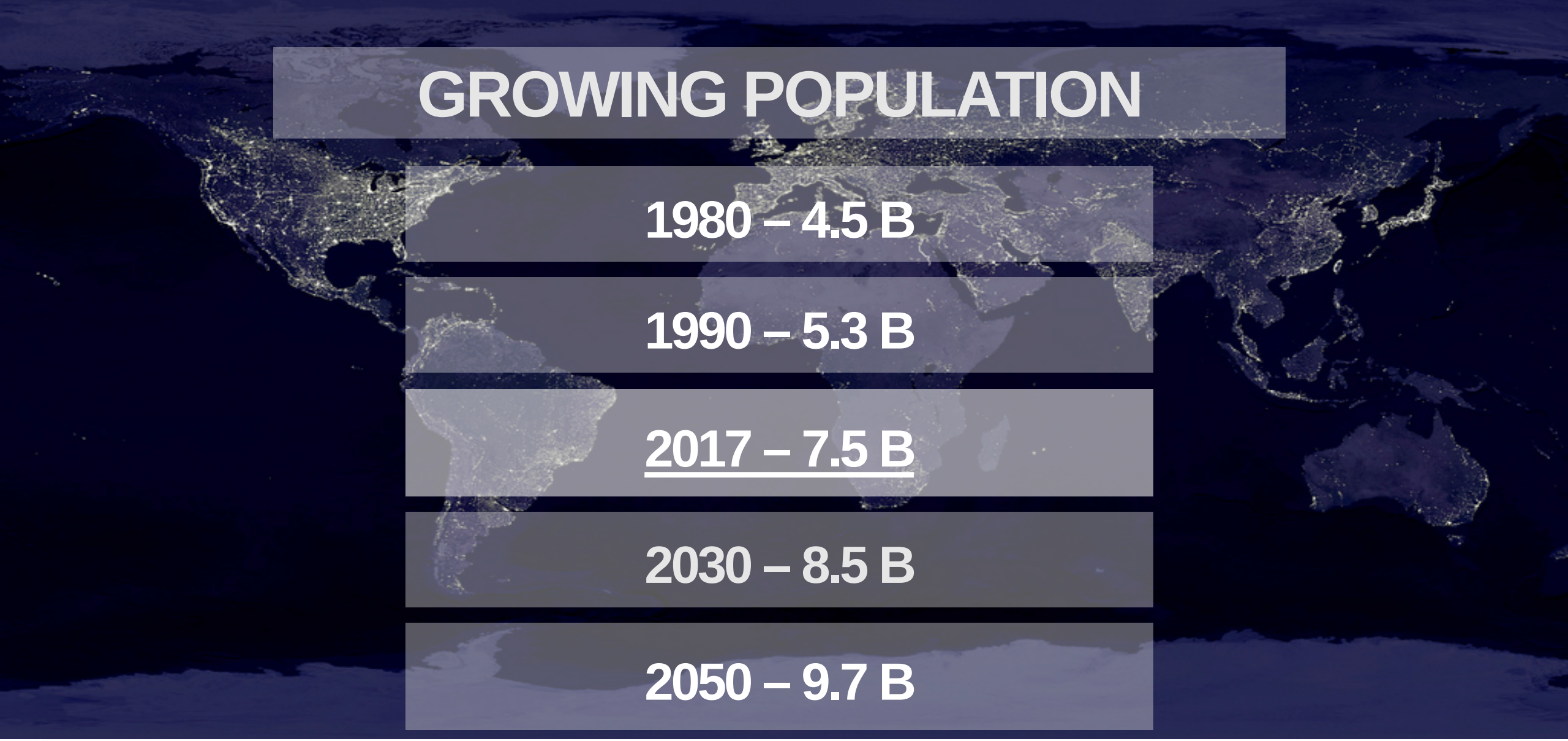
RISING STARTUPS

SMART FARMING INNOVATIONS AND SOLUTIONS THAT ARE CHANGING THE GAME

DIGITAL DAYS

SEEDS & CHIPS


WHAT'S HAPPENING?



GROWING POPULATION

1980 – 4.5 B

1990 – 5.3 B

2017 – 7.5 B

2030 – 8.5 B

2050 – 9.7 B

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AGRICULTURE

"Conventional agriculture has never succeeded in feeding the world, and it's never produced anything good to eat. For the future, we need to look toward alternatives." DAN BARBER

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MILLENIALS + TECHNOLOGY

AGTECH
BIG DATA& AI
BLOCKCHAIN
INTERNET OF THINGS

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THE WORLD OF AGRIFOOD TECH

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2017 TOP TRENDS

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Artificial intelligence has a wide variety of uses for agriculture including for use in crop monitoring and viability tracking, analyzing data from farm sensors, helping to reduce labor demands, and even providing chatbots specifically for farmers.

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AI
AeroFarms
Farming Locally. Globally.
GAMAYA
prospera
TRACE
GENOMICS
aWhere
The Power of Agricultural Intelligence
Plenty
ec2ce
plantix
grow smart.

Drones save farmers time and money alike. They can be used to monitor and inspect crops. Drones which harness AI and machine vision are able to move autonomously and observe the land around them have many work-reducing pros for farmers

DRONES

Drones constitute a vital device of the Precision agriculture ecosystem. The regulatory landscape associated with the usage of drones is undergoing an evolution with policy makers wither upgrading the regulatory frameworks or establishing new ones.

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ROBOTICS

Robots can provide labor that can be cheaper and more effective than traditional methods. For example, automated robotic lettuce thinners, pesticide sprayers, and self-driving tractors can reduce the need for human labor while completing the necessary tasks with greater accuracy and efficiency.

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DRONES & ROBOTICS

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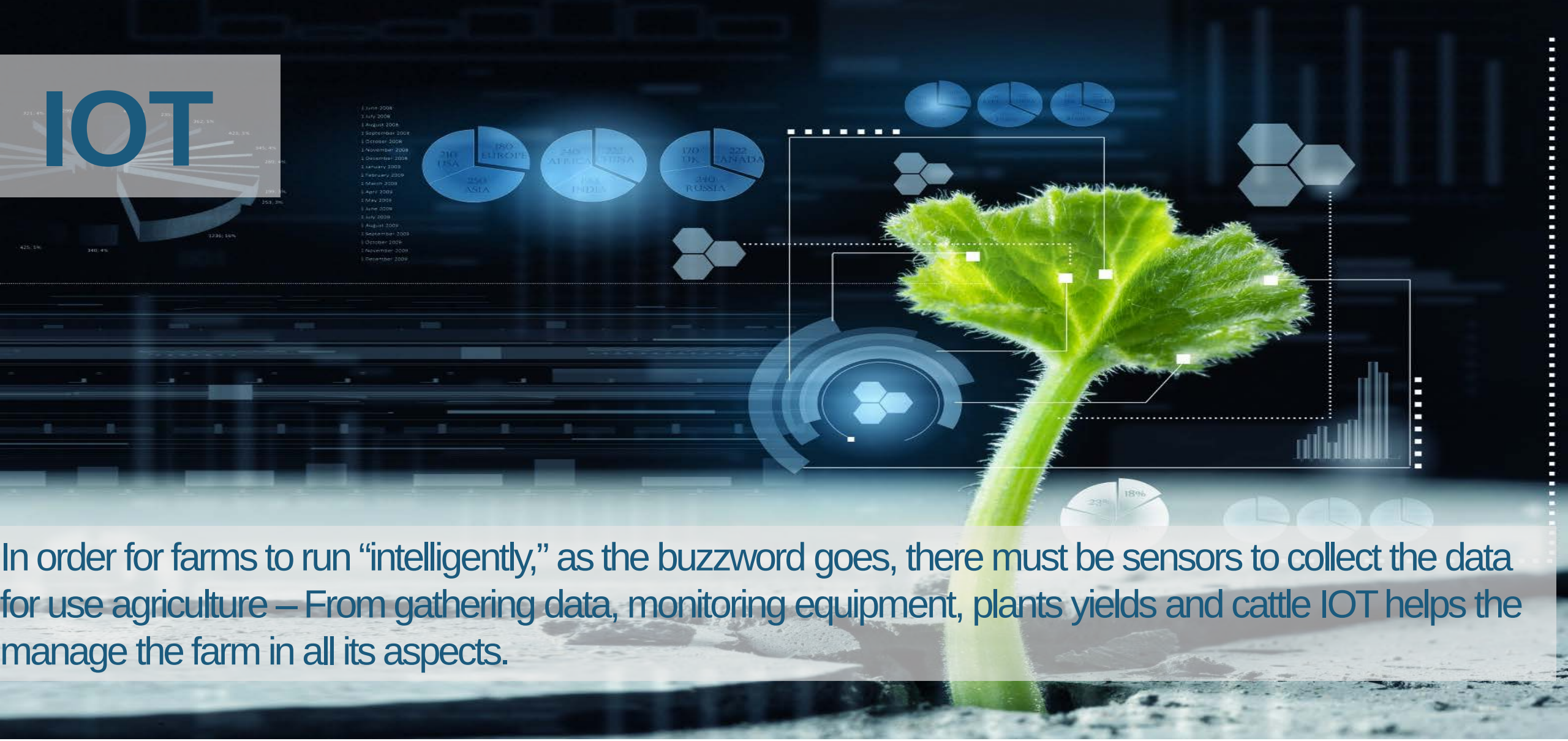

In order for farms to run “intelligently,” as the buzzword goes, there must be sensors to collect the data for use agriculture – From gathering data, monitoring equipment, plants yields and cattle IOT helps the manage the farm in all its aspects.

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IOT


ARABLE
Connecterra
FarmersEdge™
cropX
FieldIn
Centaur
FARMOBILE

CELLULAR AGRICULTURE

Cellular agriculture uses bioscience to create common agricultural goods such as meat, milk, and eggs without the need of their related animals.

Lab-grown meats, milks, etc. have benefits such as the absence of bacteria and disease as well as ethical benefits

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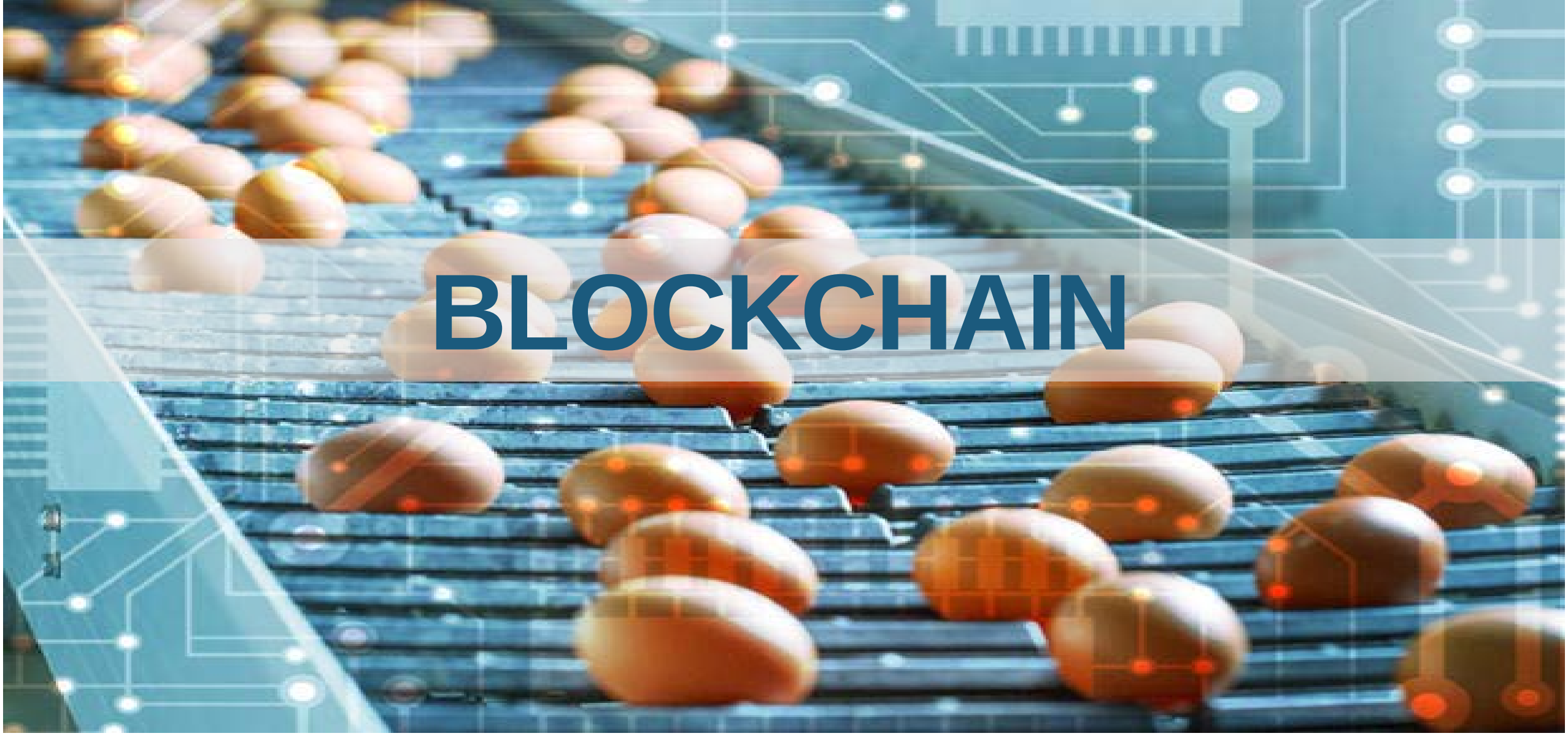

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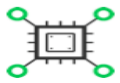
LET'S TAKE A CLOSER LOOK

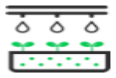
Ag Biotechnology
On-farm inputs for crop & animal ag including genetics, soil microbiome, breeding, animal health



Farm Management Software, Sensing & IoT
Ag data capturing devices, decision support software, big data analytics

Farm Robotics, Mechanization & Equipment
On-farm machinery, automation, drone manufacturers, grow equipment

Bioenergy & Biomaterials
Non-food extraction & processing, feedstock technology, green-chemistry, cannabis pharmaceuticals



Novel Farming Systems
Indoor farms, aquaculture, insect, algae & microbe production

Agribusiness Marketplaces
Commodities trading platforms, online input procurement, equipment leasing

Midstream Technologies
Food safety & traceability tech, logistics & transport, processing tech, shelf-life enhancement

Innovative Food
Plant-based meat, cultured meat & dairy, novel ingredients, nutraceuticals or innovative supplements

In-Store Retail & Restaurant Tech
Shelf-stacking robots, 3D food printers, POS systems, food waste monitoring IoT

eGrocery
On-demand grocery delivery, including farm-to-consumer marketplaces and specialty providers

Restaurant Marketplaces
Online tech platforms delivering food from a wide range of vendors

Online Restaurants and Meal Kits
Prepared meal delivery, often based on specialty diets, or pre-portioned ingredient kits to cook at home

Home & Cooking Tech
Smart kitchen appliances, nutrition technologies, food testing devices

Miscellaneous
e.g. cultured leather, land management tech, financial services for farmers

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FARM MANAGEMENT SOFTWARE

scoutpro, Granular, Agworld, AgSquared, conservis, CropIn, trecker.com, PICKTRACE, FarmLogs, AgriWebb, ONFARM

PRECISION AGRICULTURE AND PREDICTIVE ANALYTICS

agronóstico, AGRIBLE, GAMAYA, Strider, GeoVisual analytics, agrilyst, S4, CropMetrics, adapt-N, FARMERS, bovcontrol, CropZilla, MyAgData.com, AGRALOGICS, prospera, aWhere

NEXT GEN FARMS

FREIGHT FARMS, FRESH BOX FARMS, BRIGHT FARMS, GREEN SENSE FARMS, GOTHAM GREENS, AeroFarms

MARKETPLACES

AgroStar, Agriconomie, LA RUCHE QUI DIT OUI !, EMBRAPA, Aggrigator, YAGRO

ANIMAL DATA

AAD Advanced Animal Diagnostics, Farmnote, stellapps, Mastiline, TL Biolabs, Connecterra

ROBOTICS AND DRONES

mavrx, FarmBot, AIRWOOD, ceresimaging, BLUE RIVER TECHNOLOGY, SkySquirrel, SKYCISION, LEADING EDGE, TerrAvion, RESSON, RAPTOR MAPS

SENSORS

Centaur, SLANTRANGE, grownetics, pycno, SPENSA, amber AGRICULTURE, Saturas, Acuity Agriculture, FARMOBILE, Grassometer, Phytech, FarmersEdge, ARABLE, FieldIn, flux, SMART YIELDS, semios

SMART IRRIGIATION

HydroBio, HORTAU, SIMPLIFIED IRRIGATION, Sprinkl, HydroPoint, SMART FARM, PowWow, cropx, AquaSpy, EDYN

CB INSIGHTS

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GLOBAL EQUITY FUNDING SINCE 2013:

1.5B ACROSS 453 DEALS

WILL ARRIVE TO 18+B 5YRS

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“BIG DEALS”

COMPANY	AMOUNT/ROUND	YEAR
Plenty	200 M SERIES B	2017
indigo™	100 M SERIES C	2016
FarmersEdge™	41.1 M UNATTRIBUTED	2016
AeroFarms® Farming Locally. Globally.	40.5 M SERIES D	2017
FARMERS℠ BUSINESS NETWORK	40 M SERIES B	2017

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CONCLUSIONS

“The world will need to produce 70% more food in 2050 than it did in 2006 in order to feed the growing population of the Earth, according to the UN Food and Agriculture Organization. To meet this demand, farmers and agricultural companies are turning to the Internet of Things for analytics and greater production capabilities.” — Business Insider

GRAZIE

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