Plant-based Factory Farming:

How to change America’s infrastructure to support meat replacement production
Overview of discussion

Scale of the problem

Manufacturing technology

Compete for production

How to help!
The Scale of the Problem

U.S. Meat/Poultry Production & Forecasts (in millions of lbs) as of March 2018

- 2015 Annual: 94,629
- 2016 Annual: 97,613
- 2017 Annual: 100,151
- 2018 Proj.: 103,926

U.S. Meat/Poultry Production (in millions of pounds) compared to Plant-based Meat (PBM)

- Total Meat 2018 (projected): 103,926
- Total PBM 2017: 120

0.1% by volume
6% PBM growth is not enough! Here’s why.

Animal-based Meat: Projected Growth [billions of lbs]

Percentage of PBM Volume vs. Animal-based Meat: Projected Growth

0.1% by volume
Manufacturing Technology: How is it possible to farm +60B animals?
1961: Factory Farming is the Future

Agriculture in the world of tomorrow will be so mechanized that farms will actually resemble factories. Crops and livestock will be raised on regular schedules under uniform and carefully controlled conditions.

“Sensors,” those automatic control devices for today’s wonder machines, will be adapted to the requirements of precision agriculture. They will take the place of human judgment in deciding and reacting to soil conditions, crop maturity, moisture levels, weather forecasting, feeding needs, etc. Bendix researcher W. E. Kock has reported that instruments to do this already exist or will soon be developed.

The final part of the job for tomorrow’s farms will involve the packaging of the grown foodsstuffs and their shipment to market—accomplished just as automatically as the growing itself.
Solution: Make **A LOT** of Plant-based Meat
SFT: Design, Build, Operate Automated, Smart PBM Production Centers
Compete w/ production, not just products

- Tax incentives
- Government grants & programs
- Building leases
- Environmental incentives
- Job training
Chicken production: It’s all about jobs!

Bell & Evans' $260 million expansion will create more than 1,000 jobs

Updated Apr 13, 2018; Posted Apr 13, 2018

At groundbreaking for Costco chicken plant in Fremont, officials laud project that's helping 'grow Nebraska'

By Robert Credito | World-Herald staff writer • Jun 29, 2017

Shovels go to work at the groundbreaking event for Costco's poultry processing facility in Fremont on Monday.
Build in Economic Opportunity Zones
SFT: Sell the benefits to the community

PBM Production can:

- Improve public health
- Avoid pollution
- Provide safer jobs
- Reduce strain on infrastructure
- Improve economy
How to help? Support grassroots efforts

Amid resident outcry, Allen Harim gets OK for chicken processing plant in Millsboro

Taylor Goebel, tgoebel@delmarvanow.com  Published 8:13 a.m. ET May 8, 2018 | Updated 12:07 p.m. ET May 8, 2018

Sussex County residents are protesting a company’s plans
TOPEKA, Kan. (AP) — Kansas lawmakers approved legislation Monday aimed at attracting large chicken-processing plants to their state, six months after opposition in one Kansas City-area town stymied a $320 million project.
Support worker / environmental safety

Working 'The Chain,' Slaughterhouse Workers Face Lifelong Injuries

August 11, 2016 - 8:00 AM ET

Peggy Lowe

Delaware online

Lawyers threaten federal lawsuit to hold Delaware chicken plant accountable for pollution

Maddy Laurie, The News Journal - Published 7:00 a.m. ET March 28, 2018 | Updated 6:50 p.m. ET March 28, 2018

Teresa, 31, worked at a pork processing plant in Nebraska for five years until injuries to her shoulder forced her to quit. She still has pain and can only work part-time.

Ben Selfaker/Harrison Public Media
Summary: “Replacing” factory farming

Understand scale & learn from the meat industry’s success

Engineered problems call for engineered solutions

Compete for the *economy* not just for consumers (i.e. product sales)
Thank you!

Christie Lagally
Founder & CEO

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www.seattlefoodtech.com