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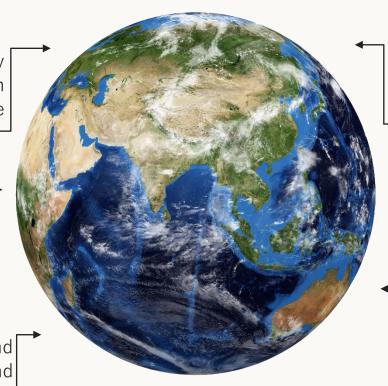
COMPANY PROFILE

Flying Spark is a FoodTech company, active in the Insects alternative protein space

Flying Spark is producing high quality and sustainable alternative protein from the fruit fly larvae

The company leverages the biological traits of the larvae, while creating optimal cultivation conditions

The technology includes methods and processes that facilitate efficient and reproducible cultivation



The company will incorporate its products in aquaculture, pet food, cosmetics and human food (in the future)*

The company is currently building its first production facility in Thailand and **listed on** the Tel Aviv Stock Exchange

^(*) The start of marketing and sales of the company's products currently under development is subject to the commencement of actual commercial production at the Company's new Manufacturing plan in Thailand, as well as a number of other conditions (including the establishment of a new production line relying on the company's specialized procured machinery, etc.). In addition, further regulatory approvals are needed also in Europe and the USA. The above excludes the company's alternative protein powder under development which is intended for use in the pet food industry and can already be sold in a number of Asian countries.



LEADING TEAM



GILI COHEN
Chairman of the Board



ERAN GRONICH Founder & CEO



MICHAEL GETTE CFO



Dr. GALIT LEVINScience Director



TAL OZERI Factory Manager



VP People



AMIR ZAIDMAN
Director



GLOBAL PROTEIN SHORTAGE

The challenge: Feeding billions of animals and people with sustainable and high quality protein







MULTIPLE MARKETS FOR RISK MANAGEMENT

Aquaculture industry

- The global aquaculture industry has reached about **\$107 billion in 2021**¹
- Estimated to grow to **\$170 billion** by 2026 supported by CAGR of 10%

Pet food industry

- The global pet food industry has reached about **\$97 billion in 2021**⁴
- Estimated to grow to \$137 billion by 2028
 supported by CAGR of 5%

The global protein market

- The global protein ingredient market has reached about \$42 billion in 2021²
- Estimated to grow to **\$85 billion** by 2028 supported by CAGR of 10%

Oils in the cosmetics industry

- The global oil ingredient market for the cosmetics industry has reached about **\$56** billion in 2020³
- Estimated to grow to \$72 billion by 2028
 supported by CAGR of 5%

¹ Market Data Forecast. (2021). "Fish Feed Market By Ingredient, By Additive, By End Users Global And By Region 2021-2026"

² Grand View Research. (2021). "Protein Ingredients Market Size, Share & Trends Analysis Report 2021 - 2028" Global Protein Ingredients Market Size Report, 2021-2028 (grandviewresearch.com)

³ Cosmetic Oil Market Growth & Trends: Cosmetic Oil Market Size & Share | Global Industry Report, 2019-2025 (grandviewresearch.com)

⁴ Global pet food market - https://www.feedandadditive.com/global-pet-food-market-and-trends/



A \$87 BILLION ADDRESSABLE MARKETS

	Fish feed	Pets	Humans	Oil	Total
Global market	\$107B	\$97B	\$42B	\$56B	\$293B
% Protein/oil in final product	10%-30%	15%-20%	100%	15%	
Total addressable market (TAM)	~\$20B	~\$17B	~\$42B	~\$9B	~\$87B



MULTIPLE PRODUCTS FOR RISK MANAGEMENT



Advanced, sustainable solution for fish feed, with beneficial components from dietary residues of larvae



High quality, sustainable protein ingredient for pet food products



High quality, sustainable protein ingredient for human food products



A unique active ingredient for cosmetics and nutritional supplements industries



CONSUMERS ARE SHIFTING TO ALTERNATIVE PROTEIN







Health reasons

People are choosing to consume less animal protein for health reasons such as heart diseases, weight control and diabetes

Ethical reasons

Ethical reasons concerning animal welfare are motivating people to re-examine the impact of their nutritional choices on animals

Environmental concerns

Growing awareness towards negative effects on the environment that result from farming and processing of meat







MINIMAL ECOLOGICAL FOOTPRINT

99%
Reduction of land use with Vertical farming

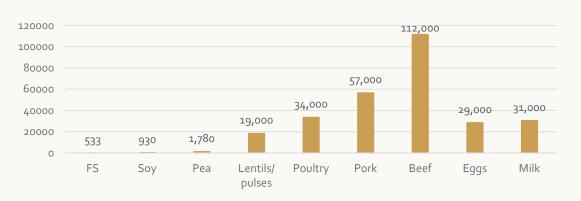
OMethane
emissions

Waste minimization

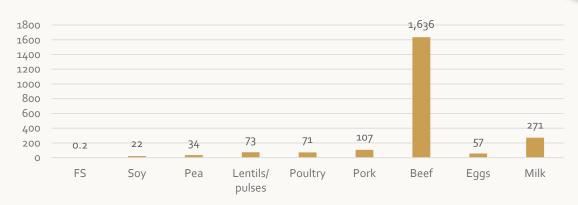
Cultivation in a closed and controlled environment

99%
Less water consumption needed

Water usage (L) for producing 1kg of protein



Land use (sqm) per 1kg of protein



Mekonnen, M.M. and Hoekstra, A.Y. (2012), A Global Assessment of the Water Footprint of Farm Animal Products, Ecosystems

Mekonnen, M.M. and Hoekstra, A.Y. (2010) The green, blue and grey water footprint of farm animals and animal products, Value of Water Research Report Series No. 48, UNESCO-IHE, Delft, the Netherlands.

Hannah Ritchie and Max Roser (2020) - "Environmental Impacts of Food Production". Published online at OurWorldInData.org. Retrieved from: 'https://ourworldindata.org/environmental-impacts-of-food' [Online Resource]

Poore, J., & Nemecek, T. (2018). Reducing food's environmental impacts through producers and consumers. Science, 360(6392), 987-992.



MUCH BETTER THAN PLANT BASED PROTEIN

Rich in Minerals:

Iron, Calcium,
Magnesium and
Zinc



Exceeds

animal protein in its nutritional values

	Soy protein	Pea protein	Whey protein	Fruit fly larvae protein
Energy (Kcal)	328	455	385	380
% Protein	64	75	67	65
Cholesterol (mg/100 gram)	ND	ND	205	2>
% Fat	0.5	9	5	16
Calcium (mg/100 gram)	363	136	256	700
Iron (mg/100 gram)	11	23	0.9	25
Magnesium	140	ND	180	1,700



1 COW IN 1 SQM IN 1 MONTH

The lifespan of the larva is 7 days

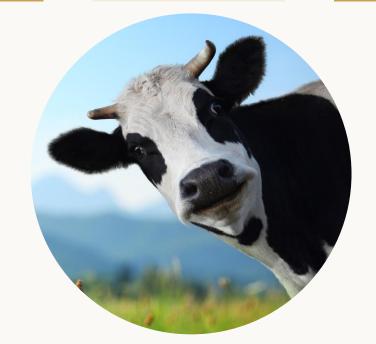
Body mass
Multiplies by 250
in 7 days
In comparison,
beef multiplies by
10 in one year

Exponential growth:
300-350
offspring per female

Year-round continuous production process.

With no seasonal constraints

Highly efficient production process, 100% utilization of the larvae, residues processed into feed product



We are able to produce a quantity equal to 300-400 kg of beef in:

1 square meter every month!



FOCUS ON ESG



Environmental

- ✓ Water saving
- ✓ Land saving
- ✓ Carbon and Methane emission reduction
- ✓ Closed and fully control on production area
- ✓ Minimal waste



Social

- ✓ Future food security solution in third world country
- ✓ High employment standards in third world country
- Production of healthy ingredients
- ✓ Focus on diversity and inclusion



Governance

- ✓ Public company standards
- ✓ Stakeholder engagements
- ✓ Board diversity and structure



PRODUCTION FACILITY COMPLETED IN LESS THAN A YEAR!

MILESTONES ACHIEVED SINCE THE IPO: INFRASTRUCTURE



Establishment of two subsidiaries companies in Thailand (BOI approved)



Procurement of machinery and equipment for cultivation and processing



Production facility
will start
commercial
production in the
upcoming months



Licenses obtained from Thai regulatory authorities for the commercial stage



Headquarters and R&D labs established in Rehovot, Israel



Recruiting teams in Israel & Thailand



Initiating larvae cultivating in the facility





STRATEGIC PARTNERS & CUSTOMERS

MILESTONES ACHIEVED SINCE THE IPO: COMMERCIAL



Advanced negotiations towards a commercial pilot in the fish feed industry with Sumitomo Chemical in Japan



Advanced
negotiations towards
signing an agreement
for protein supply
with
Thai Union



MOU signed to supply first 20MT for TU pet food products



Collaboration
agreement was
signed with
Sumitomo Chemical
for aquaculture
products



Distributor agreements signed (USA, Japan and Europe)



Agreements signed and first product developed with Garguar Labs and Head 100 for launching cosmetics product for commercial pilot











INVESTORS BELIEVE IN INSECT PROTEIN



Establishment of a third plant in France (following France and Holland). Development and production of alternative food produced from mealworms



Establishment of a third plant in the USA (following two in France). Development and production of alternative protein and oil produced from black soldier fly larvae



First plant established in France in 2021. Development and production of alternative protein produced from mealworm and crickets



First plant established in Holland in 2019. Development and production of alternative protein and oil produced from black soldier fly larvae.



First plant established in the USA. Development and production of alternative protein produced from mealworms.



First plant established in Thailand. Development and production of alternative protein produced from fruit fly larvae. The Company is in a preliminary stage compared to the benchmark - establishment of its first production plant





LEADING STRATEGIC INVESTORS



- o World's largest tuna and seafood products manufacturer (about 15% global market share)
- o Headquartered in Thailand, deployed globally
- o OEM pet food manufacturer for global brands including Nestle Purina, Mars and others
- o The protein alternatives field is in the core of the company's strategy



- Strauss Group is among the largest food manufacturers in Israel
- Strong global presence and a global leader in food innovation
- o Produces dairy products, snacks, spreads, coffee, water technologies, and more
- Among the world's leading Hummus producers (together with PepsiCo)



PATENTS

Material Patent

Patent applications have been submitted in 11 countries: China, EU, USA, Japan, Thailand, South Korea, Indonesia, Malaysia, India, Mexico and Israel

Aquaculture patents

Following a joint research, 3 patents in the fish feeding space have been submitted, in collaboration with Sumitomo Chemical





OVERVIEW OF THE COMPANY'S STRATEGY 2022-2024

MULTIPLE REVENUE CHANNELS:

AQUACULTURE | PET FOOD | COSMETICS | HUMAN FOOD



















2022-2023

Technological feasibility on commercial scale

2022-2023

Continued R&D in the following areas: food, biology and fish feed

H2 2022

Initial supply agreements with strategic partners (on top of MOU with TU)

H2 2022

Reinforce business development and sales team

Q4 2022

Launching the first protein production facility in Thailand

2

Initial sales to the Aquaculture industry

Q1 2023

Q1 2023
Initial sales
to the pet food
and cosmetics
industries

H1 2024

Obtaining FDA and EFSA regulatory approvals

2024

Sales initiation of food products for human consumption





COMPANY'S STRATEGY MAIN KPI'S

Main KPI's	2022 YTG		2023		2024-2026	
Production facilities	Phetchaburi Thailand		Phetchaburi Thailand		Phetchaburi Thailand + Establishment of new facility during the years	
Maximum capacity (Ton) Premium Protein Powder / Oil	Up to 100 / 40		Up to 1,000 / 400		Company's target is reaching up to 10,000 based on new factory establishment	
Gross Margin	Negative		Positive		Reaching over 40%	
OCF	Negative		Negative		Moving to positive during the period	
Expected CAPEX for capacity increase	\$1M		\$4-5M		New factory significant investment	
Use of proceeds of future funds raise	Facility launchSales team expansionCAPEXR&D		 Facility expansion (CAPEX) Business development Working Capital R&D 		 Facility expansion New production site initiation Working Capital 	

^{*}For each 1 ton of premium protein, 13 ton aquaculture (dietary residues) will be produced. 1 Ton of premium protein represents 15k-20k USD (based on mix) potential income for all products (Premium protein, oil and aquaculture feed)

^{**} The plan is based on additional future fund (via shelf offering report and/or private placement) raising; 2022-2023 total fund raise needed estimated at \$10-15M and pending BOD approval for each milestone execution



GO-TO-MARKET STRATEGY 2022- 2024



Focus on APAC Market during 2022-2023:

- Sumitomo Chemical Flying Spark's partners with GTM strategy in APAC
- Showa Kosan Flying Spark's distributer in Japan
- Several commercial pilots to be launched in 2023



Focus on APAC Market during 2022-2023:

- Collaboration with Thai Union Pet Care division – MOU for 20 tons signed and will be supplied in 2023.
- Showa Kosan Product distribution in Japan
- Ongoing discussions with pet food manufacturers and retailers



Focus on Thai Market following by APAC during 2022-2023:

- Joint venture with Garguar Labs
 (OEM cosmetics manufacturer) and
 Head100 (top tier branding and
 marketing agency) 2022 commercial pilot for anti-aging
 product, 2023 sales growth
 expected
- Ongoing discussions with leading cosmetics customers



Focus on APAC market and following by Western markets during 2023-2024:

 Flying Spark will start building its customers funnel in parallel to the FDA approval process which estimated to be completed in H1-2024



FEEDING THE WORLD WITHOUT CONSUMING THE EARTH

