MAKING MEAT RIGHT
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World consumption of proteins in general, and of meat products in particular, continues to rise.

The accelerated growth of demand for farm animals for the food industry creates massive environmental, health, financial and ethical problems.

Meat Tech is developing an alternative to conventional age-old farming methods.

Meat Tech plans to develop clean farming through an industrial cultured meat process, combined with 3D printing technology. All without harming animals.
MEAT MARKET SHOWS STEADY GROWTH

Global meat industry $946B USD in 2018 and will reach $1,143B USD by 2023
IT’S UNSUSTAINABLE

Industrial farming has
4 inherent problems:
THE ENVIRONMENTAL PROBLEM

The meat industry is highly pollutive:

- 8% of the world's water is used for raising livestock for meat and leather.
- At least 18% of the greenhouse gases entering the atmosphere are from the livestock industry.
- 33% of croplands are used for animal feed production.
THE ETHICAL PROBLEM

Animals Slaughtered annually (US)

- **CHICKENS** (30%) - 7,781,609,673
- **DUCKS** (22%) - 235,987,266
- **TURKEYS** (9%) - 24,160,006
- **CATTLE** (14%) - 36,882,737
- **PIGS** (18%) - 112,987,266
- **SHEEP** (7%) - 6,990,150

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Hormonal substances and antibiotics are used legally, and illegally, in livestock to manage animal growth and health (see avian flu, swine flu etc.)

- Estradiol-17β, progesterone, testosterone, zeranol, trenbolone, and melengestrolacetate (MGA)

**56 days of growth**

- 1957: $2.00/lb
- 1978: $1.00/lb
- 2005: $0.50/lb
With global population rising and getting wealthier, demand for meat and protein will keep increasing.

Today’s farming technologies cannot be expected to meet future demand sustainably.

The Quantity Problem

Global meat projection to 2050

- Eggs
- Sheep and goat
- Beef and Buffalo
- Pigmeat
- Poultry

Source: UN Food and Agriculture Organization (FAO)
THE GREAT HORSE MANURE CRISIS OF 1894

Over-use of animals has been replaced by technology before

A lesson from “The Great Horse Manure Crisis of 1894”
MEAT TECH’S TECHNOLOGY
MEAT TECH’S CELLULAR 3D

CULTURED CELLS

3D PRINTING
STRUCTURED MEAT

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An umbilical cord sample is taken without harming the animal.

A cell line is developed for continued cell reproduction.

Cells are differentiated into inks with different cell types such as fat and muscle.

The cell types are accurately 3D bioprinted to create the foundations for a true cut of meat.

The 3D printed structures are placed in incubators to mature and grow.

The finished 'print' of meat is frozen and packaged for shipping.

MEAT TECH A FULL TECHNOLOGY STACK

Initial cell sample

Bioreactor growth

Cellular ink

3D bioprinting

Incubation

Freezing & Packing
THE INDUSTRIAL PROCESS

From cells to steaks: Manufacturing at scale
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From cells to steaks: Manufacturing at scale
## MEAT TECH’S IP

**Intellectual Property**

<table>
<thead>
<tr>
<th>Patent Number</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>62,903,879</td>
<td>Cultured Edible Meat Fabrication Using Bioprinting</td>
</tr>
<tr>
<td>62,871,438</td>
<td>Physical Manipulation of Cultured Tissue</td>
</tr>
<tr>
<td>62,934,582</td>
<td>Harvesting Bovine Embryonic Inner Cell Mass Cells</td>
</tr>
<tr>
<td>MTC0005USP</td>
<td>Bioprinter Print Head</td>
</tr>
</tbody>
</table>
THE NEW PROTEIN COMPETITIVE LANDSCAPE

3D PRINTED STEAK

PLANT BASED

CULTURED MEAT

GROUND PATTY
THE PROTEIN MARKET IS CHANGING

By 2040, conventional meat’s market share will be halved

CAGR 2025-2040
- Cultured meat (+41)
- Meat replacement (+9)
- Conventional meat (-3)

1 Numbers are rounded to hundred billions $US

Source: United Nations, World Bank, Expert interviews; A.T Kearney analysis
ABOUT MEATECH
TEAM

SHARON FIMA
CEO
Sharon is an entrepreneur with over 20 years of experience. Sharon was the founder and CTO of Nano Dimension developing a complete desk-top 3D printing system for multilayer PCBs. Prior to NNDM, Sharon was R&D Integration manager at XJet and an R&D team leader at HP Indigo.

STEVE LAVIN
CHAIRMAN
Mr. Lavin the President of Lavin & Gedville, a boutique law firm. He serves as Vice Chairman of OSI Group, LLC, a privately held company and a global supplier of value-added food and meat products. Steve is director, general counsel and advisor to Germin8 Ventures, LLC, and co-founder and director of Silver Road Capital, Ltd., a financial and consulting firm.

DANNY AYALON
DIRECTOR
Former Israeli Ambassador to the United States and Deputy Minister of Foreign Affairs, Member of Knesset and advisor to three prime ministers. Co-founder and Chairman of Silver Road Capital Ltd.
Prof. Dvir obtained his degrees in Biotechnology Engineering from Ben-Gurion University of the Negev in Israel. Prof. Dvir continued his postdoctoral studies in the laboratory of Prof. Robert Langer in the Department of Chemical Engineering at MIT. On October 2011 Prof. Dvir was recruited by the Department of Biotechnology and the center for Nanotechnology at Tel Aviv University to establish the Laboratory for Tissue Engineering and Regenerative Medicine.

Prof. Shlomo Magdassi is a professor of chemistry, at the Casali Center for Applied Chemistry, the Institute of Chemistry and the Center for Nanoscience and Nanotechnology at the Hebrew University of Jerusalem, Israel. Prof. Magdassi holds the Enrique Berman Chair in Solar Energy. His research focuses on colloid science, and in particular on formation, formulation and applications of novel micro and nanoparticles.
GO TO MARKET

+ As the cellular agriculture sector matures the technology will be required by many players throughout the meat value chain.

+ Meat Tech will license technology rights to an end-to-end process to powerful commercial entities, farmers and meat producers.
ACCOMPLISHMENTS TIMELINE

- **Patent: Cultured Edible Meat Fabrication Using Bioprinting**
- **Recruitment of Professional Consultants**
- **Fund Raising: 6.8M NIS**
- **Building the Cultured Cells Group**
- **Completion of the Cell based Ink lab for Tissue Printing**
- **Completed development of prototype “clean meat”**
- **USA patent application for printhead for 3D meat printer**
- **Initiate a Reverse Merger into a Public Company**
- **Building Protocols for the Meat Printing Process**
- **Patent: Physical Manipulation of tissue**
- **Completed successful experimental print with**
- **Issuance of 1.39M shares and 8M options to a group of investors**
- **Approval of the Reverse Merger with Ophectra**
- **Completed successful differentiation of bovine stem cells into fat cells**
- **Building the 3D Meat Printer Group**
- **Completed development of prototype “clean meat”**
- **Completed building own stem cell growth bioreactor system and software**
- **$1M investment agreement, Steve Lavin nominated as Chairman, Ambassador Danny Ayalon nominated as Director**
- **Public relations agreement with Ya’ara Benvenisti to represent MeatTech, vegan and ecological food**
- **Completed building own stem cell growth bioreactor system and software**
- **Completed USA patent application for printhead for 3D meat printer**
- **3D print a multiple cell-type tissue**
- **3D print a 100gr. piece of meat**
- **Completion of lab-scale production printer**