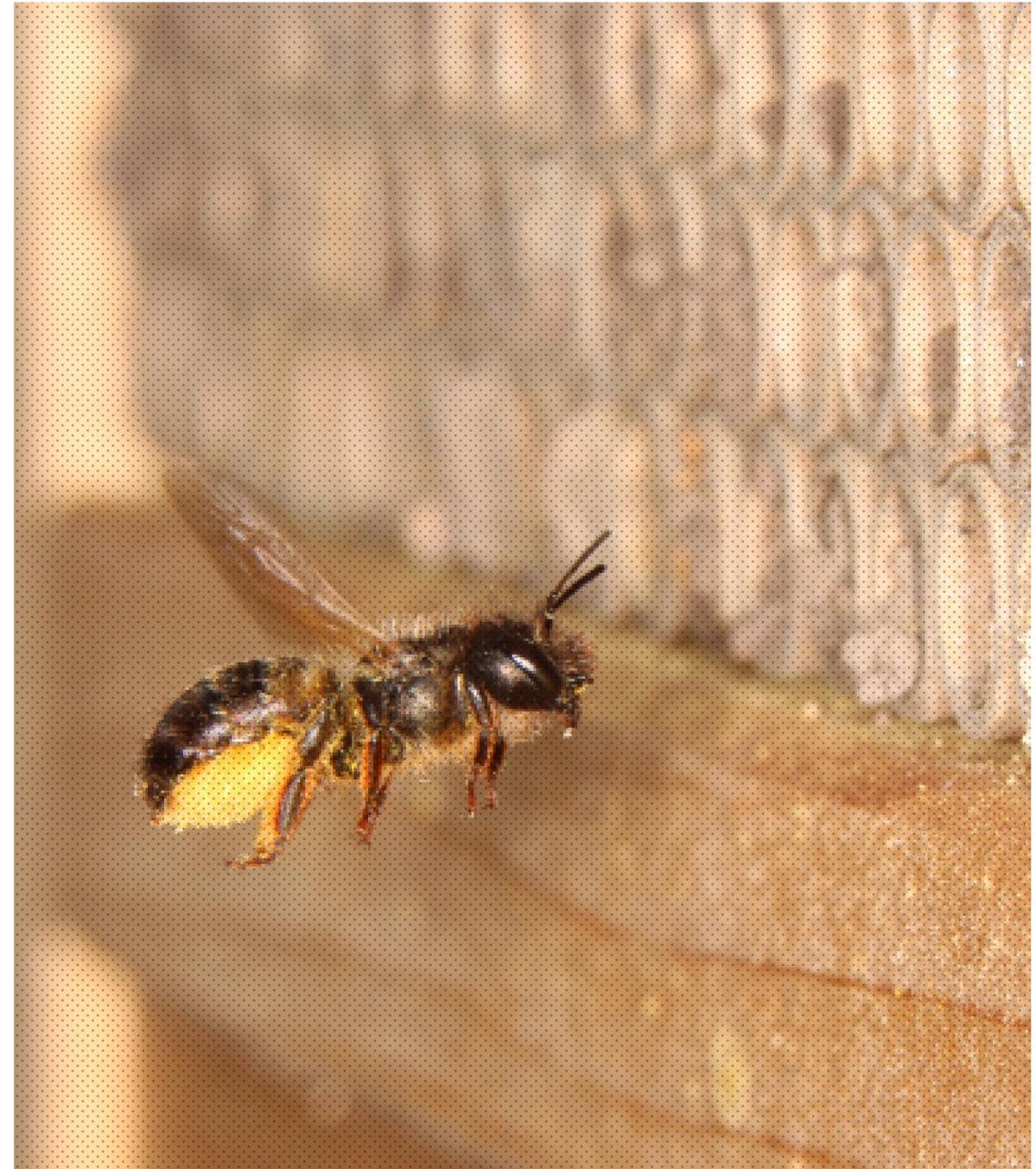
- + Less native pollinator
- + The mysterious Colony Collapse Disorder (CCD)
- + Increased vulnerability of honeybees
- + Climate changes, desertification and rain absence in many places in the world, reduce the number of flowers and flowers nectar.





ETHICAL

- + Honeybees are bred and managed as factory-farmed animals with poor conditions including stress in transportation, injuries and living in dense conditions.
- + The large amount of managed bees has accelerated the reduction of many other bee species around the world.
- + Humans choose to eliminate entire colonies by taking all their honey in cold seasons.



HONEY PRODUCTION PROCESS TODAY

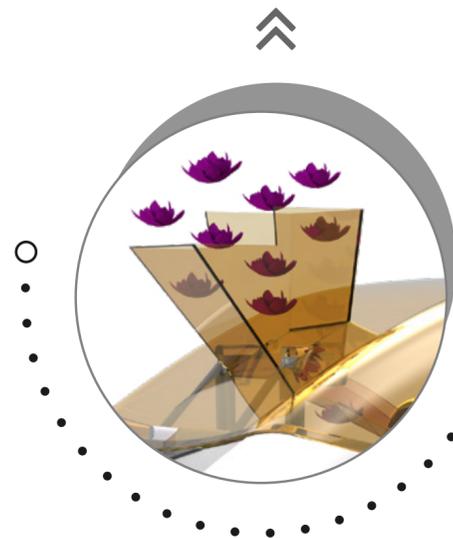


- + This time-consuming process has not changed for decades.
- + Highly sensitive process which depends on many unexpected changes.
- + Pressure to use natural nectar substitutes.

OUR SOLUTION

BEE-IO - PURE HONEY WITHOUT A BEE

1 NECTAR PRODUCTION
production of the sweetest nectar mother nature has to offer



3 BEE-IO PROCESSING
Transforming the Nectar into honey using Bee-io's innovative biosynthesis



5 HONEY
Our honey is ready! With the same qualities and wonderful taste, we all know and love



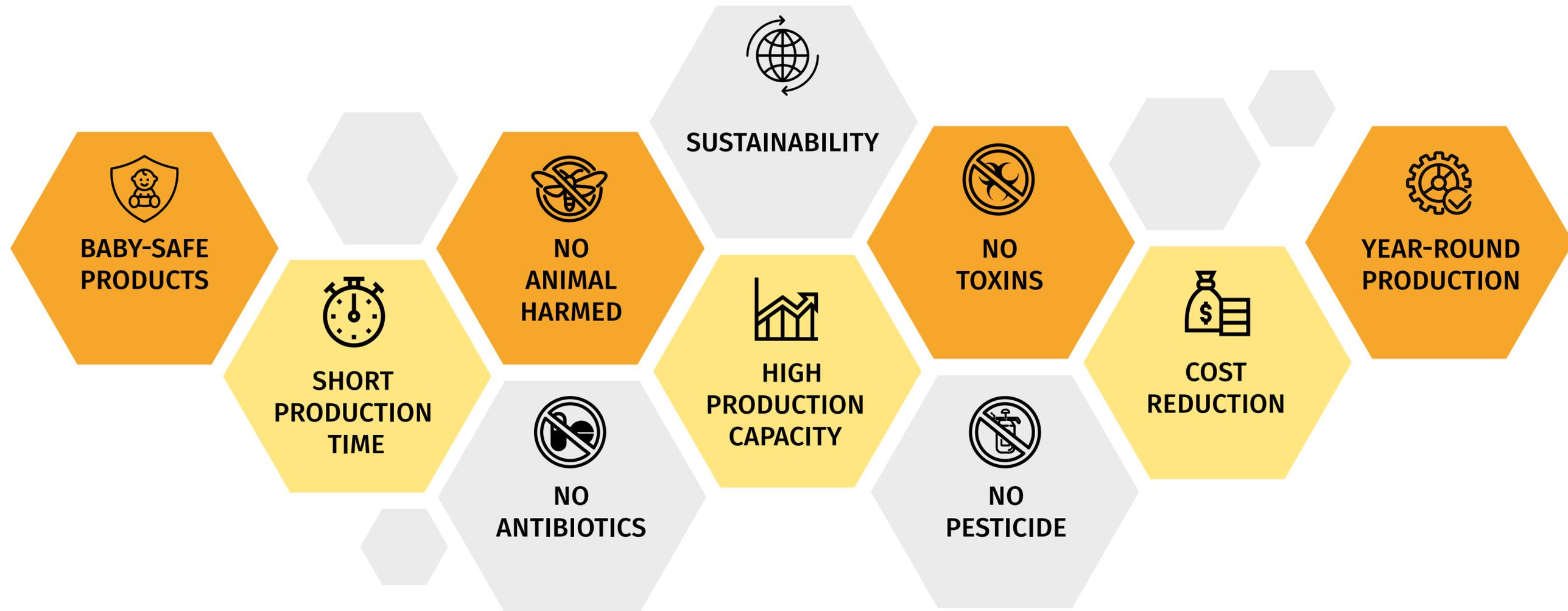
2 FILTRATION
Cleaning our Nectar from unwanted substances and residue leftover from the Extraction stage



4 EVAPORATION
Removal of excess water, To reach the honey texture familiar to us



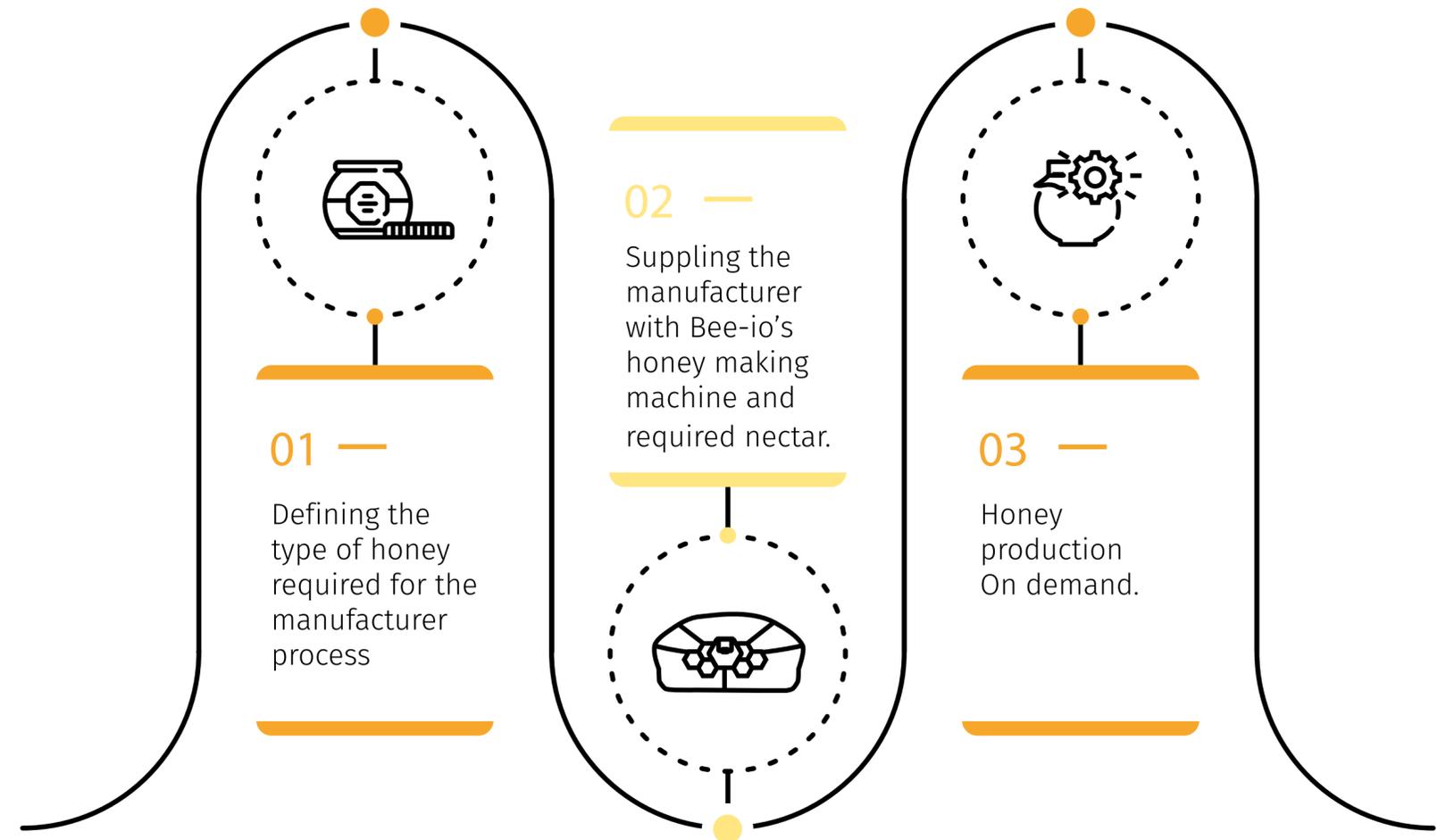
ADVANTAGES OF OUR TECHNOLOGY



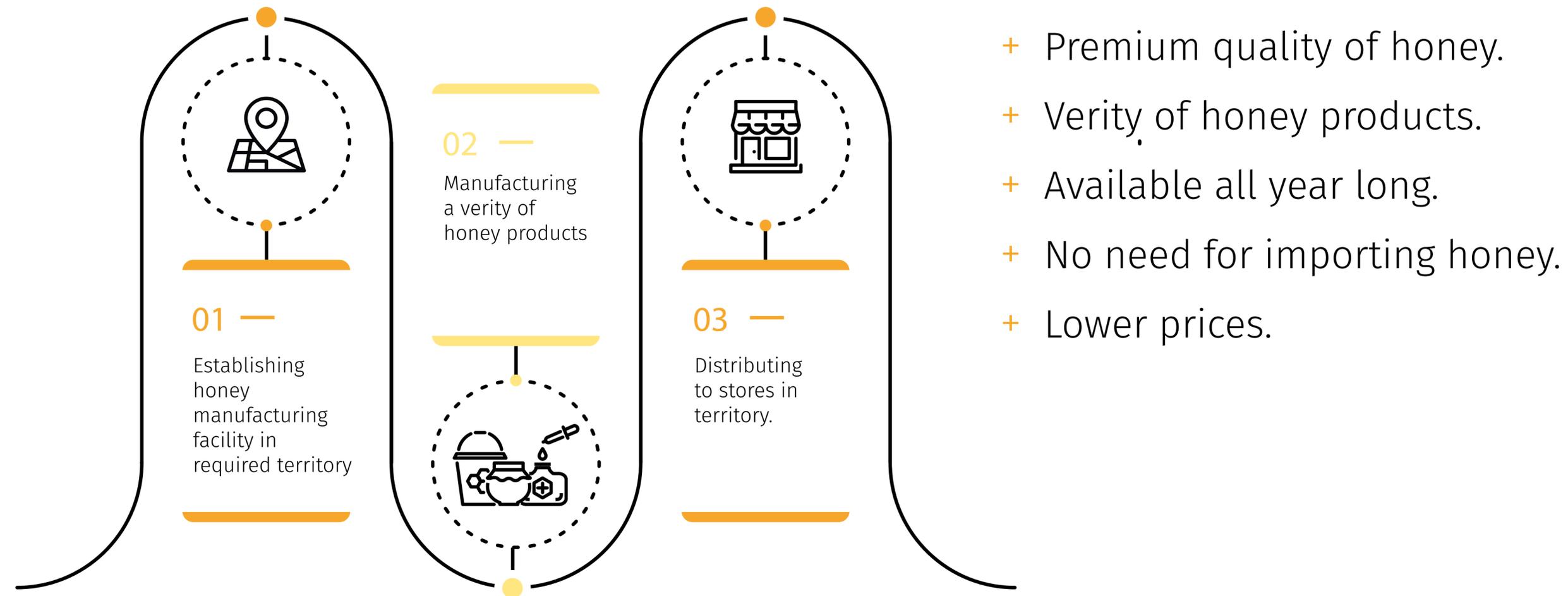
BUSINESS PLAN

OUR BUSINESS MODEL FOR THE INDUSTRIAL NEEDS

- + High and constant premium honey.
- + Available on demand.
- + Short production time.
- + Perfectly fitting the complete industrial process and the end-product.
- + Cost reduction.



OUR BUSINESS MODEL FOR DISTRIBUTION IN TERRITORY



INTELLECTUAL PROPERTY

Patent pending
(USPTO)

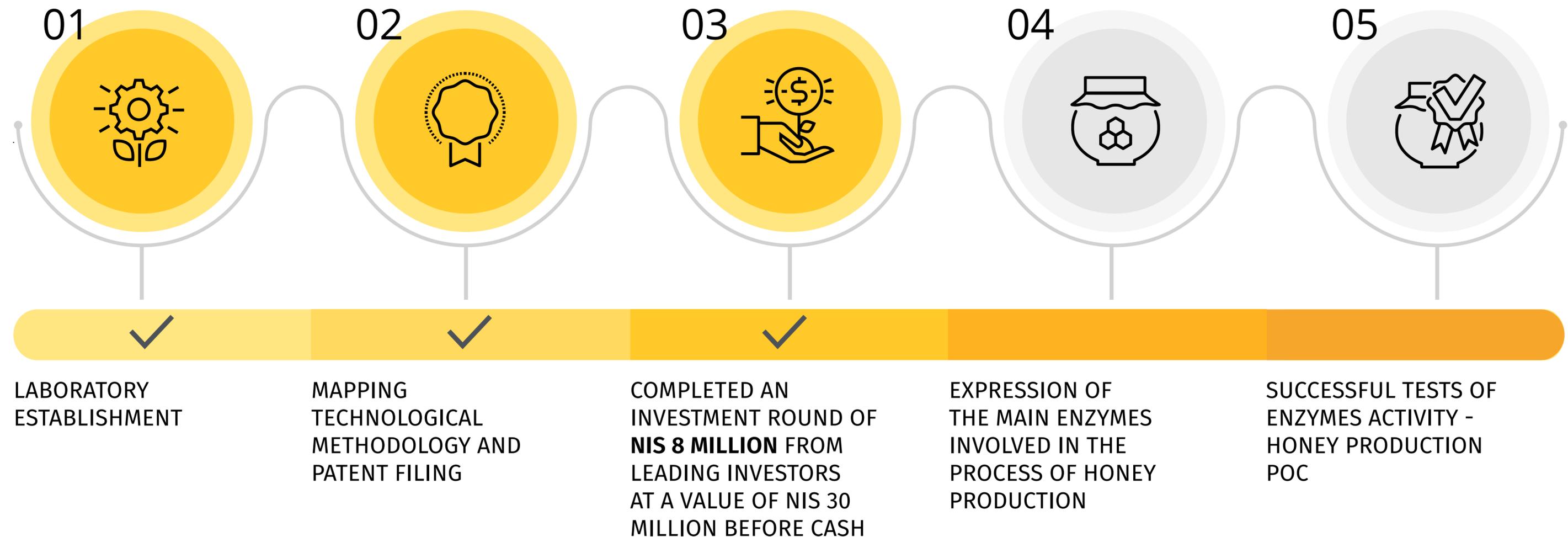
Flower nectar extraction

Patent pending
(USPTO)

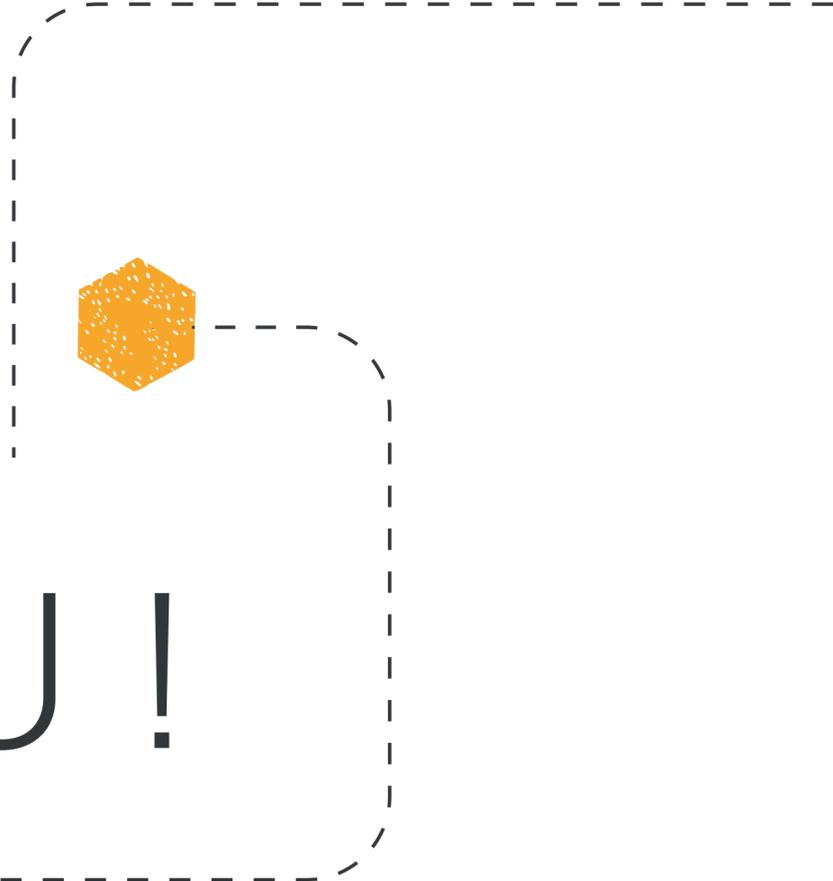
Turning nectar into honey



ROADMAP - 2021



APRIL 2021



THANK YOU!

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