Crossing the road to a sustainable tomorrow
ABOUT US

+ We cannot sustainably nor conscionably continue to depend on the inefficient processes of industrial agriculture.

+ Chick&Tech is working around the clock to develop poultry-derived cells for the alternative meat industry.

+ We aim to apply our proprietary technology to mimic the exact cellular composition of conventional poultry.
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POULTRY FARMING IMPLICATIONS
THE ENVIRONMENTAL PROBLEM

- Water Resources
  8% of the world's water is used for raising livestock

- Climate Change
  At least 18% of the greenhouse gases entering the atmosphere are from the livestock industry.

- Misappropriated Resources
  33% of croplands are used for animal feed production.
THE ETHICAL PROBLEM

Chicken Slaughter & Rearing Conditions

- Chickens are the most populous animal on the planet: Population 29B
- Every year we eat ~ 50B chickens
- Every day 137M chickens are slaughtered
Hormonal substances and antibiotics are used legally, and illegally, to manage animal growth and health.

Large chicken farming operations cause odors and emissions of ammonia, hydrogen sulfide and poultry dust, containing bacteria, bacterial toxins and chicken skin debris.

Runoff from areas with chicken manure and waste contaminate both surface water and groundwater, both sources of drinking water.

THE PUBLIC HEALTH PROBLEM

Industrial farming is a potential health/healthcare problem.

56 days of growth

- 1957: $2.00/lb
- 1978: $1.00/lb
- 2005: $.50/lb
A number of contaminants or hazards can appear in the poultry product at any stage during its production, processing, storage and preparation.

Production-related diseases include:

+ Bird flue (Avian influenza)
+ Salmonellosis*
+ Campylobacteriosis *
+ E. coli

*Exposure to poultry meat has been identified as an important risk factor for illness from both of these pathogens in the United States.
IT’S UNSUSTAINABLE!
POULTRY CONSUMPTION

Top 15 Poultry consuming countries in kilograms per capita, 2020

<table>
<thead>
<tr>
<th>Country</th>
<th>Poultry Consumption (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Israel</td>
<td>64.4 kg</td>
</tr>
<tr>
<td>United States</td>
<td>51 kg</td>
</tr>
<tr>
<td>Malaysia</td>
<td>49.3 kg</td>
</tr>
<tr>
<td>Peru</td>
<td>46 kg</td>
</tr>
<tr>
<td>Australia</td>
<td>43.8 kg</td>
</tr>
<tr>
<td>Brazil</td>
<td>40.8 kg</td>
</tr>
<tr>
<td>New Zealand</td>
<td>40.1 kg</td>
</tr>
<tr>
<td>Argentina</td>
<td>38.1 kg</td>
</tr>
<tr>
<td>Chile</td>
<td>37.1 kg</td>
</tr>
<tr>
<td>Canada</td>
<td>35.5 kg</td>
</tr>
<tr>
<td>Saudi Arabia</td>
<td>34.8 kg</td>
</tr>
<tr>
<td>South Africa</td>
<td>34.5 kg</td>
</tr>
<tr>
<td>Colombia</td>
<td>31.7 kg</td>
</tr>
<tr>
<td>China</td>
<td>14.2 kg</td>
</tr>
</tbody>
</table>

Source: OECD-FAO Agricultural Outlook (Edition 2020)
With global population rising and getting wealthier, demand for protein will keep increasing. Today’s farming technologies cannot be expected to sustainably satiate future demand.
THE GREAT HORSE MANURE CRISIS OF 1894

“A lesson from “The Great Horse Manure Crisis of 1894”

“In 50 years, every street in London will be buried under nine feet of manure.”

Times of London, 1894

4 YEARS

DISPENSE WITH A HORSE

and save the expense, care and anxiety of keeping it. To run a motor carriage costs about ½ cent a mile.

THE WINTON MOTOR CARRIAGE

is the best vehicle of its kind that is made. It is handsomely, strongly and yet lightly constructed and elegantly finished. Easily managed. Speed from 3 to 30 miles an hour. The hydrocarbon motor is simple and powerful. No odor, no vibration. Suspension Wire Wheels. Pneumatic Tires. Ball Bearings. Send for Catalogue.

THE WINTON MOTOR CARRIAGE CO., Cleveland, Ohio.
CHICK&TECH: AN INNOVATIVE APPROACH
TECHNOLOGY PROCESS

01 INITIAL CELL SAMPLE
Stem cells are extracted from a fertilized chicken egg (blastodisc)

02 BIOREACTOR GROWTH
A cell line is developed for continued cell reproduction

03 CELL DIFFERENTIATION
Cells are differentiated into fat and protein cells

THE TOP B2B SUPPLIER OF POULTRY-BASED CELLS

- PROCESSED MEATS
- HYBRID MEATS
- PREMIER CUTS
POULTRY MARKET
Rapid growth in consumer demand for animal proteins in emerging economies, such as China and India, is expected to fuel growth of the global poultry market.

The USDA broiler meat production in China was pegged at 700,000 metric tons in 2017, and increased by 11.7 million metric tons in 2018, representing an annual increase by 1%.
THE PROTEIN MARKET IS CHANGING

By 2040, the market share of conventional meat will be halved


¹ Numbers are rounded to hundred billions $US
The poultry market is one of the largest protein opportunities and it is attracting cell-based start-ups.

Conventional industrialized chicken production is the main competitor.
THANK YOU!