Cornell AgriTech New York State Agricultural Experiment Station

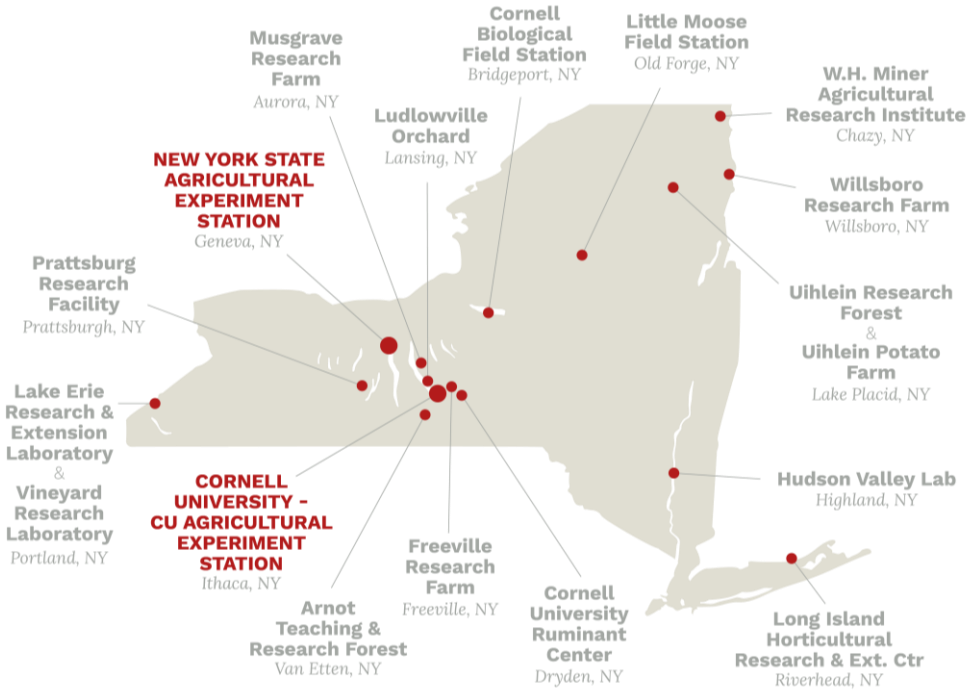
The Future of Food

NYS Center of Excellence for Food and Agriculture At Cornell AgriTech

NYS Innovation Summit
October 7, 2019

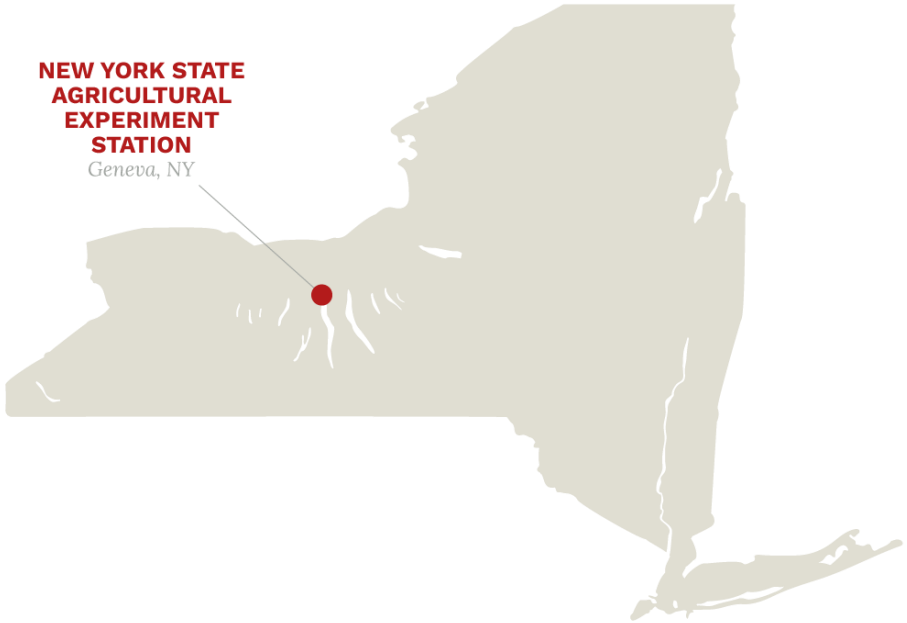
CALS' presence throughout New York State includes:

- 5,022 acres on Ithaca's main campus (includes Cornell Botanic Gardens, Lab of Ornithology, Campus Farms)
- 2,075 acres within Tompkins County
- 10,314 acres outside Tompkins County



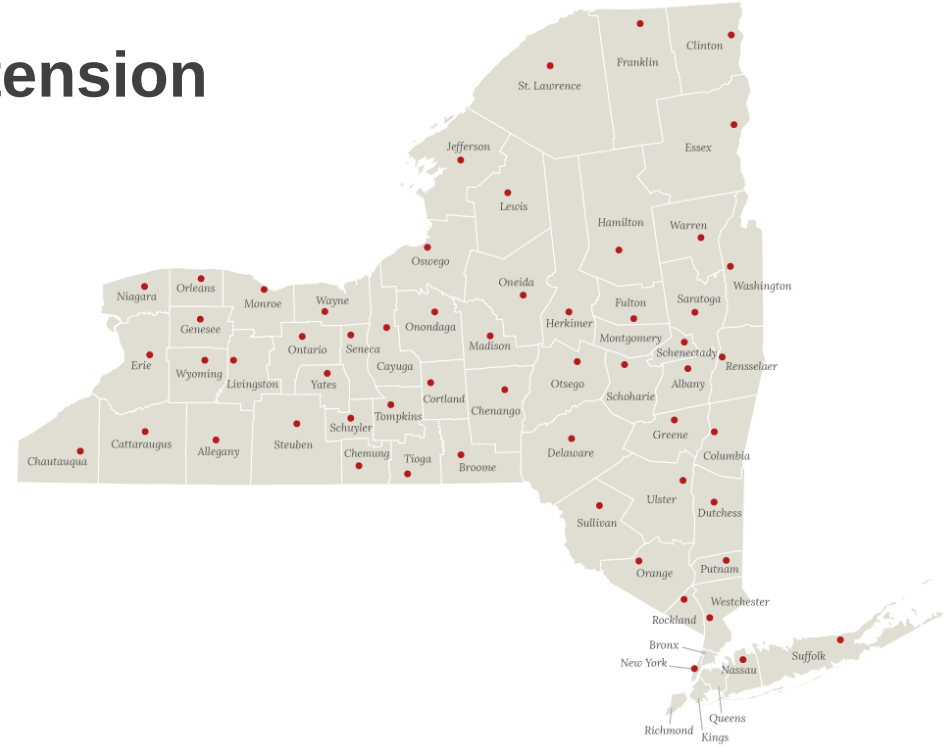
Cornell AgriTech: Geneva, NY

- 50 faculty
- 50 grad students/post-docs
- ~300 employees
- 900 acres, including 12 farms
- 70 buildings with over 500,000 sq. ft. of lab space



Cornell Cooperative Extension

- Programs in every county of New York State and the 5 boroughs of New York City
- 57 learning centers across New York State
- Reaches over 16 million people each year
- Employs ~1,000 staff and educators
- Relies on 45,000 volunteers

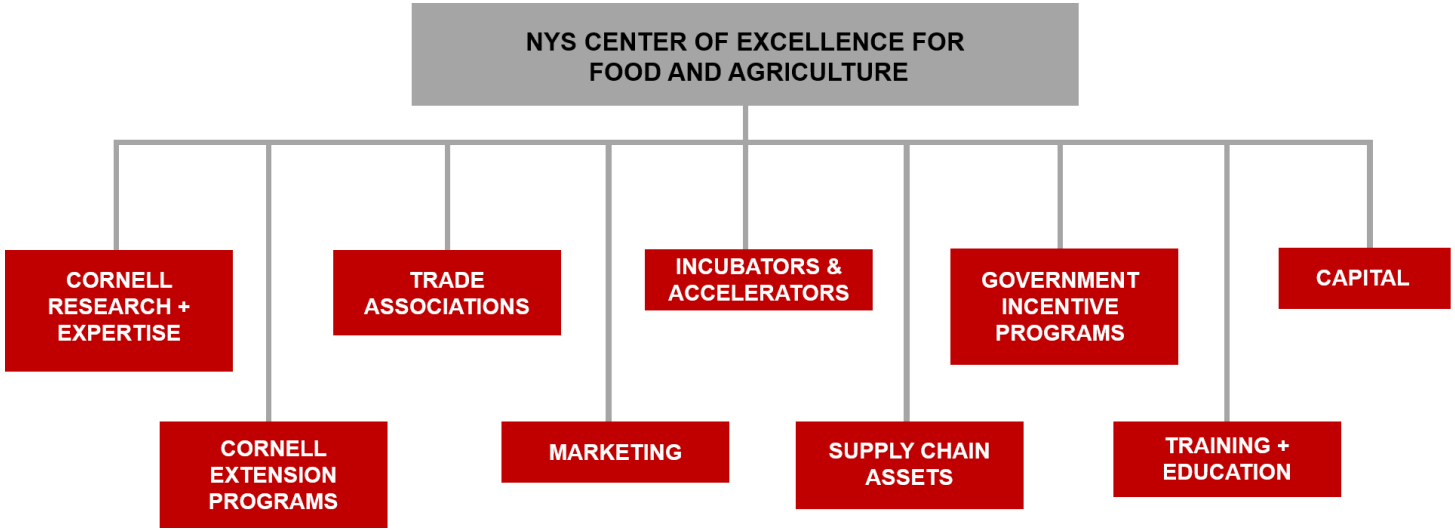


NYS Center of Excellence for Food & Agriculture

Committed to improving people's lives by working to grow the food and agriculture economy and support New York State's global leadership in this sector.

A hub that provides vision and leadership to advance economic development projects, and connects businesses and entrepreneurs with the services and resources they need to be successful.

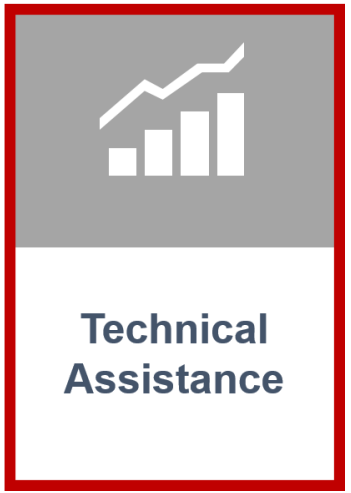
Connect


NYS CENTER OF EXCELLENCE FOR FOOD AND AGRICULTURE
CORNELL RESEARCH + EXPERTISE
CORNELL EXTENSION PROGRAMS
TRADE ASSOCIATIONS
MARKETING
INCUBATORS & ACCELERATORS
SUPPLY CHAIN ASSETS
GOVERNMENT INCENTIVE PROGRAMS
TRAINING + EDUCATION
CAPITAL

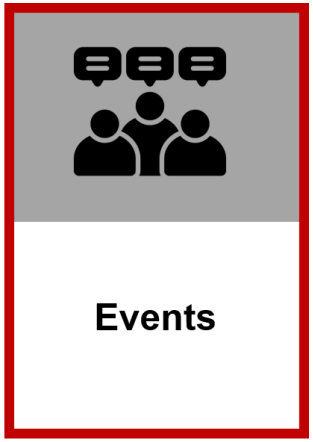
Mentor

Business Planning

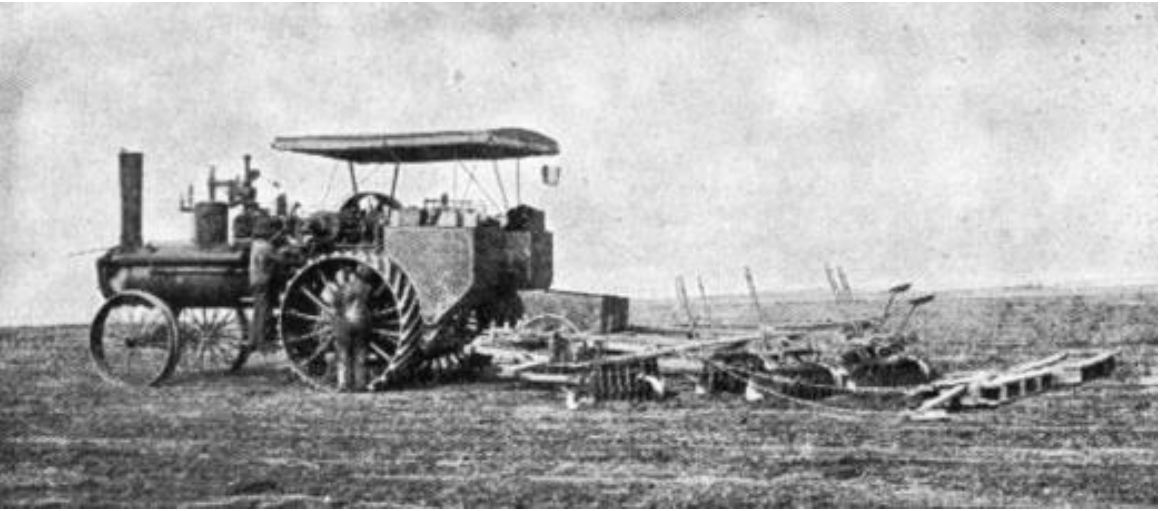
Leadership Development


Technical Assistance

Build and Sustain



CORNELL UNIVERSITY



iStockPhoto/dozet

AGTECH LANDSCAPE 2019

Better Food Ventures

IN-FIELD SENSORS & SYSTEMS

Field Monitoring Sensors & Solutions

SENSOTERRA, Phytech, itk, Fasal, semios, TaniFarming, Aker, KEEDA GRO, AGERPoint, pycno, SENSPROUT, Sentek, DTN, Naturas, FRUITION SCIENCES, See Tree, Croptimal, DATA FARMING, ARABLE

Soil Sensing / Analysis

teralytic, STENON, TRACE, FALCON, AUTOPHOSE, PERSISTENCE DATA SYSTEMS, AGRON, SoilCares, OneSoil, SOILOPTIX

Insect Sensing / Monitoring

The Bee Corp, Aerobotics, BeeHero, trapview, semios, AgroPestAlert, beehives, FaunaPhotonics, ApisProtect, Farmapp, FARM DOG

Precision Applications

FieldIn, zasso, edete, AgOtter, TRACMAP, DROPCOPTER, KIWI, RANTIZO, AUGMENTA, ON TARGET, Nileworks, Precision Planting

IoT Monitoring Platforms

cropiogic, FarmQA, AGRISOURCE DATA, FARMOBILE, trigger systems, YIELD, UPTAKE, intelag, Revolution AG, Farm Solutions, ASSENSE, WiseConn, PRECISIONKING

Precision Irrigation

HydroPoint, Agro Intelligence, wildeye, Tevatronic, groguru, IRRIMAX, tule, cropx, farm(x), WaterBit, NETAFIM, CropMetrics, HORTAU

Water Monitoring

PowWow, Swim, Waterlind, AQUASO, WEXUS, WellNet, REDtrac

Labor Management

GANAZ, PAGO, agriculturaldata, HY, AgDraft, PICKTRACE

Crop / Farm Management Software

solinftec, Cropin, agrivi, AGVOICE, CropTrak, slingshot, LeanAgri, Agworld, AGRI TRACKING SYSTEMS, smag, CROPIO, Aegro, AgKonect, AgDNA, ISAGRI, THE CLIMATE CORPORATION, FarmersEdge, GROWERS, conservis, AGRINAVIA, EFC SYSTEMS, Strider, FARM IQ, CIPHER, FARMLOGIC, intterra, ExactFarming, HARVEST profit, 365FarmNet, farmbrite, Proagrica, AgSquared, Granular, Farmflo, TRU TERRA, AGVERDICT, FarmLogs, scirop, Decisive, Agrosptima

Digital Marketplaces

Agriconomie.com, AGRI MARKETPLACE, TARPIN, Gramophone, YAGRO, TILLABLE, hello tractor, ricult, AgroStar, AgVend, esoko, HARVEST PORT, ABIAM, Agrofy, TRACTOR ZOOM, FarmTrade

Automation/ Robotics

abundant ROBOTICS, ASI, BEAR FLAG ROBOTICS, SWARM TECHNOLOGY, ecorobotix, AGROBOT, advanced.farm, ROWBOT, HARVEST AUTOMATION, ATC, TARTAN SENSE, naïo, RoboticsPlus, HARVEST CROO ROBOTICS, Dynium Robot, agerris, Tortuga, root AI, SAGA ROBOTICS, EARTHSENSE, AGR AUTOMATED ROBOTS, Small Robot Company

Processing Technology

QCIFY, PARSABLE, 915 LABS, SOFT ROBOTICS, wakati, ASEPTOSPRAY, AGRI-NEO, WECO, InspiraFarms, Blendhub, PROVENIR, E-Sep Technologies

Post-Harvest Monitoring

INTELLIFARMS, PalleTech, TELESENSE, scio, AGNEXT, Centaur, INTELLO LABS, VIBE

Next Gen Logistics

SENSOR TRANSPORT, samsara, NanoThings, TRADELANES, MESH KOREA, WAYCOOL, Jumbotail, LOCUS, 八面六臂 HAOMIANLIUBI, Lineage, flit, loadsmart, Frey

Freshness Control

bluwrap, Cambridge Crops, hazel technologies LLC, ENOLUMA, wisepack, APEEL SCIENCES

Cold Chain Monitoring

tsensor, metiora, FreshSurety, ecoZen, EscaVox, Inteligistics, controlant, LETTUCE BOX, INC., ColdPICK, Infratab

Food Recovery

IMPACT PIONEER, FULLHARVEST, CSS, FoodMaven, WISErg, copia, CROPMOBSTER, Lactips, SPOILER ALERT

Quality Mgmt / Compliance

RedLine SOLUTIONS, rizepoint, Produce, TRAQTION, CoInspect, ICIX, TraceGains, Lotpath, iFood Decision Sciences

ERP Specialty

AgCode, Prophet, FAMOUS, PRODUCE BOSS SOFTWARE, LINKFRESH, ExtendAg, justfoodERP, FarmERP, SPOKANE SOFTWARE

ERP Commodity

agrimaster, conservis, EFC SYSTEMS, AgVision, Granular, xero, magnify, CountrysideData, COMPASS, agriflo, Agvance, Agri, adnova, CULTURA

Yield Forecasting

AGROGRAPH, AGRIDATA, VINSIGHT, CropProphet, FruitSpec., logiclabs

Supply Analytics

DecisionNext, Trellis, ATHENA INTELLIGENCE, Engage3, PRAEDICTUS, eka, cmdty, ec2ce, supply shift, agtools, sourcemap

Crop Marketing / Trading Platforms

grainbridge, BUSHEL, ninjacart, LA RUCHE, FARM'D, FARMpay, Aggregator, agree, FARMLEAD, fruitsapp, crofarm, AGRONO METRICS, The Seam, MERCARIS, Graindex

Finance & Insurance

PRODUCE PAY, FarmDrive, Samunnati, STABLE, trAlve, GRAINCHAIN, AGVESTO, FarmOp, TRUACRE, GROWERS EDGE FINANCIAL

POST-HARVEST MONITORING & EFFICIENCY

VALUE CHAIN ENABLERS

Blockchain

arc-net, agri digital, xpansiv, GRAIN CHAIN, bext360, GRAIN, AGRICHAIN, bart

Food Safety Detection

MYCOTEL SENTINEL, phylagen, mekitec, ASTRONA, CORVIUM, NOVOLYZE, Clear Labs, ProteoSense, SNAPDNA, INSPECTO

Food Safety Track & Trace

trace register, safe traces, FoodLogiQ, PROVISION ANALYTICS, rfxcel, HarvestMark

Integrated Solutions (Platform)

FARMERS EDGE, DeHaat, indigo, stellapps

Data Aggregators

aWhere, AGRIAN, AGRALOGICS, Farmapper, AGI, ((centricity)), FARM MARKET ID., LABELINSIGHT, AGDATA, DTN, skymetweather.com, LAND IQ, CDMS, Montage, GREENBOOK

Data Analytics (Platform)

FHFG, ClearAg, BOOST RIGHTS, BENSON-HILL, AgBiome, DNDK, prospera, CiBO, LISTENFIELD

Imagery Analytics

urthecast, Orbital Insight, SLANTRANGE, ceres imaging, Descartes Labs, EIO, plantix, TARANIS, FluroSat, OneSoil, sentera, planet, elio, impact vision, GAMAYA, Terrelytion, IntelinAir, farmshots, PRECISION AVA

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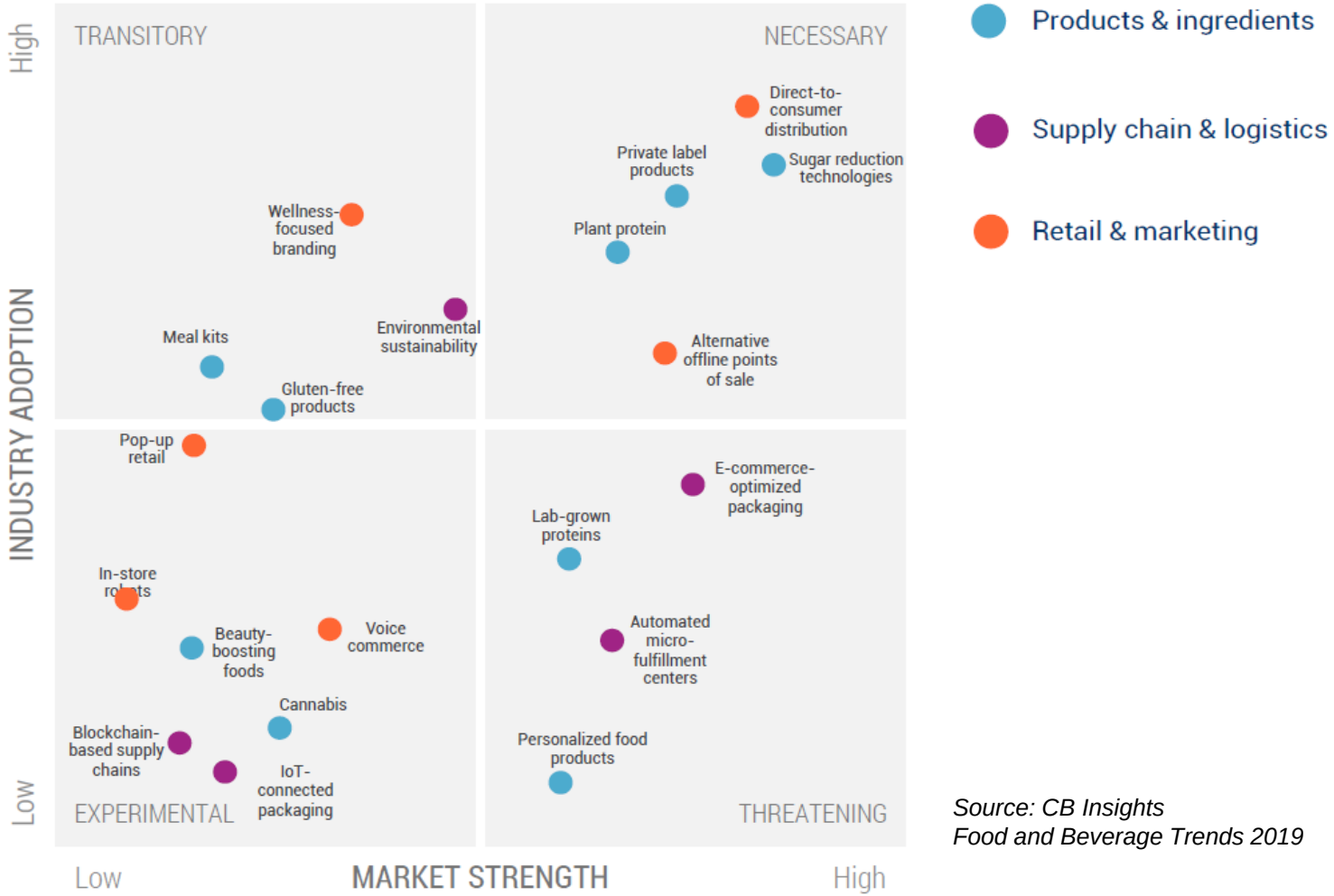

Source: CB Insights
Food and Beverage Trends 2019

Combplex

AES

ASSURED EDGE SOLUTIONS

TimberFish™
TECHNOLOGIES

Leep Foods™

Real Eats™

It's All in the Bag!™
Never Processed
No GMOs
Responsibly-Sourced
Never Frozen
No Microwaves
Real Eats
Honey Soy Salmon
Salmon
Heat 6 mins
Heat 3 mins

Grow-NY

FOOD & AGRICULTURE BUSINESS COMPETITION

Cornell AgriTech

New York State Agricultural Experiment Station

Thank you!

Catharine Young, Executive Director
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