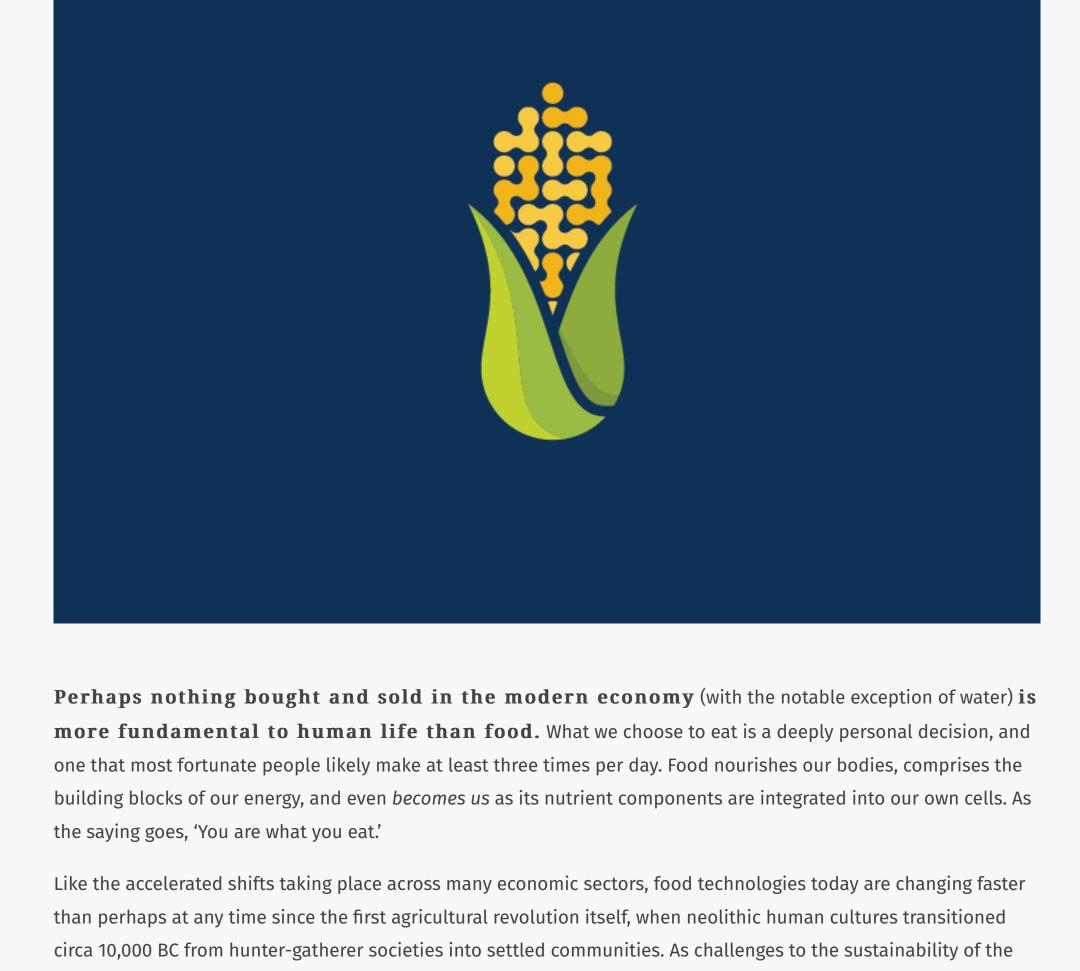
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SUNDAY AUG 23, 2020

Programa

Future of FoodTech & Agriculture in a post-Covid World **y f in**



If you're a pre-seed stage food-tech or agricultural entrepreneur, apply now the the currently-enrolling Founder Institute Food Vertical program. Headquartered in Helsinki, like all FI accelerator programs in 2020, this program cohort will be held completely virtually, which means for the first time, enrollment is open to

modern industrial food system become increasingly apparent, innovators are rising to meet the new

opportunities and transform human food systems in unprecedented ways.

food technologists and agri-preneurs worldwide.

Locavores: Local is Best What can feel like a previous lifetime, but was in reality little more than six months ago, pre-Covid the food system was already changing in important ways. In the rich world, the rise of the 'Eat Local' or 'locavore' movement has been ongoing for at least a decade—the concept of 'food miles', or how far a piece of food traveled to reach your plate, would have been almost unheard of a generation ago. But today, consumers are increasingly conscious of their local food systems, and seek to actively support local agriculture with their purchasing power via farmers' markets and specialty shops—and restaurants, likewise, utilize 'Locally Sourced' as a buzzword that truly resonates with their patrons.

For affluent eaters, health-consciousness has also long been in the ascent, with implications that reverberate across

food technology and agricultural sectors. Processed foods, preservative additives, refined sugars, and even meats

are in the decline of consumer sentiment; while increased portions of fibrous veggies, antioxidant-rich foods,

Another notable trend apparent in recent decades is the increasing amount of food consumed that is not

casual dining becoming a quick go-to norm for many families multiple days of the week.

cooked/prepared at home: pre-covid, people were going out to eat in restaurants more often than ever, with fast-

Even when consumers did choose eat at home before coronavirus, they still increasingly weren't making the trip to

the physical grocery store as often - the rise in online grocery services from the likes of retail-behemoth like Amazon

and Walmart were already happening, as well as the growth in meal kit delivery services BlueApron, HelloFresh and

calorie-counting, and vegetarian and veganism are on the upswing. The same trends are not necessarily true in the developing world—as middle income countries' citizens find themselves with more relative purchasing power, their

Preferentially, Prepared For You

1,362.3

2018

2019

2020

■ Heat & Eat

2021

2022

2023

Cook & Eat

2024

2026

2027

681.2

Image Source

2017

Source: www.grandviewresearch.com

and keep the doors open.

consumption.

labor barriers.

Tech vertical accelerator.

Predictions:

\$90MM

\$80MM

\$70MM

\$60MM

\$50MM

\$40MM

chains.

The Rich-World GMO Divide

consumer adoptions in the US before Europe.

Increasing On-Farm Automation

Health-Consciousness Continues

Pre-Covid Food Trends:

own meat consumption notably increases in proportion.

others, even before the pandemic. U.S. meal kit delivery services market size, by offering, 2016 - 2027 (USD Million)

Covid-related Food & Ag Industry Disruptions: **Grocery Gets Along** Especially in the earliest onset days of Covid-19—when strict lockdowns were being enacted simultaneously around the globe, forcing restaurants and small vendors to close their doors—grocery stores seemed more vital to citizens than ever. Grocery may have especially felt disrupted to consumers, simply because it was one of the few places people were actually still going out to visit, while most other retail stores were closed—and the protocols of shopping had suddenly changed to enforce social distancing. Since restaurants were closed, more food was proportionally being bought at grocery markets—due to sudden surges in demand, grocery was impacted generally across the board. The grocery was also impacted in other notable ways at the start of Covid-19, like consumer runs on certain nonperishable and frozen items—but in general, the grocery sector chugged along alright, albeit with shoppers changing their behaviors through a newfound abundance of caution. **Processor Predicaments & B2C Pivots** While less visible to everyday food consumers, some of the biggest disruptions were felt by food processors. While

food packaged B2C for consumers was largely unchanged (save the increases in demand), the B2B food processing

industry was turned upside down. The fact is that food items processed or prepared for restaurants and the

hospitality industry in bulk are very different from the food items processed or prepared for individual grocery

customers had evaporated through the economic shutdown periods; and restaurants still haven't bounced back

traditionally runs on very thin margins, ~50% table capacity in dining rooms may not be enough for many to hang on

consumers. Suddenly, restaurants were no longer buying at the rates they were pre-Covid, because their own

completely upon reopening, given the necessity for continued social distancing. In a restaurant industry that

Particularly in the case of meat products, whose processing facilities were also adversely impacted by the coronavirus—but true as well for other raw and prepared agricultural products—the differences in how food items are processed for the restaurant industry (versus processed and packaged for grocery store consumers) are very

significant. Food for industry B2B sale is often packaged in bulk, with bigger items and less trimmed pieces.

process all the animal livestock that used to go to other facilities to be prepped for restaurants/bulk sale. This

Processors of grocery and consumer meat products could not scale overnight to meet the new demand increases, or

constraint in the food supply chain, right at the point of processors, is significant - because for meat processors, the

sad result was animals not being slaughtered on schedule. That may sound callous and cruel, but the truth is that

livestock meat has a "ripe" and "overripe" equivalence, and product taste can be heavily impacted. A consequence

was many farm animals killed, not to be processed for food, but simply because they could not be slaughtered on

time; farmers could either not afford to continue feeding the livestock, or the animals aged past the point of

Restaurant Industry Implosions Imminent?

much of the United States, but also in other hard-hit countries like Brazil.

The impact of the Covid-related shutdown on restaurants and bars has been enormous, not only for mom and poprestaurant small business owners, but on the wider labor market that comprises the cooks, servers, and the whole of the hospitality industry. Economic rescue packages like the U.S. CARES Act and PPP loans will only go so far for an industry under such strain, and haven't been a huge help to the restaurant industry in particular. The situation for many restaurants is quite dire, and the decision of many restauranteurs will come down to executing a pivot or closing up shop. It remains to be seen just what promotion of restaurants will ultimately close their doors, particularly in regions that have been especially adversely affected by Covid-19 (or whose response has been inadequate), including across

Agricultural Challenges from Trade Barriers & Travel Restrictions

One economic knock-on effect from Covid-19 is a general sense of decreasing strength in the sails of globalization

manufacturing, through the necessity to create more supply chain resiliencies and redundancies, individual nations'

economies and economic trading blocks are attempting to source and build more things closer to home. Agricultural

will always be a cross-border trade—but it's likely that at least one era of 'peak' of globalization is now waning.

particularly on commoditized food products like grain staples. And the result is often higher prices paid by the

In rich countries, the labor for agricultural sectors often comes from seasonal workers, comprised primarily of

foreigner workers who put in long hours during the planting and harvesting seasons, and accept significantly less

pay than rich countries' native populations would, for what is very hard manual work. But travel restrictions due to

Covid-19 have posed significant challenges to the import of cheap labor in the form of temporary/seasonal/migrant

consumers in the countries that erect those barriers. Trade barriers also force farmers around the world to scramble

In the food industry, this shift towards home-grown can in practice mean tariffs and other trade barriers,

(apparent even pre-covid, and sometimes dubbed 'slow-balization'). Most discussed in relation to PPE

high-level generalities, and many other challenges exist within specific food systems, whether those be countries, regions, or economic trading blocks.

to find new markets for their products, before they spoil and lose the crop.

Hybridized Restaurant Models + Rise of Ghost Kitchens Even with restaurant re-opening, social distancing will mean lower capacities for in-restaurant dining—with a lower table count, even restaurants with re-opened dining will still likely need to increase their takeout and/or delivery business, simply to makeup for lost revenue.

Ghost kitchens are simply restaurants that don't have any in-person dining at all, and are largely limited to delivery-

only. Without the need for a public seating space, these ghost kitchens can decrease their physical footprint and

With ride-sharing plummeting in demand, Uber is essentially now a food delivery business. It's questionable if

focus on the key area of the restaurants business that is currently booming: food delivery.

shifts in consumer purchasing habits, at least in the rich world, over the decades ahead.

Figure 3: Investments in Cultivated Meat Companies (2016-2019)

Post-Covid FoodTech Industry Opportunities & Market

Capital Raised (millions USD) \$30MM \$20MM \$10MM \$0MM 2016 2017 2018 2019

be replaced not by native agricultural workers, but increasingly by robotics and mechanization. Likewise, increases in food prices paid by consumers may further accelerate the adoptions of other agricultural technologies, like the growth in the long-heralded 'vertical farming' industry, producing hydroponic veggies hyperlocally in greenhouse skyscrapers located right in the centers of cities themselves. The food system is changing in many exciting and unprecedented ways—and these examples offer only a small sampling of how new food and agricultural technologies will completely revolutionize consumer preferences and industry practices over the coming years. The entrepreneurial opportunities are more abundant than ever for food innovators to scale the startups that will push forward new ideas and techniques into the shifting globalized and localized food market landscapes. Ultimately, the future of food is likely to be healthier, tastier, and more environmentally sustainable—and visionary entrepreneurs will be the ones to make that future a reality. If you're a pre-seed stage food tech or agricultural entrepreneur, apply now to the currently-enrolling Founder Institute global Food Accelerator vertical program.

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post-Covid World

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workers—the effect, again, is likely to be higher prices paid by consumers in the countries erecting the travel or These effects are general—most agricultural challenges are unique to different areas. These trends represent only Are you a pre-seed stage food-tech or agricultural entrepreneur? If so, apply now the the currently-enrolling Founder Institute Food

competitors in the ride hailing space like Lyft, whose focus has traditionally not included food delivery, will even be able to hang on long enough to ride out the pandemic. Animal-free & Plant-based 'Meats' Get Tastier, Gain Popularity The innovation space around meat alternatives is truly booming, and has lots of promise and potential for positive outcomes in sustainability and consumer health. Dedicated investment groups and organizations like the Good Food Institute are a great place to dive into all the *meaty* details. But it's not just the Impossible Burger and Beyond Meat anymore—the number of startups and companies using synthetic biology, novel fermentation methods, and other

technologies to produce new meat alternatives is truly mind-bending, and likely to create enormously impactful

25

20

Capital Invested

Deal Count

Image Source Words matter - as "plant-based" and "animal-free" enter into consumers' dietary lexicon, they have social effects. These words carry different connotations than terms like "vegetarian" and "vegan" conjure up in the minds of average eaters. In truth, less meat is already becoming mainstream in the rich world—it's no longer just about animal welfare and ethics: many consumers now regularly prefer plant-based diets for exclusively environmental or personal health reasons, too.

The United States, both in terms of its regulators and its consumers, is generally accepting of genetically modified

In terms of a globalized food system, this divide seems among the starkest in the food world—but also one that

appears very much unflinching and unchanging. It seems likely that foods produced in novel ways, such as through

cell culture and fermentation methods, but that include genetic modification components, will see regulatory and

Accelerated Localization of Food Systems & Locavore Movement

systems producers. Affluent consumers especially will increasingly continue to seek high-quality foods that are

costs to consumers, and developing countries being cut out of the food supply chains of rich-world consumers.

grown or produced close to home. But there are also negative effects from increased localization, including higher

If cheap labor cannot be imported seasonally from abroad as easily as in the past, rich countries will see a quicker

pickup in automation of planting and harvesting. Some jobs, formerly performed by seasonal migrant workers, will

General macroeconomic trends away from globalization will result in positive outcomes, at least for some local food

crops. But Europe, and the European Union in particular, has much stricter barriers against GMOs within food supply

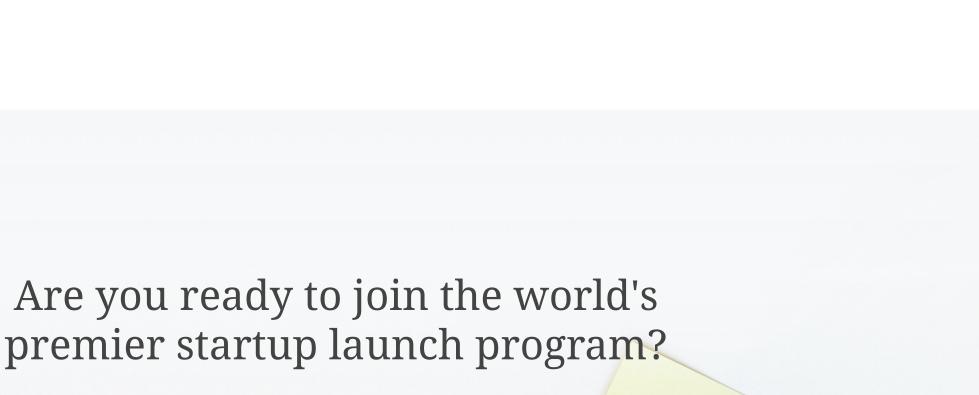
Making Projections

Companies

Graduates of the Founder Institute are creating some of the world's fastest growing startups, having raised over

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With Zero Capital

By **Dustin Betz** on **2020-08-22**

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Zero Capital

A nossa visão é globalizar Silicon Valley criando e promovendo

ecossistemas de iniciativas locais em mercados promissores por todo o

mundo. Visamos ajudar a lançar 4,300 empresas de tecnologia por ano, em

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